Appendix F, Modeling

Attachment F.2-7 DSM2–Chloride

F.2-7.1 Results

The following results of the DSM2 QUAL model with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- ALT1 090923 (ALT1)
- Alt2woTUCPwoVA 091324 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 091324 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAllVA 091324 (Alt2woTUCPAllVA)
- Alt2wTUCPwoVA 091324 (Alt2wTUCPwoVA)
- ALT3 101323 (ALT3)
- ALT4 091624 (ALT4)

Section	Output Parameters	Table Numbers	Figure Numbers
Chloride	Contra Costa Pumping Plant Chloride	F.2.7-1-1a to F.2.7-1-7c	F.2.7-1-1 to F.2.7-1-18
Chloride	San Joaquin River at Antioch Chloride	F.2.7-2-1a to F.2.7-2-7c	F.2.7-2-1 to F.2.7-2-18
Chloride	Banks Pumping Plant South Delta Exports Chloride	F.2.7-3-1a to F.2.7-3-7c	F.2.7-3-1 to F.2.7-3-18
Chloride	Jones Pumping Plant South Delta Exports Chloride	F.2.7-4-1a to F.2.7-4-7c	F.2.7-4-1 to F.2.7-4-18
Chloride	North Bay Aqueduct Chloride	F.2.7-5-1a to F.2.7-5-7c	F.2.7-5-1 to F.2.7-5-18

F.2-7.2 Report Formats

Reports include monthly tables, monthly pattern charts, and monthly exceedance charts.

- Monthly tables include a comparison of an alternative and the No Action Alternative (exceedance values, long-term average, and average by water year type) by subtracting the values in the No Action Alternative table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) present all alternatives.
- Monthly exceedance charts (all months) present all alternatives.

Table F.2.7-1-1a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-1b. Contra Costa Pumping Plant Chloride, Alternative 1, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	189	236	239	219	175	63	50	45	55	82	105	148
20% Exceedance	176	202	229	191	126	49	38	36	29	51	91	144
30% Exceedance	168	185	219	164	92	40	33	32	28	44	86	140
40% Exceedance	161	178	205	127	63	31	30	30	26	37	76	137
50% Exceedance	153	169	180	92	36	28	29	29	24	32	68	133
60% Exceedance	149	163	153	55	30	25	27	26	23	26	60	129
70% Exceedance	145	148	128	33	26	24	26	25	22	25	54	124
80% Exceedance	136	120	89	24	22	23	24	23	21	23	43	115
90% Exceedance	111	87	35	20	20	21	22	17	17	21	37	97
Full Simulation Period Average[a]	152	164	162	107	73	37	33	31	32	41	71	127
Wet Water Years (28%)	129	132	136	40	35	27	25	20	19	22	44	113
Above Normal Years (14%)	147	152	163	85	35	26	31	28	23	24	55	135
Below Normal Years (18%)	145	153	148	107	62	31	29	28	25	35	74	123
Dry Water Years (24%)	161	167	163	159	103	39	32	31	27	48	87	131
Critical Water Years (16%)	195	244	223	164	138	72	55	56	76	88	103	145

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-1c. Contra Costa Pumping Plant Chloride, Alternative 1 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3	18	15	2	60	14	-5	-15	-28	-47	-37	-17
20% Exceedance	4	9	16	29	35	7	-11	-9	0	-4	-9	-5
30% Exceedance	4	21	17	42	33	3	-6	-6	0	-1	2	3
40% Exceedance	6	24	14	23	20	-3	-7	-5	-1	-4	4	11
50% Exceedance	18	35	8	15	-2	-3	-7	-3	-2	-3	11	19
60% Exceedance	125	117	38	11	-1	-4	-5	-3	-2	-1	16	82
70% Exceedance	122	106	34	3	-2	-4	-4	-3	-2	0	20	84
80% Exceedance	114	84	14	-2	-3	-3	-4	-4	-1	0	15	81
90% Exceedance	91	60	-4	-2	-2	-3	-3	-4	0	0	10	67
Full Simulation Period Average[a]	49	51	16	14	16	1	-5	-8	-6	-7	0	32
Wet Water Years (28%)	107	95	19	2	-1	-1	-3	-3	-1	0	13	78
Above Normal Years (14%)	125	115	25	10	-3	-6	-10	-6	-2	-1	23	97
Below Normal Years (18%)	-1	8	8	11	17	-2	-10	-6	-1	-3	4	-10
Dry Water Years (24%)	-3	10	16	29	33	3	-4	-4	0	0	2	4
Critical Water Years (16%)	10	23	10	17	36	13	-4	-26	-30	-40	-47	-18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-2a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-2b. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	196	221	224	206	122	59	48	46	53	86	109	149
20% Exceedance	183	191	211	162	79	42	40	37	29	54	93	143
30% Exceedance	167	165	197	122	57	37	36	32	29	44	84	136
40% Exceedance	154	153	185	95	44	35	33	30	28	39	74	130
50% Exceedance	138	130	168	75	40	32	31	29	26	36	61	116
60% Exceedance	25	49	109	44	32	30	29	27	24	26	48	53
70% Exceedance	23	41	95	32	29	28	28	26	23	25	38	47
80% Exceedance	21	35	72	26	26	26	27	24	22	23	30	38
90% Exceedance	20	27	38	22	23	23	23	18	17	21	28	31
Full Simulation Period Average[a]	107	113	142	92	56	37	34	31	32	42	65	95
Wet Water Years (28%)	22	38	116	36	36	27	24	20	20	23	32	37
Above Normal Years (14%)	22	35	135	74	40	32	32	28	24	26	38	43
Below Normal Years (18%)	150	145	137	97	46	33	33	29	26	38	73	131
Dry Water Years (24%)	168	160	147	125	66	36	34	32	28	49	90	134
Critical Water Years (16%)	203	220	197	149	99	63	53	54	74	87	102	146

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-2c. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11	3	0	-11	7	10	-7	-14	-30	-43	-33	-16
20% Exceedance	11	-2	-2	0	-12	1	-9	-7	0	-1	-8	-6
30% Exceedance	3	1	-5	-1	-2	1	-4	-6	1	-1	0	-1
40% Exceedance	-1	0	-6	-9	1	1	-5	-5	0	-1	1	4
50% Exceedance	2	-4	-3	-2	3	1	-5	-3	0	1	4	2
60% Exceedance	2	3	-6	0	1	0	-3	-3	-1	0	4	6
70% Exceedance	1	-1	1	1	1	0	-1	-3	-1	0	5	6
80% Exceedance	0	-1	-2	0	0	0	-2	-3	-1	0	2	4
90% Exceedance	0	-1	-2	0	0	-1	-2	-3	0	0	1	1
Full Simulation Period Average[a]	4	0	-3	-1	-1	1	-5	-8	-5	-6	-5	0
Wet Water Years (28%)	0	0	-1	-1	0	0	-3	-3	0	0	2	2
Above Normal Years (14%)	0	-1	-3	-1	2	0	-9	-6	-1	1	6	5
Below Normal Years (18%)	4	-1	-3	0	1	0	-6	-5	0	1	3	-2
Dry Water Years (24%)	3	3	1	-4	-5	0	-2	-3	0	1	4	6
Critical Water Years (16%)	18	-1	-16	3	-3	4	-6	-27	-32	-41	-48	-18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-3a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-3b. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	199	218	224	195	124	60	62	46	52	87	112	157
20% Exceedance	184	186	213	162	84	49	54	42	31	56	102	146
30% Exceedance	166	166	199	125	58	46	48	38	29	45	86	141
40% Exceedance	154	149	187	102	44	42	46	36	28	40	76	131
50% Exceedance	143	133	160	77	40	40	42	33	26	36	65	122
60% Exceedance	25	49	108	44	32	37	38	31	24	26	50	53
70% Exceedance	23	42	95	32	29	33	34	28	24	25	37	46
80% Exceedance	21	39	73	26	26	27	30	25	22	23	29	37
90% Exceedance	21	27	38	22	23	23	24	18	17	21	28	31
Full Simulation Period Average[a]	108	114	142	93	58	43	43	34	32	43	67	97
Wet Water Years (28%)	22	38	116	38	36	28	28	21	20	23	31	37
Above Normal Years (14%)	22	37	137	74	40	41	52	34	25	26	37	42
Below Normal Years (18%)	152	147	140	103	47	45	47	33	27	38	75	135
Dry Water Years (24%)	168	158	145	121	66	41	43	36	28	51	95	139
Critical Water Years (16%)	206	222	197	154	113	69	54	55	74	88	104	148

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-3c. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14	0	-1	-22	9	10	7	-14	-31	-42	-30	-9
20% Exceedance	12	-6	0	-1	-7	7	4	-3	2	1	1	-2
30% Exceedance	2	2	-3	2	-1	9	8	0	1	-1	2	4
40% Exceedance	-1	-4	-4	-2	1	8	8	1	1	0	4	5
50% Exceedance	7	-1	-12	0	3	9	6	1	0	1	7	7
60% Exceedance	2	3	-7	0	1	7	6	1	-1	-1	6	5
70% Exceedance	0	-1	1	1	1	5	4	-1	0	0	3	5
80% Exceedance	0	3	-1	0	0	1	2	-2	0	0	1	3
90% Exceedance	0	0	-2	0	0	-1	-1	-3	0	0	1	1
Full Simulation Period Average[a]	5	1	-3	0	1	6	4	-5	-5	-6	-3	2
Wet Water Years (28%)	0	1	-1	0	0	1	1	-2	0	0	1	2
Above Normal Years (14%)	0	0	-1	-1	2	9	11	1	0	1	4	4
Below Normal Years (18%)	6	2	1	6	1	12	8	-1	0	1	5	2
Dry Water Years (24%)	3	1	-1	-8	-4	5	7	2	1	2	9	12
Critical Water Years (16%)	21	1	-16	7	11	10	-5	-27	-32	-40	-46	-16

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-4a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-4b. Contra Costa Pumping Plant Chloride, Alt2woTUCPAllVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	197	218	226	194	122	59	64	45	45	83	111	152
20% Exceedance	182	188	213	159	81	49	52	41	30	54	101	146
30% Exceedance	165	166	200	123	58	46	48	37	28	44	85	139
40% Exceedance	154	149	187	102	44	42	46	34	27	40	74	131
50% Exceedance	143	132	159	76	39	39	41	32	25	34	61	119
60% Exceedance	25	49	110	44	32	36	38	30	24	26	48	53
70% Exceedance	23	41	95	32	29	33	34	27	23	25	35	45
80% Exceedance	21	39	74	26	26	27	29	25	22	23	29	36
90% Exceedance	21	27	37	22	23	23	24	18	17	21	27	31
Full Simulation Period Average[a]	107	113	143	93	56	41	42	33	30	42	66	97
Wet Water Years (28%)	22	38	116	37	36	28	28	20	20	23	31	37
Above Normal Years (14%)	22	37	137	73	39	40	51	33	24	26	35	41
Below Normal Years (18%)	148	143	141	98	47	45	47	31	26	38	72	134
Dry Water Years (24%)	167	157	145	125	66	41	43	36	27	50	95	138
Critical Water Years (16%)	206	223	199	154	99	63	53	51	65	82	101	147

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-4c. Contra Costa Pumping Plant Chloride, Alt2woTUCPAllVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	12	0	1	-23	6	9	9	-15	-38	-46	-31	-13
20% Exceedance	10	-5	0	-3	-10	7	3	-4	0	-1	0	-2
30% Exceedance	1	2	-2	1	-2	9	8	-1	0	-1	0	2
40% Exceedance	-1	-5	-4	-2	0	8	8	-1	-1	0	1	5
50% Exceedance	8	-3	-13	-1	2	8	6	0	-1	-1	4	5
60% Exceedance	2	3	-5	0	1	7	6	0	-1	0	4	6
70% Exceedance	0	-1	2	2	0	5	4	-1	-1	0	1	4
80% Exceedance	0	3	-1	0	0	1	1	-2	0	0	1	2
90% Exceedance	0	-1	-2	0	0	-1	-1	-3	0	0	1	1
Full Simulation Period Average[a]	4	0	-3	0	-1	5	4	-6	-7	-7	-5	1
Wet Water Years (28%)	0	1	-1	-1	0	0	1	-2	0	0	1	2
Above Normal Years (14%)	0	0	-1	-2	1	9	10	0	0	1	3	3
Below Normal Years (18%)	3	-3	1	2	1	12	8	-3	0	1	2	1
Dry Water Years (24%)	2	0	-1	-4	-4	5	7	1	0	2	9	11
Critical Water Years (16%)	21	2	-13	7	-2	4	-6	-31	-41	-46	-49	-17

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-5a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-5b. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	189	219	224	196	122	54	48	52	86	124	145	163
20% Exceedance	174	188	212	158	77	42	40	37	29	55	100	147
30% Exceedance	162	165	200	132	58	37	36	32	29	46	86	139
40% Exceedance	154	152	187	95	46	34	33	30	28	40	81	131
50% Exceedance	136	133	170	72	38	32	31	29	26	37	58	118
60% Exceedance	25	49	113	44	32	29	29	27	24	27	50	53
70% Exceedance	23	41	94	32	29	28	28	25	23	25	38	47
80% Exceedance	21	35	73	26	26	26	27	24	22	23	31	38
90% Exceedance	20	27	38	22	23	23	23	18	17	21	28	31
Full Simulation Period Average[a]	104	113	144	91	57	37	35	35	37	48	72	98
Wet Water Years (28%)	22	38	116	36	36	27	24	20	20	23	32	37
Above Normal Years (14%)	22	36	135	74	41	32	32	28	24	26	38	43
Below Normal Years (18%)	148	143	138	94	46	33	33	29	26	38	73	132
Dry Water Years (24%)	167	159	149	129	66	36	34	32	28	49	90	134
Critical Water Years (16%)	186	222	202	141	104	64	59	79	103	121	142	160

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-5c. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4	1	-1	-20	7	4	-7	-8	3	-4	3	-2
20% Exceedance	2	-4	-1	-4	-14	0	-9	-7	0	0	0	-2
30% Exceedance	-2	1	-2	10	-2	1	-4	-6	1	1	2	2
40% Exceedance	-1	-1	-4	-8	3	0	-5	-5	0	-1	8	5
50% Exceedance	1	-2	-2	-5	1	1	-5	-3	0	1	1	4
60% Exceedance	2	3	-2	0	1	0	-3	-3	-1	0	6	6
70% Exceedance	1	-1	1	1	1	0	-1	-3	-1	0	5	6
80% Exceedance	0	-1	-2	0	0	0	-2	-3	-1	0	2	4
90% Exceedance	0	0	-2	0	0	-1	-2	-3	0	0	1	1
Full Simulation Period Average[a]	1	0	-2	-2	0	1	-4	-4	-1	-1	2	2
Wet Water Years (28%)	0	0	-1	-1	0	0	-3	-3	0	0	2	2
Above Normal Years (14%)	0	-1	-3	-1	3	1	-9	-6	-1	1	6	5
Below Normal Years (18%)	2	-2	-2	-2	0	0	-6	-6	0	0	3	-1
Dry Water Years (24%)	3	2	2	-1	-4	0	-2	-3	0	1	5	7
Critical Water Years (16%)	1	1	-11	-6	2	5	0	-3	-3	-7	-8	-4

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-6a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-6b. Contra Costa Pumping Plant Chloride, Alternative 3, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	140	209	182	123	84	84	87	82	57	54	60	89
20% Exceedance	92	146	171	84	59	73	80	73	48	42	34	38
30% Exceedance	77	128	163	69	51	64	73	68	46	37	31	33
40% Exceedance	64	111	135	56	46	55	63	64	43	34	29	30
50% Exceedance	47	89	84	48	44	45	58	60	41	31	28	29
60% Exceedance	26	28	45	40	39	35	49	55	37	30	27	27
70% Exceedance	21	24	29	33	34	30	46	49	33	29	26	23
80% Exceedance	20	24	27	28	29	27	40	30	26	28	25	22
90% Exceedance	19	23	25	24	25	24	19	13	15	23	25	21
Full Simulation Period Average[a]	62	91	99	61	48	49	58	55	40	36	35	38
Wet Water Years (28%)	21	24	30	36	38	43	39	28	24	27	26	23
Above Normal Years (14%)	21	24	46	45	39	50	65	59	38	32	27	23
Below Normal Years (18%)	55	98	134	59	47	53	65	63	39	37	31	30
Dry Water Years (24%)	80	129	132	71	53	46	59	60	43	30	29	33
Critical Water Years (16%)	161	215	183	108	67	61	73	78	69	61	71	94

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-6c. Contra Costa Pumping Plant Chloride, Alternative 3 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-45	-8	-42	-94	-31	34	32	21	-26	-75	-82	-76
20% Exceedance	-79	-46	-42	-78	-32	31	31	28	19	-13	-66	-111
30% Exceedance	-87	-36	-39	-53	-8	27	33	30	18	-9	-53	-104
40% Exceedance	-91	-43	-56	-47	2	21	26	29	16	-7	-43	-96
50% Exceedance	-89	-46	-88	-29	6	14	22	28	15	-4	-29	-85
60% Exceedance	3	-18	-70	-3	8	6	17	26	12	3	-17	-20
70% Exceedance	-1	-18	-64	2	6	3	16	20	9	4	-7	-18
80% Exceedance	-1	-12	-48	1	4	1	12	3	4	4	-3	-12
90% Exceedance	-1	-5	-14	1	3	0	-6	-8	-2	3	-2	-8
Full Simulation Period Average[a]	-41	-22	-47	-31	-9	13	19	16	3	-13	-35	-58
Wet Water Years (28%)	0	-13	-87	-2	2	16	12	6	4	4	-4	-11
Above Normal Years (14%)	0	-12	-92	-30	1	18	24	26	14	7	-5	-15
Below Normal Years (18%)	-91	-47	-6	-37	1	20	26	29	13	0	-39	-103
Dry Water Years (24%)	-85	-28	-15	-58	-18	9	23	26	15	-18	-57	-94
Critical Water Years (16%)	-24	-6	-29	-39	-35	2	14	-4	-37	-67	-79	-70

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-7a. Contra Costa Pumping Plant Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	218	224	216	115	50	55	60	83	129	142	165
20% Exceedance	172	193	213	162	91	42	49	44	29	55	100	149
30% Exceedance	164	164	202	122	59	37	40	38	28	45	84	137
40% Exceedance	155	153	191	104	44	34	38	35	27	40	73	126
50% Exceedance	136	134	172	77	38	31	36	32	26	35	57	114
60% Exceedance	23	46	115	43	31	29	32	30	25	27	44	48
70% Exceedance	22	42	93	31	28	28	30	28	24	24	34	41
80% Exceedance	21	35	75	26	25	26	28	27	22	23	28	34
90% Exceedance	21	27	39	22	22	24	25	21	17	21	27	30
Full Simulation Period Average[a]	103	113	146	93	57	36	39	39	37	49	70	96
Wet Water Years (28%)	22	37	117	38	36	27	27	23	20	23	30	34
Above Normal Years (14%)	22	37	138	75	38	32	41	34	25	25	32	38
Below Normal Years (18%)	146	146	140	96	46	33	39	34	26	37	70	133
Dry Water Years (24%)	165	157	146	129	70	36	36	35	27	48	86	127
Critical Water Years (16%)	185	221	213	147	102	59	59	81	106	128	150	164

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-7b. Contra Costa Pumping Plant Chloride, Alternative 4, Monthly Chloride (mg/L)

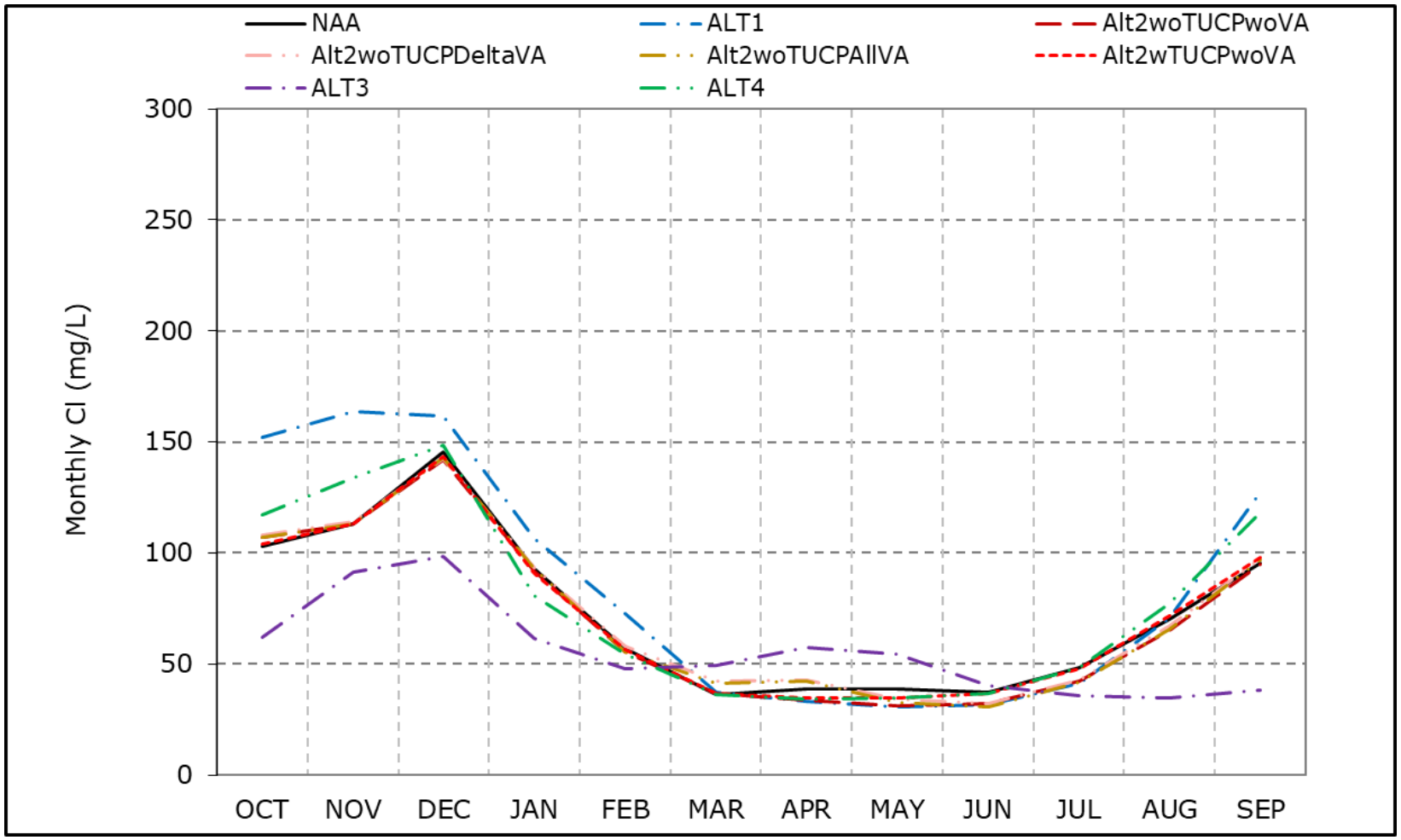
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	190	221	222	169	119	61	48	55	88	123	143	162
20% Exceedance	178	197	211	129	83	42	39	37	30	55	108	149
30% Exceedance	164	168	199	106	58	37	36	31	28	46	87	139
40% Exceedance	154	159	187	88	42	33	32	30	28	41	80	135
50% Exceedance	138	137	168	61	36	31	30	29	26	36	66	118
60% Exceedance	74	112	130	46	30	29	29	27	24	27	57	108
70% Exceedance	62	95	113	31	27	27	28	25	23	25	52	98
80% Exceedance	46	73	77	27	25	25	26	24	22	23	45	85
90% Exceedance	37	48	33	23	22	23	22	18	17	21	38	78
Full Simulation Period Average[a]	117	134	148	81	55	36	34	35	37	48	77	118
Wet Water Years (28%)	52	87	127	35	36	27	24	20	20	23	43	80
Above Normal Years (14%)	46	74	154	51	36	32	31	28	24	26	54	96
Below Normal Years (18%)	149	146	138	79	41	32	33	29	26	38	72	133
Dry Water Years (24%)	167	161	148	110	69	37	34	31	28	50	92	135
Critical Water Years (16%)	190	224	195	143	98	59	59	79	104	124	143	160

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-1-7c. Contra Costa Pumping Plant Chloride, Alternative 4 minus No Action Alternative, Monthly Chloride (mg/L)

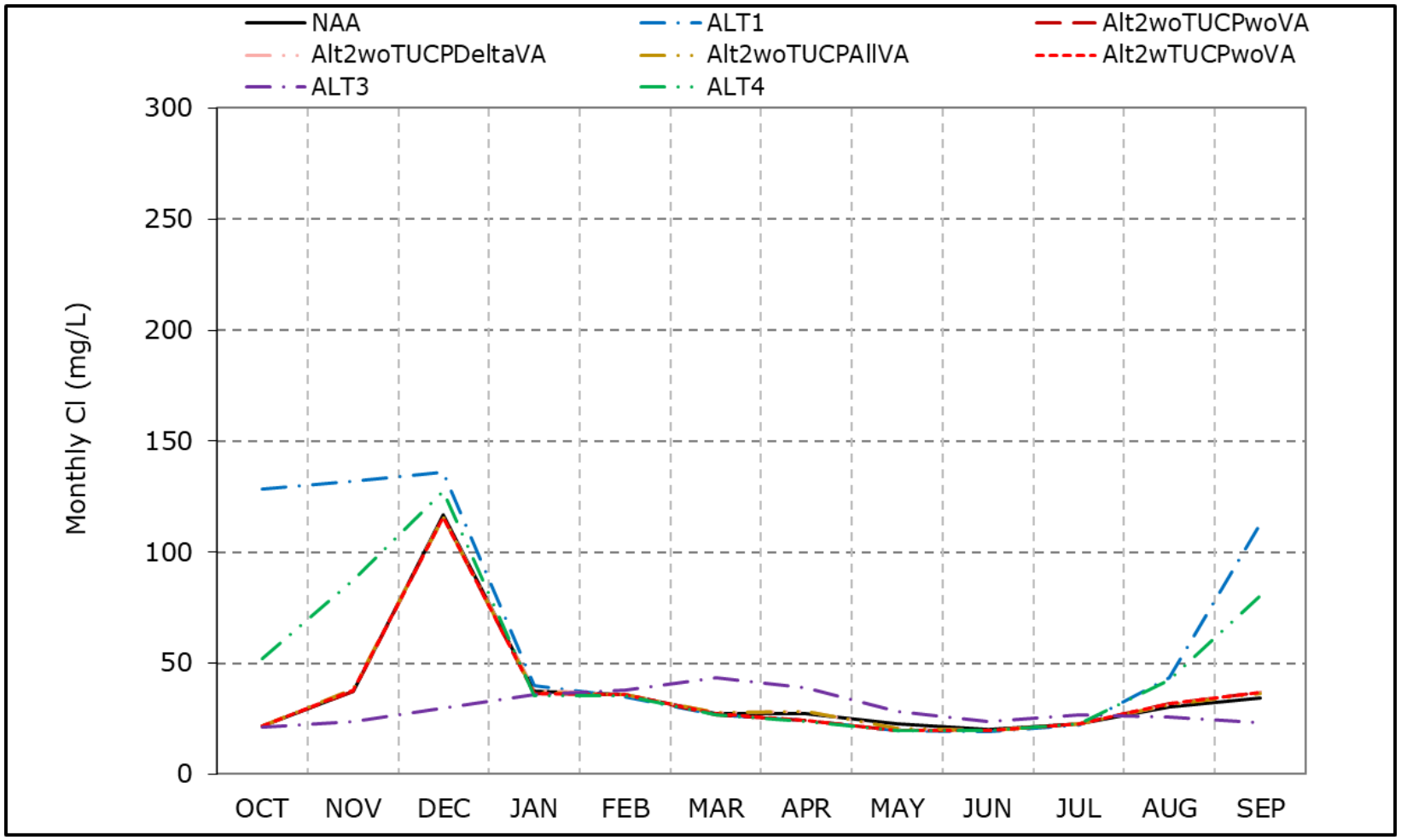
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4	3	-2	-48	3	11	-7	-5	5	-5	1	-3
20% Exceedance	6	5	-2	-33	-8	0	-10	-8	0	0	7	0
30% Exceedance	0	4	-3	-16	-2	0	-4	-7	0	1	3	2
40% Exceedance	-1	5	-4	-16	-2	0	-6	-5	0	1	8	8
50% Exceedance	2	3	-3	-16	-2	0	-6	-3	0	1	9	4
60% Exceedance	51	66	15	2	-1	-1	-3	-3	-1	0	13	60
70% Exceedance	39	53	20	0	-1	-1	-2	-3	-1	1	18	57
80% Exceedance	25	37	2	1	0	-1	-2	-3	-1	0	17	51
90% Exceedance	16	21	-7	1	0	-1	-3	-3	0	0	12	48
Full Simulation Period Average[a]	14	21	3	-12	-2	0	-4	-4	0	0	7	22
Wet Water Years (28%)	31	50	11	-2	0	-1	-4	-3	0	0	12	46
Above Normal Years (14%)	25	37	16	-24	-3	1	-10	-6	-1	1	22	58
Below Normal Years (18%)	3	1	-2	-17	-4	-1	-6	-6	0	1	3	0
Dry Water Years (24%)	2	4	2	-19	-2	1	-2	-4	0	2	6	8
Critical Water Years (16%)	5	3	-17	-4	-4	0	-1	-3	-2	-5	-7	-4

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



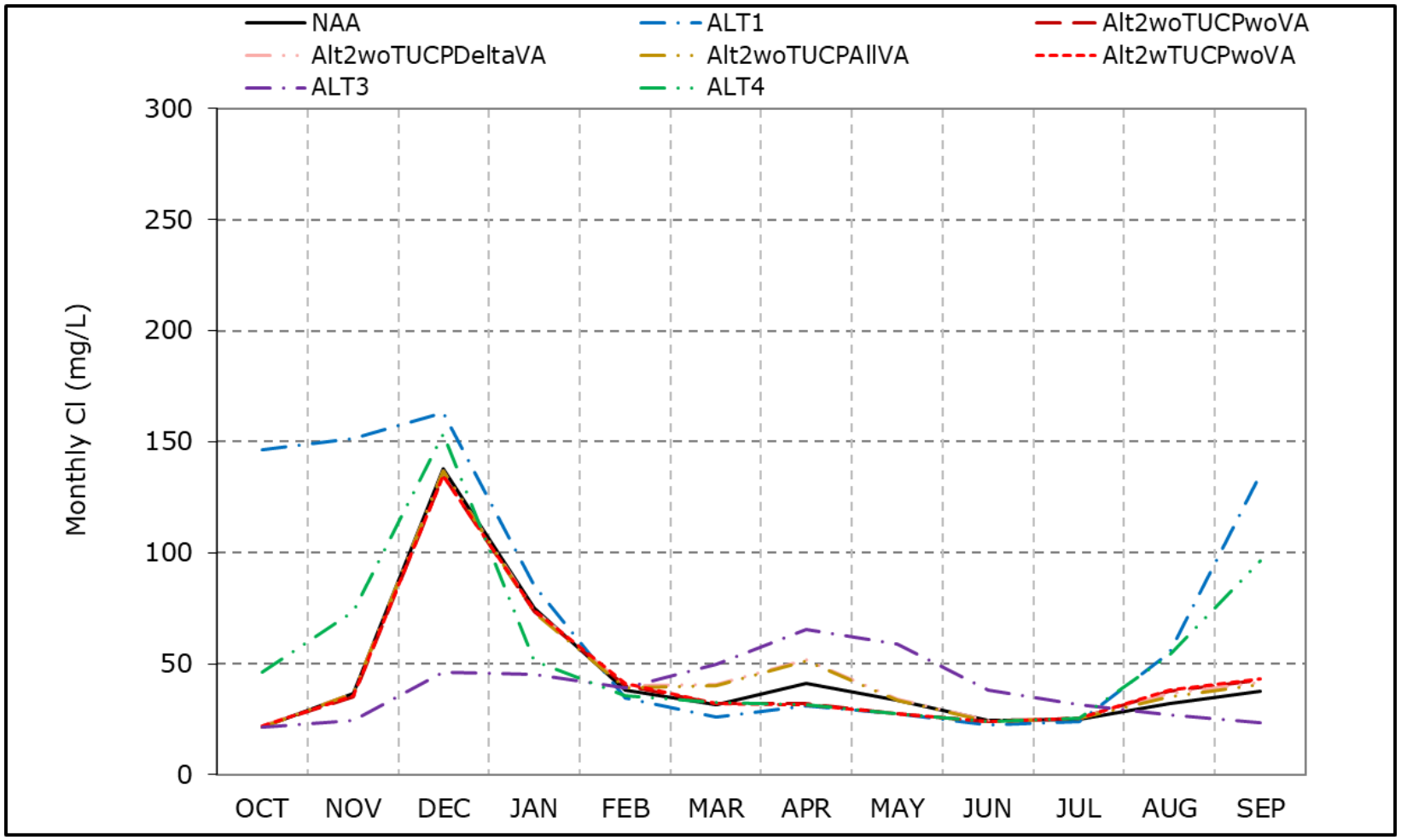
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-1. Contra Costa Pumping Plant Chloride, Long-Term Average Chloride



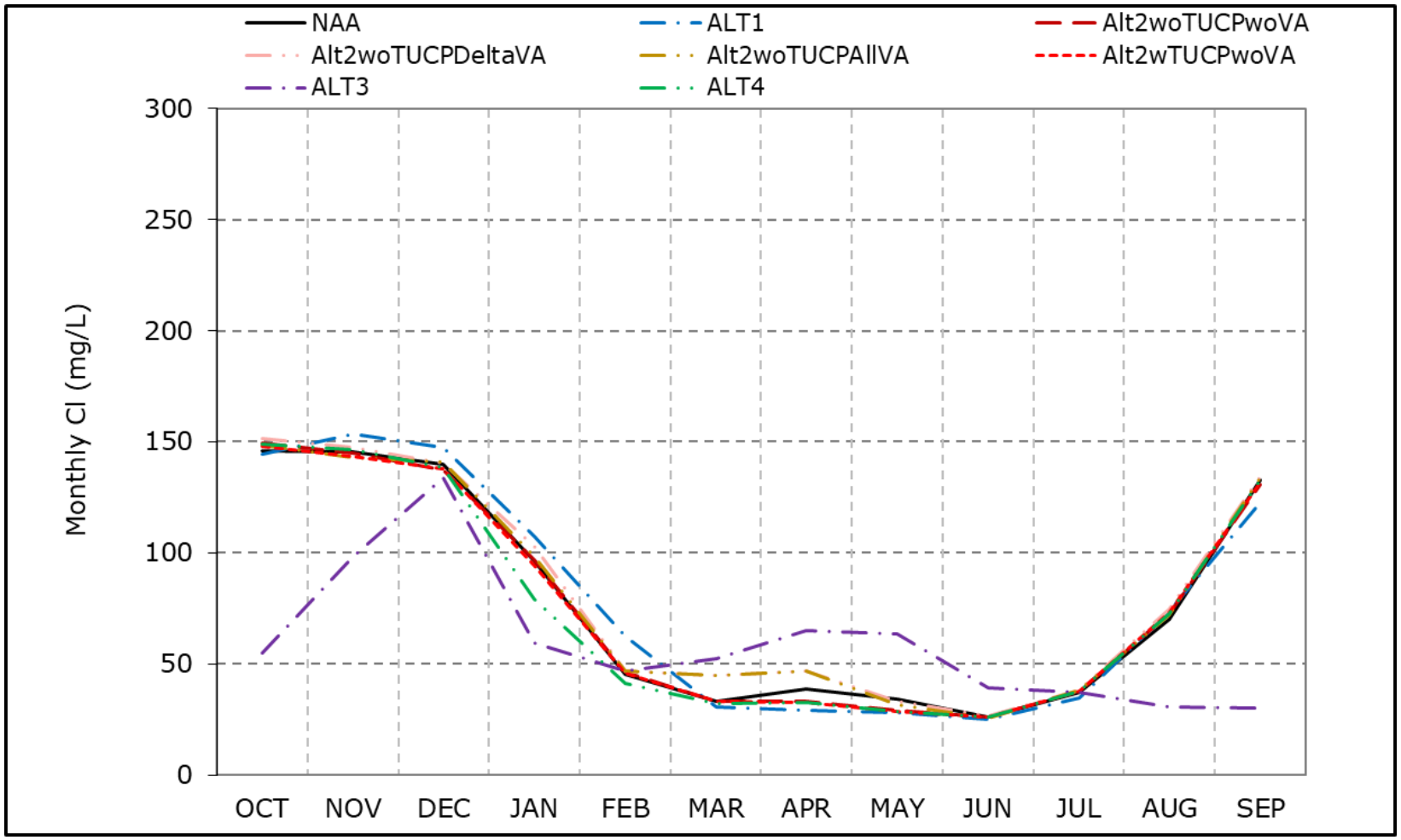
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-2. Contra Costa Pumping Plant Chloride, Wet Year Average Chloride



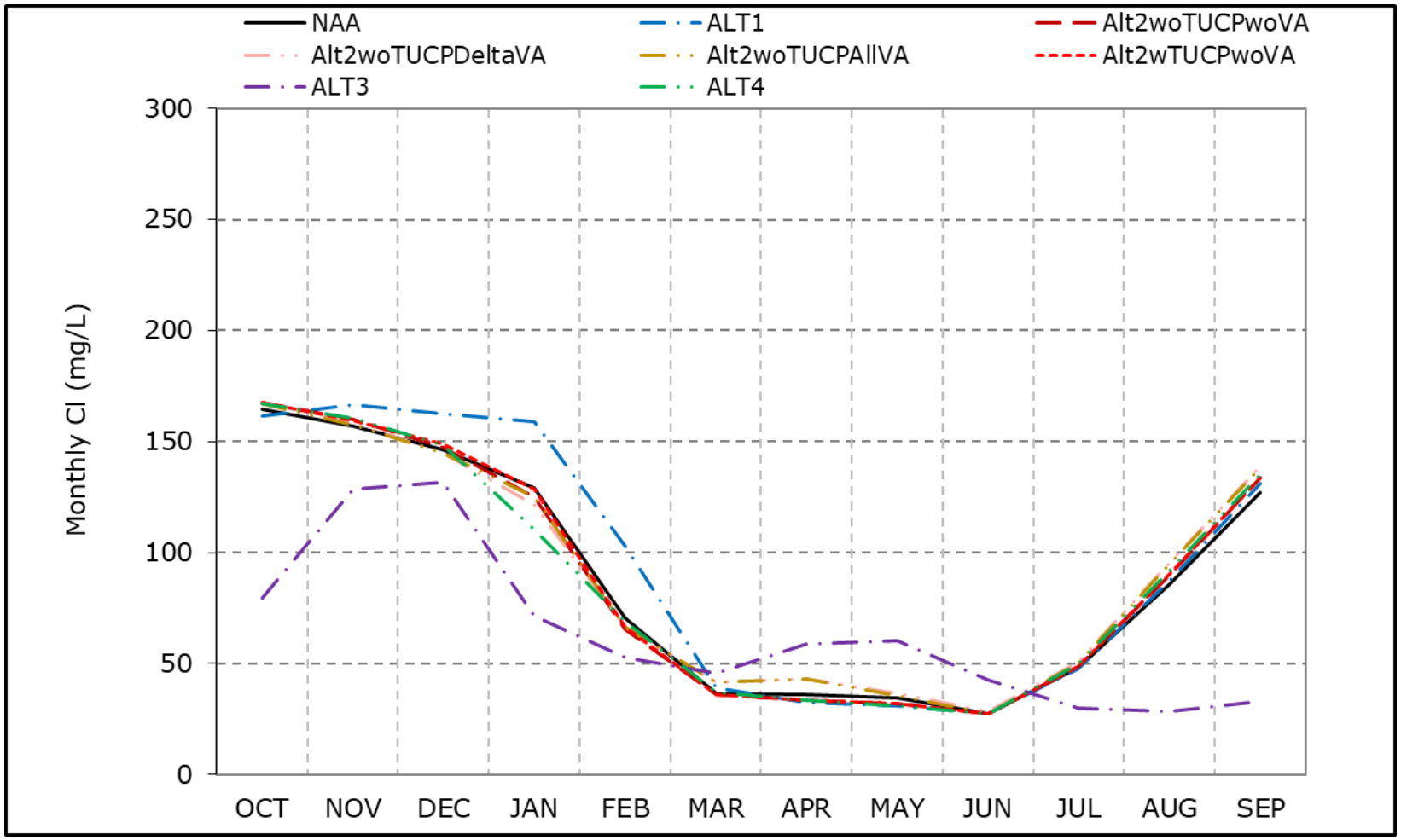
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-3. Contra Costa Pumping Plant Chloride, Above Normal Year Average Chloride



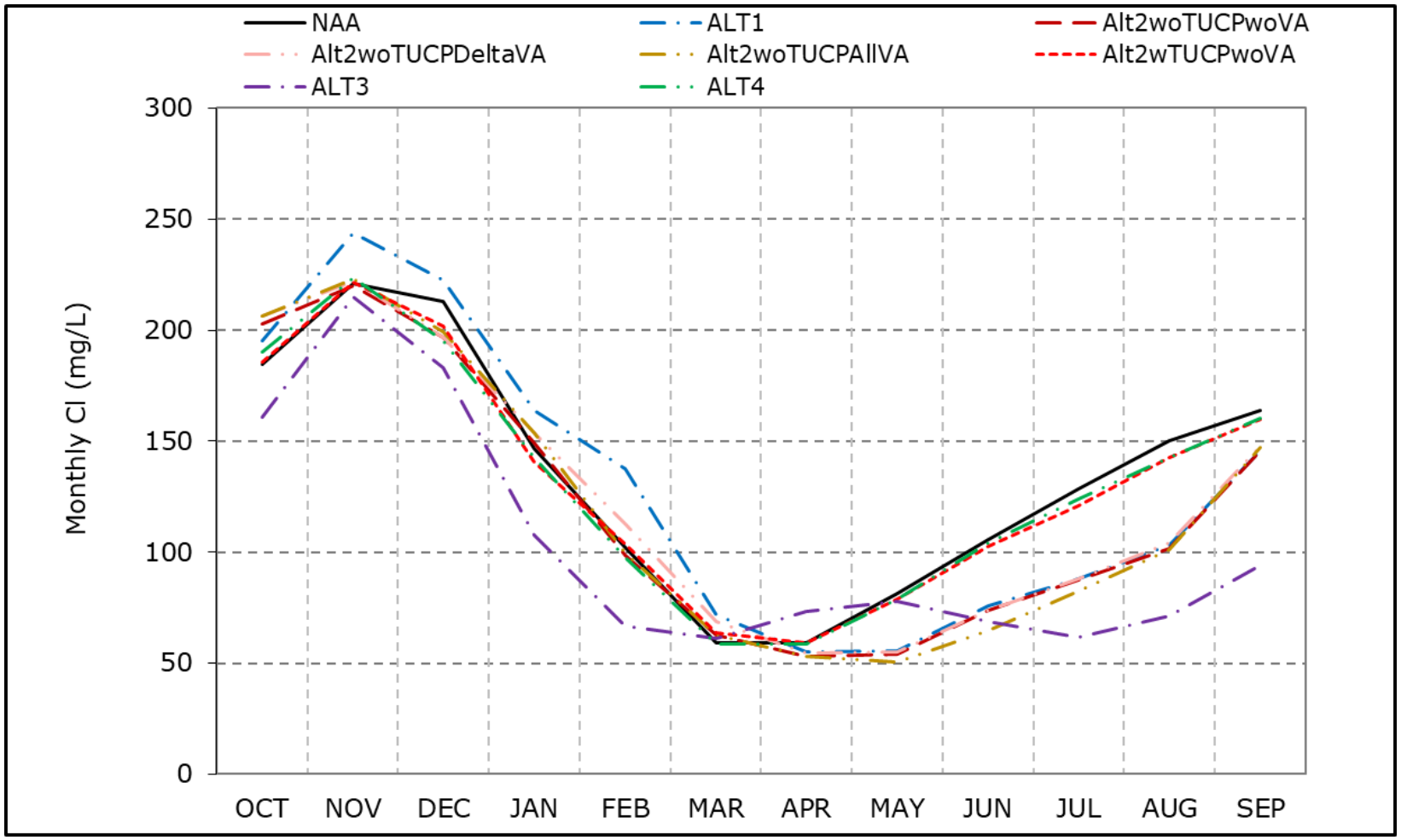
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-4. Contra Costa Pumping Plant Chloride, Below Normal Year Average Chloride



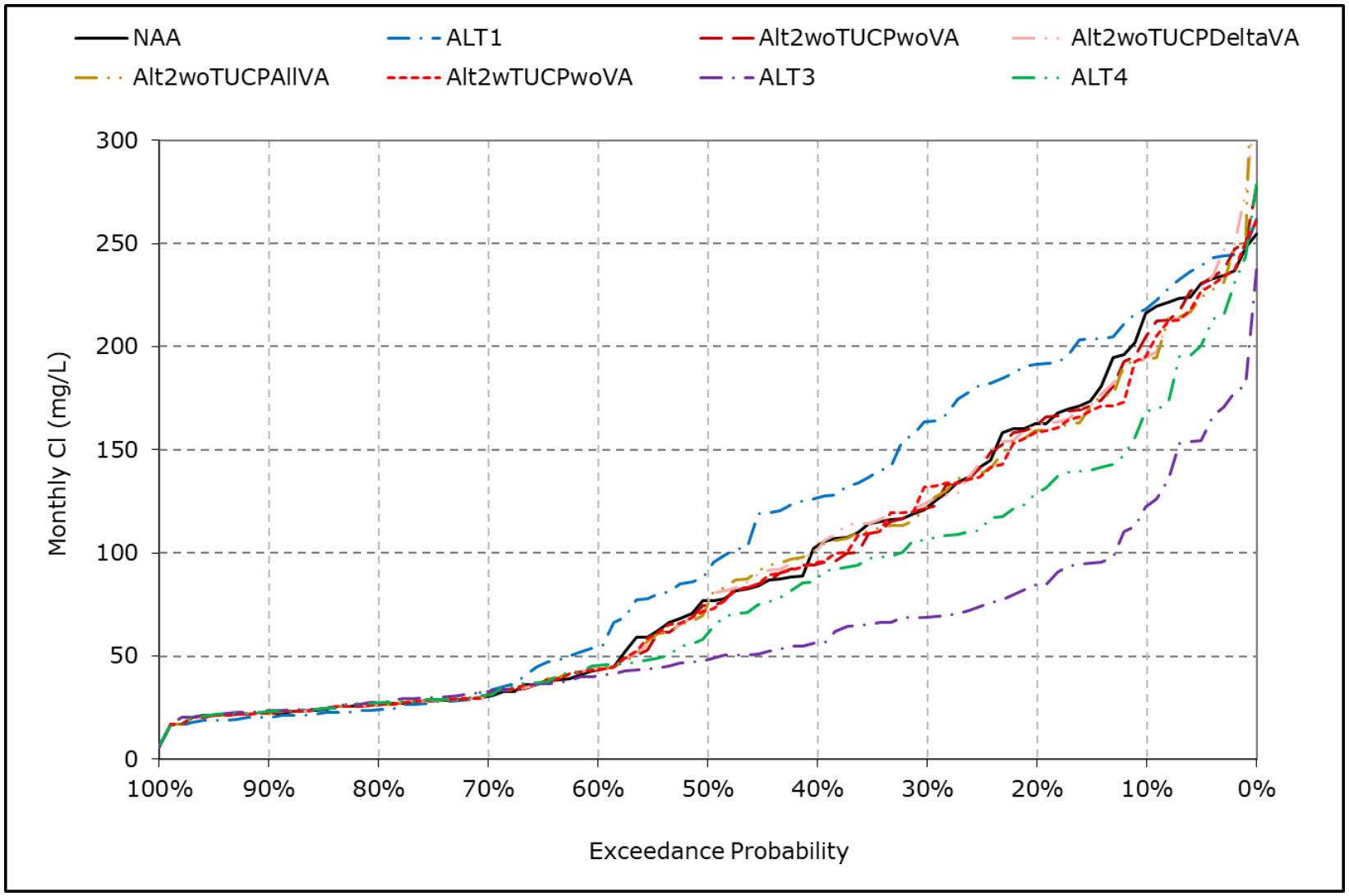
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-5. Contra Costa Pumping Plant Chloride, Dry Year Average Chloride



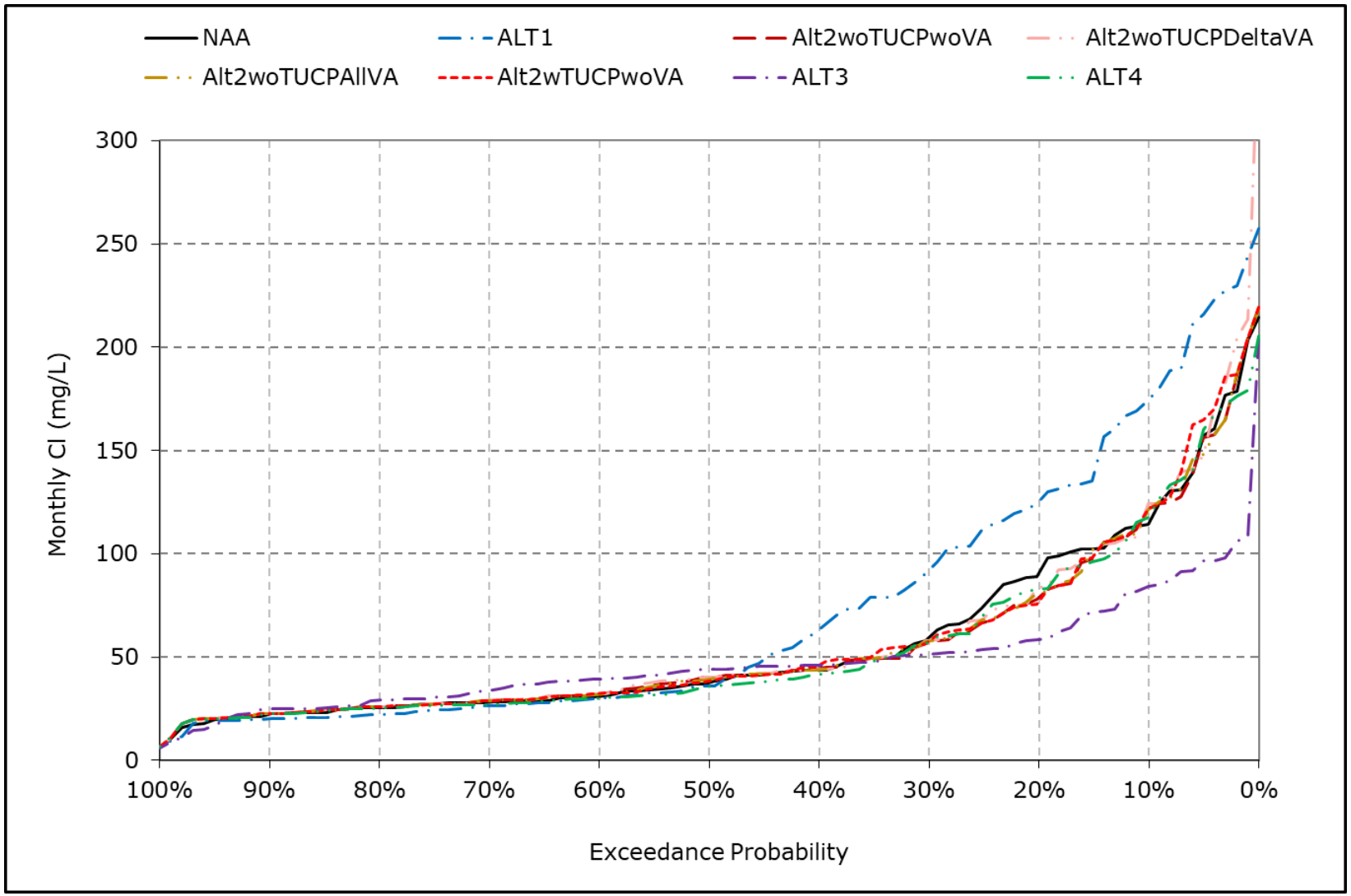
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-6. Contra Costa Pumping Plant Chloride, Critical Year Average Chloride



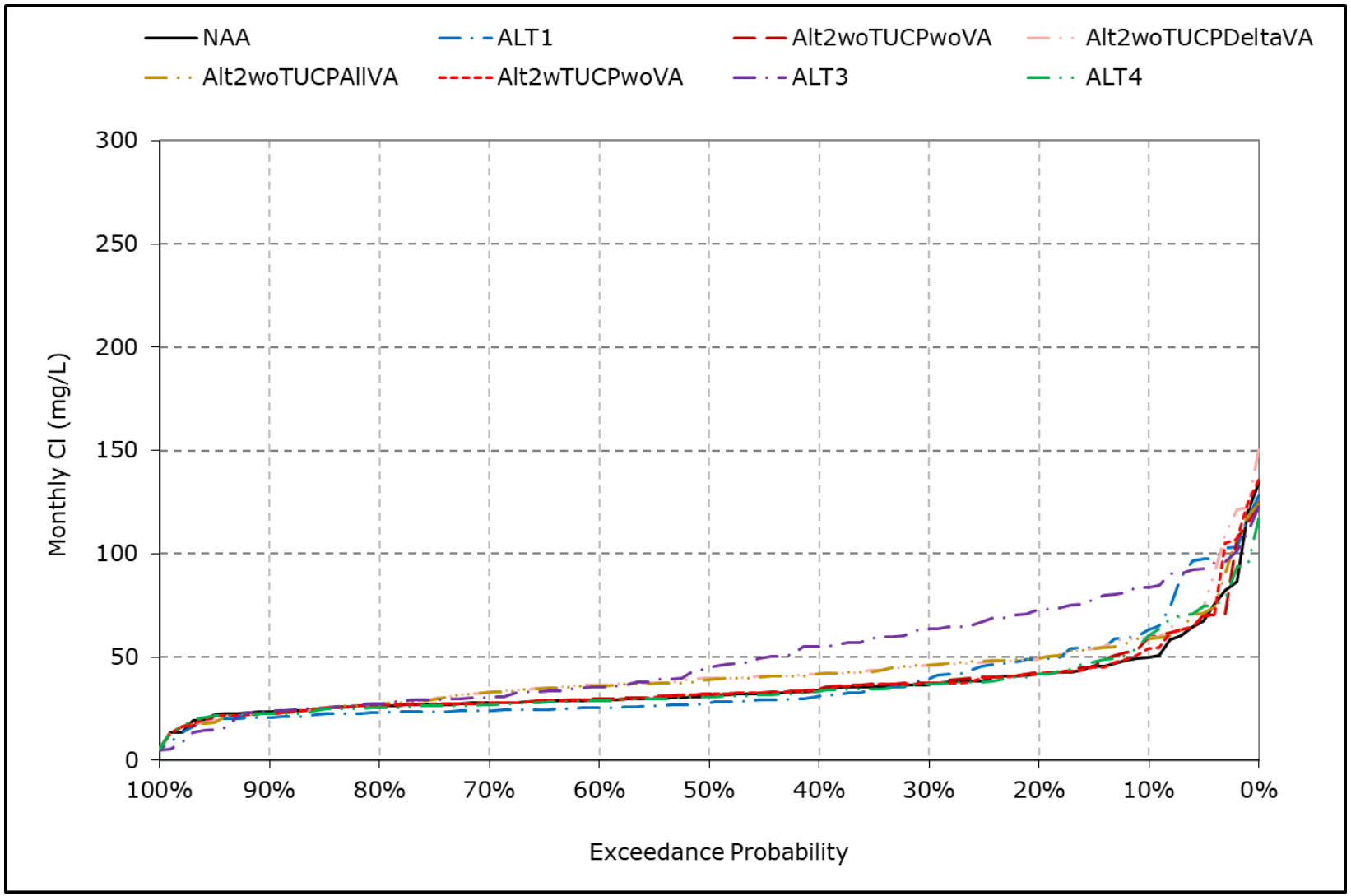
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-7. Contra Costa Pumping Plant Chloride, January Chloride



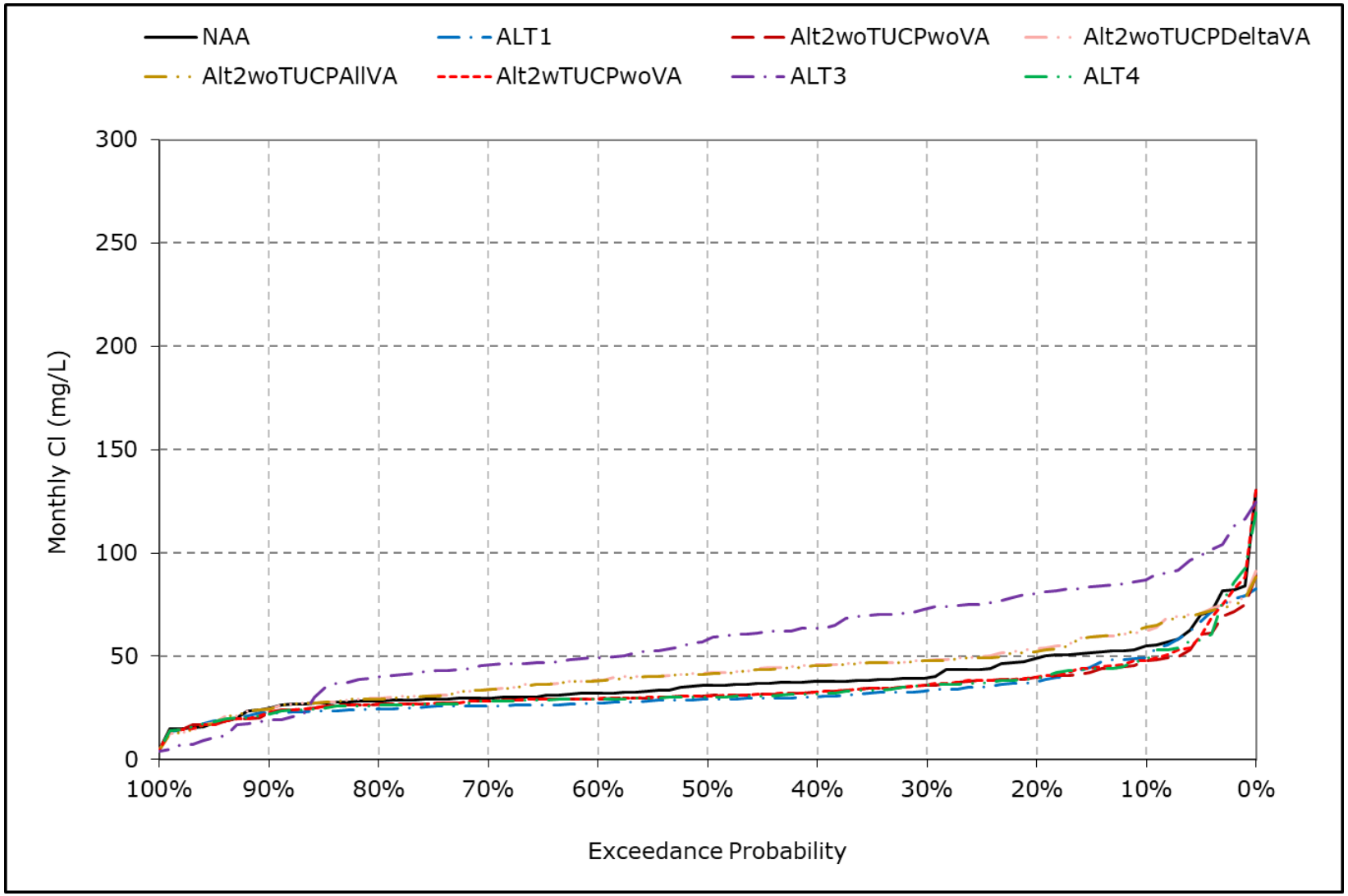
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-8. Contra Costa Pumping Plant Chloride, February Chloride



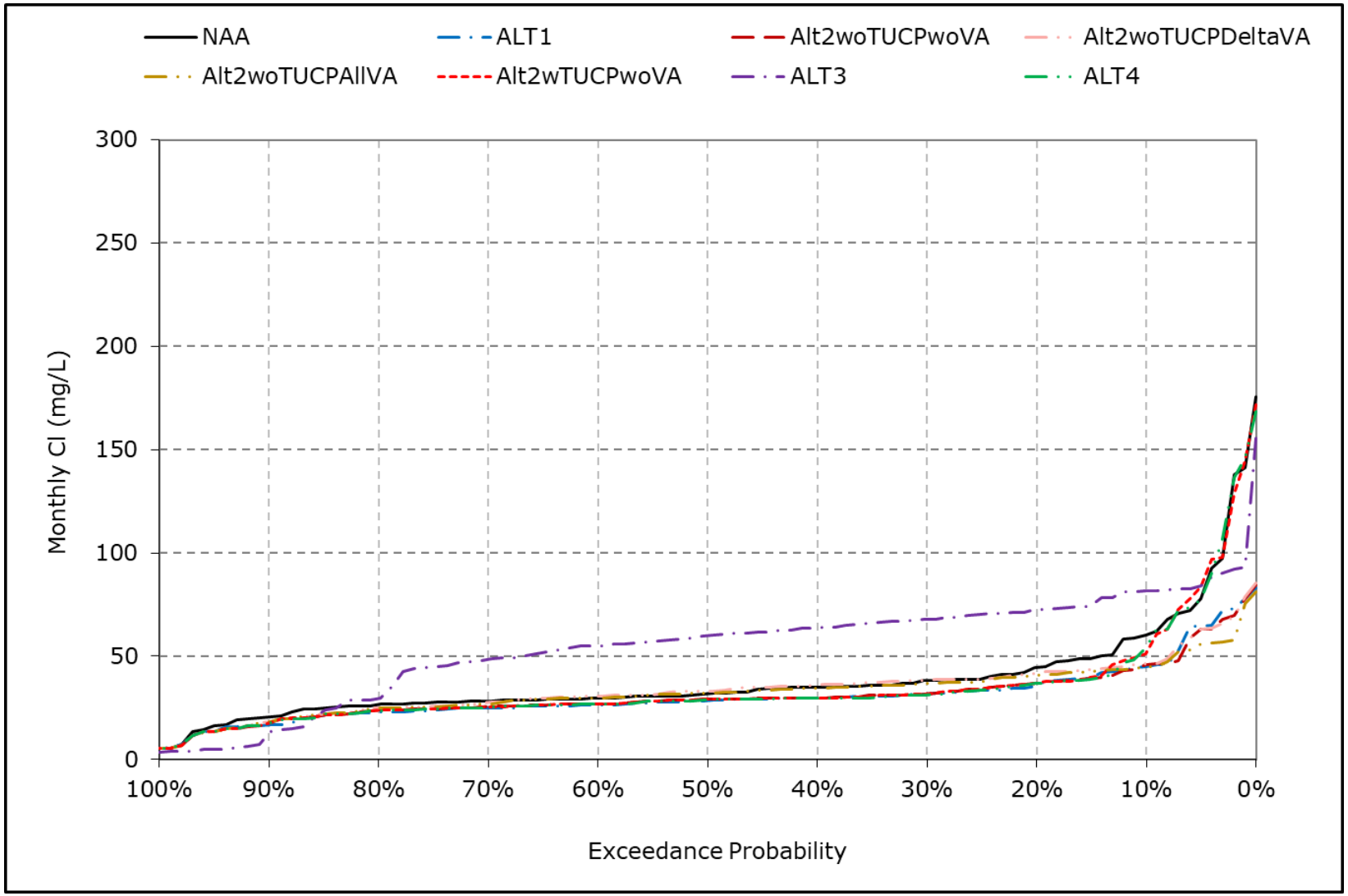
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-9. Contra Costa Pumping Plant Chloride, March Chloride



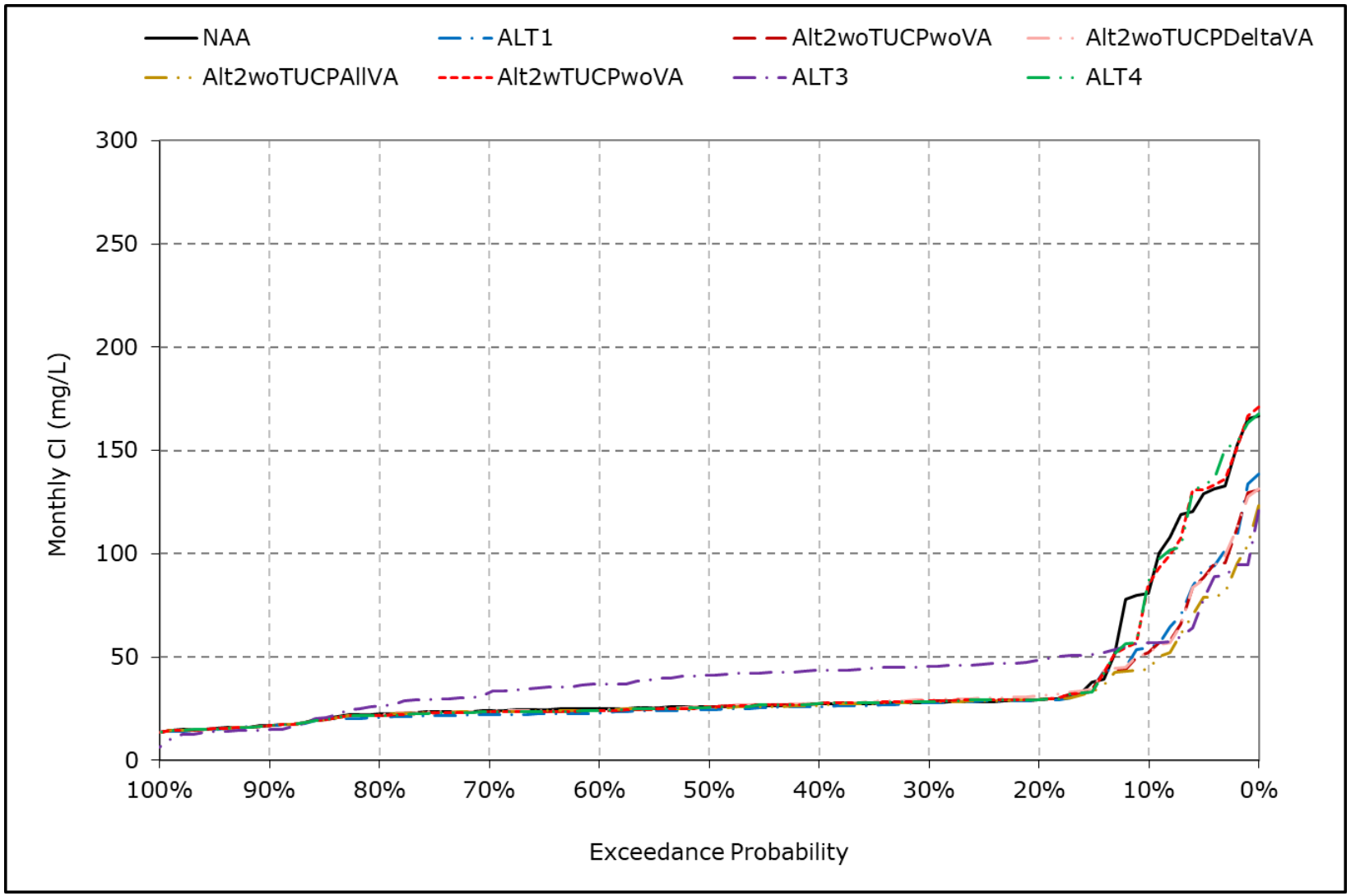
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-10. Contra Costa Pumping Plant Chloride, April Chloride



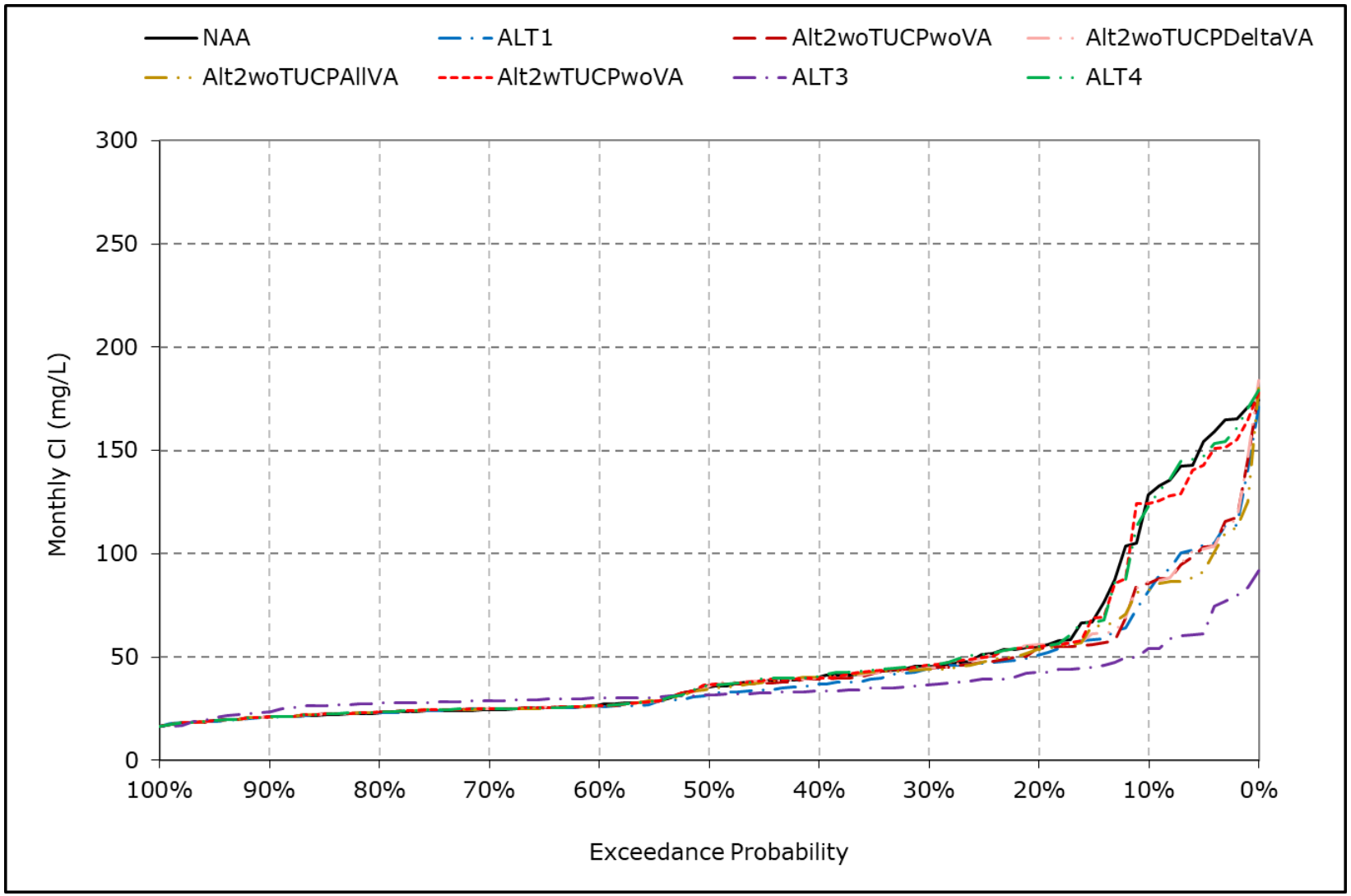
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-11. Contra Costa Pumping Plant Chloride, May Chloride



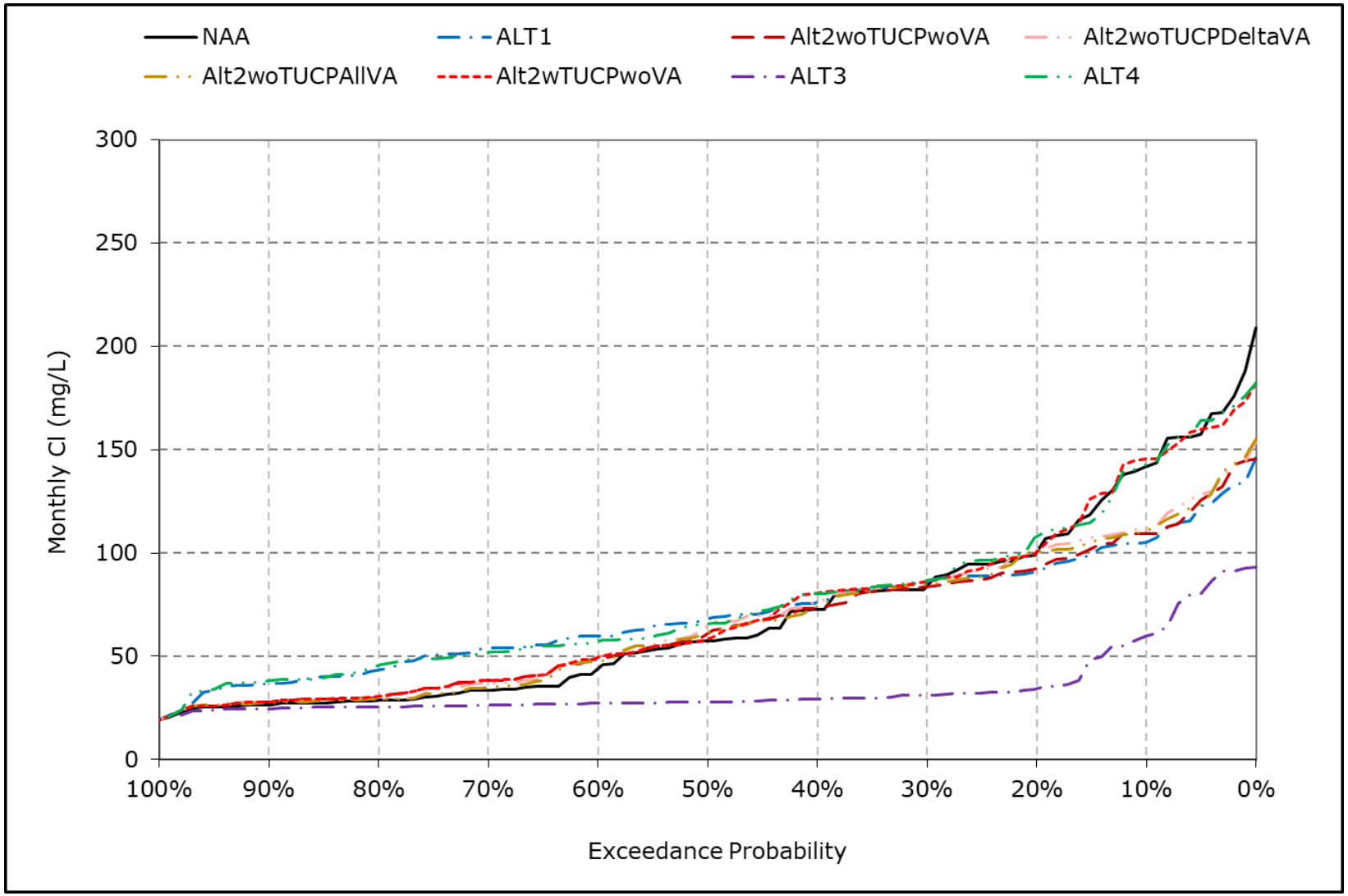
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-12. Contra Costa Pumping Plant Chloride, June Chloride



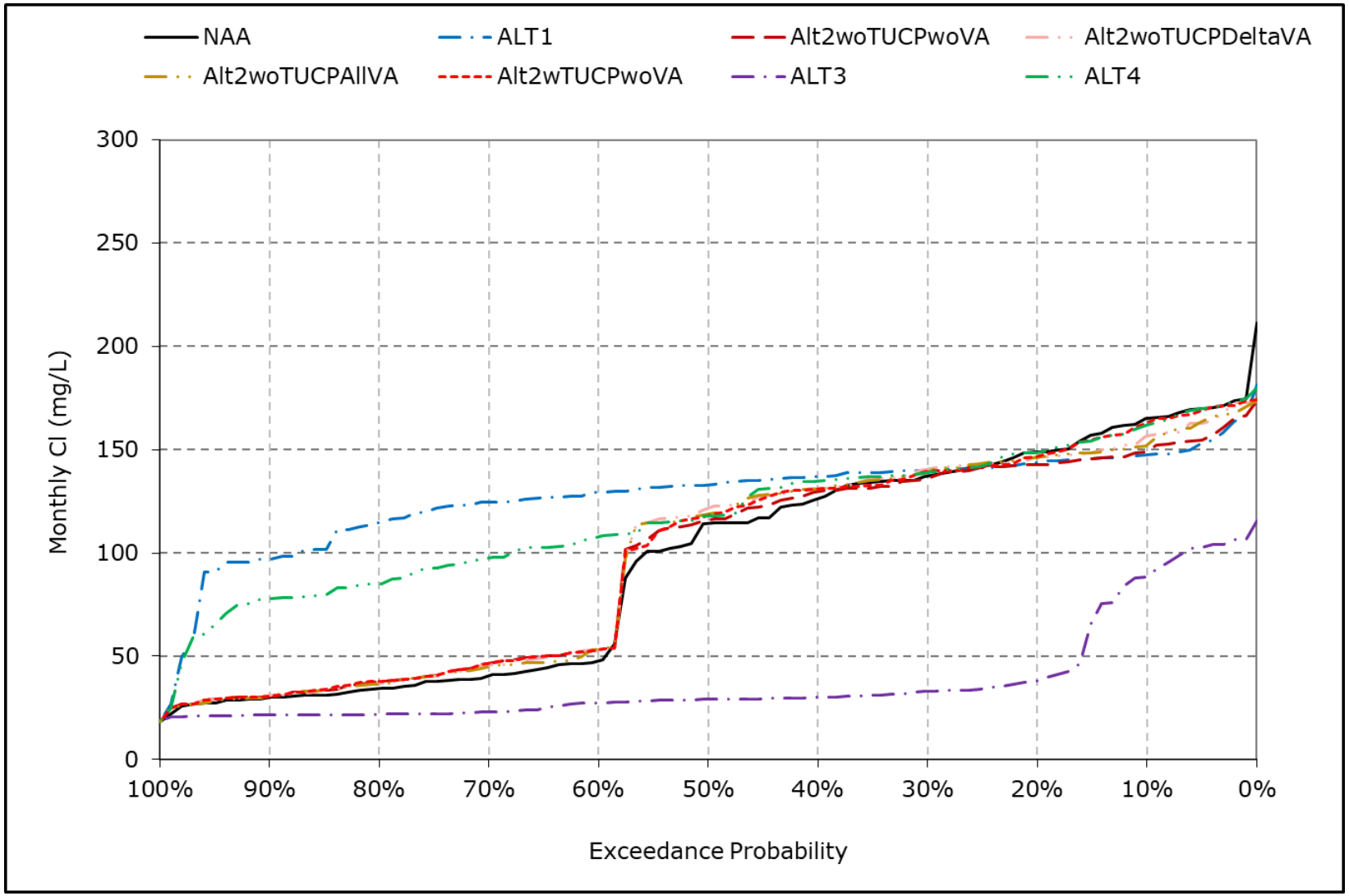
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-13. Contra Costa Pumping Plant Chloride, July Chloride



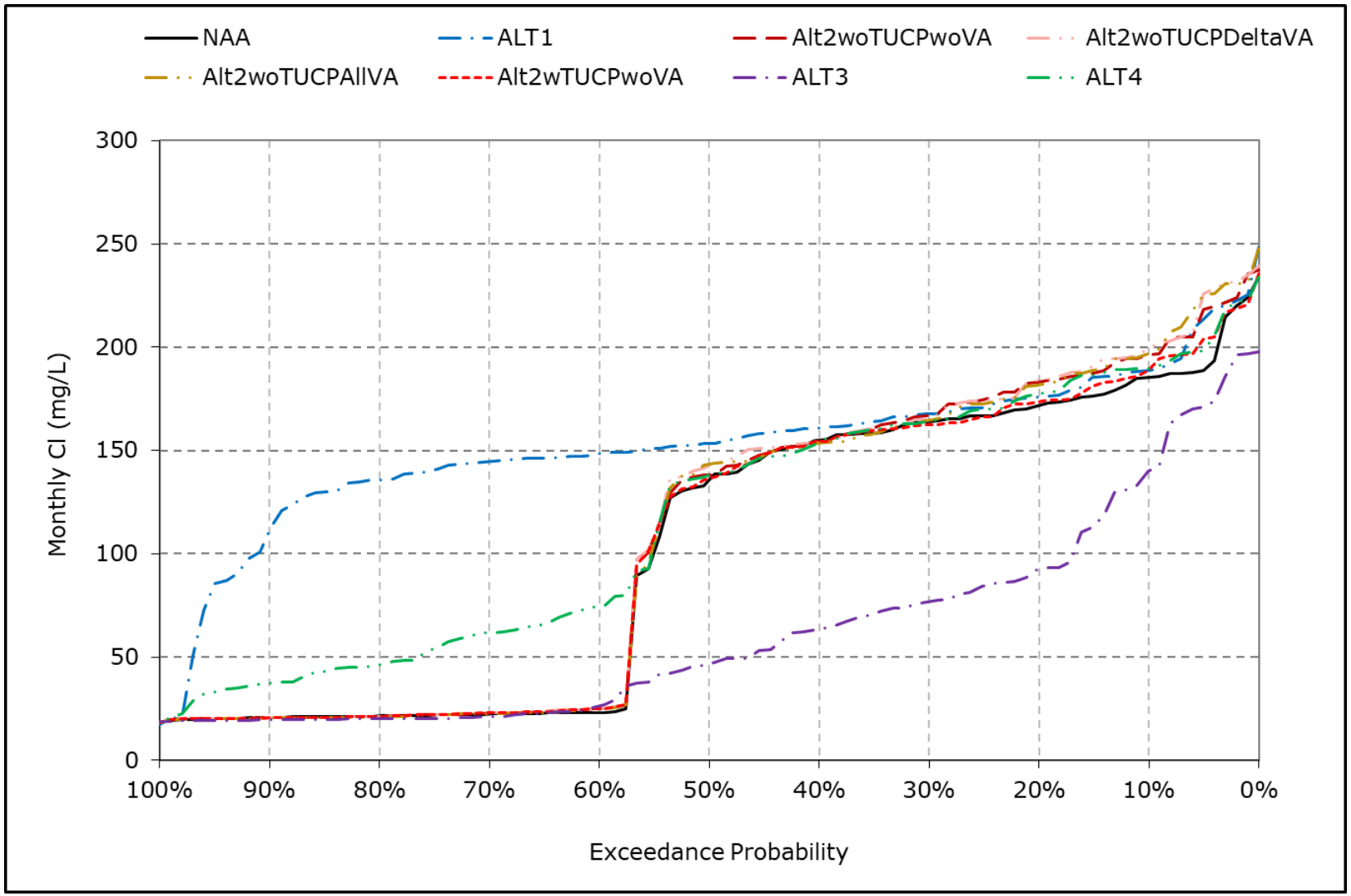
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-14. Contra Costa Pumping Plant Chloride, August Chloride



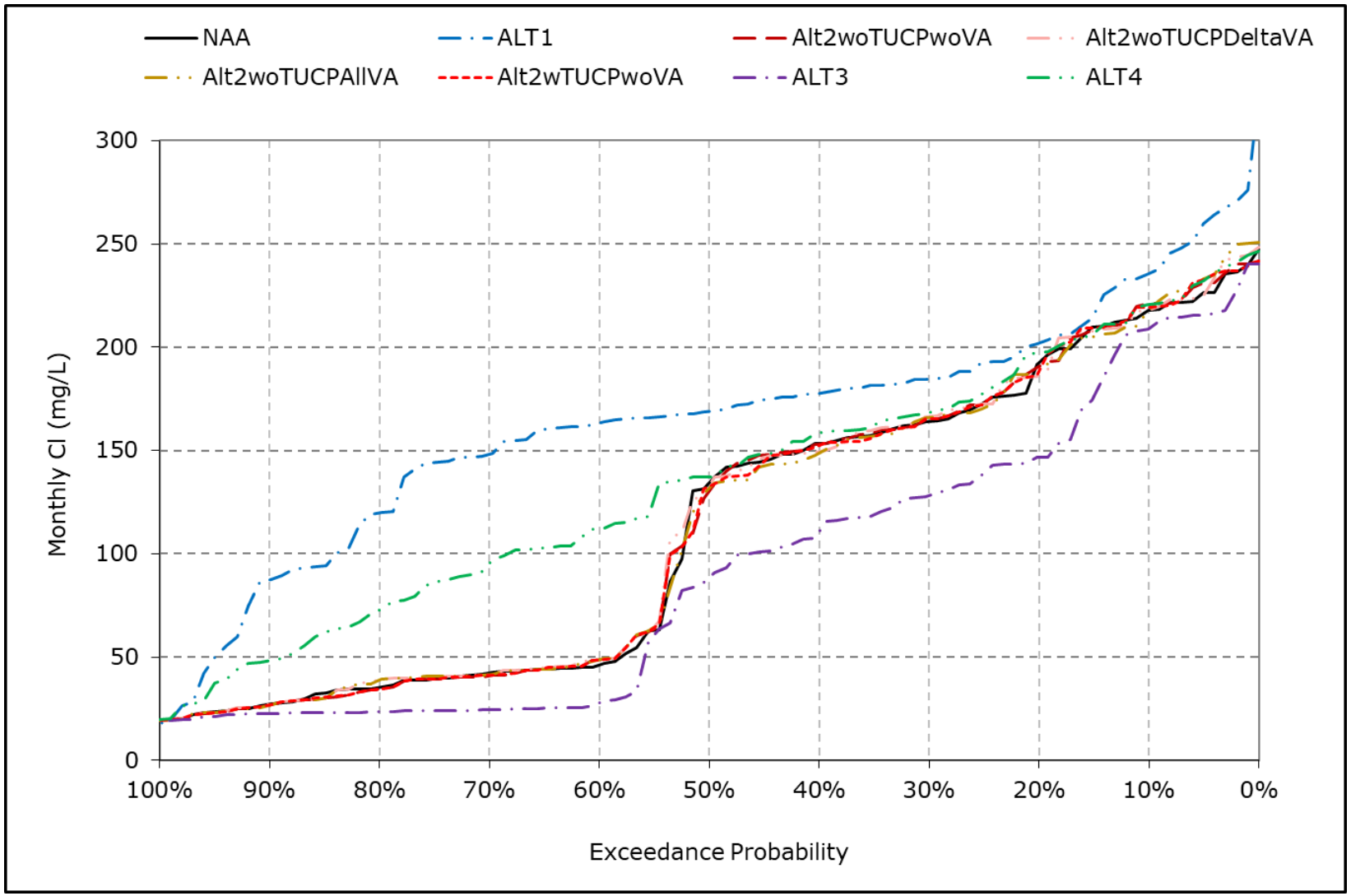
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-15. Contra Costa Pumping Plant Chloride, September Chloride



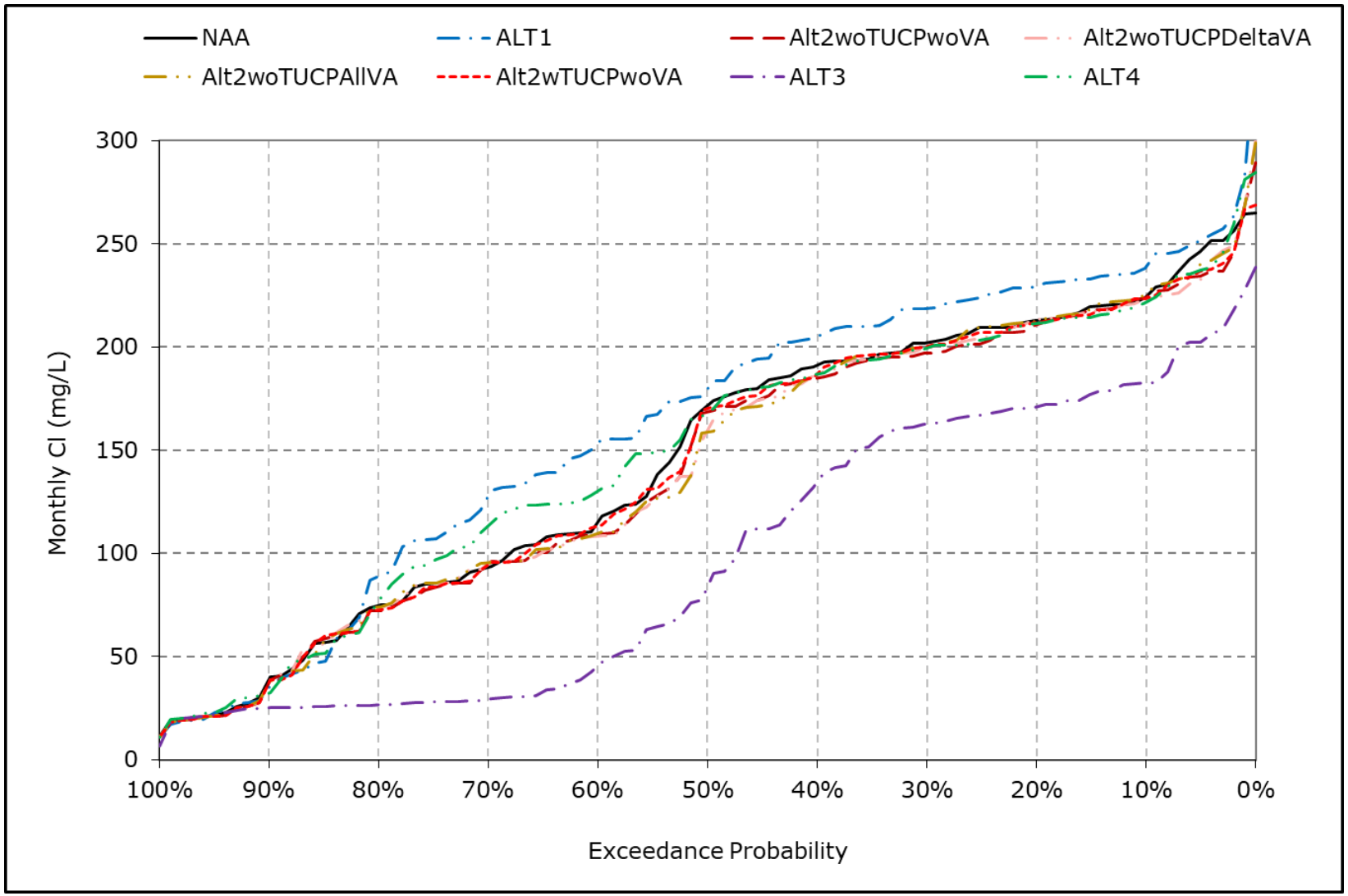
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-16. Contra Costa Pumping Plant Chloride, October Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-17. Contra Costa Pumping Plant Chloride, November Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-1-18. Contra Costa Pumping Plant Chloride, December Chloride

Table F.2.7-2-1a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-1b. San Joaquin River at Antioch Chloride, Alternative 1, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,765	1,801	1,508	1,234	473	264	277	505	605	962	1,341	1,654
20% Exceedance	1,616	1,678	1,414	1,076	345	100	167	273	435	764	1,194	1,572
30% Exceedance	1,535	1,618	1,285	795	195	55	99	250	373	691	1,122	1,515
40% Exceedance	1,485	1,531	1,163	389	124	41	42	208	298	582	974	1,391
50% Exceedance	1,411	1,497	968	249	29	28	30	119	252	483	852	1,337
60% Exceedance	1,339	1,435	528	120	24	23	24	62	191	343	805	1,233
70% Exceedance	1,227	1,325	329	33	21	20	21	29	149	307	755	1,190
80% Exceedance	1,154	893	222	20	19	19	19	20	104	255	725	1,060
90% Exceedance	1,048	460	51	18	18	18	18	16	35	195	695	989
Full Simulation Period Average[a]	1,347	1,341	830	465	175	81	100	199	324	535	935	1,305
Wet Water Years (28%)	1,076	1,048	673	53	23	20	21	43	92	231	684	1,033
Above Normal Years (14%)	1,223	1,321	773	218	44	22	25	76	144	282	739	1,140
Below Normal Years (18%)	1,310	1,361	719	421	138	47	69	147	256	489	868	1,245
Dry Water Years (24%)	1,480	1,352	925	800	263	101	110	205	381	713	1,122	1,528
Critical Water Years (16%)	1,808	1,864	1,163	947	465	245	327	629	881	1,075	1,341	1,658

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-1c. San Joaquin River at Antioch Chloride, Alternative 1 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-94	-44	146	165	115	41	-102	-237	-577	-415	-226	-83
20% Exceedance	-136	-16	223	268	153	-13	-34	27	-39	-44	-13	-113
30% Exceedance	-128	-9	154	401	71	19	15	39	-15	-32	3	-112
40% Exceedance	-64	81	183	160	78	13	5	51	-48	-49	-71	-157
50% Exceedance	26	620	255	123	3	2	2	39	-21	-8	-16	22
60% Exceedance	1,059	642	166	62	0	0	0	13	-51	25	219	860
70% Exceedance	986	567	92	9	0	-1	-1	1	-43	28	226	854
80% Exceedance	931	300	62	0	-1	-1	-1	0	-5	5	240	744
90% Exceedance	840	175	-32	0	0	0	0	0	-4	14	252	694
Full Simulation Period Average[a]	329	223	127	120	49	5	-27	-29	-60	-55	44	251
Wet Water Years (28%)	855	487	109	21	3	0	1	8	-22	13	217	723
Above Normal Years (14%)	1,014	658	138	44	9	1	1	18	-35	18	226	830
Below Normal Years (18%)	-94	-14	137	149	54	12	11	36	-66	-37	-57	-160
Dry Water Years (24%)	-108	-45	193	231	88	19	15	25	13	-12	-2	-104
Critical Water Years (16%)	-130	9	35	162	99	-14	-205	-289	-252	-321	-232	-84

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-2a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-2b. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,956	1,771	1,306	1,023	341	177	259	480	607	959	1,313	1,782
20% Exceedance	1,791	1,666	1,188	690	180	87	144	273	449	785	1,217	1,714
30% Exceedance	1,664	1,603	1,099	343	85	34	78	253	404	703	1,117	1,641
40% Exceedance	1,581	1,502	985	242	46	28	44	203	346	600	1,031	1,575
50% Exceedance	1,394	864	644	131	26	25	29	120	267	486	861	1,399
60% Exceedance	274	781	348	51	24	23	24	62	243	325	605	390
70% Exceedance	253	714	225	24	21	21	22	30	203	296	550	359
80% Exceedance	221	586	152	21	20	20	20	20	104	261	516	328
90% Exceedance	210	301	71	18	18	18	18	16	38	190	489	307
Full Simulation Period Average[a]	1,036	1,091	693	324	119	69	95	197	345	543	863	1,077
Wet Water Years (28%)	223	559	561	31	20	20	20	43	114	227	498	324
Above Normal Years (14%)	204	637	638	172	35	21	24	75	175	277	535	329
Below Normal Years (18%)	1,427	1,347	573	277	82	34	64	147	325	524	892	1,421
Dry Water Years (24%)	1,600	1,407	719	508	149	80	101	203	380	733	1,147	1,657
Critical Water Years (16%)	2,011	1,724	1,099	745	362	217	316	621	868	1,064	1,329	1,792

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-2c. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	98	-74	-55	-46	-17	-46	-120	-262	-575	-419	-254	44
20% Exceedance	39	-28	-3	-118	-11	-25	-57	27	-26	-23	10	29
30% Exceedance	1	-24	-33	-51	-39	-3	-6	42	15	-20	-2	14
40% Exceedance	31	52	5	13	0	0	7	46	0	-30	-13	27
50% Exceedance	8	-12	-69	6	0	0	1	39	-7	-4	-7	84
60% Exceedance	-6	-13	-15	-8	0	0	0	13	1	8	19	16
70% Exceedance	11	-44	-12	0	0	0	0	2	11	17	21	23
80% Exceedance	-2	-6	-9	0	0	0	0	0	-5	11	30	12
90% Exceedance	2	16	-13	0	0	0	0	0	-1	9	45	13
Full Simulation Period Average[a]	18	-27	-9	-21	-7	-8	-32	-31	-39	-47	-28	23
Wet Water Years (28%)	2	-1	-2	-2	0	0	0	8	0	9	30	13
Above Normal Years (14%)	-5	-26	3	-2	0	0	0	17	-4	13	22	19
Below Normal Years (18%)	23	-29	-9	6	-2	-1	6	36	3	-3	-33	17
Dry Water Years (24%)	12	10	-13	-60	-26	-3	6	22	12	8	23	25
Critical Water Years (16%)	73	-132	-30	-40	-4	-42	-216	-298	-264	-332	-244	50

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-3a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-3b. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,990	1,729	1,282	1,017	339	170	241	475	606	966	1,353	1,791
20% Exceedance	1,762	1,654	1,186	684	179	68	110	271	471	797	1,227	1,712
30% Exceedance	1,668	1,599	1,092	364	106	33	74	250	416	716	1,130	1,639
40% Exceedance	1,567	1,434	992	255	50	27	37	177	341	616	1,049	1,581
50% Exceedance	1,373	881	656	168	26	25	28	113	270	488	864	1,402
60% Exceedance	276	780	358	55	24	23	25	61	248	322	597	392
70% Exceedance	251	726	223	24	21	22	22	33	205	291	547	360
80% Exceedance	222	585	151	21	20	20	21	20	103	257	517	330
90% Exceedance	206	310	74	18	18	18	18	16	38	189	472	305
Full Simulation Period Average[a]	1,041	1,084	696	342	132	66	89	193	348	545	867	1,080
Wet Water Years (28%)	224	560	562	33	20	20	20	43	116	223	495	325
Above Normal Years (14%)	205	639	629	172	35	22	24	65	179	270	525	330
Below Normal Years (18%)	1,435	1,349	575	293	82	30	53	145	332	526	892	1,425
Dry Water Years (24%)	1,598	1,393	710	523	158	64	84	193	382	744	1,166	1,658
Critical Water Years (16%)	2,040	1,696	1,137	816	429	228	314	620	869	1,073	1,342	1,800

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-3c. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	132	-116	-79	-52	-19	-53	-138	-267	-576	-411	-215	54
20% Exceedance	10	-40	-5	-124	-12	-44	-91	26	-4	-11	20	27
30% Exceedance	5	-27	-40	-29	-18	-3	-9	39	27	-7	11	13
40% Exceedance	18	-16	12	26	5	-1	0	20	-5	-15	4	33
50% Exceedance	-13	5	-57	42	1	0	0	33	-4	-3	-3	87
60% Exceedance	-4	-13	-4	-4	0	0	1	12	6	4	11	18
70% Exceedance	10	-32	-14	0	0	1	0	5	13	12	18	24
80% Exceedance	0	-7	-9	0	0	0	0	0	-6	7	31	14
90% Exceedance	-2	26	-10	0	0	0	0	0	-1	8	28	11
Full Simulation Period Average[a]	24	-33	-7	-2	6	-10	-38	-35	-36	-45	-23	26
Wet Water Years (28%)	3	-1	-2	0	0	0	0	8	2	5	28	15
Above Normal Years (14%)	-4	-24	-5	-1	0	1	0	7	0	6	12	20
Below Normal Years (18%)	31	-26	-7	22	-2	-5	-5	35	10	-1	-33	20
Dry Water Years (24%)	10	-4	-22	-46	-17	-18	-10	13	14	19	42	26
Critical Water Years (16%)	103	-159	9	31	63	-31	-218	-298	-263	-323	-231	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-4a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-4b. San Joaquin River at Antioch Chloride, Alt2woTUCPAllVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,954	1,749	1,323	1,042	327	138	220	411	556	991	1,329	1,789
20% Exceedance	1,814	1,680	1,202	642	182	67	91	230	442	789	1,230	1,699
30% Exceedance	1,636	1,598	1,104	380	107	33	51	198	398	729	1,131	1,643
40% Exceedance	1,552	1,436	994	253	46	27	30	142	326	602	1,042	1,588
50% Exceedance	1,354	870	635	165	26	25	27	75	270	502	838	1,395
60% Exceedance	274	779	340	56	24	23	24	46	245	323	582	386
70% Exceedance	252	717	227	24	22	22	22	28	195	290	542	350
80% Exceedance	222	586	161	21	20	20	21	20	106	252	514	328
90% Exceedance	208	297	72	18	18	18	18	16	39	186	460	304
Full Simulation Period Average[a]	1,031	1,083	699	333	117	62	77	159	329	541	861	1,076
Wet Water Years (28%)	224	560	562	32	20	20	20	41	116	222	491	323
Above Normal Years (14%)	206	641	623	170	35	22	23	48	172	265	510	326
Below Normal Years (18%)	1,386	1,330	577	283	82	30	38	102	320	523	879	1,410
Dry Water Years (24%)	1,597	1,378	721	531	157	63	67	154	360	746	1,166	1,657
Critical Water Years (16%)	2,032	1,735	1,142	760	339	202	282	536	802	1,054	1,336	1,800

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-4c. San Joaquin River at Antioch Chloride, Alt2woTUCPAllVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	96	-96	-39	-26	-31	-85	-159	-331	-626	-386	-238	52
20% Exceedance	62	-13	11	-165	-10	-46	-110	-15	-32	-19	23	14
30% Exceedance	-27	-29	-27	-14	-17	-3	-33	-13	9	5	12	16
40% Exceedance	3	-14	14	24	1	-1	-7	-15	-20	-29	-3	40
50% Exceedance	-31	-6	-78	39	0	0	-1	-5	-4	12	-29	80
60% Exceedance	-6	-14	-22	-3	0	0	0	-3	3	5	-4	12
70% Exceedance	10	-41	-10	0	0	0	0	0	3	10	13	14
80% Exceedance	0	-7	0	0	0	0	0	0	-3	2	28	12
90% Exceedance	0	12	-12	0	0	0	0	0	0	6	16	10
Full Simulation Period Average[a]	13	-34	-4	-12	-9	-15	-50	-69	-56	-49	-30	22
Wet Water Years (28%)	3	0	-2	-1	0	0	0	6	2	4	24	13
Above Normal Years (14%)	-3	-23	-11	-3	0	1	-1	-10	-7	2	-3	16
Below Normal Years (18%)	-18	-46	-5	12	-2	-5	-20	-9	-2	-4	-46	5
Dry Water Years (24%)	9	-19	-11	-38	-18	-20	-28	-27	-8	20	42	26
Critical Water Years (16%)	94	-120	13	-25	-27	-57	-250	-382	-331	-342	-237	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-5a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-5b. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,868	1,823	1,306	1,040	342	242	329	703	1,199	1,361	1,450	1,745
20% Exceedance	1,785	1,694	1,224	679	180	117	208	273	473	802	1,259	1,694
30% Exceedance	1,664	1,604	1,147	389	100	37	86	253	410	713	1,117	1,638
40% Exceedance	1,576	1,510	990	228	44	28	44	197	353	614	1,028	1,533
50% Exceedance	1,389	865	669	119	26	25	29	120	268	482	857	1,390
60% Exceedance	274	784	350	52	24	23	24	62	243	326	605	390
70% Exceedance	253	714	239	24	21	21	22	30	203	297	550	359
80% Exceedance	221	586	152	21	20	20	20	20	103	261	516	328
90% Exceedance	210	300	70	18	18	18	18	16	37	190	489	307
Full Simulation Period Average[a]	1,025	1,106	692	327	127	77	128	242	381	587	894	1,066
Wet Water Years (28%)	224	560	561	31	20	20	20	43	114	227	498	324
Above Normal Years (14%)	206	639	639	171	35	21	24	75	175	277	535	330
Below Normal Years (18%)	1,421	1,341	581	277	82	34	64	147	326	515	882	1,410
Dry Water Years (24%)	1,597	1,405	735	520	150	80	101	203	380	734	1,148	1,657
Critical Water Years (16%)	1,948	1,832	1,053	750	409	272	521	901	1,091	1,347	1,536	1,735

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-5c. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10	-22	-55	-28	-16	19	-50	-39	17	-16	-117	8
20% Exceedance	33	0	33	-128	-12	4	8	27	-1	-6	51	9
30% Exceedance	1	-22	15	-5	-24	1	3	42	21	-10	-2	11
40% Exceedance	26	60	10	-1	-1	0	7	40	7	-17	-17	-15
50% Exceedance	4	-12	-44	-7	0	0	1	39	-6	-8	-11	75
60% Exceedance	-6	-9	-12	-7	0	0	0	13	1	8	19	16
70% Exceedance	11	-44	2	0	0	0	0	2	11	18	21	23
80% Exceedance	-2	-6	-9	0	0	0	0	0	-5	11	30	12
90% Exceedance	3	15	-14	0	0	0	0	0	-2	9	45	13
Full Simulation Period Average[a]	7	-12	-11	-17	0	1	1	14	-4	-3	4	12
Wet Water Years (28%)	2	-1	-3	-2	0	0	0	8	0	9	30	13
Above Normal Years (14%)	-3	-24	5	-2	0	0	0	17	-4	13	22	20
Below Normal Years (18%)	17	-35	-2	6	-2	-1	6	37	4	-11	-43	5
Dry Water Years (24%)	9	8	3	-49	-25	-3	6	22	12	9	24	25
Critical Water Years (16%)	10	-23	-76	-35	43	13	-10	-17	-41	-49	-36	-6

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-6a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-6b. San Joaquin River at Antioch Chloride, Alternative 3, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,814	1,745	1,363	502	130	130	167	359	597	731	953	1,382
20% Exceedance	1,372	1,595	806	288	87	50	70	196	362	587	551	829
30% Exceedance	1,231	1,509	463	155	37	29	49	118	330	511	496	772
40% Exceedance	1,020	1,322	327	72	27	26	31	74	268	449	468	722
50% Exceedance	889	713	227	32	26	25	27	41	234	411	450	689
60% Exceedance	247	305	150	26	24	23	25	27	211	368	406	265
70% Exceedance	209	238	95	23	22	22	23	24	171	296	348	236
80% Exceedance	193	211	41	21	20	21	21	21	124	229	295	216
90% Exceedance	174	194	25	18	19	19	18	14	57	159	253	203
Full Simulation Period Average[a]	824	894	429	164	65	49	78	145	276	437	496	637
Wet Water Years (28%)	188	220	172	24	21	21	21	23	118	182	268	214
Above Normal Years (14%)	186	205	145	39	22	22	25	33	186	359	371	214
Below Normal Years (18%)	888	1,190	523	123	37	25	34	78	298	526	507	710
Dry Water Years (24%)	1,241	1,321	655	213	67	41	49	116	245	441	467	773
Critical Water Years (16%)	1,906	1,806	722	493	208	162	316	574	651	847	1,035	1,460

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-6c. San Joaquin River at Antioch Chloride, Alternative 3 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-45	-100	1	-566	-229	-93	-213	-383	-585	-646	-614	-355
20% Exceedance	-379	-99	-385	-520	-105	-63	-131	-50	-113	-221	-656	-856
30% Exceedance	-432	-118	-669	-238	-87	-7	-34	-93	-59	-212	-623	-855
40% Exceedance	-529	-128	-653	-157	-18	-2	-6	-82	-78	-181	-576	-826
50% Exceedance	-496	-163	-486	-94	0	-1	-1	-40	-40	-79	-418	-626
60% Exceedance	-33	-488	-212	-32	0	0	1	-23	-31	50	-180	-108
70% Exceedance	-33	-519	-142	-1	1	1	1	-4	-21	16	-181	-100
80% Exceedance	-30	-382	-119	0	0	1	0	1	16	-21	-190	-100
90% Exceedance	-34	-91	-59	0	1	1	-1	-2	18	-21	-191	-91
Full Simulation Period Average[a]	-194	-223	-273	-180	-61	-27	-49	-83	-108	-153	-395	-417
Wet Water Years (28%)	-34	-341	-392	-9	1	1	1	-12	5	-36	-200	-96
Above Normal Years (14%)	-23	-459	-489	-134	-12	1	1	-25	7	95	-143	-96
Below Normal Years (18%)	-516	-186	-60	-148	-47	-10	-24	-32	-24	-1	-418	-695
Dry Water Years (24%)	-347	-76	-77	-356	-108	-42	-45	-64	-123	-285	-657	-858
Critical Water Years (16%)	-31	-50	-406	-292	-159	-97	-216	-345	-481	-549	-538	-282

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-7a. San Joaquin River at Antioch Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,859	1,845	1,361	1,068	358	223	379	742	1,182	1,377	1,567	1,737
20% Exceedance	1,751	1,694	1,191	807	191	113	201	246	475	808	1,208	1,685
30% Exceedance	1,663	1,627	1,132	394	124	36	83	211	389	723	1,119	1,627
40% Exceedance	1,549	1,450	980	229	46	28	37	157	346	631	1,045	1,548
50% Exceedance	1,386	876	713	126	26	25	28	80	274	490	868	1,315
60% Exceedance	280	793	363	58	24	23	24	49	242	318	586	373
70% Exceedance	242	758	237	24	21	21	22	28	192	279	529	336
80% Exceedance	223	593	160	21	20	20	20	20	109	250	486	316
90% Exceedance	208	285	84	19	18	18	18	16	39	181	444	294
Full Simulation Period Average[a]	1,018	1,118	703	344	126	76	127	228	384	590	891	1,054
Wet Water Years (28%)	221	561	564	33	20	20	20	35	114	218	468	310
Above Normal Years (14%)	209	663	635	173	35	21	24	58	179	264	513	310
Below Normal Years (18%)	1,404	1,376	582	271	84	35	58	110	322	527	925	1,405
Dry Water Years (24%)	1,588	1,397	732	569	175	83	95	181	368	725	1,124	1,632
Critical Water Years (16%)	1,938	1,855	1,128	785	366	259	532	918	1,133	1,396	1,572	1,742

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-7b. San Joaquin River at Antioch Chloride, Alternative 4, Monthly Chloride (mg/L)

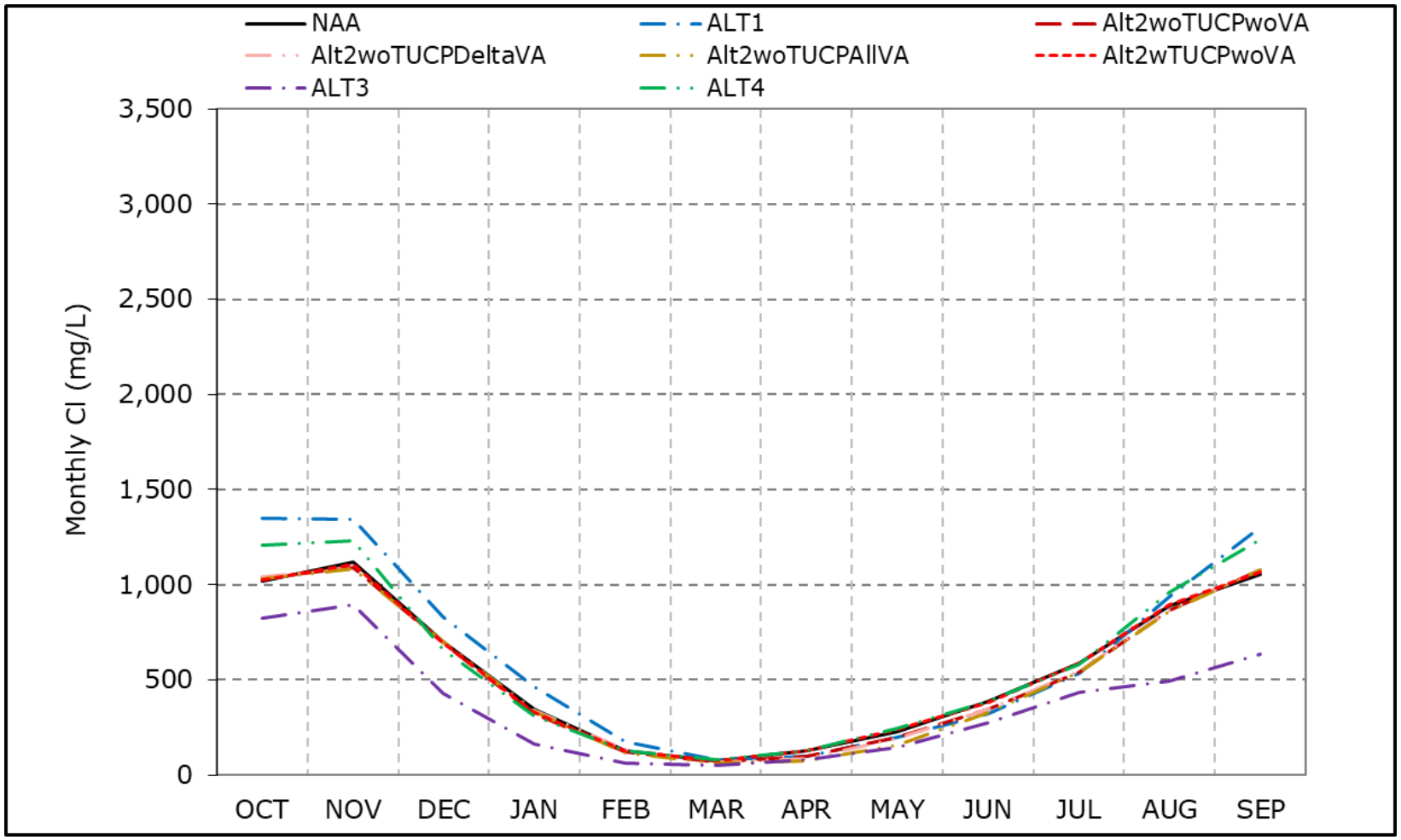
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,872	1,833	1,316	1,027	389	238	333	704	1,232	1,291	1,438	1,767
20% Exceedance	1,772	1,685	1,195	691	194	118	212	273	471	792	1,180	1,687
30% Exceedance	1,676	1,618	1,061	351	113	37	86	252	408	704	1,122	1,616
40% Exceedance	1,591	1,498	845	197	42	27	43	197	361	580	1,014	1,567
50% Exceedance	1,341	1,251	564	106	26	25	29	123	268	476	830	1,405
60% Exceedance	768	1,169	334	46	24	23	24	64	243	329	781	885
70% Exceedance	703	1,037	233	24	21	21	22	30	203	291	736	805
80% Exceedance	666	815	158	21	20	20	20	20	103	262	703	759
90% Exceedance	567	363	75	18	18	18	18	16	37	191	669	718
Full Simulation Period Average[a]	1,209	1,229	657	310	130	80	129	243	385	580	957	1,237
Wet Water Years (28%)	646	841	473	28	20	20	20	43	113	226	659	719
Above Normal Years (14%)	613	932	595	96	29	21	24	75	175	275	739	775
Below Normal Years (18%)	1,422	1,345	578	233	81	34	62	148	331	499	863	1,403
Dry Water Years (24%)	1,606	1,407	724	533	185	87	99	204	381	715	1,120	1,646
Critical Water Years (16%)	1,965	1,824	1,049	745	385	275	533	906	1,113	1,352	1,529	1,747

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-2-7c. San Joaquin River at Antioch Chloride, Alternative 4 minus No Action Alternative, Monthly Chloride (mg/L)

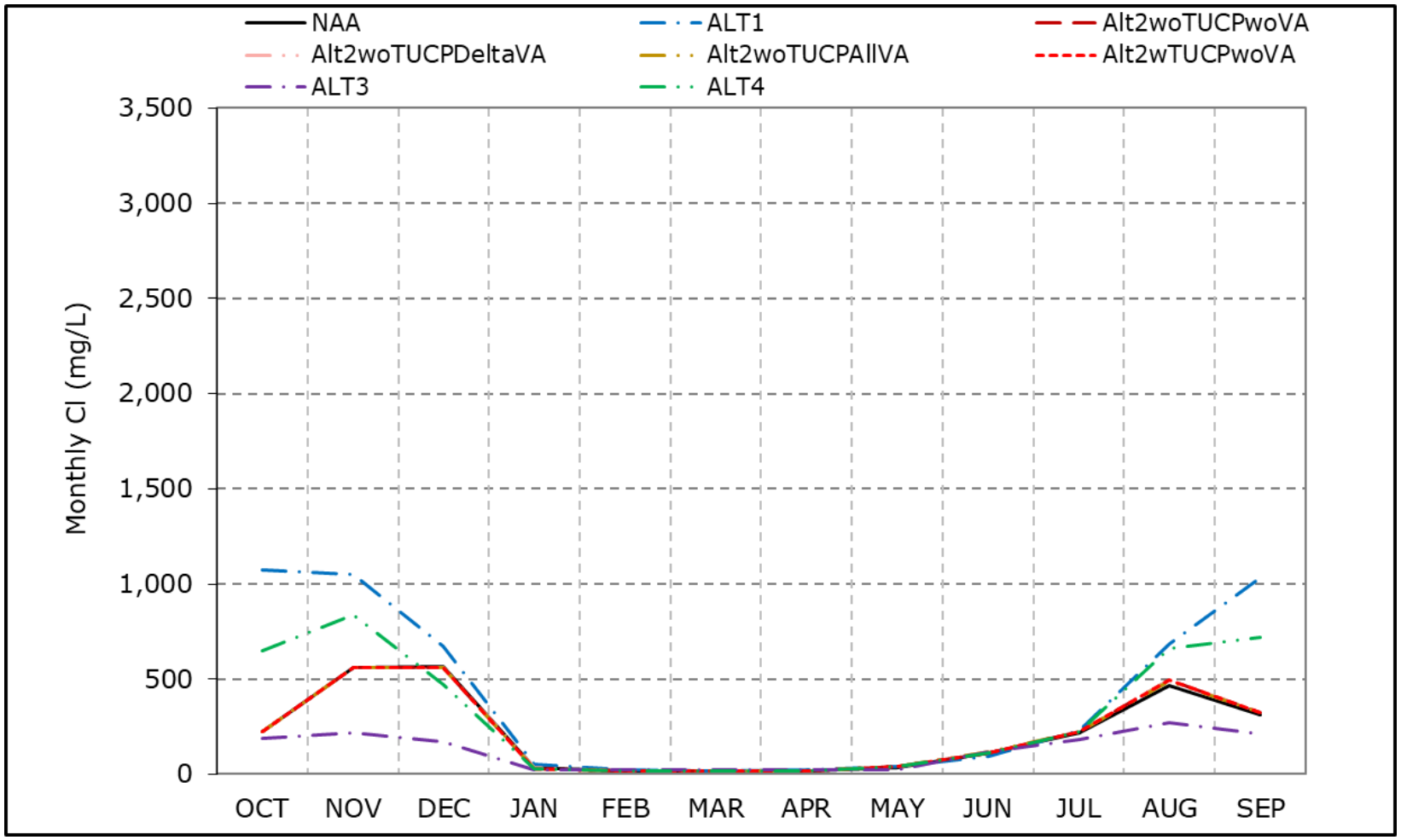
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14	-12	-45	-42	30	15	-46	-38	50	-87	-130	30
20% Exceedance	21	-9	4	-117	3	6	12	27	-4	-16	-28	2
30% Exceedance	13	-9	-71	-43	-11	1	3	41	19	-19	3	-11
40% Exceedance	41	48	-135	-32	-4	-1	6	40	14	-51	-31	19
50% Exceedance	-45	374	-149	-20	0	0	1	42	-6	-14	-37	90
60% Exceedance	487	376	-29	-12	0	0	0	15	1	12	195	511
70% Exceedance	462	279	-4	0	-1	0	0	2	11	12	207	469
80% Exceedance	443	223	-2	0	0	0	0	0	-6	12	217	443
90% Exceedance	359	78	-9	0	0	0	0	0	-2	10	225	424
Full Simulation Period Average[a]	191	111	-46	-34	4	3	2	15	1	-11	66	183
Wet Water Years (28%)	425	280	-90	-4	0	0	0	8	0	8	191	409
Above Normal Years (14%)	404	268	-40	-77	-6	0	0	17	-4	11	226	465
Below Normal Years (18%)	18	-31	-4	-38	-3	-1	3	38	9	-28	-62	-1
Dry Water Years (24%)	18	10	-8	-36	10	4	5	23	13	-10	-4	14
Critical Water Years (16%)	28	-31	-79	-40	19	16	2	-12	-20	-44	-43	5

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



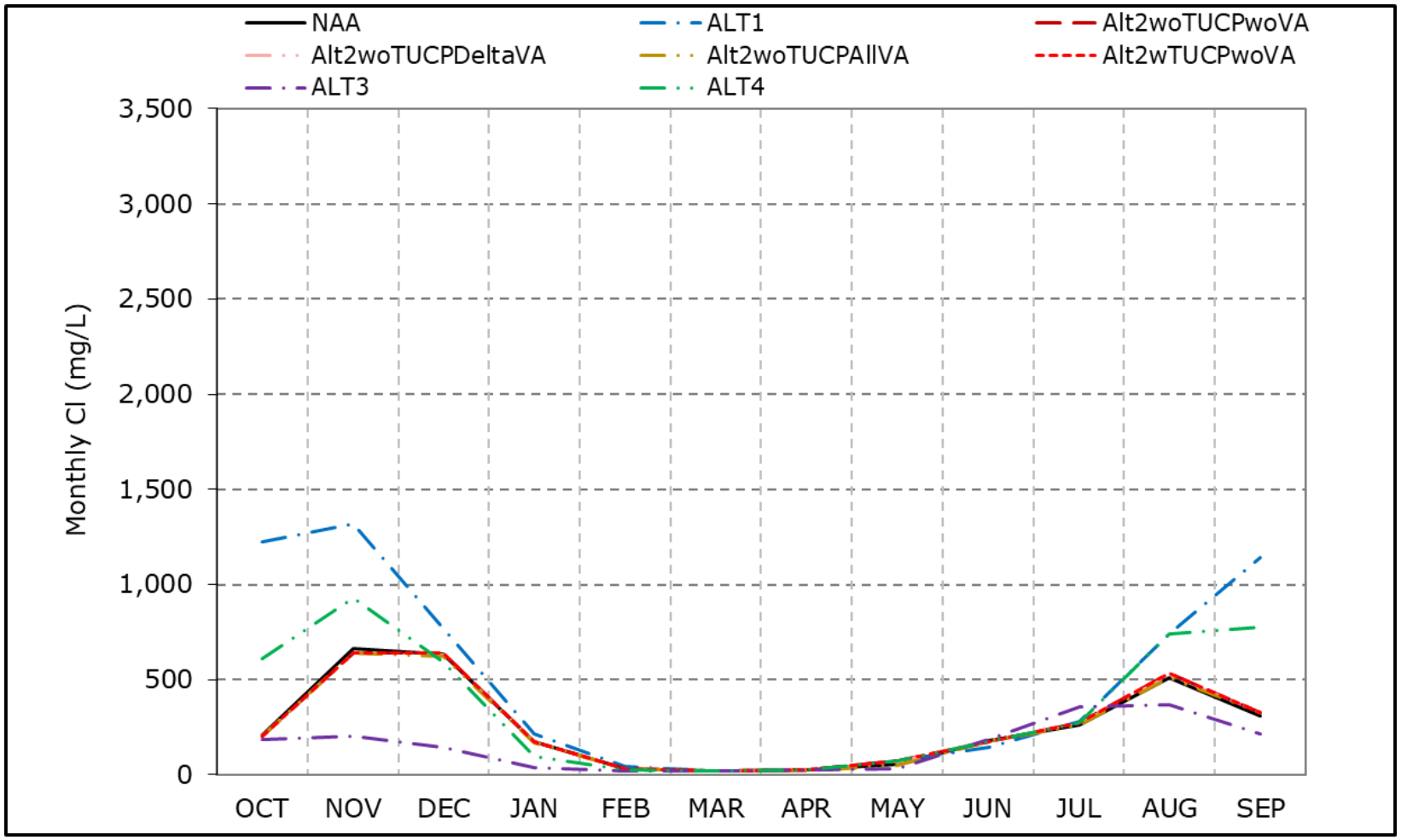
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-1. San Joaquin River at Antioch Chloride, Long-Term Average Chloride



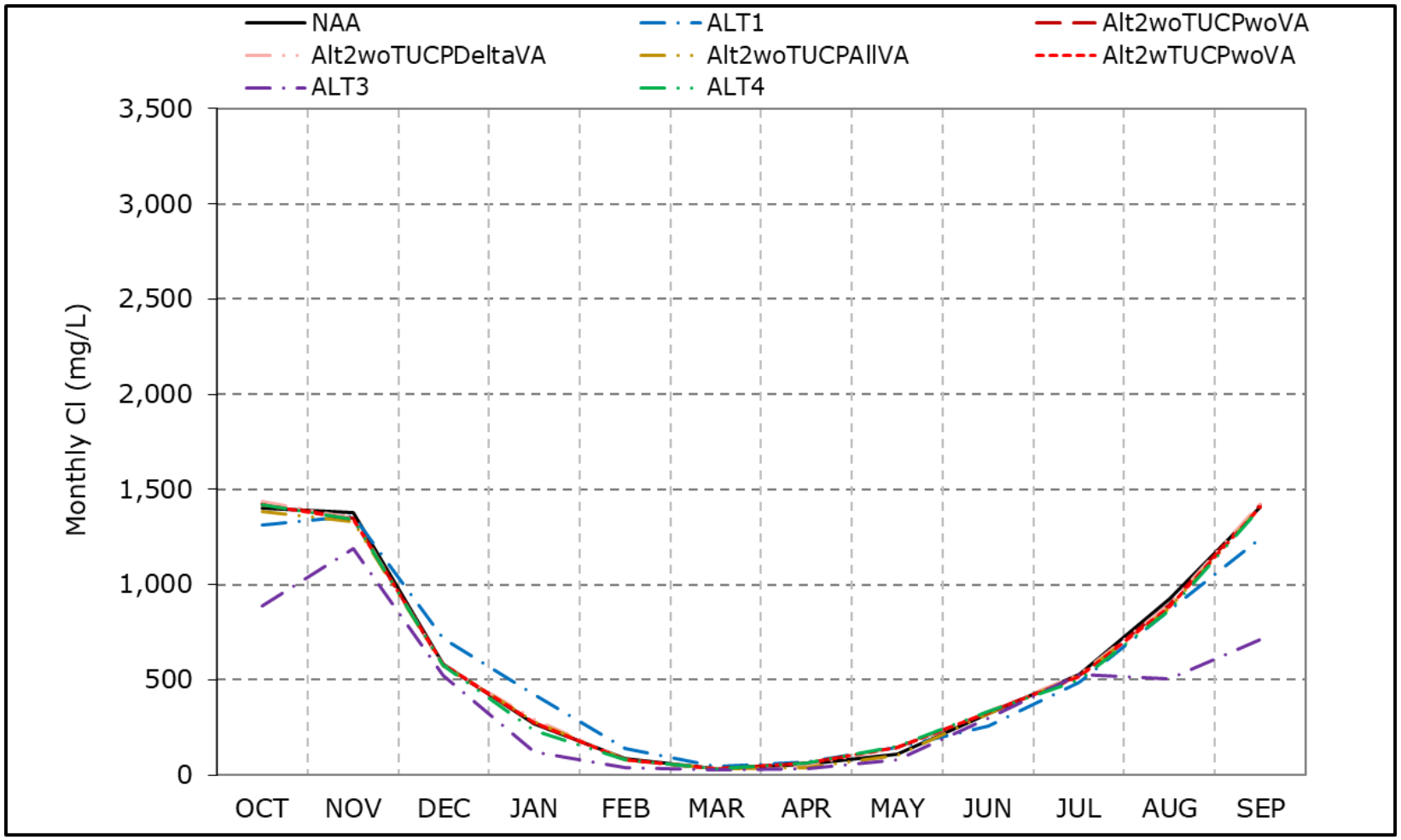
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-2. San Joaquin River at Antioch Chloride, Wet Year Average Chloride



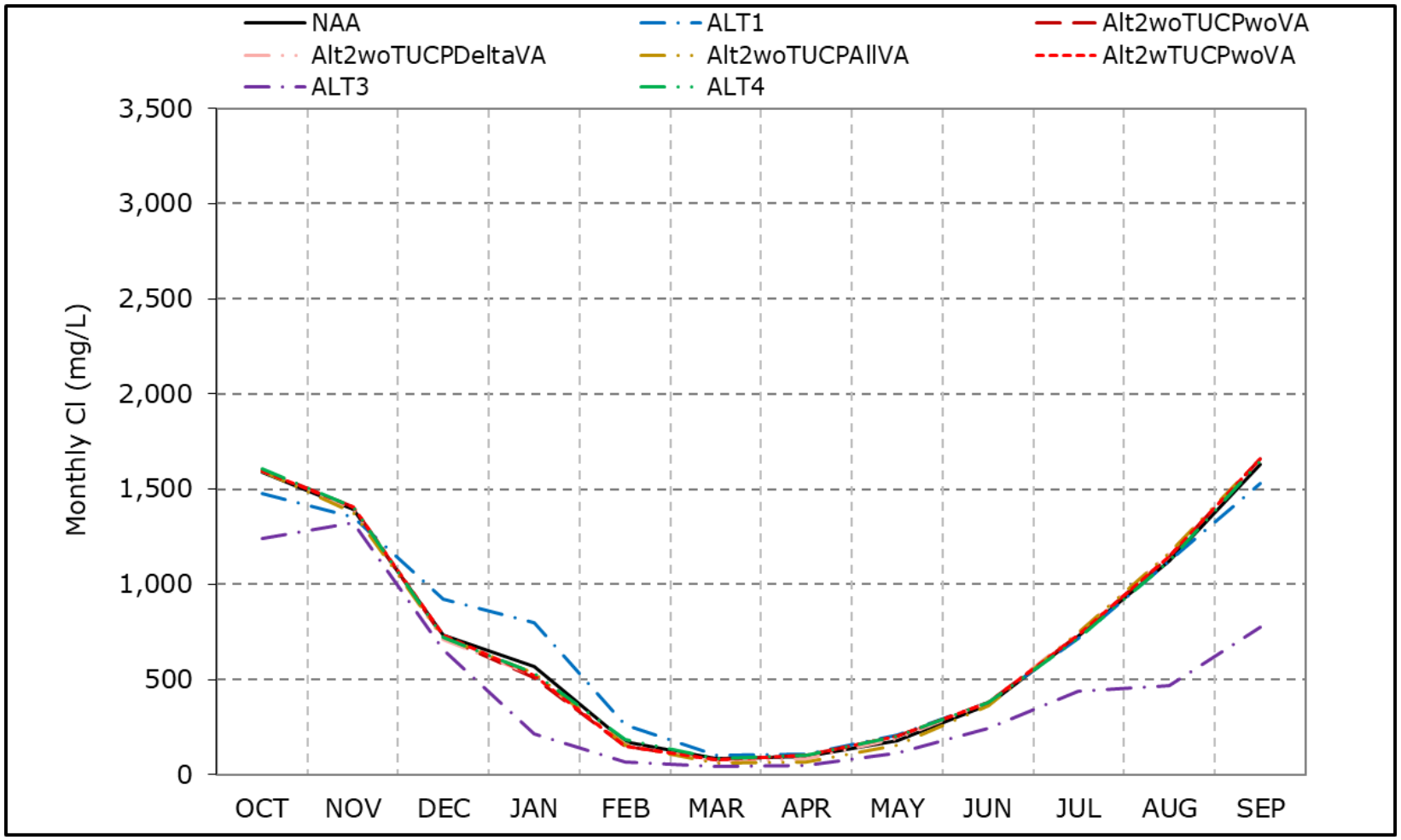
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-3. San Joaquin River at Antioch Chloride, Above Normal Year Average Chloride



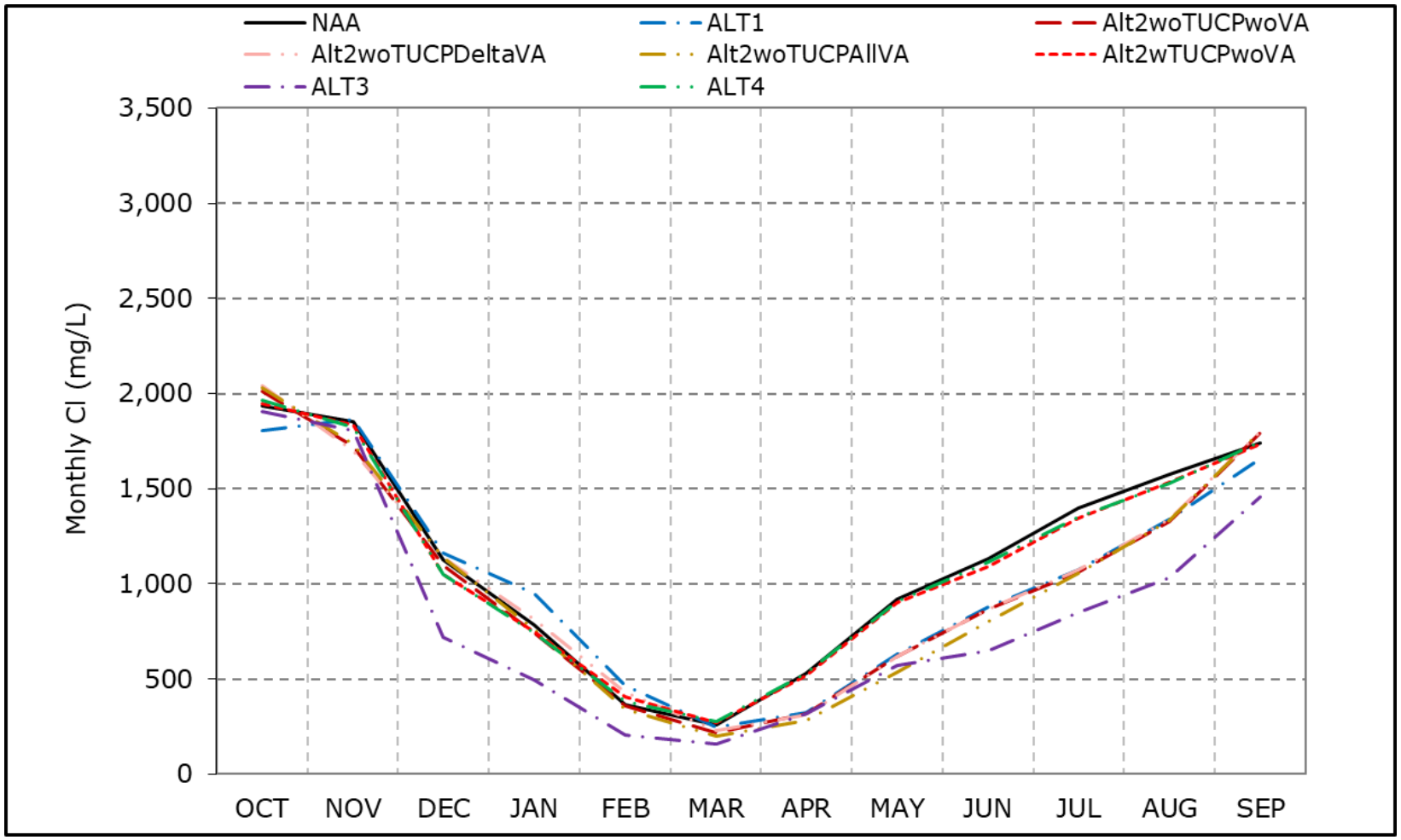
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-4. San Joaquin River at Antioch Chloride, Below Normal Year Average Chloride



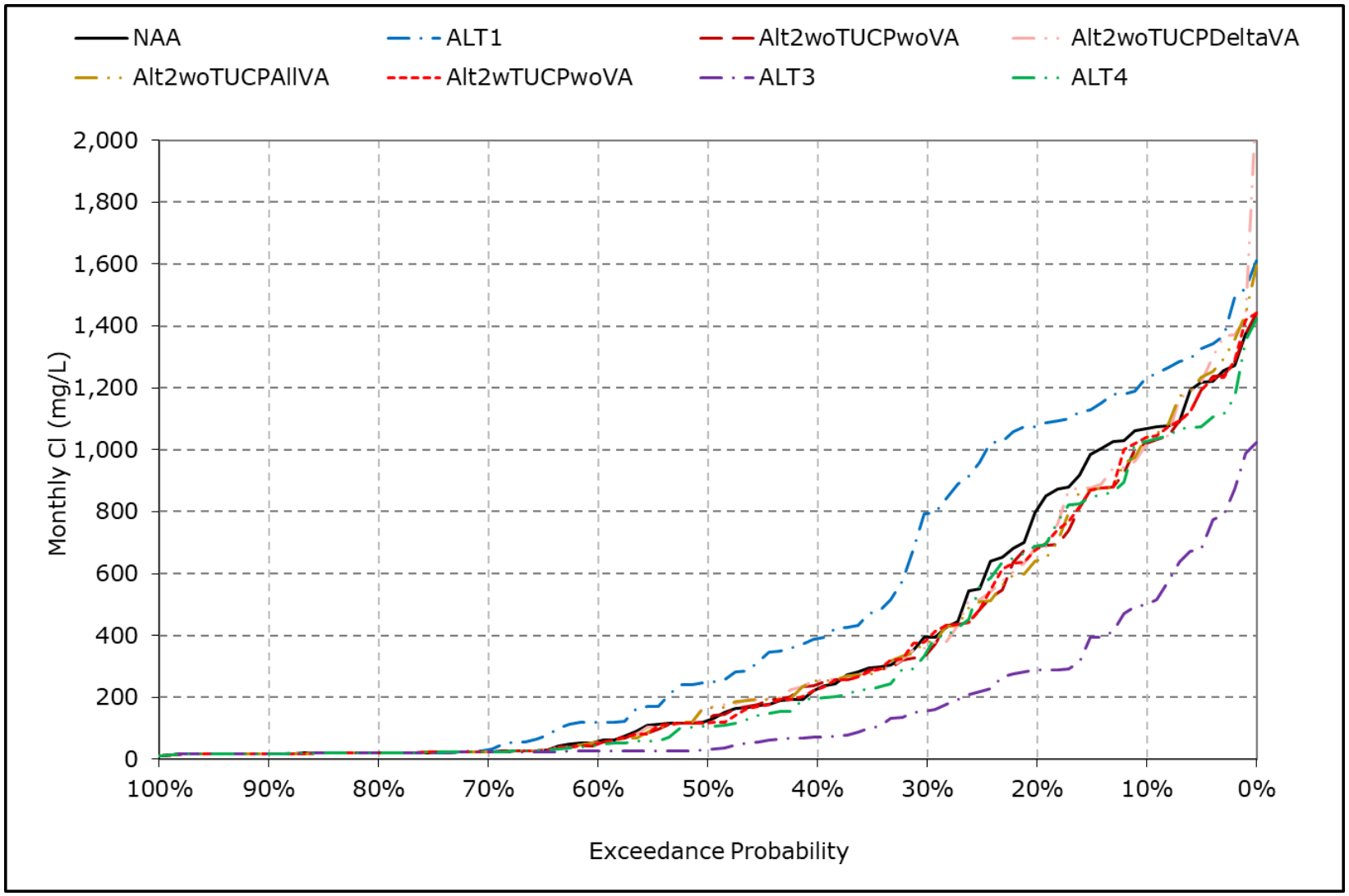
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-5. San Joaquin River at Antioch Chloride, Dry Year Average Chloride



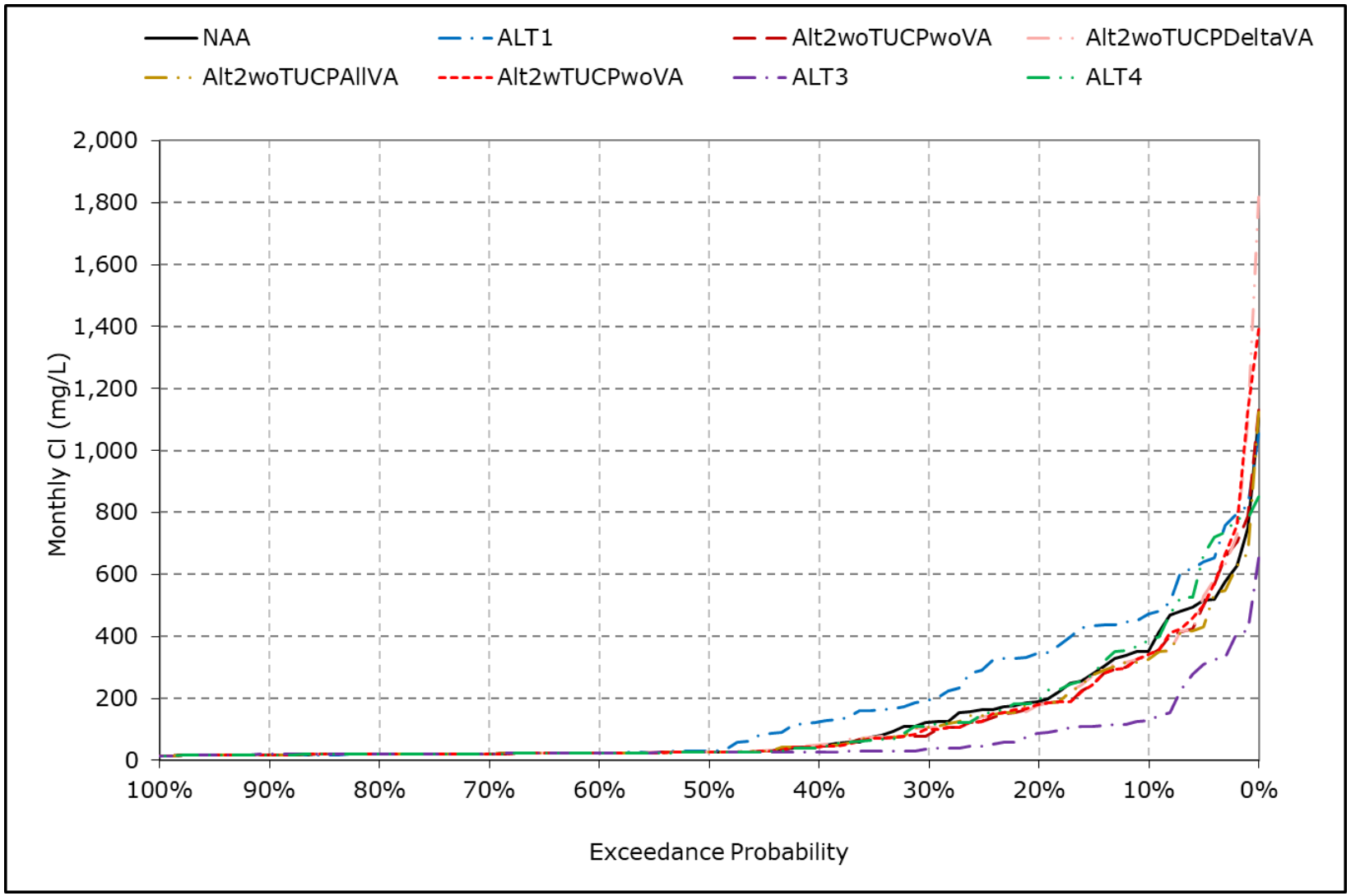
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-6. San Joaquin River at Antioch Chloride, Critical Year Average Chloride



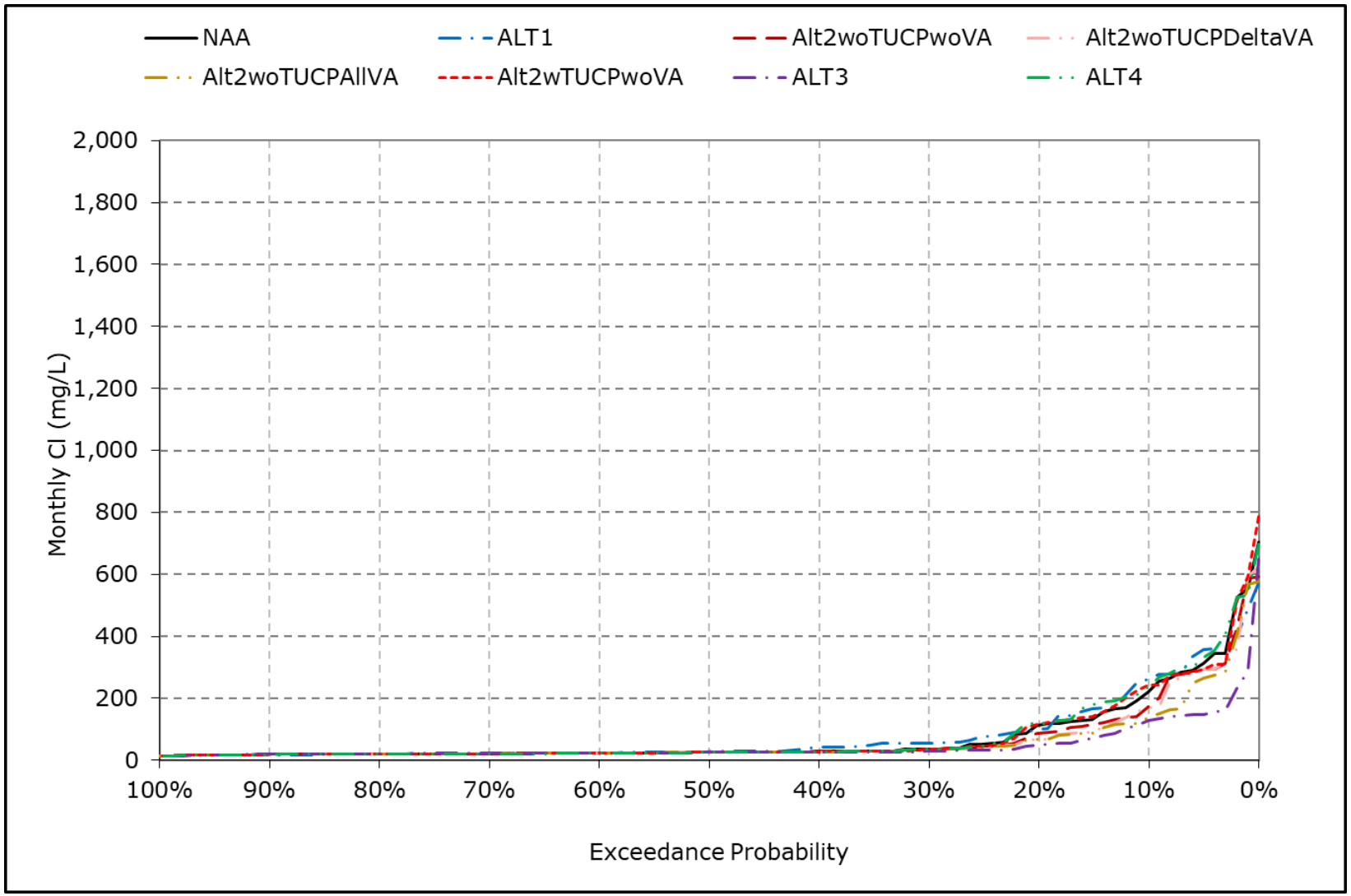
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-7. San Joaquin River at Antioch Chloride, January Chloride



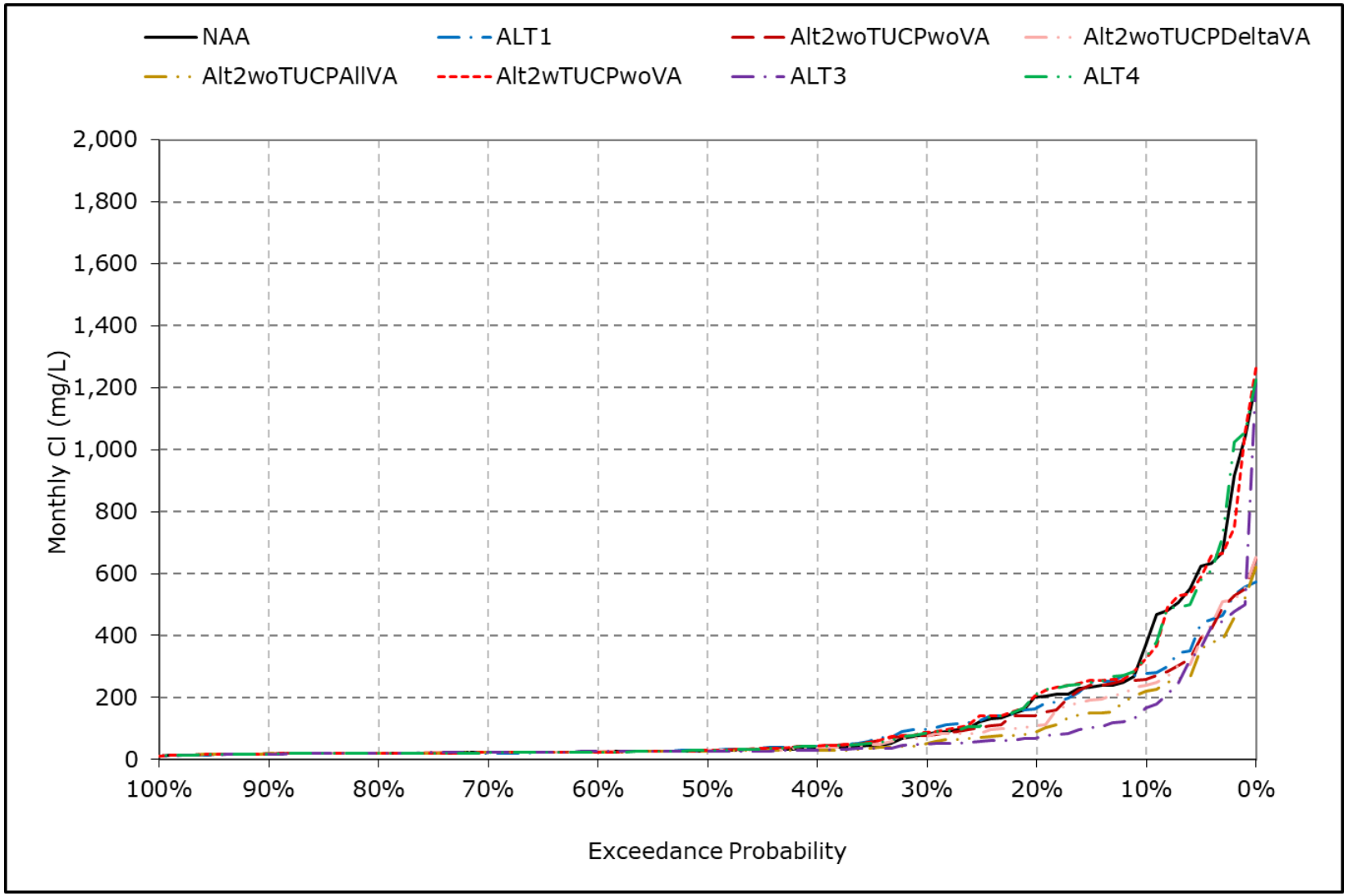
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-8. San Joaquin River at Antioch Chloride, February Chloride



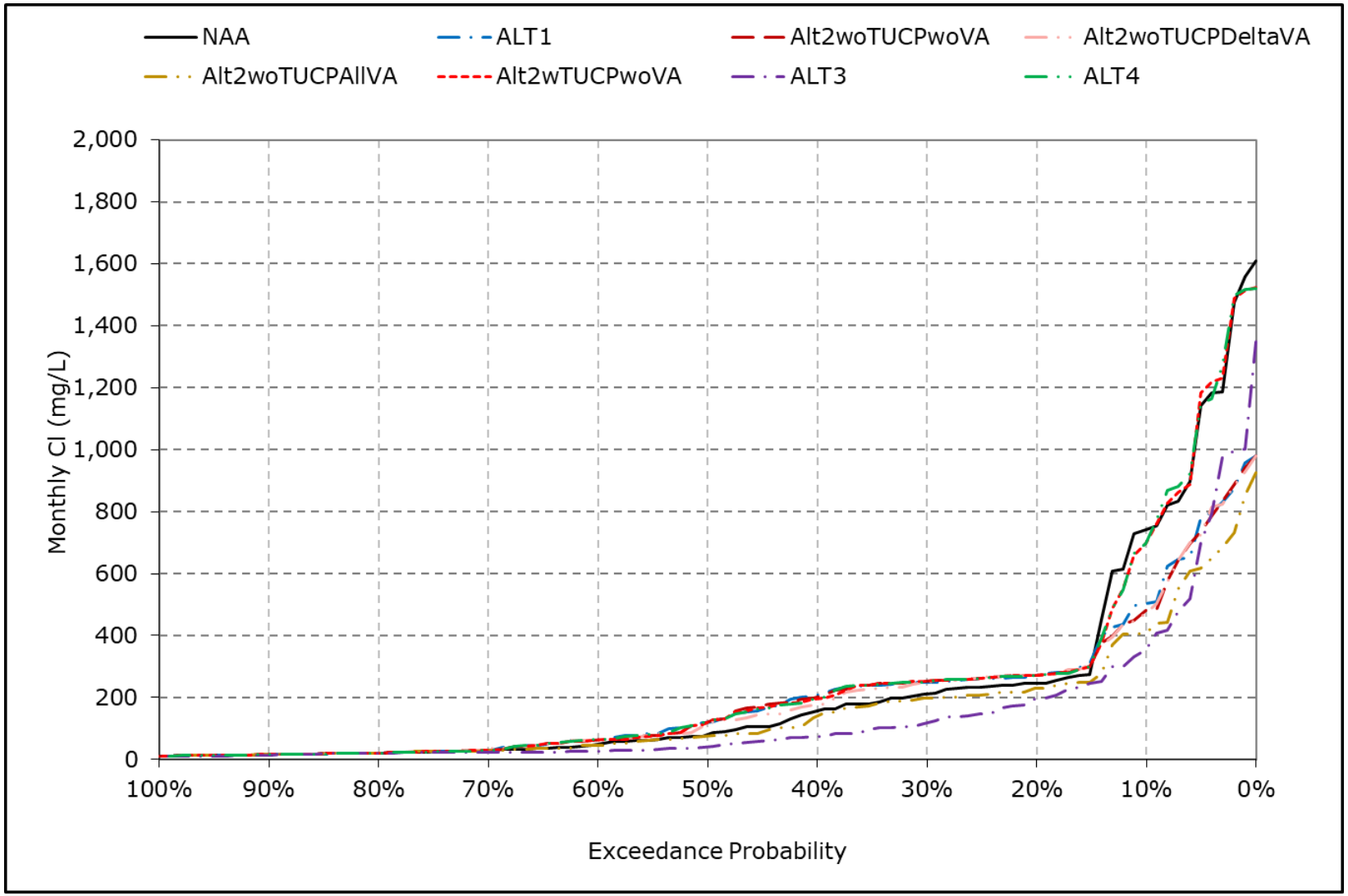
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-9. San Joaquin River at Antioch Chloride, March Chloride



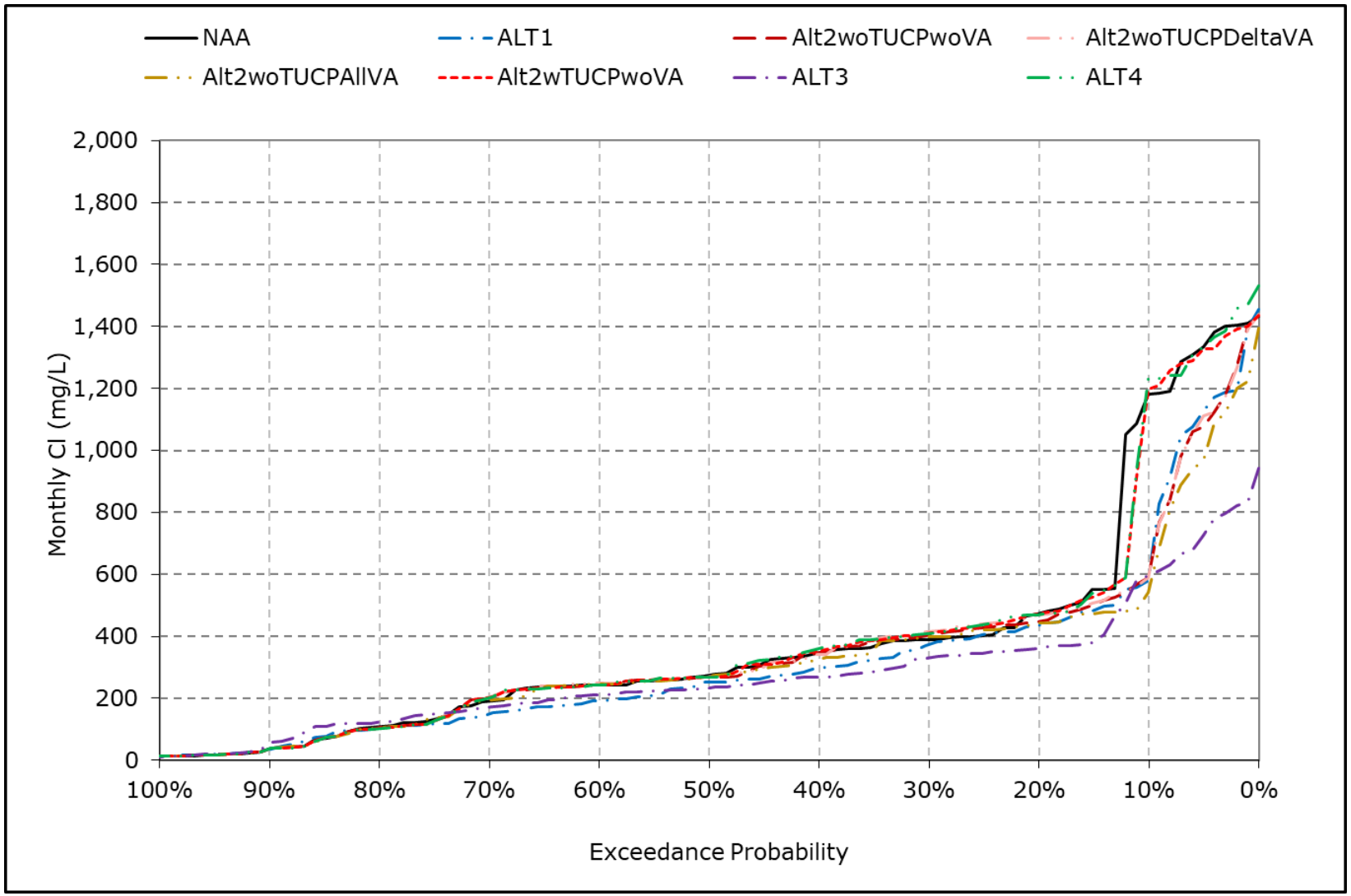
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-10. San Joaquin River at Antioch Chloride, April Chloride



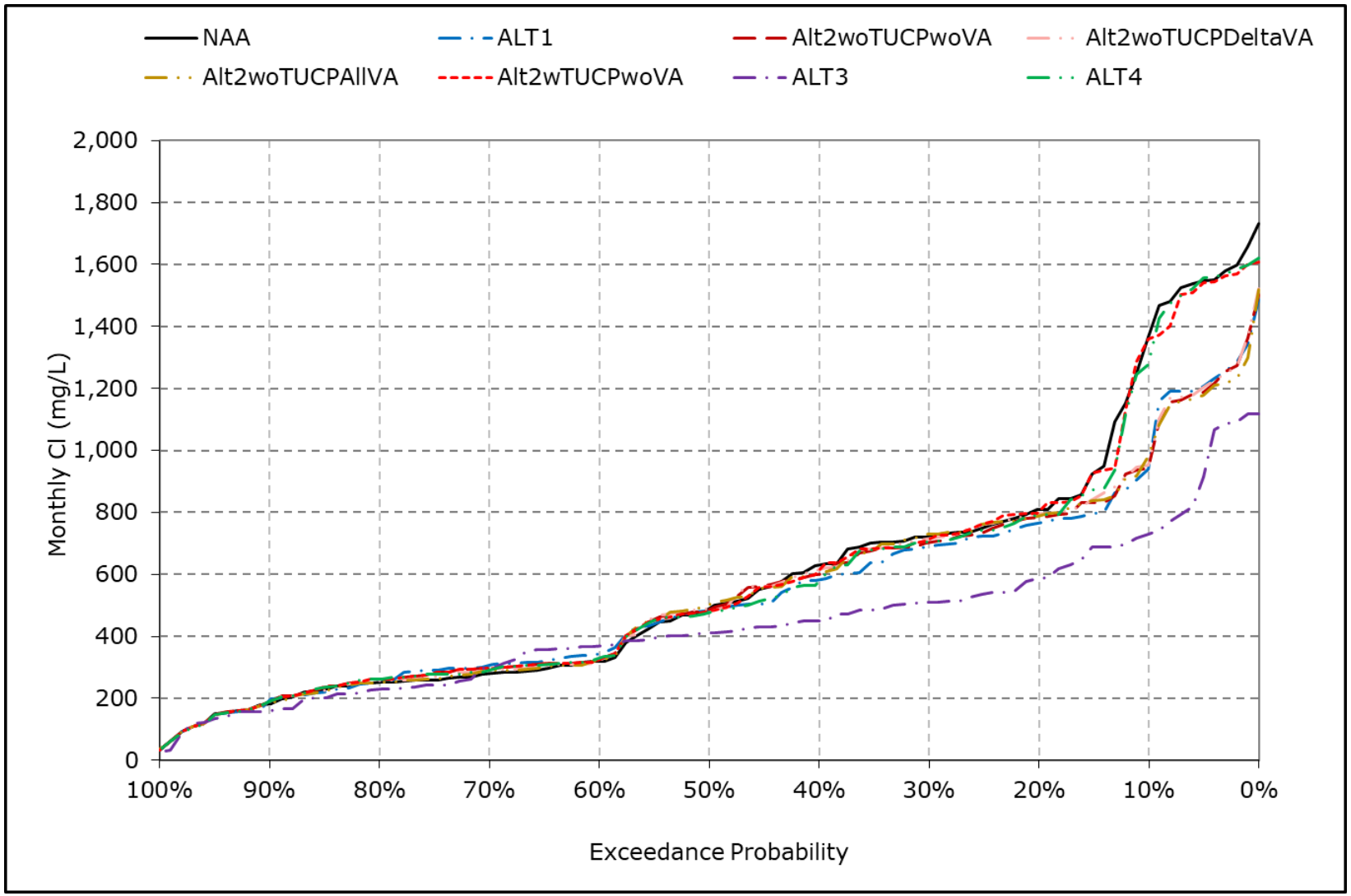
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-11. San Joaquin River at Antioch Chloride, May Chloride



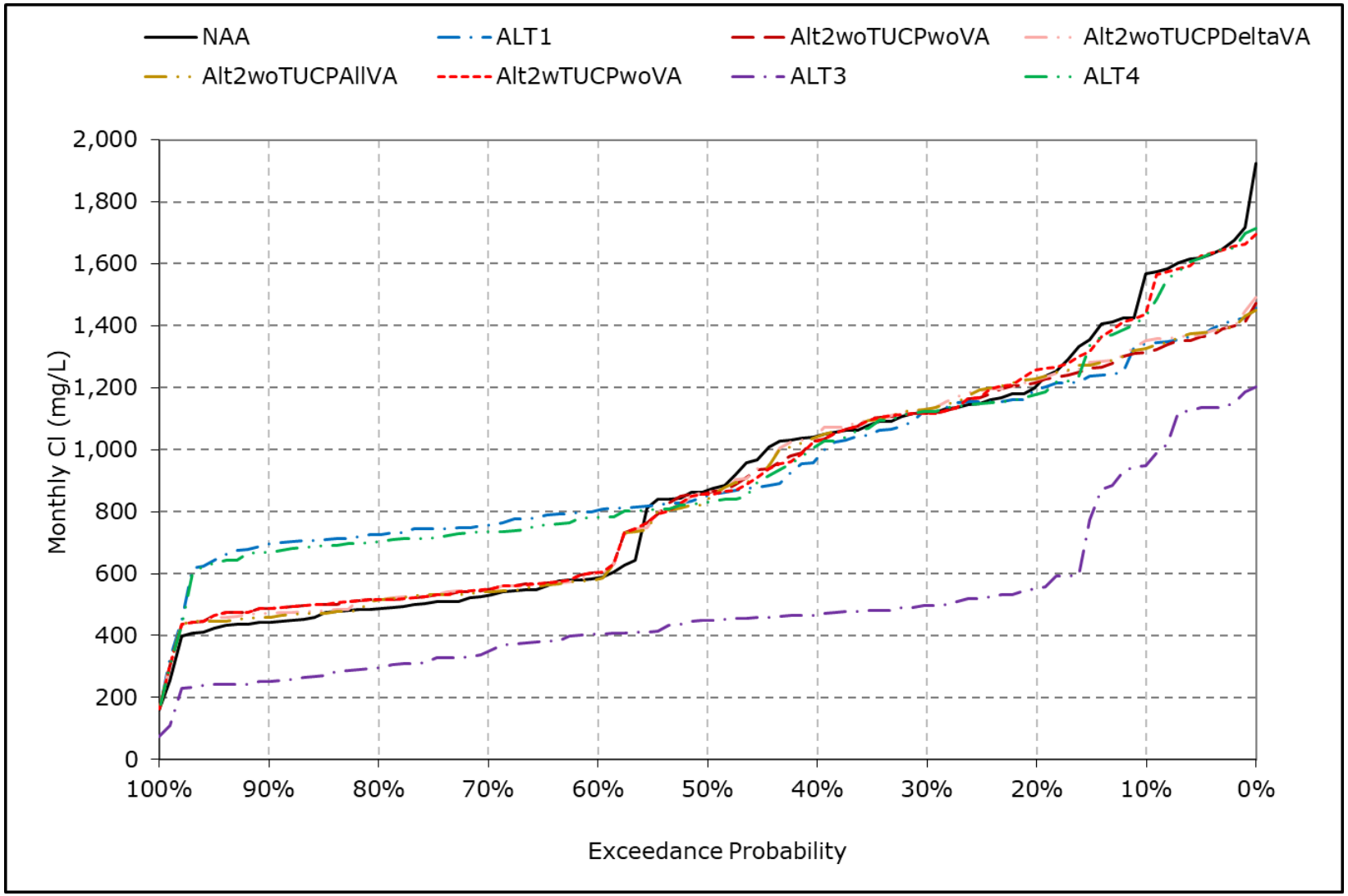
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-12. San Joaquin River at Antioch Chloride, June Chloride



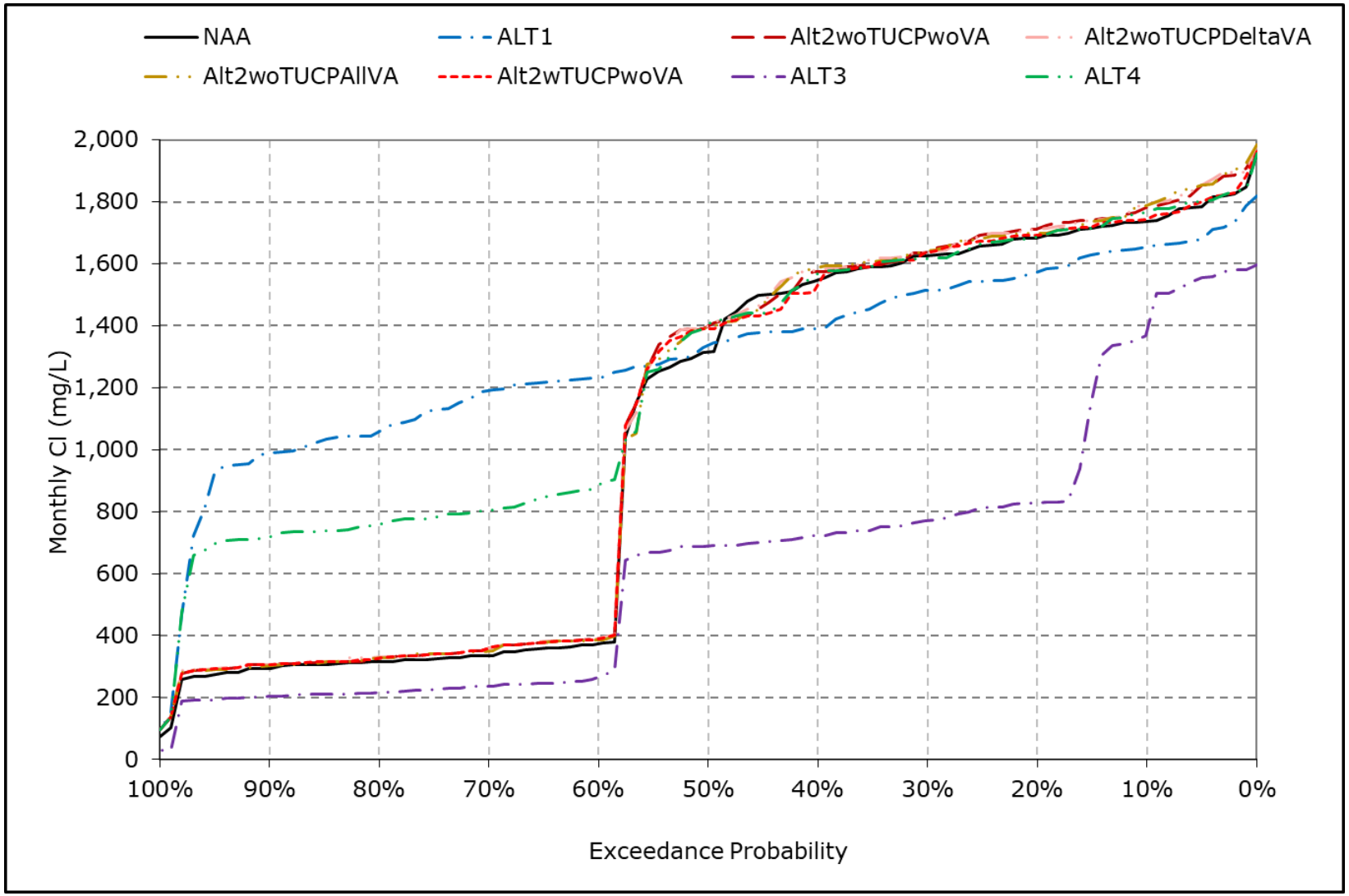
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-13. San Joaquin River at Antioch Chloride, July Chloride



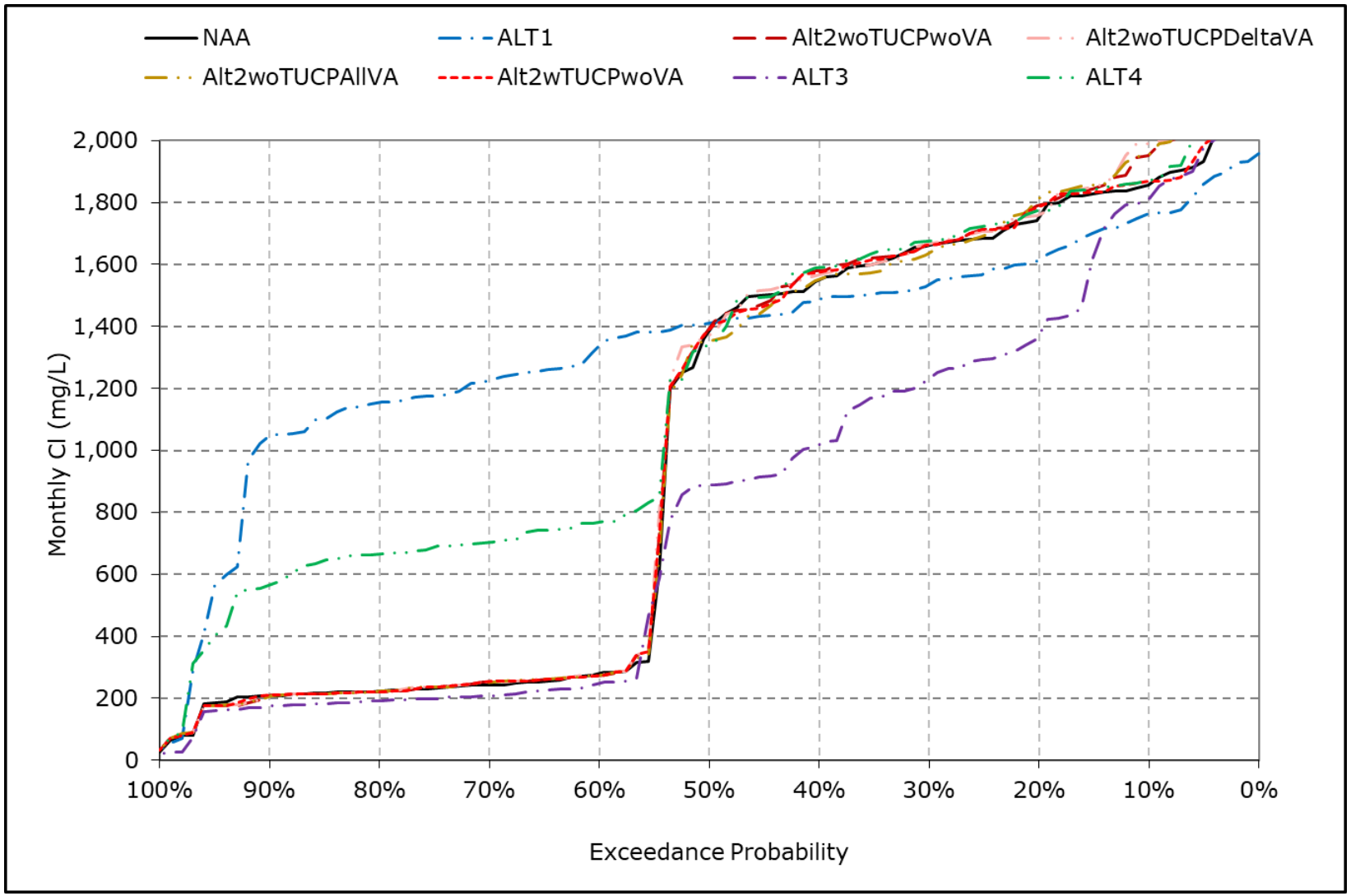
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-14. San Joaquin River at Antioch Chloride, August Chloride



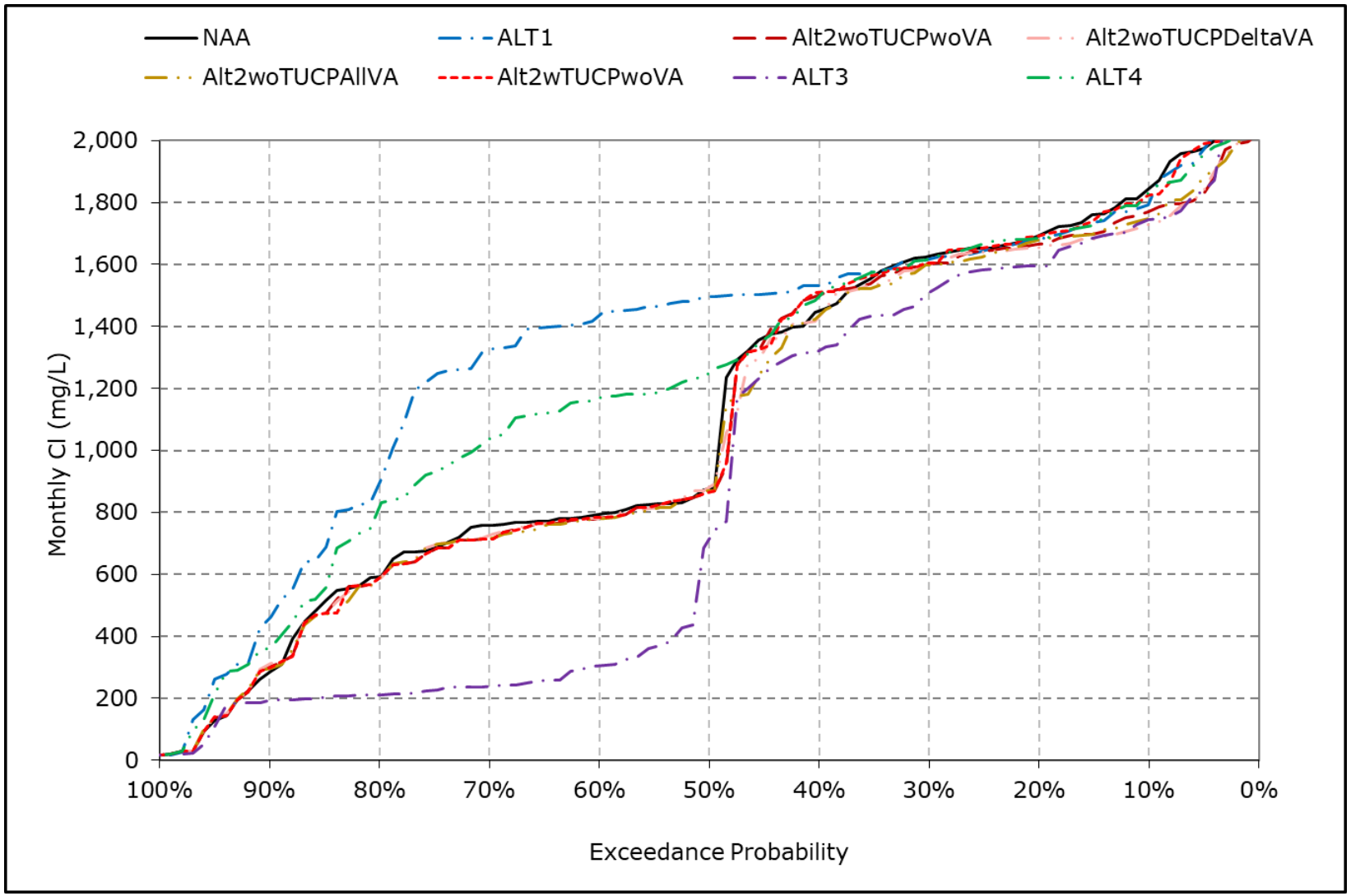
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-15. San Joaquin River at Antioch Chloride, September Chloride



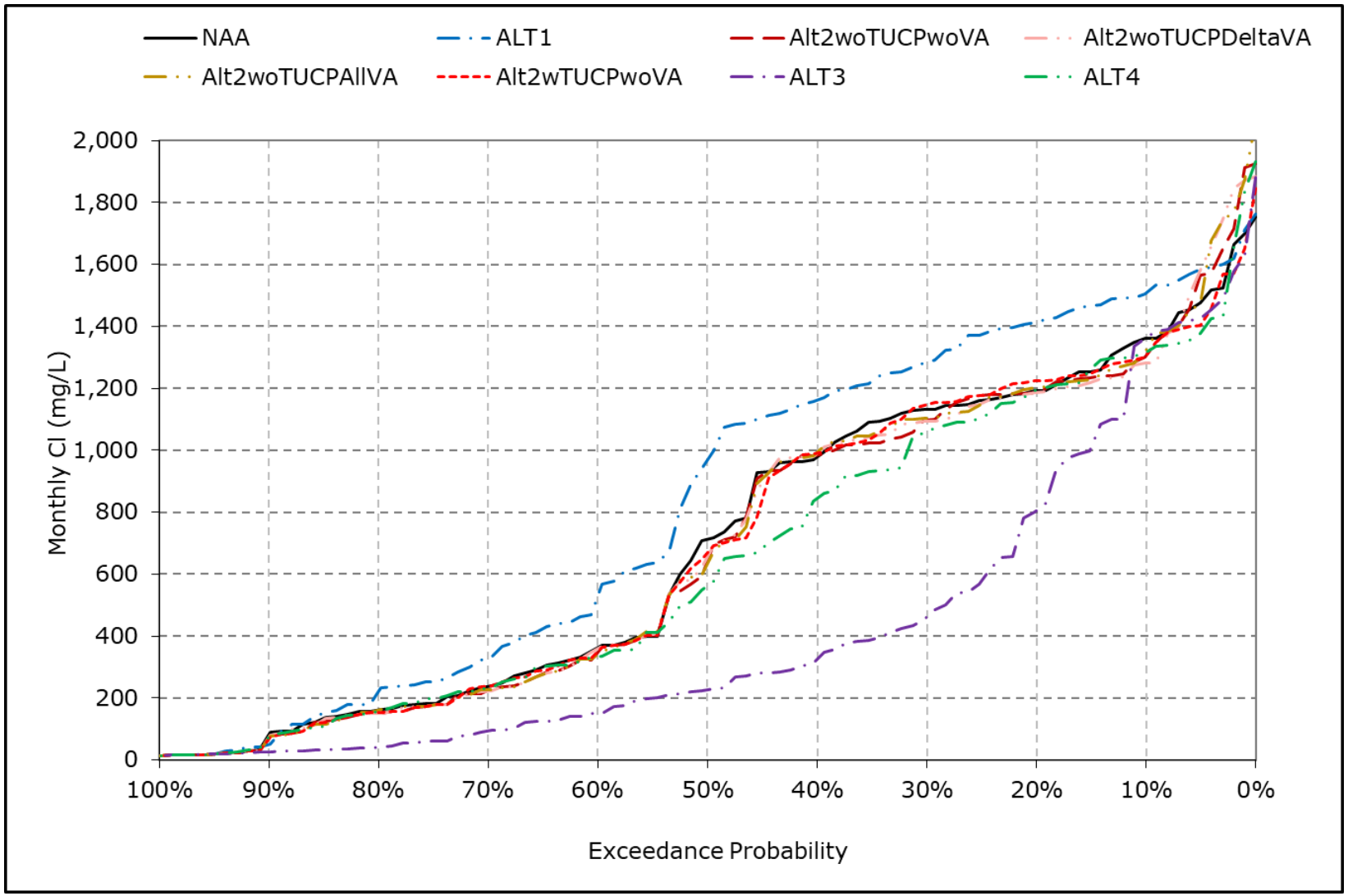
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-16. San Joaquin River at Antioch Chloride, October Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-17. San Joaquin River at Antioch Chloride, November Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-2-18. San Joaquin River at Antioch Chloride, December Chloride

Table F.2.7-3-1a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-1b. Banks Pumping Plant South Delta Exports Chloride, Alternative 1, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	116	152	177	168	163	98	94	78	70	72	83	95
20% Exceedance	111	134	168	155	130	85	73	70	54	44	62	91
30% Exceedance	108	122	156	144	104	75	67	63	44	40	58	88
40% Exceedance	106	116	148	129	85	60	61	58	40	36	53	85
50% Exceedance	104	112	140	107	67	53	56	54	38	32	44	82
60% Exceedance	101	107	131	73	55	47	49	50	34	30	40	79
70% Exceedance	100	101	116	55	45	43	45	41	30	28	37	76
80% Exceedance	93	92	76	40	32	35	37	34	29	27	34	70
90% Exceedance	83	72	48	28	26	27	21	14	19	26	32	61
Full Simulation Period Average[a]	100	111	127	100	83	61	57	52	41	40	51	80
Wet Water Years (28%)	89	91	103	55	41	33	31	26	24	29	34	72
Above Normal Years (14%)	102	103	128	94	60	50	54	50	33	27	37	85
Below Normal Years (18%)	98	107	122	99	79	59	56	53	38	32	50	78
Dry Water Years (24%)	105	115	128	131	110	69	63	60	43	40	58	80
Critical Water Years (16%)	111	151	174	139	137	109	97	85	78	80	81	91

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-1c. Banks Pumping Plant South Delta Exports Chloride, Alternative 1 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-4	8	11	-14	17	0	0	-10	-10	-19	-23	-19
20% Exceedance	0	10	10	-1	3	-2	-6	-11	0	0	-3	-3
30% Exceedance	0	4	8	1	7	-4	-7	-12	-5	1	4	4
40% Exceedance	5	5	9	0	-4	-12	-8	-11	-7	0	5	7
50% Exceedance	11	13	12	-5	-14	-15	-11	-12	-8	-2	4	17
60% Exceedance	67	67	19	-7	-10	-15	-14	-12	-9	-1	7	34
70% Exceedance	70	67	20	-11	-10	-15	-13	-13	-9	0	8	41
80% Exceedance	64	61	-3	-15	-7	-14	-6	-11	-5	-1	6	36
90% Exceedance	56	42	0	-5	1	-1	2	0	-1	0	5	29
Full Simulation Period Average[a]	26	29	9	-6	0	-8	-6	-10	-7	-3	0	14
Wet Water Years (28%)	61	58	17	-7	-7	-9	-3	-5	-4	0	5	38
Above Normal Years (14%)	71	70	24	-12	-15	-17	-12	-16	-10	-1	9	49
Below Normal Years (18%)	-4	3	-1	-15	-3	-13	-13	-12	-7	-2	4	-3
Dry Water Years (24%)	2	3	3	0	8	-8	-8	-10	-5	0	1	3
Critical Water Years (16%)	-12	5	4	0	14	9	3	-9	-15	-17	-24	-24

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-2a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-2b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	141	170	179	149	102	88	79	72	70	83	96
20% Exceedance	109	126	157	159	122	89	79	71	53	45	62	90
30% Exceedance	106	119	145	140	97	79	74	66	47	41	54	84
40% Exceedance	101	108	134	128	88	73	69	63	45	37	51	78
50% Exceedance	95	95	125	113	83	69	67	59	43	34	43	67
60% Exceedance	36	40	112	81	68	64	62	55	39	32	35	50
70% Exceedance	30	34	93	66	57	59	52	44	36	29	30	40
80% Exceedance	29	31	79	55	40	49	44	36	30	28	29	38
90% Exceedance	28	30	48	34	25	28	23	14	19	27	28	34
Full Simulation Period Average[a]	73	82	115	107	83	69	63	54	44	41	49	64
Wet Water Years (28%)	29	33	85	62	47	41	34	26	26	29	30	36
Above Normal Years (14%)	32	32	102	105	76	65	62	52	39	29	30	41
Below Normal Years (18%)	103	105	121	115	84	72	68	57	42	35	48	81
Dry Water Years (24%)	105	114	127	131	102	78	71	65	46	41	60	81
Critical Water Years (16%)	109	141	160	142	124	106	96	86	79	81	81	91

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-2c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-7	-3	3	-3	3	3	-6	-9	-8	-21	-23	-18
20% Exceedance	-2	2	-1	3	-5	2	0	-11	-1	0	-3	-4
30% Exceedance	-2	1	-4	-3	1	0	0	-9	-2	2	0	0
40% Exceedance	0	-3	-4	-1	-1	0	0	-6	-2	1	3	0
50% Exceedance	2	-4	-4	1	2	1	-1	-7	-3	0	3	3
60% Exceedance	2	0	0	1	3	1	-2	-7	-4	1	2	4
70% Exceedance	0	0	-3	1	2	1	-6	-10	-4	0	1	5
80% Exceedance	1	0	0	1	1	0	2	-9	-4	0	1	3
90% Exceedance	0	0	0	0	-1	1	4	0	-1	0	1	2
Full Simulation Period Average[a]	-1	0	-2	0	0	1	0	-7	-4	-2	-2	-2
Wet Water Years (28%)	0	0	-1	-1	0	-1	0	-4	-2	0	1	2
Above Normal Years (14%)	1	0	-2	-1	0	-1	-4	-13	-4	0	2	4
Below Normal Years (18%)	1	0	-2	1	2	1	-1	-8	-3	0	2	-1
Dry Water Years (24%)	2	2	1	1	0	2	0	-6	-2	1	2	4
Critical Water Years (16%)	-13	-6	-10	2	1	6	2	-8	-14	-17	-24	-23

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-3a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-3b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	114	145	163	178	149	111	111	90	74	69	83	99
20% Exceedance	110	127	157	158	123	101	99	83	59	47	65	92
30% Exceedance	107	118	147	142	99	90	92	79	51	41	58	86
40% Exceedance	104	109	133	126	89	82	85	76	49	38	51	80
50% Exceedance	94	97	123	113	81	78	79	73	47	35	45	69
60% Exceedance	35	41	112	81	67	72	71	62	43	32	36	48
70% Exceedance	29	34	93	67	58	65	62	49	37	29	30	39
80% Exceedance	29	32	79	55	40	50	46	38	30	28	29	37
90% Exceedance	28	30	48	34	25	28	19	14	19	27	28	33
Full Simulation Period Average[a]	73	82	116	107	84	77	74	62	46	41	49	66
Wet Water Years (28%)	28	33	85	63	48	43	35	27	26	29	29	36
Above Normal Years (14%)	31	33	104	105	76	75	77	65	42	29	30	39
Below Normal Years (18%)	104	106	123	119	86	87	90	69	45	35	49	84
Dry Water Years (24%)	106	114	125	127	101	87	87	78	52	42	63	85
Critical Water Years (16%)	110	143	160	139	128	112	100	88	80	80	81	92

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-3c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	1	-3	-5	3	13	18	2	-6	-22	-23	-15
20% Exceedance	0	3	-2	2	-4	14	20	1	5	2	0	-2
30% Exceedance	-1	0	-2	-1	2	11	18	4	2	2	4	2
40% Exceedance	3	-2	-5	-2	0	10	17	7	2	2	3	2
50% Exceedance	1	-3	-6	1	1	9	11	6	1	1	5	5
60% Exceedance	1	0	0	1	2	9	8	0	0	1	3	3
70% Exceedance	0	0	-3	1	2	7	5	-6	-2	0	1	4
80% Exceedance	0	0	0	1	0	0	3	-7	-4	0	1	3
90% Exceedance	1	0	0	0	-1	1	1	0	-1	1	1	1
Full Simulation Period Average[a]	0	0	-2	0	1	9	10	1	-2	-2	-2	-1
Wet Water Years (28%)	0	0	0	1	0	1	1	-3	-2	0	1	2
Above Normal Years (14%)	1	0	-1	-1	0	8	11	-1	-1	1	2	3
Below Normal Years (18%)	2	1	0	5	3	16	20	3	0	1	3	2
Dry Water Years (24%)	4	2	0	-3	-1	11	17	8	4	2	6	8
Critical Water Years (16%)	-12	-4	-10	-1	6	12	6	-6	-14	-17	-24	-22

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-4a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-4b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAllVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	114	144	164	176	148	111	111	91	73	66	82	98
20% Exceedance	109	129	155	158	122	100	99	84	58	45	64	92
30% Exceedance	105	115	145	141	99	92	92	79	50	41	57	86
40% Exceedance	102	106	134	127	89	83	84	77	48	38	50	80
50% Exceedance	97	94	124	112	81	77	79	73	46	35	44	70
60% Exceedance	34	40	113	81	68	72	72	61	43	32	36	47
70% Exceedance	29	34	94	67	58	66	62	48	37	29	30	39
80% Exceedance	29	31	79	55	40	50	46	38	30	28	29	37
90% Exceedance	28	30	45	34	25	28	19	14	19	27	28	33
Full Simulation Period Average[a]	73	81	116	107	84	76	73	62	46	41	49	65
Wet Water Years (28%)	28	33	85	62	48	43	35	27	26	29	29	36
Above Normal Years (14%)	31	32	104	104	76	74	77	65	42	29	29	38
Below Normal Years (18%)	102	103	123	116	85	87	89	68	44	35	48	83
Dry Water Years (24%)	107	114	125	130	102	88	87	79	51	42	63	85
Critical Water Years (16%)	110	142	161	141	125	107	99	87	78	76	77	90

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-4c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAllVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	0	-2	-6	1	13	17	3	-7	-25	-24	-16
20% Exceedance	-1	5	-3	2	-5	13	20	2	4	0	-2	-2
30% Exceedance	-3	-4	-3	-1	2	13	18	4	1	2	3	2
40% Exceedance	1	-4	-4	-2	0	10	16	8	0	2	2	3
50% Exceedance	4	-5	-4	0	0	9	12	6	0	1	5	5
60% Exceedance	0	0	1	1	3	10	9	-1	-1	1	3	1
70% Exceedance	0	0	-2	1	3	8	4	-6	-3	1	0	4
80% Exceedance	0	0	0	1	1	0	3	-7	-4	0	0	3
90% Exceedance	0	0	-3	0	-1	1	1	0	-1	0	1	1
Full Simulation Period Average[a]	-1	0	-2	0	1	8	10	0	-3	-3	-2	-1
Wet Water Years (28%)	0	0	0	-1	0	1	1	-3	-2	0	1	1
Above Normal Years (14%)	0	0	0	-1	0	8	10	-1	-1	1	1	2
Below Normal Years (18%)	0	-2	0	2	3	16	20	3	-1	1	2	1
Dry Water Years (24%)	4	2	0	0	0	11	17	8	3	2	6	8
Critical Water Years (16%)	-12	-4	-10	1	2	7	5	-7	-16	-22	-28	-24

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-5a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-5b. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	118	146	167	178	149	100	91	83	76	85	103	114
20% Exceedance	112	127	157	158	122	88	80	71	53	44	66	94
30% Exceedance	107	117	146	144	97	80	73	66	47	41	55	85
40% Exceedance	103	107	138	133	89	73	69	63	45	37	52	80
50% Exceedance	95	96	127	112	83	69	67	59	43	34	43	69
60% Exceedance	36	40	112	81	68	64	62	55	39	31	35	49
70% Exceedance	30	34	94	66	58	59	51	43	36	29	30	40
80% Exceedance	29	31	79	55	40	49	44	36	29	28	29	38
90% Exceedance	28	30	48	34	25	28	23	14	19	27	28	34
Full Simulation Period Average[a]	75	82	116	106	83	69	63	55	46	43	52	68
Wet Water Years (28%)	29	33	85	61	47	41	34	26	26	29	30	36
Above Normal Years (14%)	31	33	102	105	76	65	62	52	39	29	30	41
Below Normal Years (18%)	103	103	121	112	83	73	69	57	42	34	48	82
Dry Water Years (24%)	105	114	128	133	103	79	71	65	46	41	60	81
Critical Water Years (16%)	121	146	163	139	122	105	97	93	91	95	101	111

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-5c. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2	2	0	-4	3	1	-3	-5	-4	-6	-3	0
20% Exceedance	2	3	-2	2	-5	1	1	-11	-1	0	0	0
30% Exceedance	-1	-1	-3	2	0	1	-1	-9	-2	2	1	1
40% Exceedance	2	-3	-1	4	0	0	0	-6	-2	1	4	2
50% Exceedance	2	-3	-2	1	2	1	-1	-7	-3	0	4	5
60% Exceedance	2	0	0	1	3	1	-2	-7	-4	1	2	4
70% Exceedance	0	0	-2	1	2	1	-7	-12	-4	0	1	5
80% Exceedance	1	0	0	1	1	0	2	-9	-4	0	1	3
90% Exceedance	0	0	0	0	-1	1	4	0	-1	0	1	2
Full Simulation Period Average[a]	1	0	-1	0	0	1	0	-6	-3	0	1	2
Wet Water Years (28%)	0	0	-1	-1	0	-1	0	-4	-2	0	1	2
Above Normal Years (14%)	1	0	-2	-1	0	-1	-4	-13	-4	0	2	4
Below Normal Years (18%)	1	-1	-2	-1	1	1	0	-8	-3	0	3	0
Dry Water Years (24%)	2	2	2	3	1	2	0	-6	-2	1	2	4
Critical Water Years (16%)	-2	0	-7	-1	0	5	3	-1	-2	-2	-4	-3

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-6a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-6b. Banks Pumping Plant South Delta Exports Chloride, Alternative 3, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	79	106	150	143	131	120	132	127	112	94	80	74
20% Exceedance	60	92	132	132	105	101	114	112	106	86	69	54
30% Exceedance	51	82	121	123	92	90	104	102	97	82	64	44
40% Exceedance	46	76	108	106	82	81	89	97	91	77	62	41
50% Exceedance	42	65	90	83	75	72	75	88	80	72	58	38
60% Exceedance	37	52	58	65	69	68	69	70	69	65	55	36
70% Exceedance	33	38	49	57	58	58	51	54	57	58	51	35
80% Exceedance	29	33	43	49	48	44	34	30	29	40	46	33
90% Exceedance	27	29	35	35	25	20	22	16	16	26	37	31
Full Simulation Period Average[a]	47	66	88	89	78	74	77	77	73	66	58	44
Wet Water Years (28%)	33	34	43	66	49	42	36	31	32	39	44	37
Above Normal Years (14%)	35	40	54	81	71	68	70	67	64	61	55	39
Below Normal Years (18%)	43	69	111	85	81	84	88	87	81	70	60	38
Dry Water Years (24%)	50	83	106	100	93	87	94	102	95	78	58	39
Critical Water Years (16%)	84	119	149	124	105	105	114	118	111	97	84	77

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-6c. Banks Pumping Plant South Delta Exports Chloride, Alternative 3 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-41	-38	-17	-40	-16	22	38	39	32	3	-26	-40
20% Exceedance	-50	-32	-27	-24	-22	14	35	30	52	41	3	-40
30% Exceedance	-57	-36	-27	-20	-4	11	30	26	48	43	10	-40
40% Exceedance	-55	-35	-30	-23	-7	9	20	29	44	41	14	-37
50% Exceedance	-51	-34	-39	-28	-6	4	8	22	35	38	19	-26
60% Exceedance	3	12	-53	-15	3	5	6	8	26	34	22	-9
70% Exceedance	4	5	-47	-9	3	0	-7	-1	17	29	22	-1
80% Exceedance	1	2	-36	-6	9	-5	-9	-15	-5	12	18	-1
90% Exceedance	0	-1	-13	1	-1	-8	4	1	-4	0	10	-1
Full Simulation Period Average[a]	-27	-16	-29	-18	-5	6	13	16	25	23	7	-22
Wet Water Years (28%)	5	1	-42	3	2	0	2	1	4	11	15	3
Above Normal Years (14%)	4	7	-50	-25	-5	2	4	1	21	32	27	3
Below Normal Years (18%)	-59	-36	-12	-29	-1	12	19	22	36	36	14	-44
Dry Water Years (24%)	-53	-30	-20	-31	-9	10	23	32	47	39	1	-37
Critical Water Years (16%)	-38	-27	-21	-16	-17	4	20	24	18	0	-22	-38

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-7a. Banks Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	120	144	167	182	146	98	94	88	80	91	106	114
20% Exceedance	110	124	159	156	127	87	79	82	54	45	65	94
30% Exceedance	108	118	149	142	97	79	74	76	49	39	54	84
40% Exceedance	101	110	139	129	89	73	69	69	47	36	48	78
50% Exceedance	93	99	129	112	81	68	67	66	46	34	39	65
60% Exceedance	34	40	112	80	65	63	63	62	43	31	33	45
70% Exceedance	30	34	96	66	55	58	57	55	40	29	29	35
80% Exceedance	28	31	79	55	39	50	43	45	34	28	28	34
90% Exceedance	27	30	49	34	26	28	18	14	20	26	27	32
Full Simulation Period Average[a]	74	82	117	106	83	68	63	61	48	43	51	66
Wet Water Years (28%)	28	33	85	63	48	42	34	30	28	29	29	34
Above Normal Years (14%)	31	33	104	106	76	66	66	65	43	28	28	36
Below Normal Years (18%)	102	104	123	114	82	71	69	65	45	34	46	82
Dry Water Years (24%)	103	113	126	130	102	77	71	71	48	39	57	77
Critical Water Years (16%)	122	146	170	140	123	100	94	94	93	97	105	115

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-7b. Banks Pumping Plant South Delta Exports Chloride, Alternative 4, Monthly Chloride (mg/L)

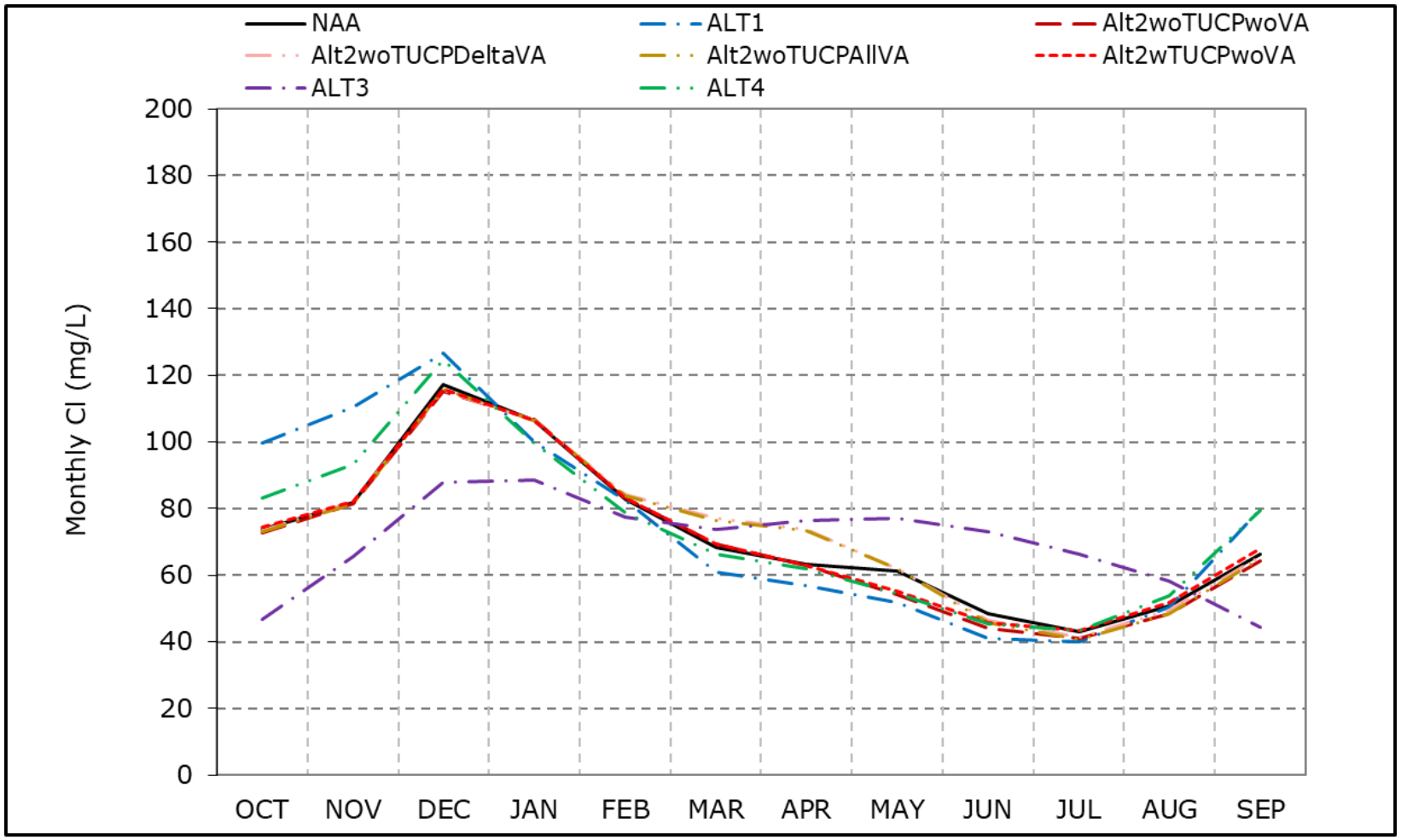
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	119	146	170	155	145	101	93	80	78	85	101	115
20% Exceedance	113	131	161	145	112	83	76	71	52	45	70	95
30% Exceedance	108	120	154	133	92	77	72	66	47	41	57	87
40% Exceedance	104	108	143	115	84	70	70	63	45	36	52	83
50% Exceedance	96	99	136	103	73	66	65	58	43	34	44	76
60% Exceedance	61	71	128	86	64	62	60	55	39	31	40	70
70% Exceedance	54	62	115	67	55	56	50	43	35	29	35	67
80% Exceedance	47	56	94	56	40	45	44	35	29	28	33	63
90% Exceedance	43	47	49	38	25	29	23	14	19	26	31	57
Full Simulation Period Average[a]	83	93	125	100	79	66	62	55	46	43	54	79
Wet Water Years (28%)	47	61	103	62	47	40	33	26	26	29	33	60
Above Normal Years (14%)	51	52	124	92	68	62	61	52	39	29	35	72
Below Normal Years (18%)	103	104	124	104	76	70	68	57	42	34	48	82
Dry Water Years (24%)	106	115	128	118	96	76	70	64	46	41	61	82
Critical Water Years (16%)	121	148	161	140	120	98	93	91	91	96	102	112

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-3-7c. Banks Pumping Plant South Delta Exports Chloride, Alternative 4 minus No Action Alternative, Monthly Chloride (mg/L)

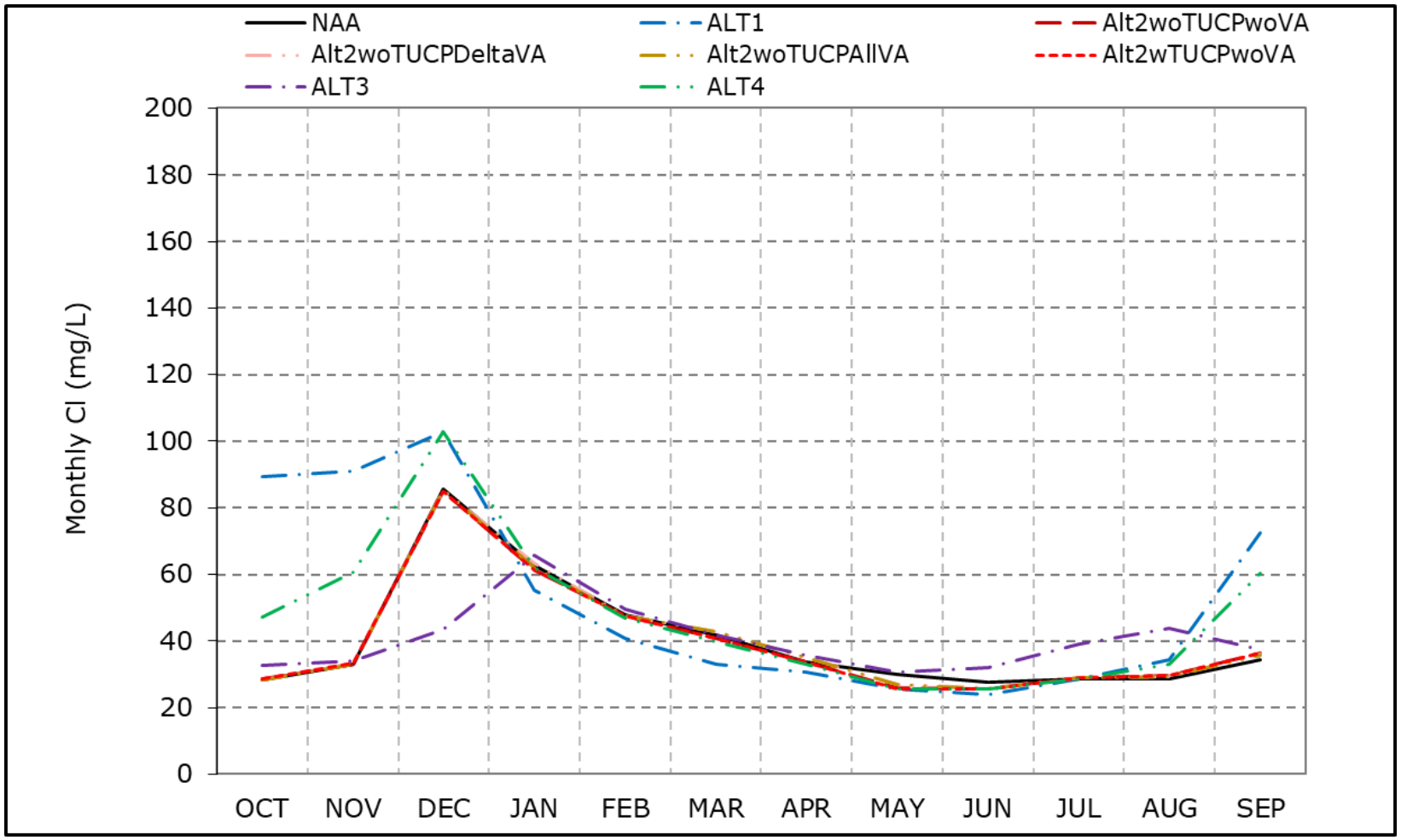
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1	2	3	-27	-2	3	-1	-8	-2	-6	-5	1
20% Exceedance	2	7	2	-11	-15	-5	-3	-11	-2	0	5	1
30% Exceedance	0	2	6	-10	-5	-3	-2	-9	-2	2	3	3
40% Exceedance	3	-2	5	-14	-5	-3	1	-6	-2	0	4	5
50% Exceedance	3	0	7	-8	-8	-2	-2	-8	-3	0	4	11
60% Exceedance	27	31	16	6	-1	-1	-3	-7	-4	1	6	25
70% Exceedance	25	28	19	2	0	-2	-7	-12	-5	0	6	31
80% Exceedance	19	25	15	1	1	-5	1	-10	-5	0	5	29
90% Exceedance	15	17	0	4	0	1	4	0	-1	0	4	25
Full Simulation Period Average[a]	9	11	7	-7	-4	-2	-1	-7	-3	0	3	13
Wet Water Years (28%)	19	28	17	-1	-1	-2	-1	-4	-2	0	4	26
Above Normal Years (14%)	20	19	20	-14	-8	-4	-5	-14	-5	0	7	35
Below Normal Years (18%)	2	0	1	-9	-6	-2	-1	-8	-3	0	2	1
Dry Water Years (24%)	3	2	2	-12	-6	-1	-1	-7	-2	1	3	5
Critical Water Years (16%)	-1	2	-10	0	-2	-2	-1	-3	-3	-2	-3	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



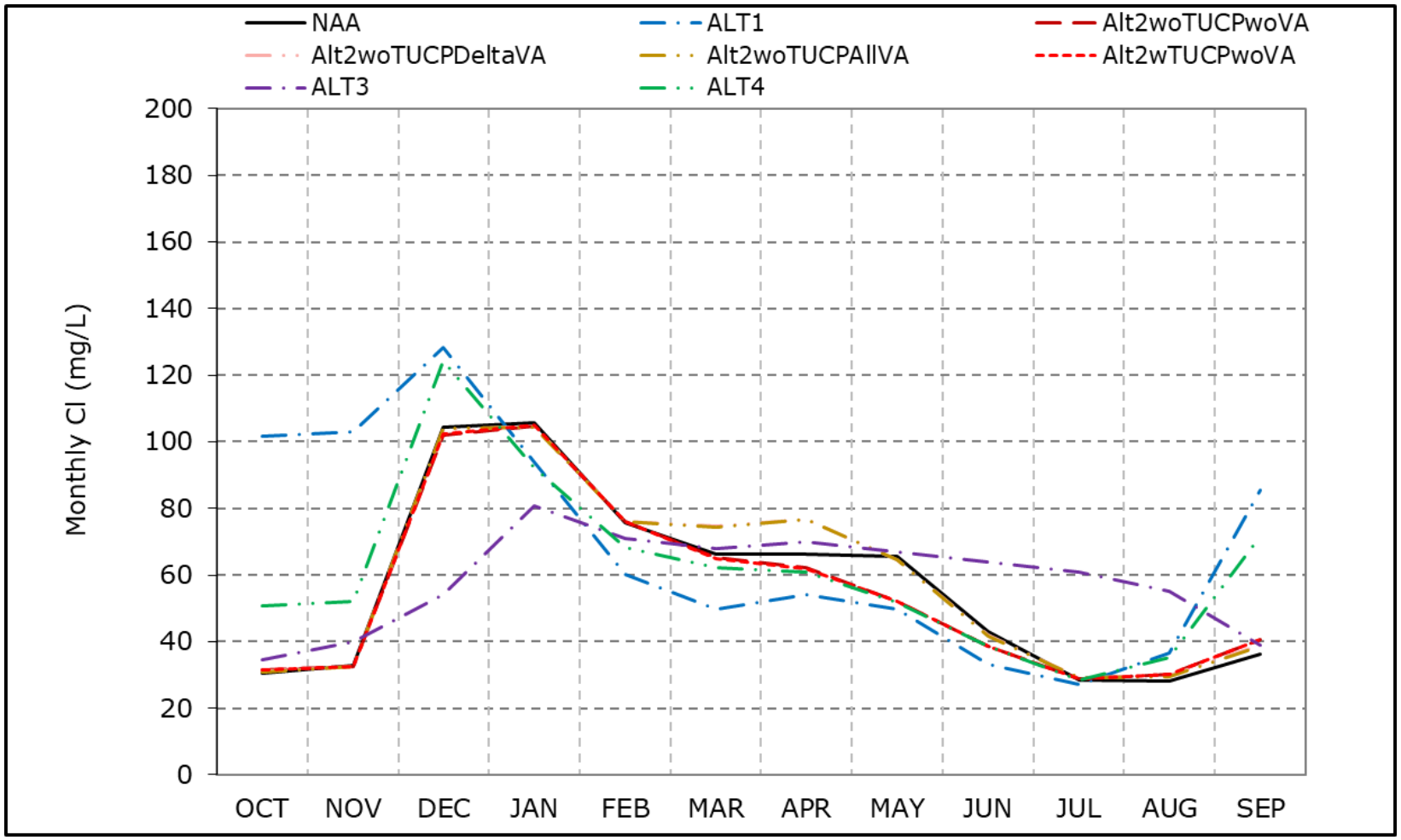
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-1. Banks Pumping Plant South Delta Exports Chloride, Long-Term Average Chloride



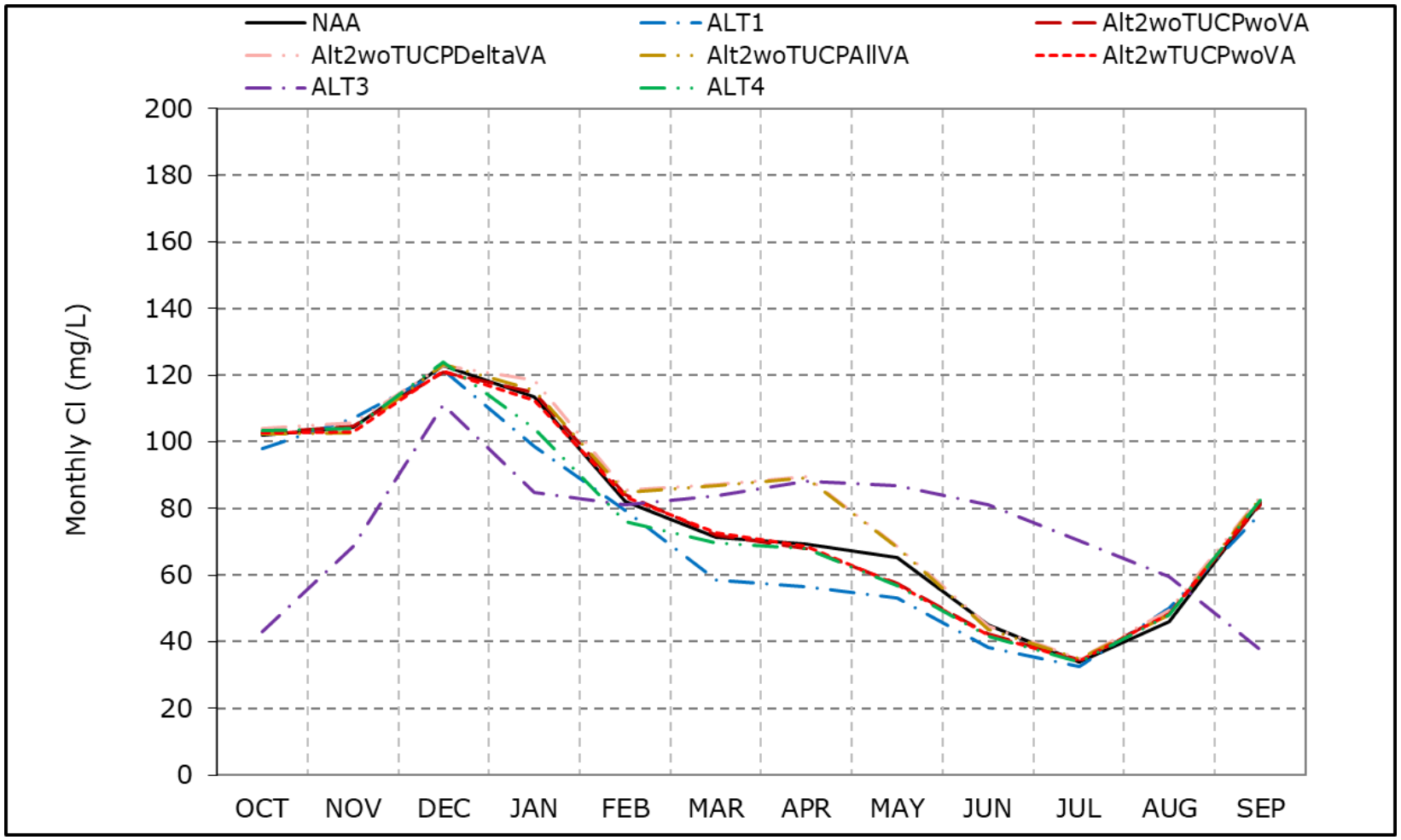
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-2. Banks Pumping Plant South Delta Exports Chloride, Wet Year Average Chloride



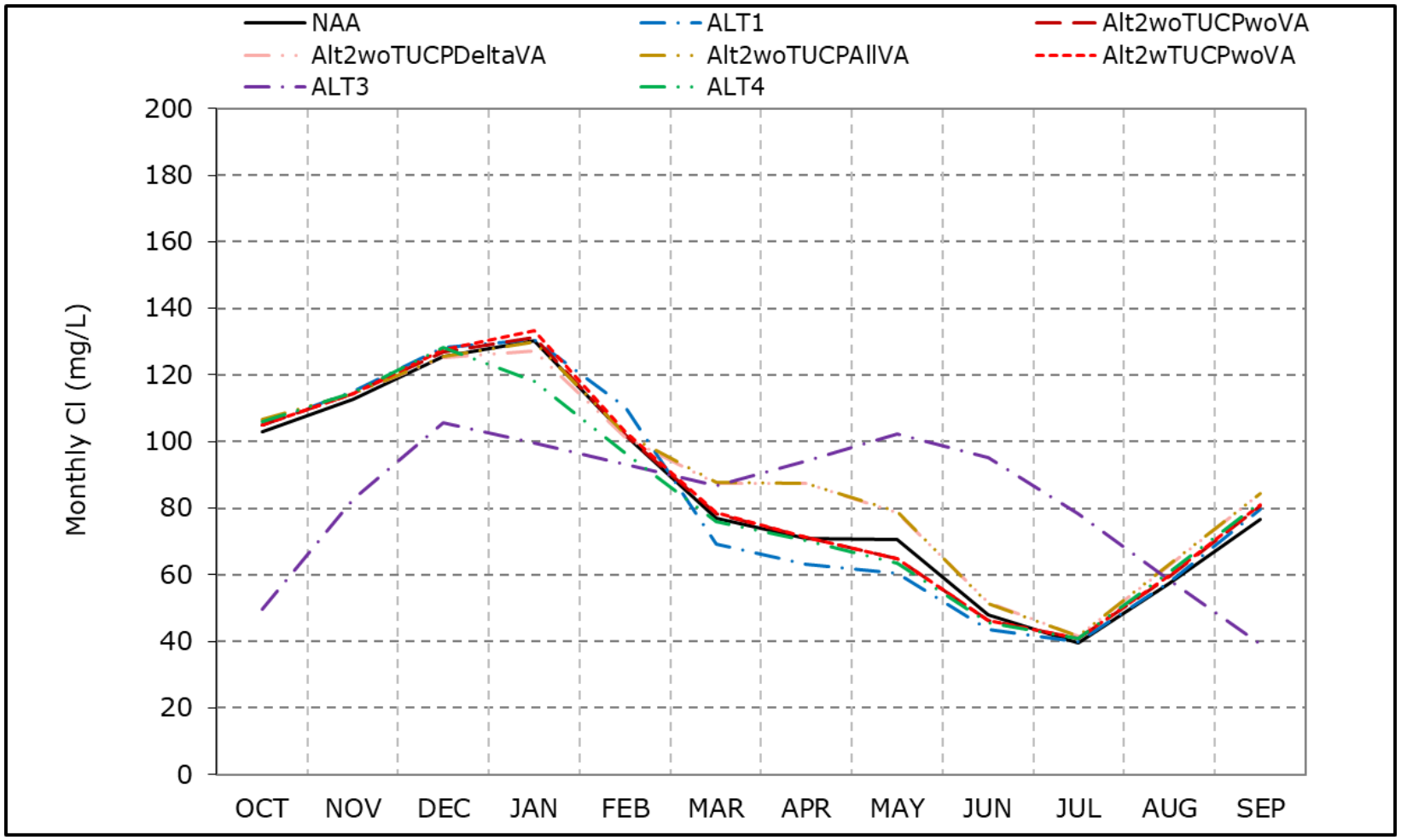
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-3. Banks Pumping Plant South Delta Exports Chloride, Above Normal Year Average Chloride



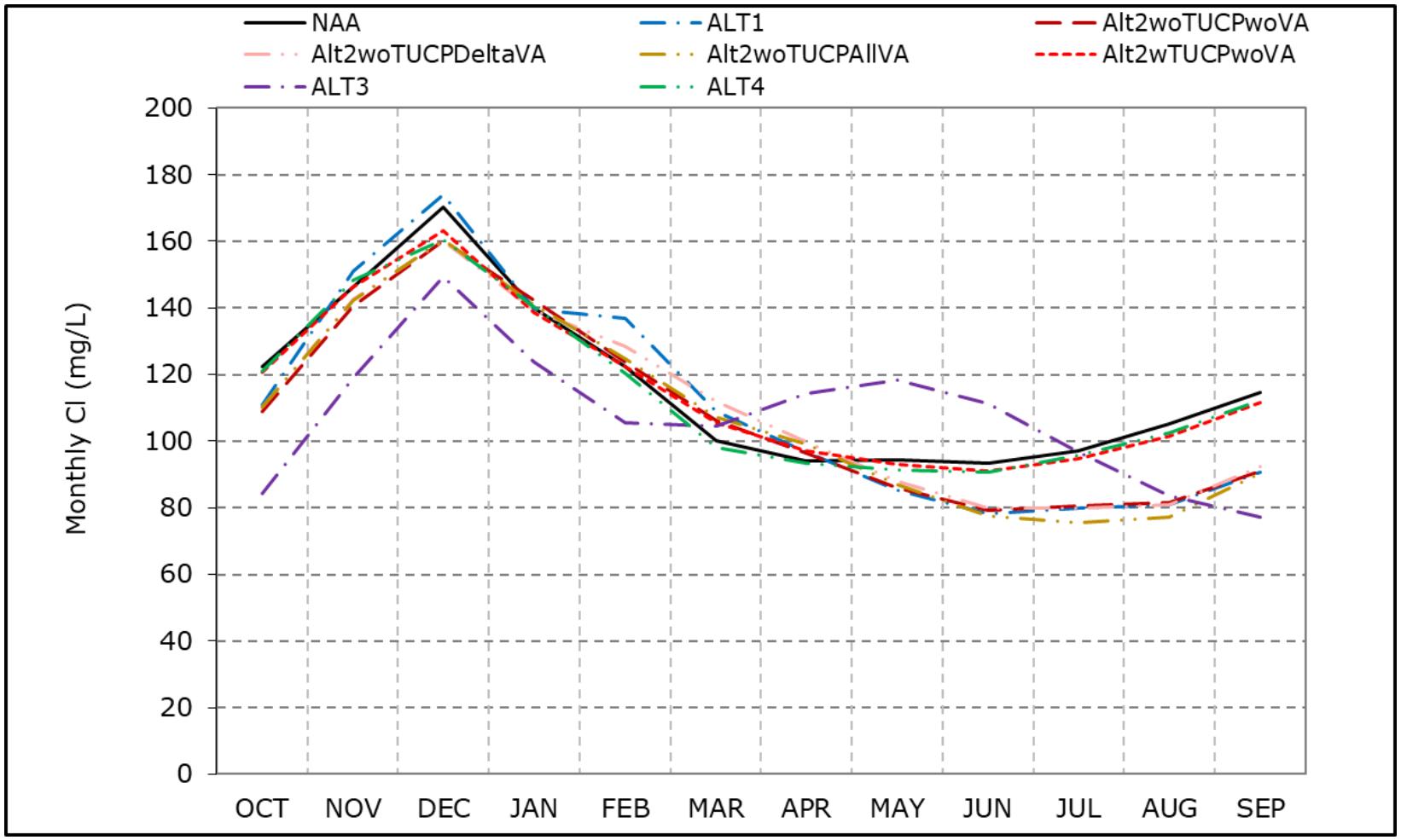
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-4. Banks Pumping Plant South Delta Exports Chloride, Below Normal Year Average Chloride



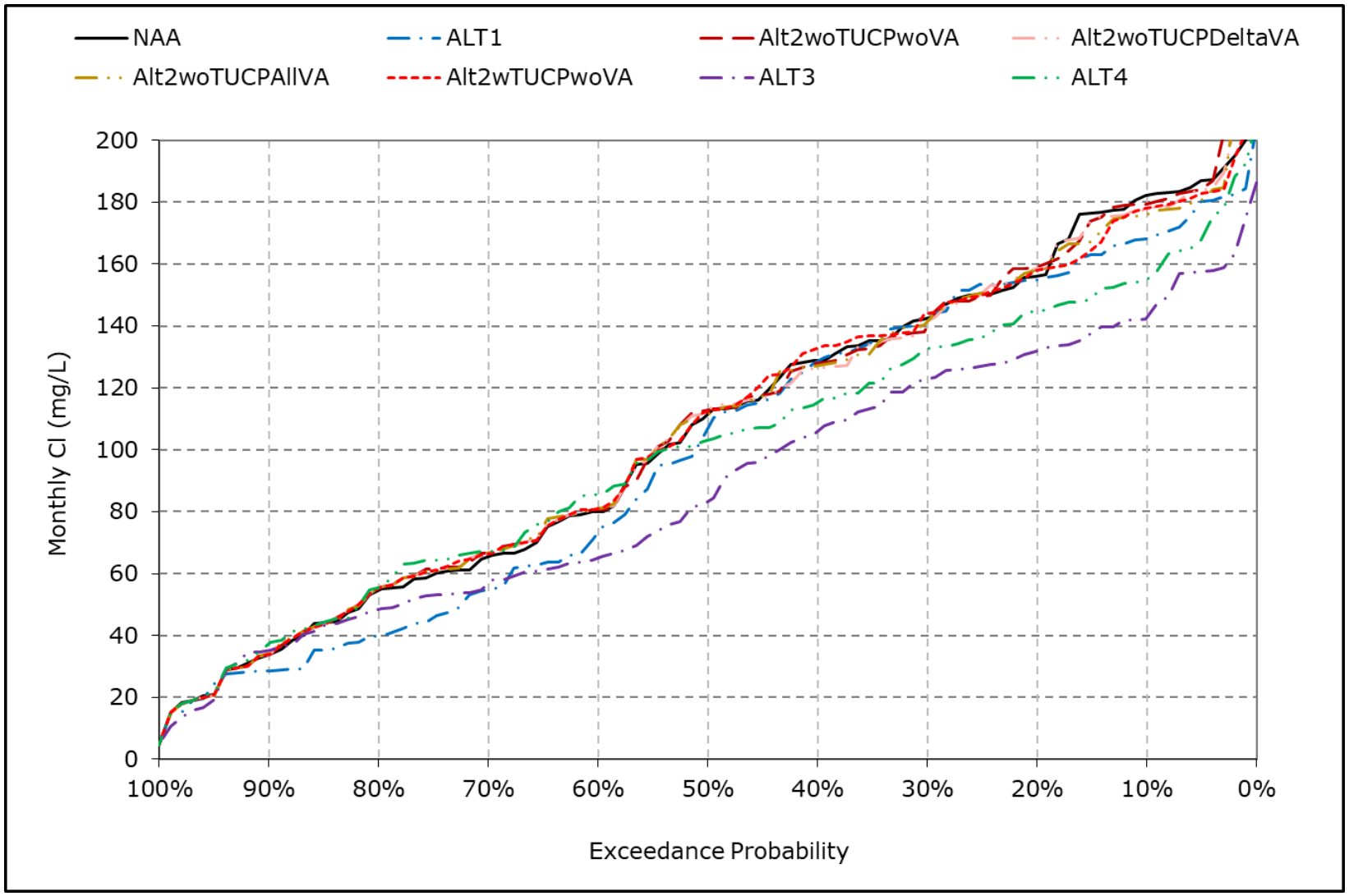
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-5. Banks Pumping Plant South Delta Exports Chloride, Dry Year Average Chloride



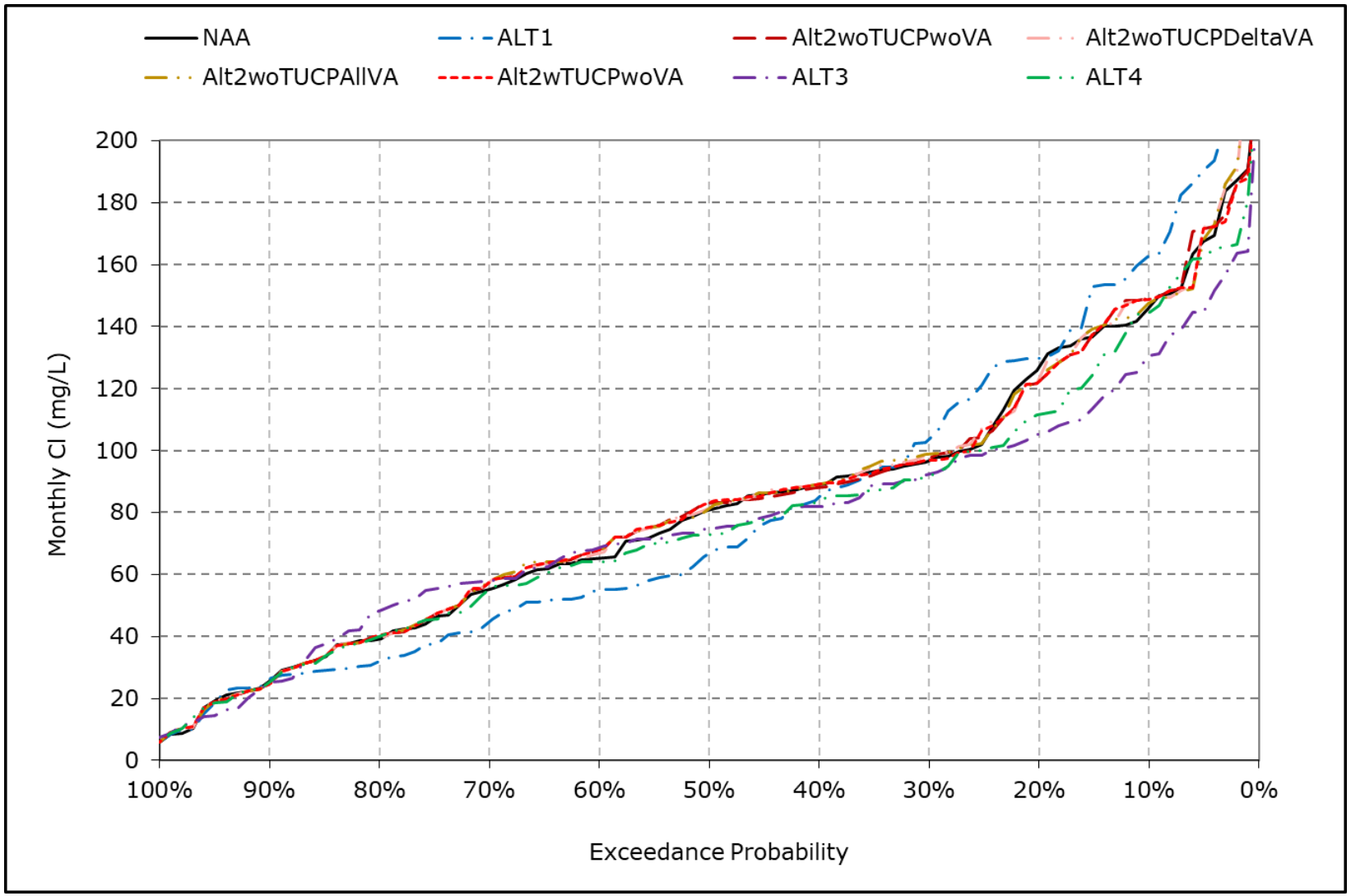
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-6. Banks Pumping Plant South Delta Exports Chloride, Critical Year Average Chloride



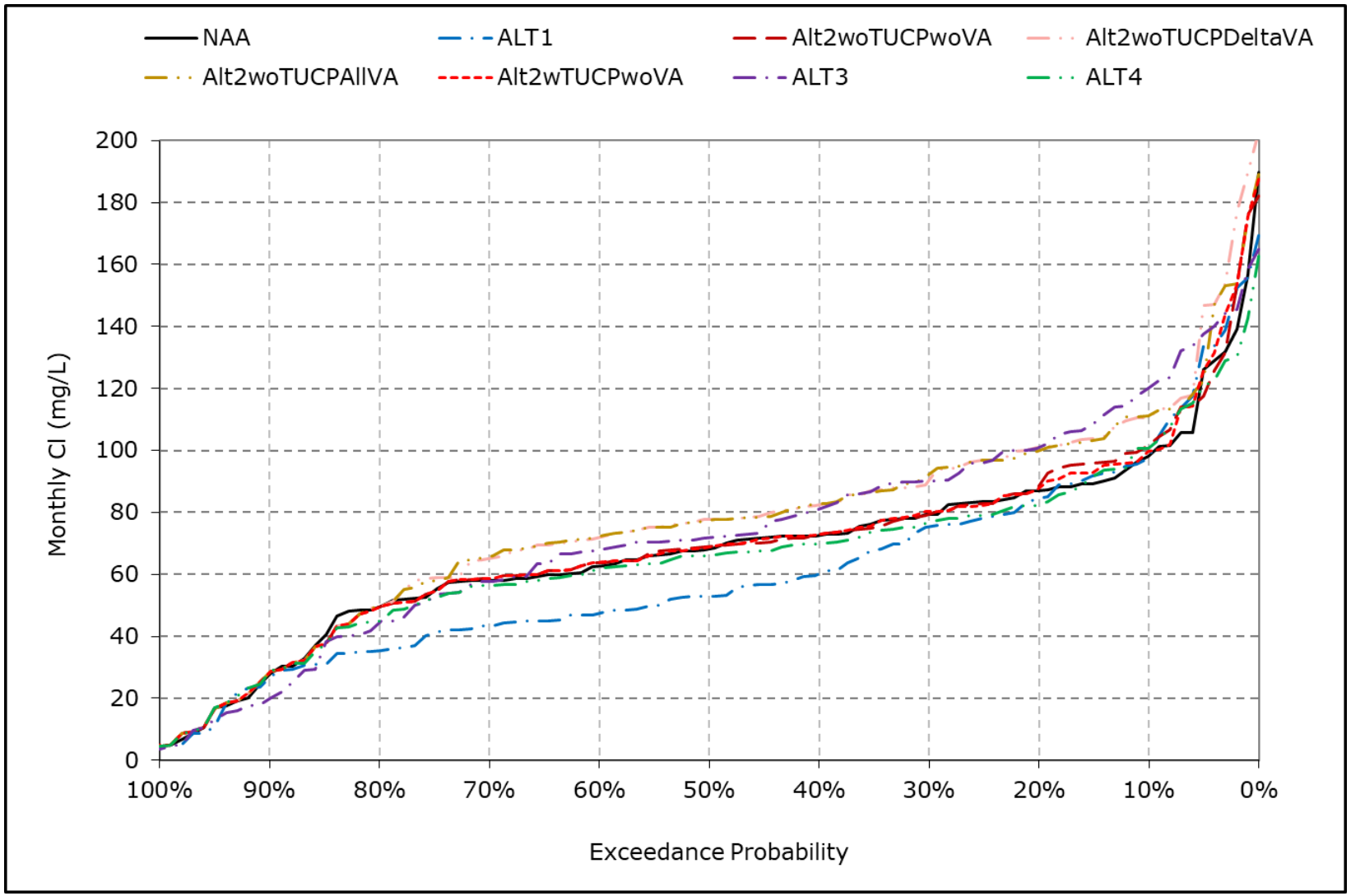
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-7. Banks Pumping Plant South Delta Exports Chloride, January Chloride



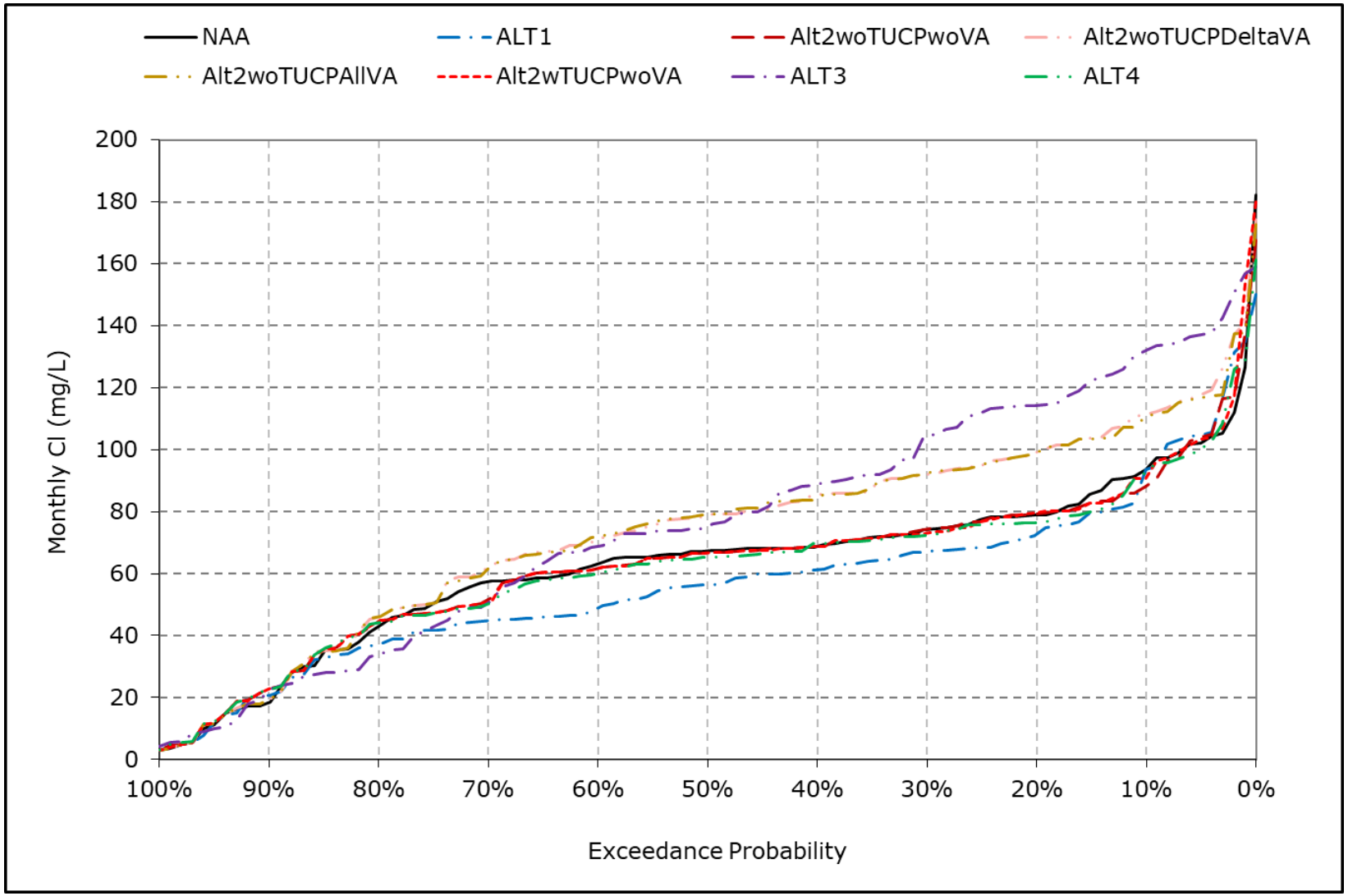
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-8. Banks Pumping Plant South Delta Exports Chloride, February Chloride



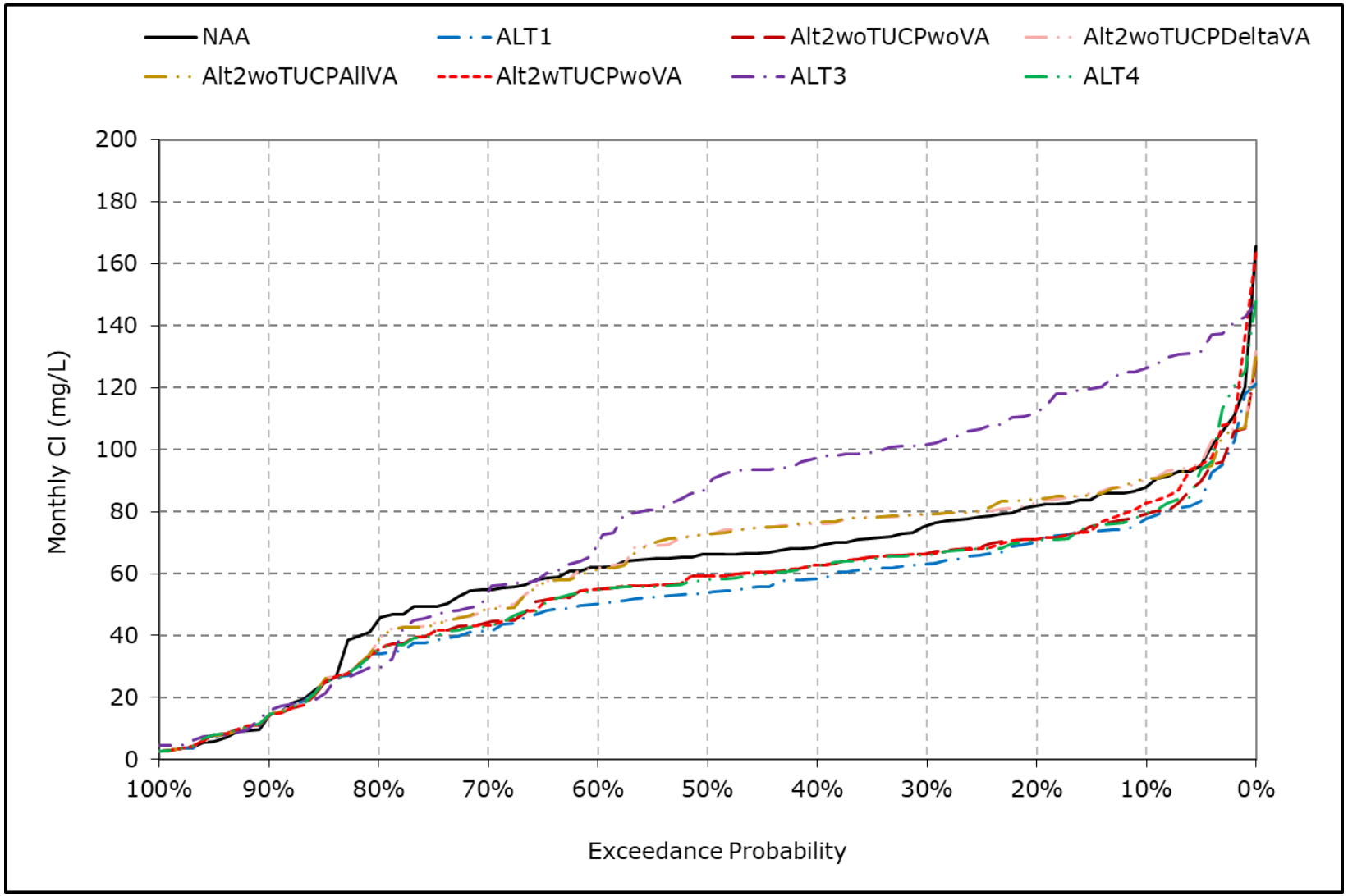
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-9. Banks Pumping Plant South Delta Exports Chloride, March Chloride



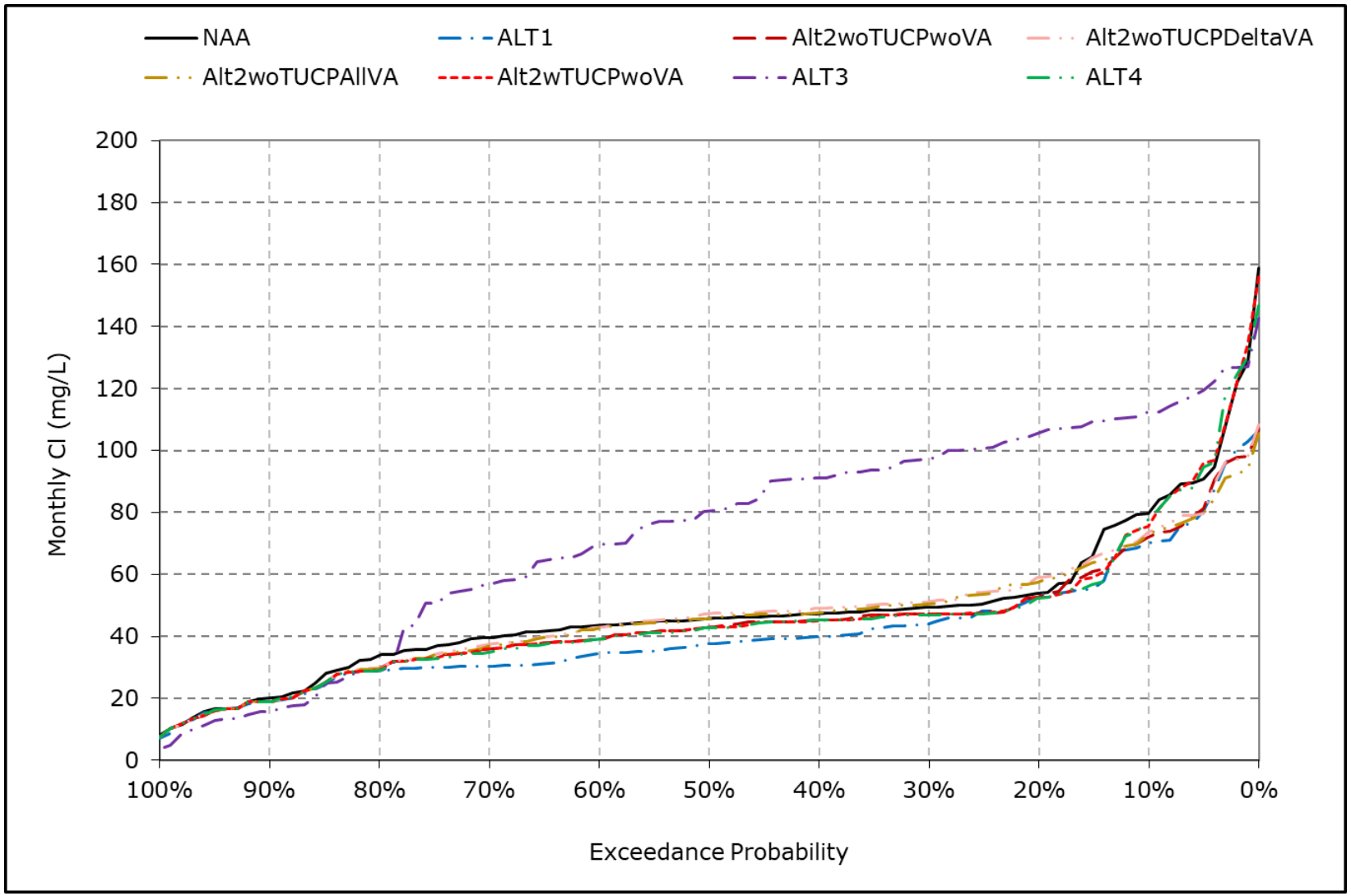
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-10. Banks Pumping Plant South Delta Exports Chloride, April Chloride



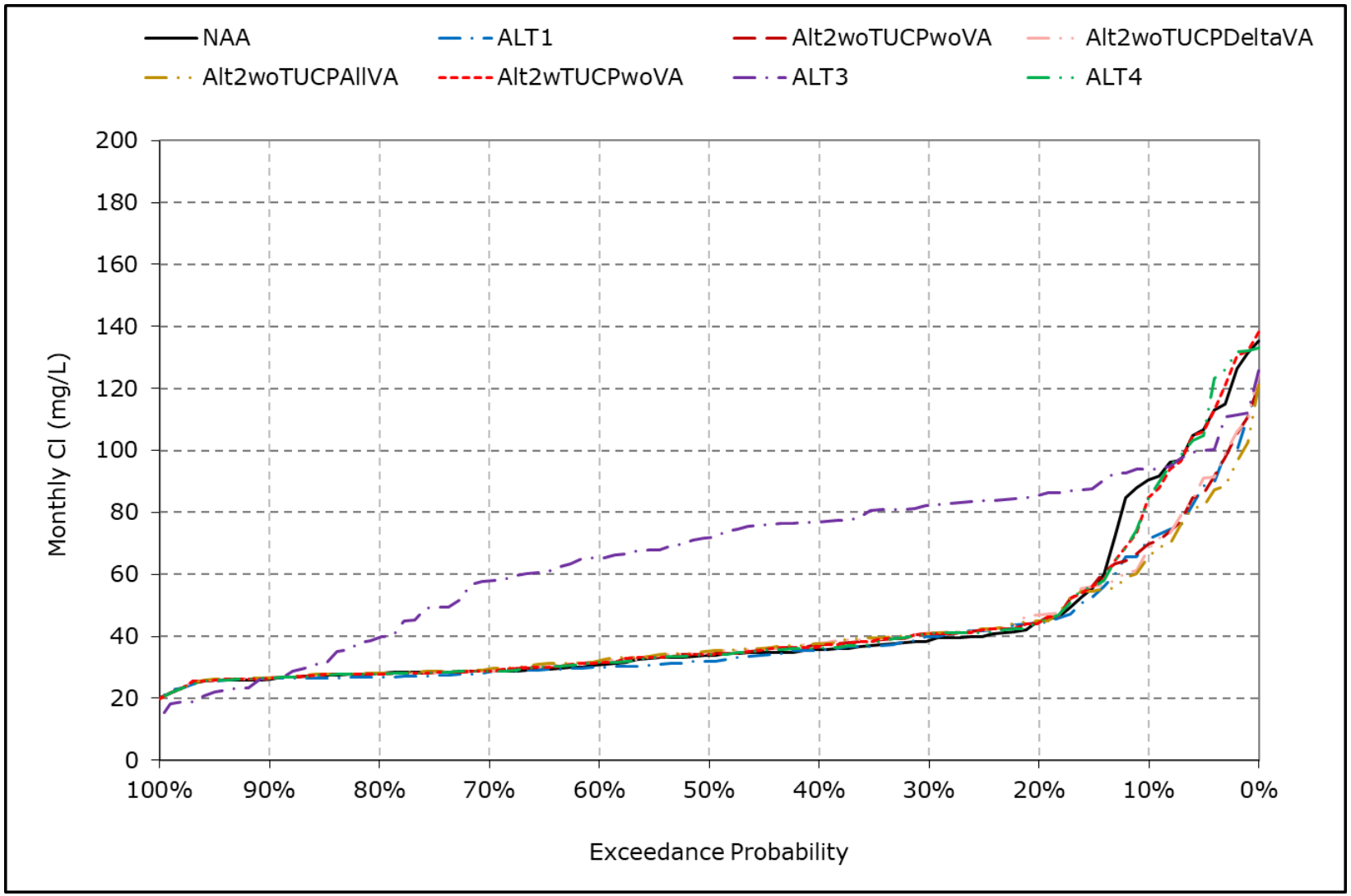
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-11. Banks Pumping Plant South Delta Exports Chloride, May Chloride



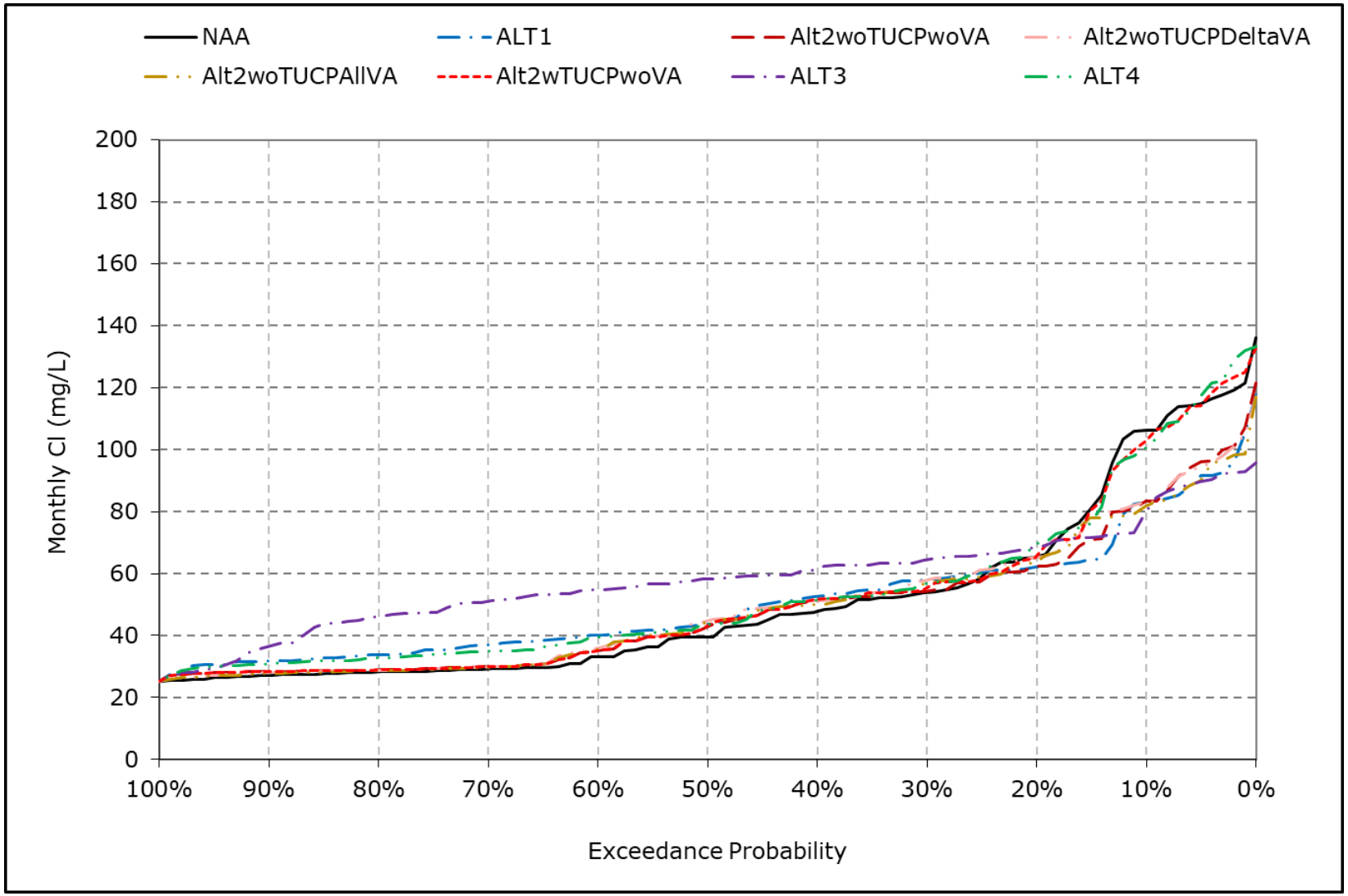
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-12. Banks Pumping Plant South Delta Exports Chloride, June Chloride



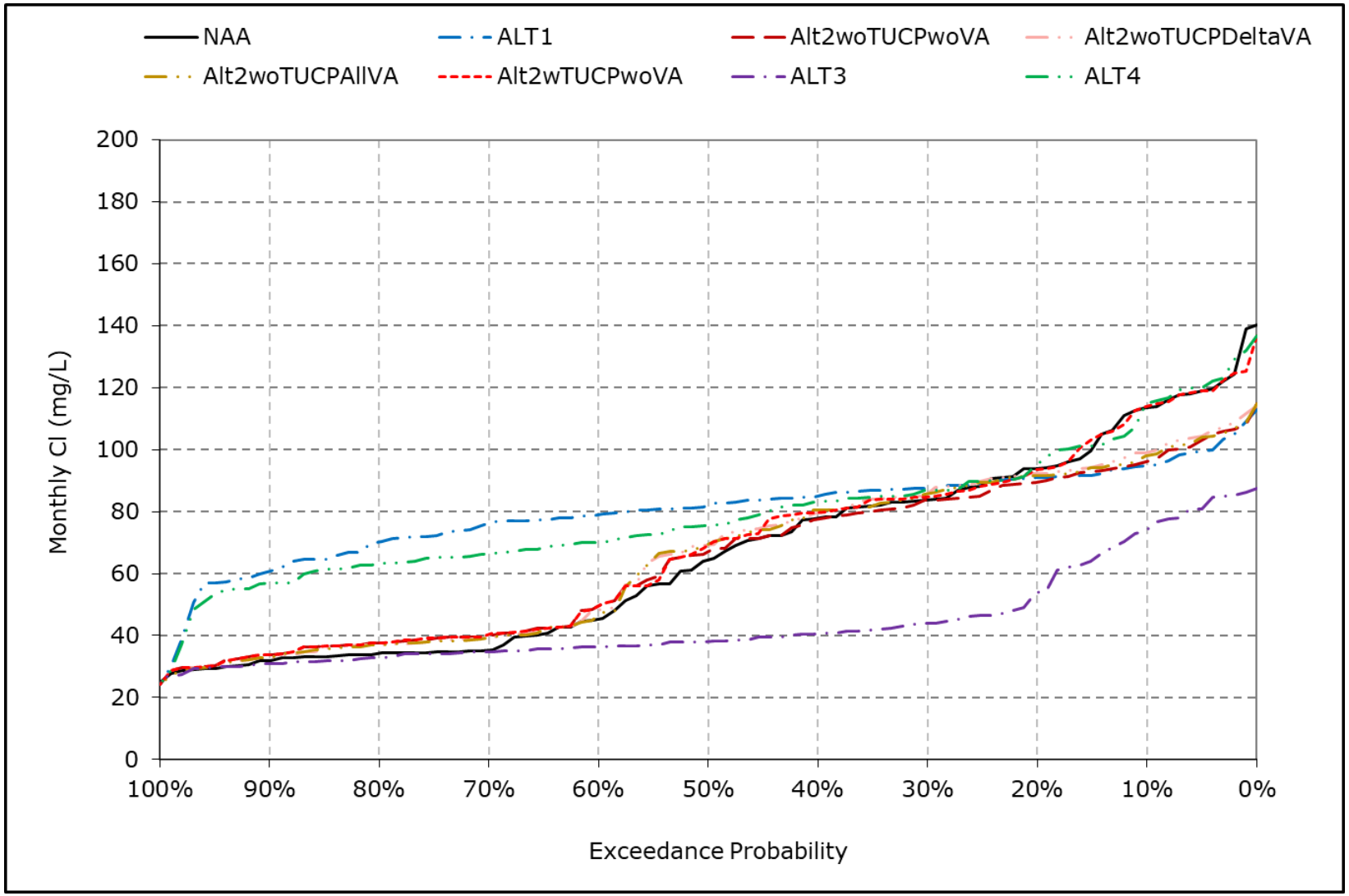
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-13. Banks Pumping Plant South Delta Exports Chloride, July Chloride



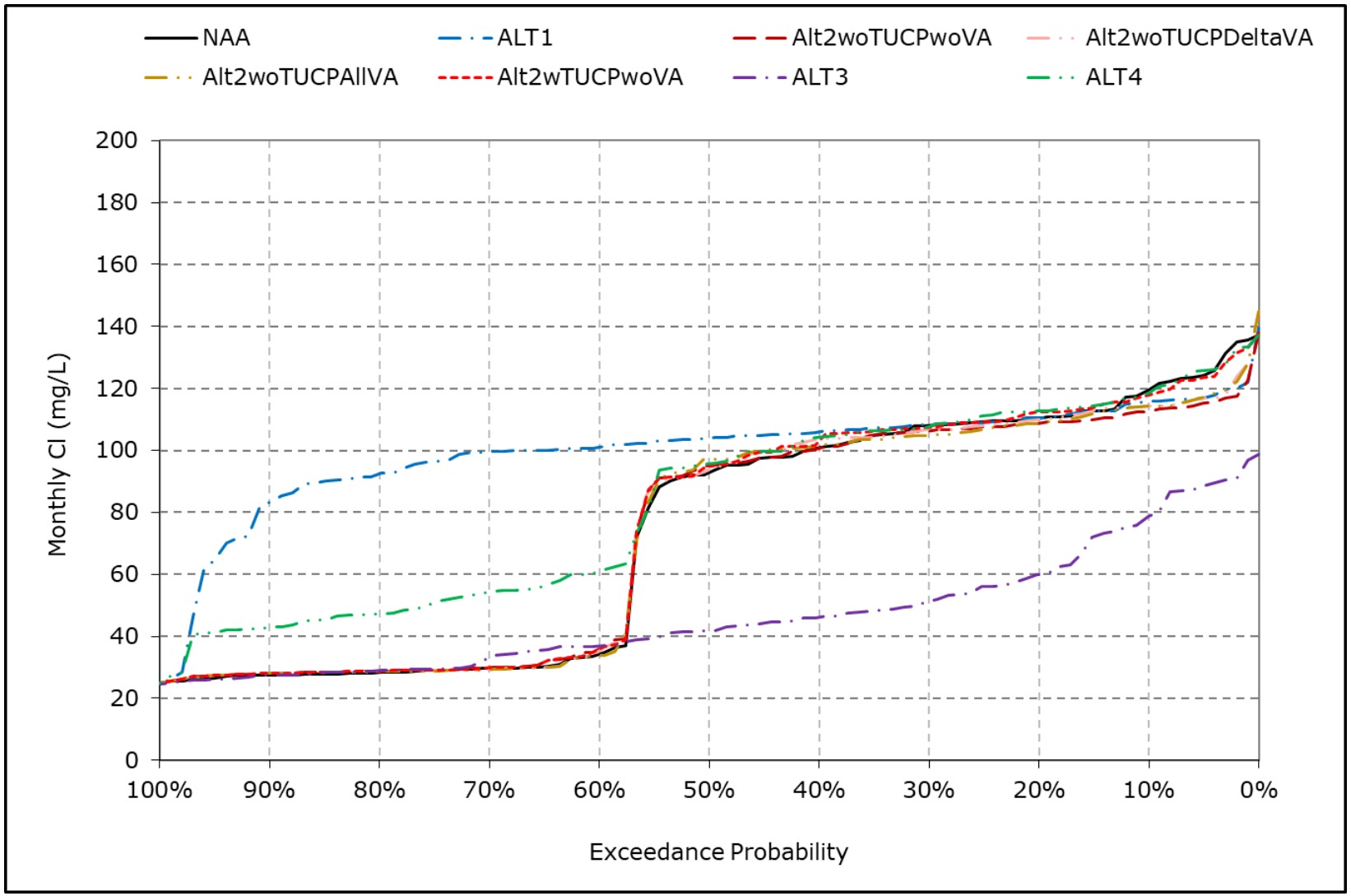
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-14. Banks Pumping Plant South Delta Exports Chloride, August Chloride



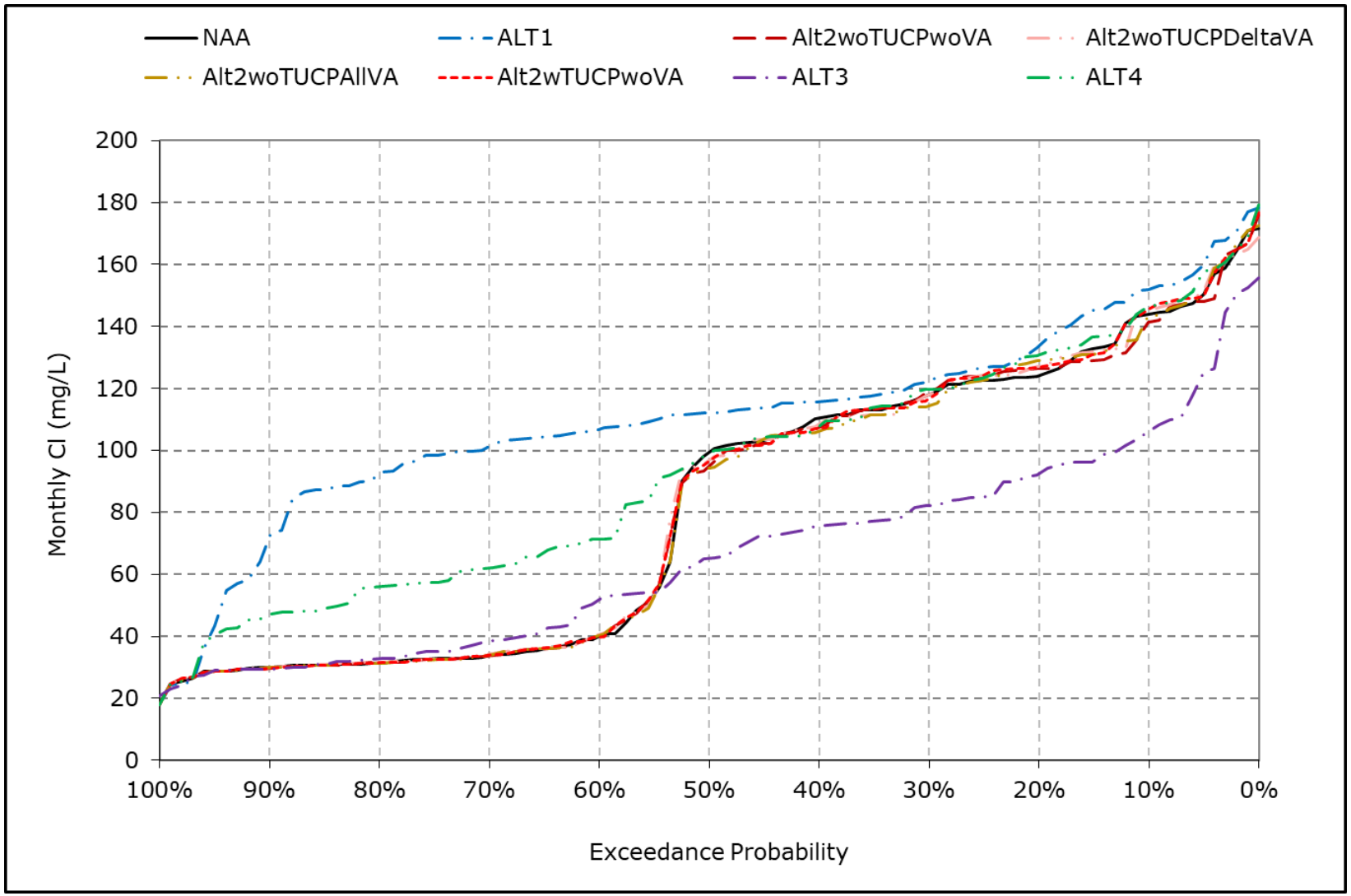
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-15. Banks Pumping Plant South Delta Exports Chloride, September Chloride



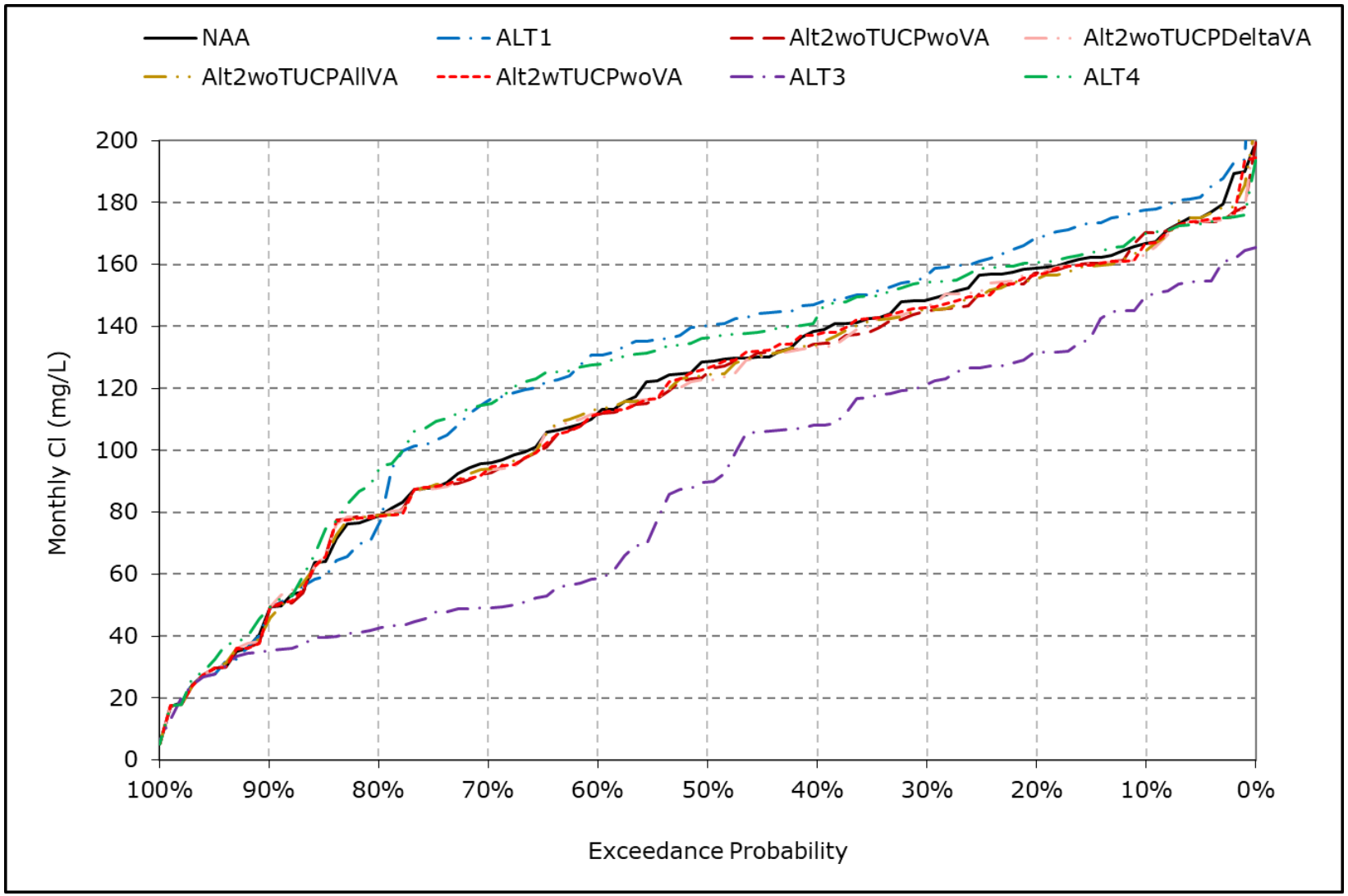
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-16. Banks Pumping Plant South Delta Exports Chloride, October Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-17. Banks Pumping Plant South Delta Exports Chloride, November Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-3-18. Banks Pumping Plant South Delta Exports Chloride, December Chloride

Table F.2.7-4-1a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-1b. Jones Pumping Plant South Delta Exports Chloride, Alternative 1, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	130	166	177	168	164	139	115	94	86	82	89	104
20% Exceedance	125	153	167	159	139	123	104	81	68	62	78	99
30% Exceedance	120	138	162	149	125	110	98	77	59	60	73	97
40% Exceedance	117	130	153	139	111	97	94	74	53	55	70	95
50% Exceedance	114	126	149	120	97	89	88	69	51	51	61	92
60% Exceedance	110	120	141	96	85	79	72	57	48	49	58	91
70% Exceedance	108	116	124	86	76	58	51	46	46	46	55	88
80% Exceedance	104	109	96	64	43	49	37	27	42	44	54	81
90% Exceedance	90	86	66	39	19	22	18	7	25	41	52	75
Full Simulation Period Average[a]	112	125	135	112	97	86	74	59	53	56	66	91
Wet Water Years (28%)	96	104	111	73	53	41	32	24	34	49	53	81
Above Normal Years (14%)	109	117	142	110	83	71	68	55	46	45	56	94
Below Normal Years (18%)	111	124	132	113	99	88	78	63	53	51	67	89
Dry Water Years (24%)	119	129	137	137	125	107	97	75	56	54	72	92
Critical Water Years (16%)	133	165	172	145	144	143	117	95	89	86	88	104

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-1c. Jones Pumping Plant South Delta Exports Chloride, Alternative 1 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	9	9	-2	8	2	-6	-5	-9	-20	-23	-13
20% Exceedance	0	7	5	0	0	-2	-8	-7	4	0	-1	-2
30% Exceedance	2	7	5	-3	3	-8	-7	-7	0	4	5	4
40% Exceedance	0	7	0	2	-3	-17	-8	-8	-4	2	7	5
50% Exceedance	4	13	5	-1	-8	-19	-10	-8	-4	0	3	12
60% Exceedance	43	47	7	-14	-12	-16	-1	-6	-5	1	6	34
70% Exceedance	48	53	8	-8	-9	-8	-1	-4	-5	0	8	36
80% Exceedance	49	50	-1	-12	-7	-3	-1	-2	-4	0	9	30
90% Exceedance	40	30	-5	0	0	-3	1	1	-2	1	10	27
Full Simulation Period Average[a]	19	23	4	-4	-2	-6	-5	-5	-4	-2	1	12
Wet Water Years (28%)	42	43	7	-5	-6	-5	0	-1	-2	1	7	31
Above Normal Years (14%)	46	56	12	-9	-12	-14	-4	-6	-5	-2	11	43
Below Normal Years (18%)	-2	5	-1	-9	-2	-15	-7	-6	-2	1	6	-2
Dry Water Years (24%)	0	2	1	2	2	-7	-8	-7	0	3	2	4
Critical Water Years (16%)	2	7	3	0	8	8	-7	-8	-12	-17	-24	-17

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-2a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-2b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	130	160	168	170	156	140	116	95	84	81	91	103
20% Exceedance	125	146	161	157	136	129	110	84	67	62	75	99
30% Exceedance	121	132	155	151	126	120	105	81	61	59	68	94
40% Exceedance	117	123	152	135	114	115	101	80	58	55	66	89
50% Exceedance	110	112	142	124	108	109	96	72	56	51	60	82
60% Exceedance	70	72	132	111	98	93	75	61	54	49	53	59
70% Exceedance	60	64	113	95	87	65	53	48	51	47	50	55
80% Exceedance	56	59	99	78	50	51	38	27	45	44	47	53
90% Exceedance	51	56	70	39	19	24	17	7	28	40	43	49
Full Simulation Period Average[a]	94	103	129	116	99	94	78	61	56	56	63	77
Wet Water Years (28%)	54	61	103	77	58	46	33	24	36	49	48	51
Above Normal Years (14%)	64	61	128	121	96	84	71	56	52	46	47	54
Below Normal Years (18%)	114	119	132	123	102	102	85	67	56	51	63	90
Dry Water Years (24%)	121	129	137	134	124	115	104	80	58	54	72	92
Critical Water Years (16%)	132	163	163	146	137	144	117	94	89	85	86	103

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-2c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	3	0	-1	1	2	-5	-3	-11	-21	-21	-14
20% Exceedance	1	0	-2	-2	-2	3	-2	-4	4	0	-4	-2
30% Exceedance	2	1	-1	-1	3	2	-1	-2	1	3	0	1
40% Exceedance	0	-1	-2	-2	-1	1	-1	-1	1	2	3	0
50% Exceedance	0	-1	-2	2	3	1	-1	-5	1	0	2	2
60% Exceedance	2	0	-2	0	1	-2	2	-3	1	0	2	3
70% Exceedance	0	1	-3	1	2	-1	0	-2	0	1	3	3
80% Exceedance	1	0	1	2	0	-1	0	-1	-1	1	3	2
90% Exceedance	1	0	-2	0	0	-2	0	0	0	0	2	0
Full Simulation Period Average[a]	1	1	-1	0	0	1	-1	-3	-1	-2	-2	-1
Wet Water Years (28%)	0	0	-1	0	-1	0	0	-1	0	1	2	1
Above Normal Years (14%)	1	0	-2	1	0	0	-1	-4	0	-1	3	3
Below Normal Years (18%)	1	0	-1	1	1	-1	0	-2	1	1	2	-1
Dry Water Years (24%)	1	2	1	0	1	1	0	-2	2	2	3	4
Critical Water Years (16%)	1	4	-6	0	1	10	-7	-8	-12	-19	-27	-19

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-3a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-3b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	132	160	168	168	157	160	127	98	85	81	90	106
20% Exceedance	125	150	160	160	138	151	119	92	67	63	77	102
30% Exceedance	122	134	157	147	128	139	114	87	62	59	71	96
40% Exceedance	117	120	152	133	115	129	110	84	60	55	66	91
50% Exceedance	111	113	141	124	107	118	101	78	58	51	62	85
60% Exceedance	68	73	132	111	99	98	77	64	56	49	53	59
70% Exceedance	59	65	114	95	88	68	53	50	53	47	50	55
80% Exceedance	57	59	98	79	50	51	38	28	46	44	47	53
90% Exceedance	51	56	70	39	19	24	17	7	28	41	43	49
Full Simulation Period Average[a]	94	104	129	116	101	103	83	64	57	56	63	78
Wet Water Years (28%)	54	62	103	78	58	48	33	25	36	49	48	51
Above Normal Years (14%)	63	61	129	121	96	94	76	61	53	47	47	54
Below Normal Years (18%)	115	120	133	125	102	122	92	71	57	52	64	92
Dry Water Years (24%)	121	130	135	132	124	130	114	86	60	54	75	95
Critical Water Years (16%)	133	164	163	145	143	147	118	95	89	84	86	103

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-3c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3	2	0	-2	2	22	6	0	-11	-21	-22	-11
20% Exceedance	1	4	-2	1	0	26	7	4	4	1	-2	1
30% Exceedance	3	3	0	-5	5	20	9	4	3	3	3	3
40% Exceedance	0	-4	-2	-3	0	16	8	3	3	2	3	1
50% Exceedance	1	0	-3	2	3	10	4	1	2	0	4	4
60% Exceedance	0	0	-3	0	2	3	5	1	3	1	2	2
70% Exceedance	-1	2	-2	1	3	2	0	0	2	1	3	3
80% Exceedance	1	1	1	2	0	-1	0	-1	1	1	3	2
90% Exceedance	1	0	-1	0	0	-2	0	0	0	0	1	0
Full Simulation Period Average[a]	1	2	-1	0	2	11	4	0	0	-2	-2	0
Wet Water Years (28%)	0	0	-1	1	-1	2	1	0	1	2	1	1
Above Normal Years (14%)	0	0	-1	2	0	9	5	0	1	0	2	3
Below Normal Years (18%)	2	1	0	3	2	19	7	2	2	2	4	1
Dry Water Years (24%)	2	2	-1	-2	1	16	10	4	4	2	5	6
Critical Water Years (16%)	2	6	-5	0	7	13	-5	-7	-12	-19	-27	-18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-4a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-4b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAllVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	132	159	170	169	151	160	127	98	84	76	88	105
20% Exceedance	125	146	160	160	138	151	119	93	67	63	75	101
30% Exceedance	122	133	157	147	127	138	115	87	61	59	71	96
40% Exceedance	117	119	151	135	115	132	110	84	59	57	66	90
50% Exceedance	111	112	140	125	107	120	101	77	57	52	62	85
60% Exceedance	68	72	132	112	99	98	74	64	55	49	54	58
70% Exceedance	60	65	114	95	87	68	53	49	53	48	50	55
80% Exceedance	56	59	98	79	50	51	38	28	46	46	47	53
90% Exceedance	51	56	70	39	19	24	17	7	28	42	42	49
Full Simulation Period Average[a]	94	103	129	116	100	103	83	64	56	56	63	77
Wet Water Years (28%)	54	61	103	78	58	48	33	25	36	50	48	51
Above Normal Years (14%)	63	61	130	121	95	93	76	61	52	48	46	53
Below Normal Years (18%)	114	118	133	124	102	122	92	71	56	52	63	91
Dry Water Years (24%)	121	129	135	134	124	130	114	87	60	55	75	95
Critical Water Years (16%)	134	164	164	146	137	147	118	94	86	80	84	102

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-4c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAllVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4	2	2	-2	-4	22	6	0	-11	-26	-25	-12
20% Exceedance	0	0	-3	1	-1	26	7	5	3	1	-3	0
30% Exceedance	3	2	0	-5	5	19	9	4	2	3	3	3
40% Exceedance	0	-4	-2	-1	0	18	8	3	2	4	3	0
50% Exceedance	1	0	-4	3	2	12	4	1	1	1	4	5
60% Exceedance	0	0	-2	2	2	4	2	1	2	1	2	2
70% Exceedance	0	1	-2	1	2	2	0	-1	2	2	2	3
80% Exceedance	1	1	1	2	0	-1	0	-1	0	2	2	2
90% Exceedance	0	0	-1	0	0	-1	0	0	0	2	0	0
Full Simulation Period Average[a]	1	1	-1	0	1	11	4	0	-1	-2	-2	-1
Wet Water Years (28%)	0	0	-1	0	-1	1	0	0	0	2	1	1
Above Normal Years (14%)	0	0	0	1	0	9	4	1	1	1	2	2
Below Normal Years (18%)	1	-1	0	1	2	19	7	2	1	2	3	1
Dry Water Years (24%)	2	1	-1	0	1	17	10	5	3	3	6	6
Critical Water Years (16%)	3	5	-4	1	2	13	-6	-8	-15	-23	-29	-19

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-5a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-5b. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	130	159	168	169	156	140	122	97	90	103	112	115
20% Exceedance	126	145	162	155	137	127	111	84	67	64	78	100
30% Exceedance	120	132	156	151	127	119	105	81	61	59	70	94
40% Exceedance	117	120	152	140	115	114	101	80	58	55	66	90
50% Exceedance	110	110	142	124	108	109	96	72	56	51	60	84
60% Exceedance	70	72	132	112	98	93	72	61	54	49	53	60
70% Exceedance	60	64	114	95	87	65	52	47	51	47	49	54
80% Exceedance	56	59	98	78	50	51	38	27	45	44	47	53
90% Exceedance	51	56	70	39	19	24	17	7	28	40	43	49
Full Simulation Period Average[a]	94	103	129	116	100	93	79	62	58	59	66	79
Wet Water Years (28%)	54	61	103	77	58	46	33	24	36	49	48	51
Above Normal Years (14%)	63	61	129	121	95	83	70	56	52	46	47	54
Below Normal Years (18%)	114	118	132	122	101	104	85	67	56	51	63	90
Dry Water Years (24%)	121	129	136	136	124	115	104	80	58	54	73	93
Critical Water Years (16%)	130	161	164	144	137	139	122	100	101	101	109	119

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-5c. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	2	0	-1	1	2	1	-1	-5	1	0	-2
20% Exceedance	1	-1	0	-4	-2	2	-2	-4	3	2	0	0
30% Exceedance	1	1	-1	-1	4	1	-1	-2	1	3	2	1
40% Exceedance	0	-4	-2	3	0	0	-1	-2	2	2	3	0
50% Exceedance	0	-2	-2	2	3	1	-2	-5	1	0	3	3
60% Exceedance	2	0	-2	1	1	-2	0	-3	1	1	1	3
70% Exceedance	0	1	-2	1	2	-1	0	-4	0	1	2	2
80% Exceedance	1	0	1	2	0	-1	0	-1	-1	1	3	2
90% Exceedance	1	0	-2	0	0	-2	0	0	0	0	2	0
Full Simulation Period Average[a]	1	0	-1	0	0	1	0	-2	1	1	1	1
Wet Water Years (28%)	0	0	-1	0	-1	-1	0	-1	0	1	2	1
Above Normal Years (14%)	0	0	-1	1	0	-1	-1	-4	0	-1	3	3
Below Normal Years (18%)	1	-1	-1	0	1	1	0	-2	1	1	2	0
Dry Water Years (24%)	1	1	1	2	1	1	0	-2	2	2	3	4
Critical Water Years (16%)	-1	2	-4	-1	1	5	-1	-2	0	-2	-4	-3

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-6a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-6b. Jones Pumping Plant South Delta Exports Chloride, Alternative 3, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	110	146	178	163	157	172	138	117	104	86	81	77
20% Exceedance	89	123	165	150	146	157	135	112	100	79	66	61
30% Exceedance	82	113	159	134	129	135	132	107	94	74	56	50
40% Exceedance	79	107	149	127	117	118	112	90	89	70	54	48
50% Exceedance	75	93	135	120	110	105	95	70	83	63	50	46
60% Exceedance	71	88	116	108	100	91	71	63	79	58	48	44
70% Exceedance	65	79	94	97	91	63	50	48	68	55	46	43
80% Exceedance	60	70	84	81	46	45	34	23	49	51	44	41
90% Exceedance	53	57	71	47	20	22	14	5	24	45	39	40
Full Simulation Period Average[a]	77	98	126	112	102	100	85	70	74	65	55	52
Wet Water Years (28%)	60	69	86	82	59	46	31	23	40	63	59	50
Above Normal Years (14%)	69	81	119	119	93	88	67	58	72	67	56	51
Below Normal Years (18%)	76	95	143	117	115	116	91	77	79	67	51	46
Dry Water Years (24%)	79	109	137	126	125	125	122	97	93	55	42	43
Critical Water Years (16%)	110	153	170	135	134	150	136	114	102	76	68	75

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-6c. Jones Pumping Plant South Delta Exports Chloride, Alternative 3 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-18	-11	10	-7	2	34	17	18	9	-16	-31	-40
20% Exceedance	-36	-23	2	-9	7	32	23	23	37	17	-12	-39
30% Exceedance	-37	-18	2	-17	7	17	26	24	35	18	-12	-43
40% Exceedance	-38	-17	-5	-10	2	4	9	9	32	17	-9	-42
50% Exceedance	-35	-19	-9	-2	6	-2	-2	-7	28	12	-7	-34
60% Exceedance	3	15	-18	-2	3	-4	-2	0	26	10	-4	-12
70% Exceedance	5	16	-22	3	6	-3	-3	-2	17	9	-2	-9
80% Exceedance	5	11	-13	5	-5	-7	-3	-6	4	8	-1	-9
90% Exceedance	3	1	0	8	0	-3	-3	-2	-4	4	-3	-9
Full Simulation Period Average[a]	-16	-4	-4	-4	3	8	6	6	17	7	-10	-27
Wet Water Years (28%)	7	8	-18	4	0	-1	-2	-2	4	15	13	0
Above Normal Years (14%)	6	20	-11	0	-2	3	-5	-3	21	20	12	0
Below Normal Years (18%)	-37	-24	10	-5	15	13	6	8	25	17	-10	-45
Dry Water Years (24%)	-40	-19	1	-8	2	11	18	15	37	3	-27	-45
Critical Water Years (16%)	-21	-5	1	-10	-1	16	13	12	1	-27	-45	-46

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-7a. Jones Pumping Plant South Delta Exports Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	128	157	168	170	155	137	121	98	96	102	112	117
20% Exceedance	125	146	163	159	139	125	112	88	63	62	79	101
30% Exceedance	119	131	157	152	122	119	106	83	59	56	68	93
40% Exceedance	117	124	154	136	115	114	102	81	57	53	63	90
50% Exceedance	110	113	144	122	105	108	97	77	55	51	58	81
60% Exceedance	68	73	134	110	97	95	72	63	53	48	52	56
70% Exceedance	60	63	116	94	85	66	53	50	50	46	47	52
80% Exceedance	55	59	97	76	50	52	38	29	46	44	45	51
90% Exceedance	51	56	71	39	19	25	17	7	28	41	42	49
Full Simulation Period Average[a]	93	102	130	116	99	92	79	64	57	58	65	78
Wet Water Years (28%)	54	61	104	78	59	46	33	25	36	48	46	50
Above Normal Years (14%)	63	61	130	120	95	84	72	61	52	47	44	51
Below Normal Years (18%)	113	119	133	122	101	103	85	69	55	50	61	91
Dry Water Years (24%)	119	128	136	134	123	114	104	82	56	52	70	89
Critical Water Years (16%)	130	158	168	145	136	134	123	102	101	103	113	121

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-7b. Jones Pumping Plant South Delta Exports Chloride, Alternative 4, Monthly Chloride (mg/L)

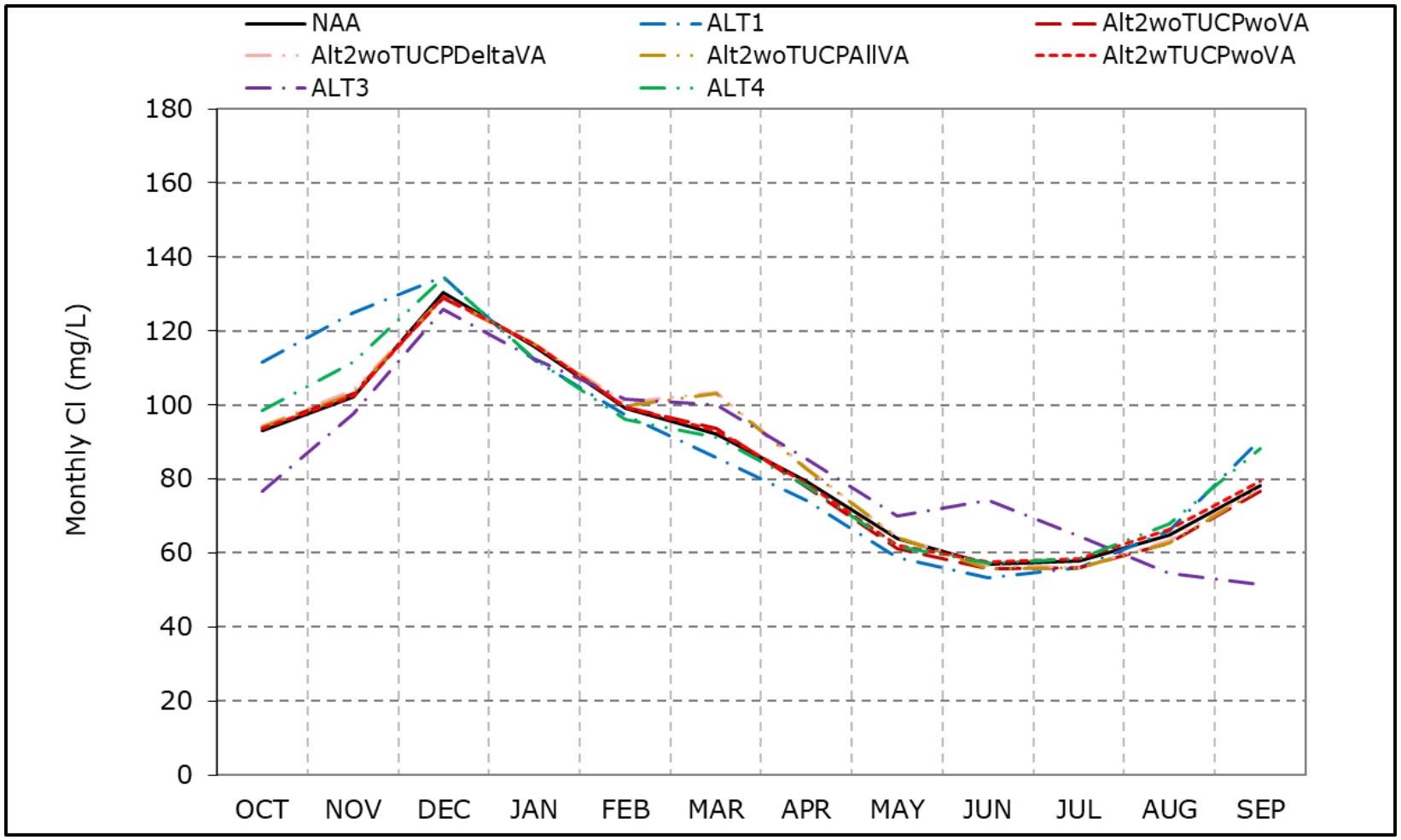
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	131	160	169	167	155	135	120	98	90	105	107	114
20% Exceedance	127	149	165	151	133	124	109	84	65	64	80	103
30% Exceedance	121	134	160	138	121	118	105	81	59	58	70	95
40% Exceedance	116	126	154	126	113	112	101	79	58	53	66	92
50% Exceedance	110	113	149	116	102	108	95	72	56	51	60	87
60% Exceedance	77	94	141	111	91	91	71	61	53	48	54	81
70% Exceedance	72	85	131	96	84	64	52	46	51	47	53	77
80% Exceedance	69	79	107	77	50	50	38	27	45	44	51	72
90% Exceedance	66	69	76	40	19	24	17	7	28	41	49	68
Full Simulation Period Average[a]	99	112	134	112	96	91	78	62	57	58	68	88
Wet Water Years (28%)	66	83	113	78	57	44	32	24	36	49	51	69
Above Normal Years (14%)	74	77	143	113	90	81	70	56	52	45	52	79
Below Normal Years (18%)	114	120	134	117	97	103	85	66	55	50	63	91
Dry Water Years (24%)	121	129	138	127	119	114	103	79	57	54	73	93
Critical Water Years (16%)	130	163	161	146	135	135	121	101	101	103	109	119

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-4-7c. Jones Pumping Plant South Delta Exports Chloride, Alternative 4 minus No Action Alternative, Monthly Chloride (mg/L)

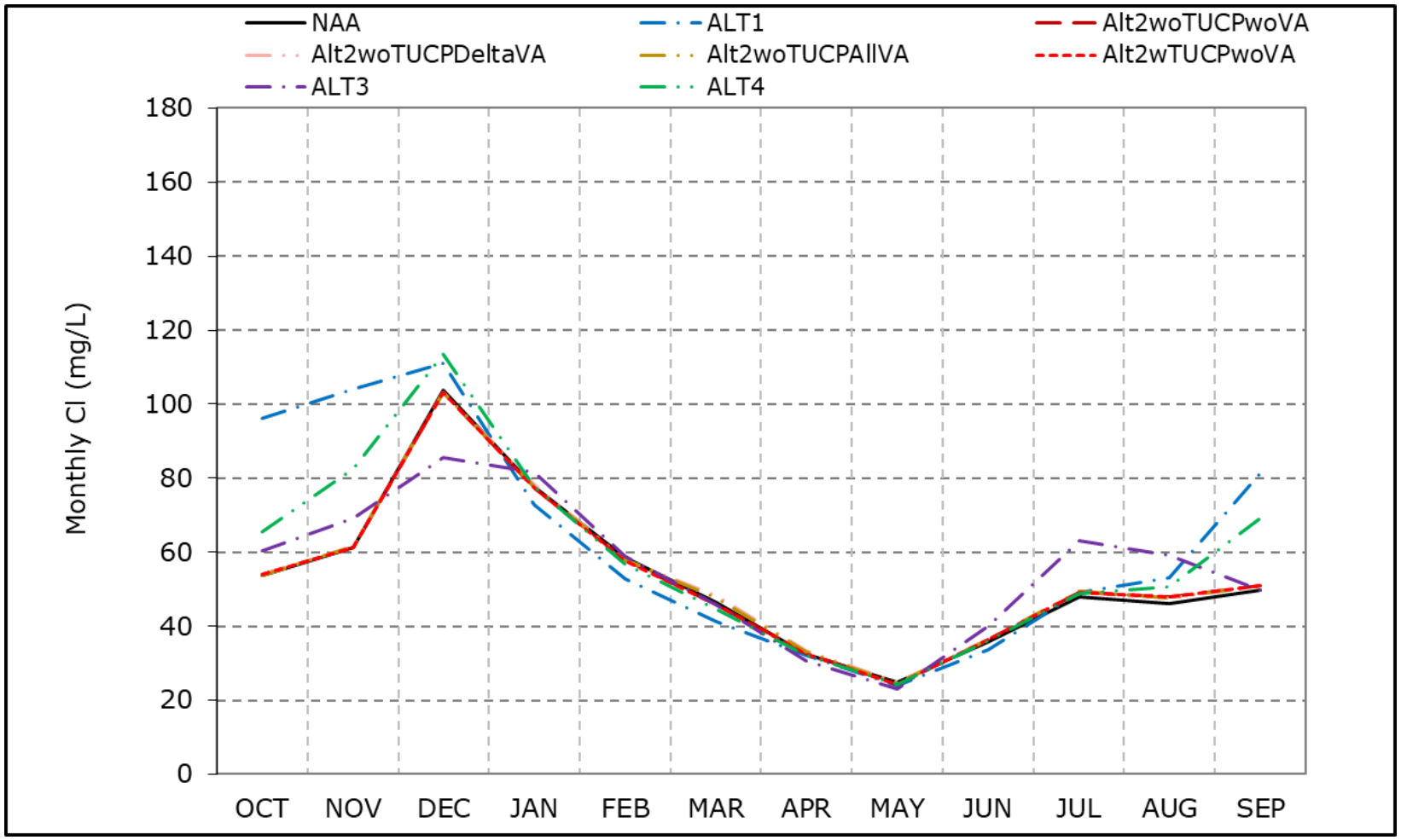
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	3	0	-3	-1	-3	-1	-1	-5	3	-5	-3
20% Exceedance	2	3	2	-8	-5	-2	-4	-5	2	2	2	2
30% Exceedance	2	3	3	-14	-1	-1	-1	-2	0	2	2	2
40% Exceedance	0	2	1	-10	-2	-2	-1	-2	1	0	3	2
50% Exceedance	0	0	5	-6	-3	0	-2	-5	1	0	2	6
60% Exceedance	9	22	7	1	-7	-3	-1	-3	0	0	3	25
70% Exceedance	12	22	15	2	-1	-2	0	-4	0	0	6	25
80% Exceedance	14	21	10	1	-1	-2	0	-1	0	1	6	21
90% Exceedance	15	13	5	1	0	-2	0	0	0	0	7	19
Full Simulation Period Average[a]	6	10	4	-4	-3	-1	-1	-2	0	0	3	10
Wet Water Years (28%)	12	21	10	0	-2	-2	0	-1	0	1	4	19
Above Normal Years (14%)	11	16	13	-7	-5	-3	-2	-4	0	-2	8	28
Below Normal Years (18%)	1	1	1	-6	-4	-1	0	-3	0	0	2	0
Dry Water Years (24%)	2	2	2	-8	-4	0	-1	-3	1	2	3	5
Critical Water Years (16%)	0	4	-8	1	0	1	-2	-1	0	0	-3	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



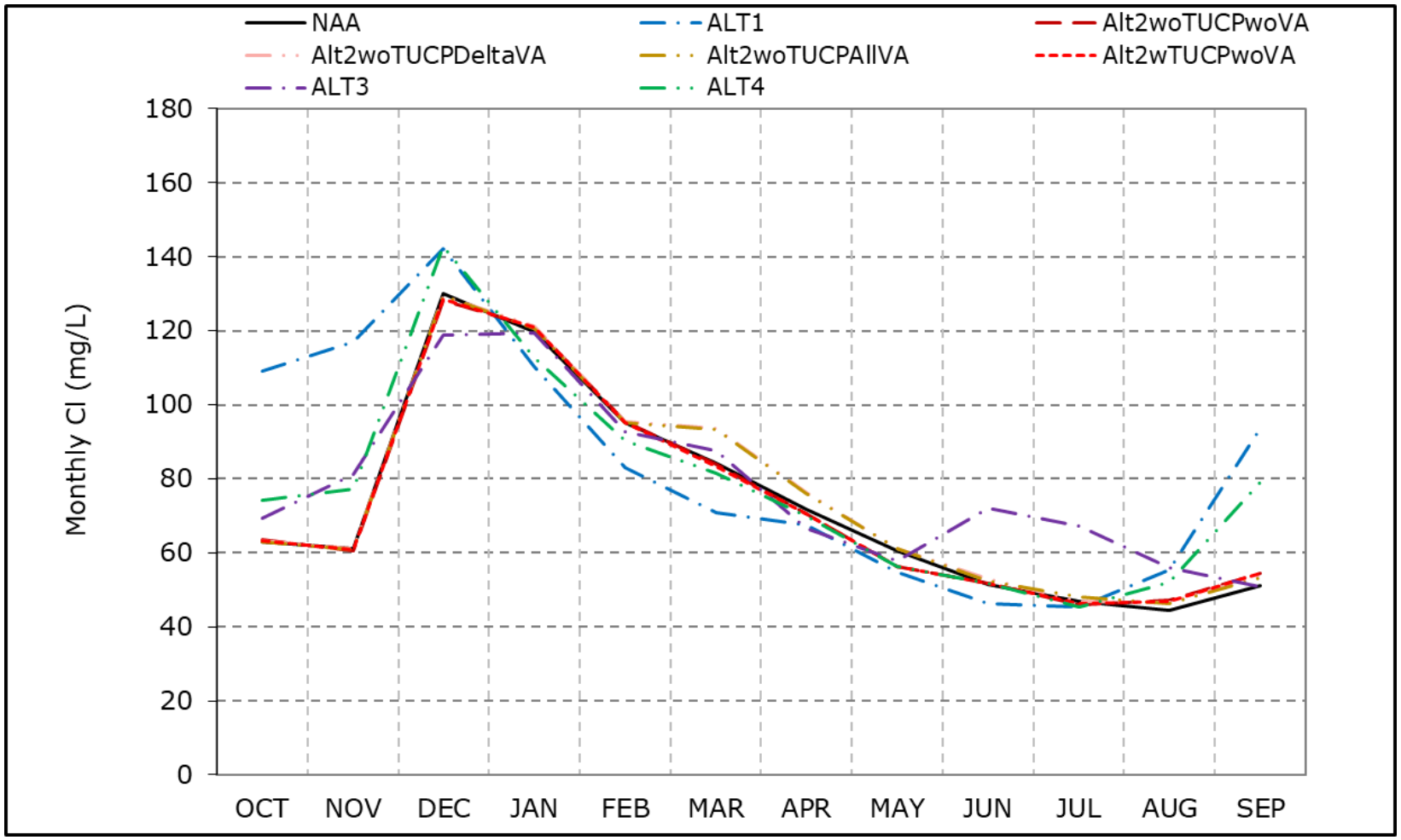
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-1. Jones Pumping Plant South Delta Exports Chloride, Long-Term Average Chloride



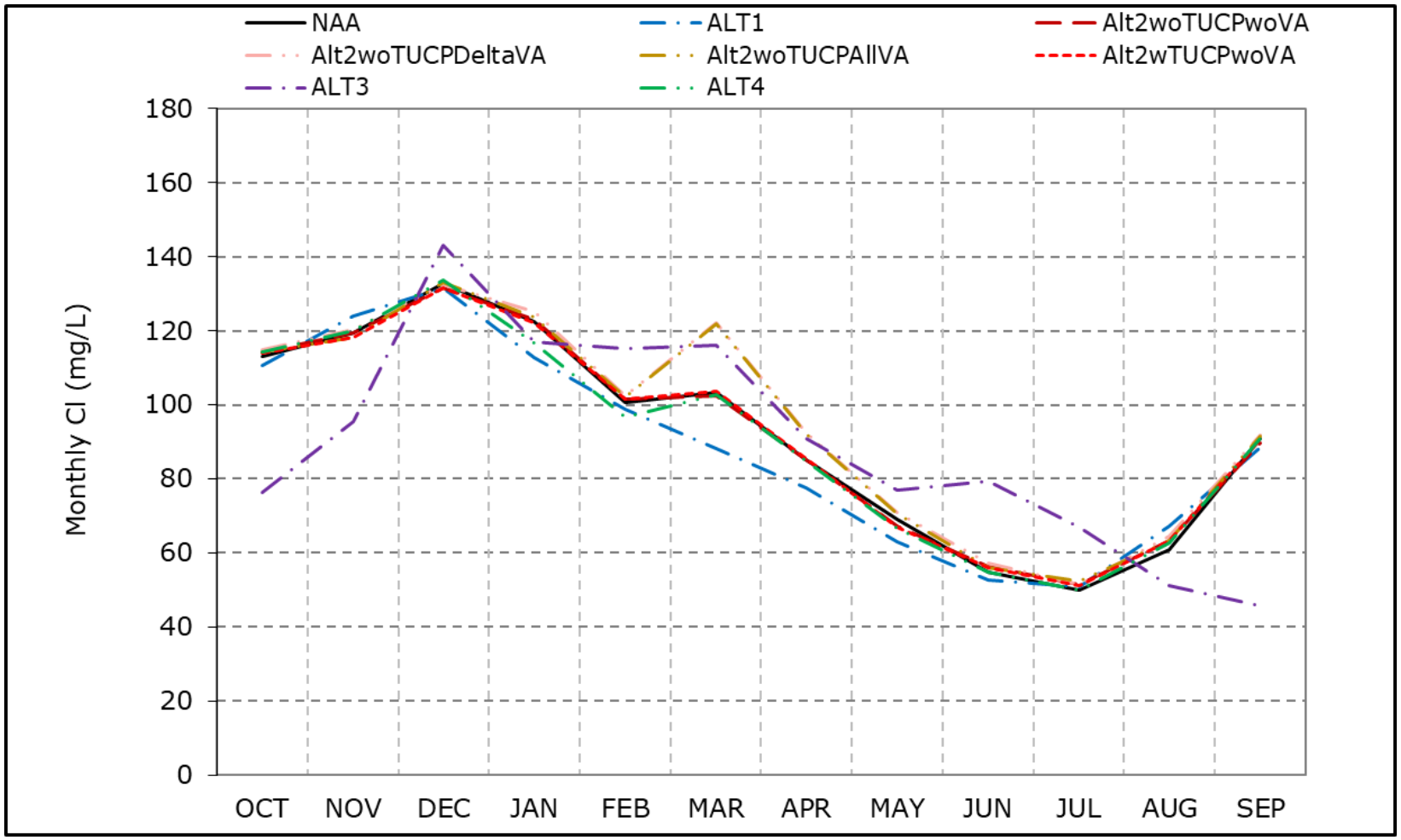
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-2. Jones Pumping Plant South Delta Exports Chloride, Wet Year Average Chloride



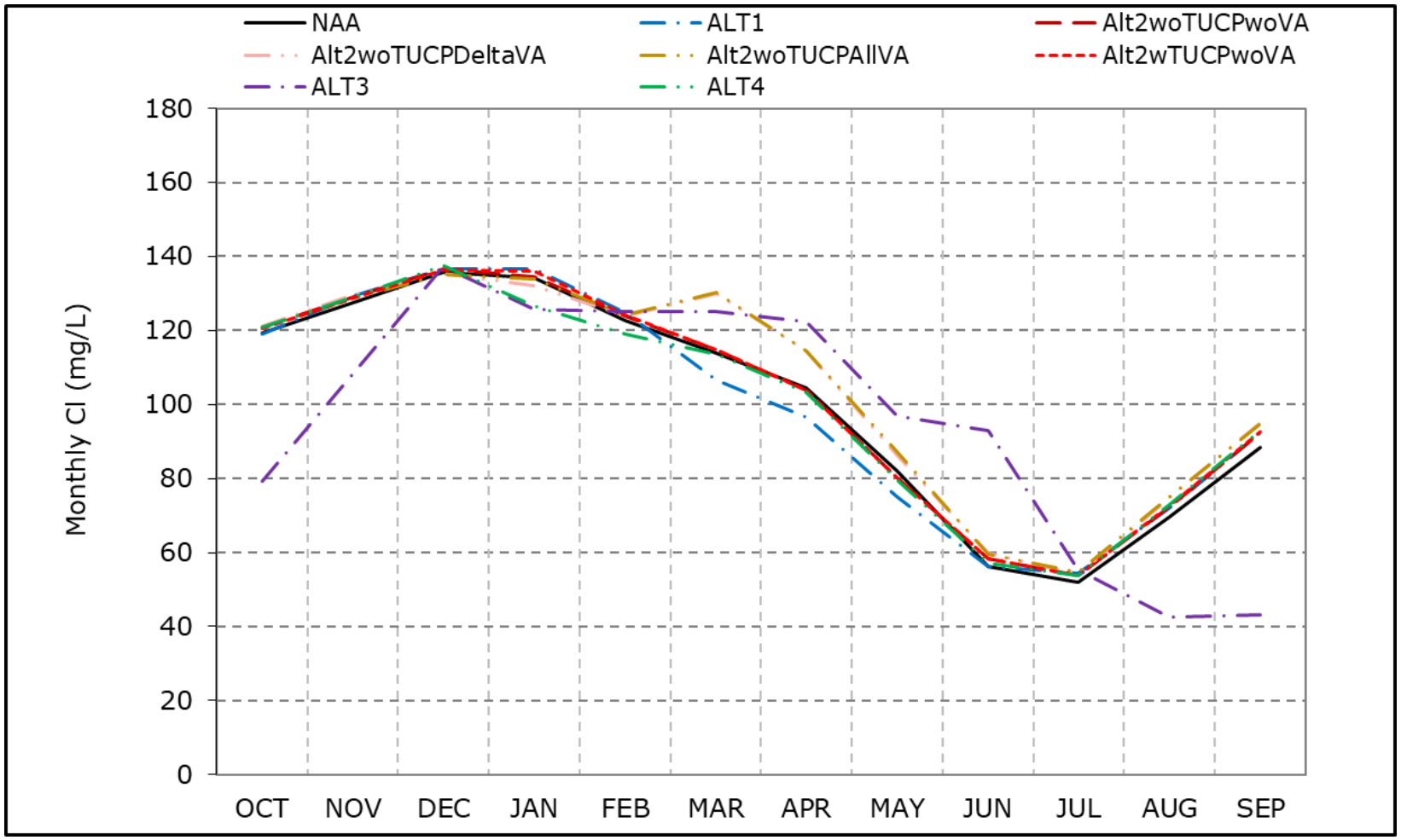
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-3. Jones Pumping Plant South Delta Exports Chloride, Above Normal Year Average Chloride



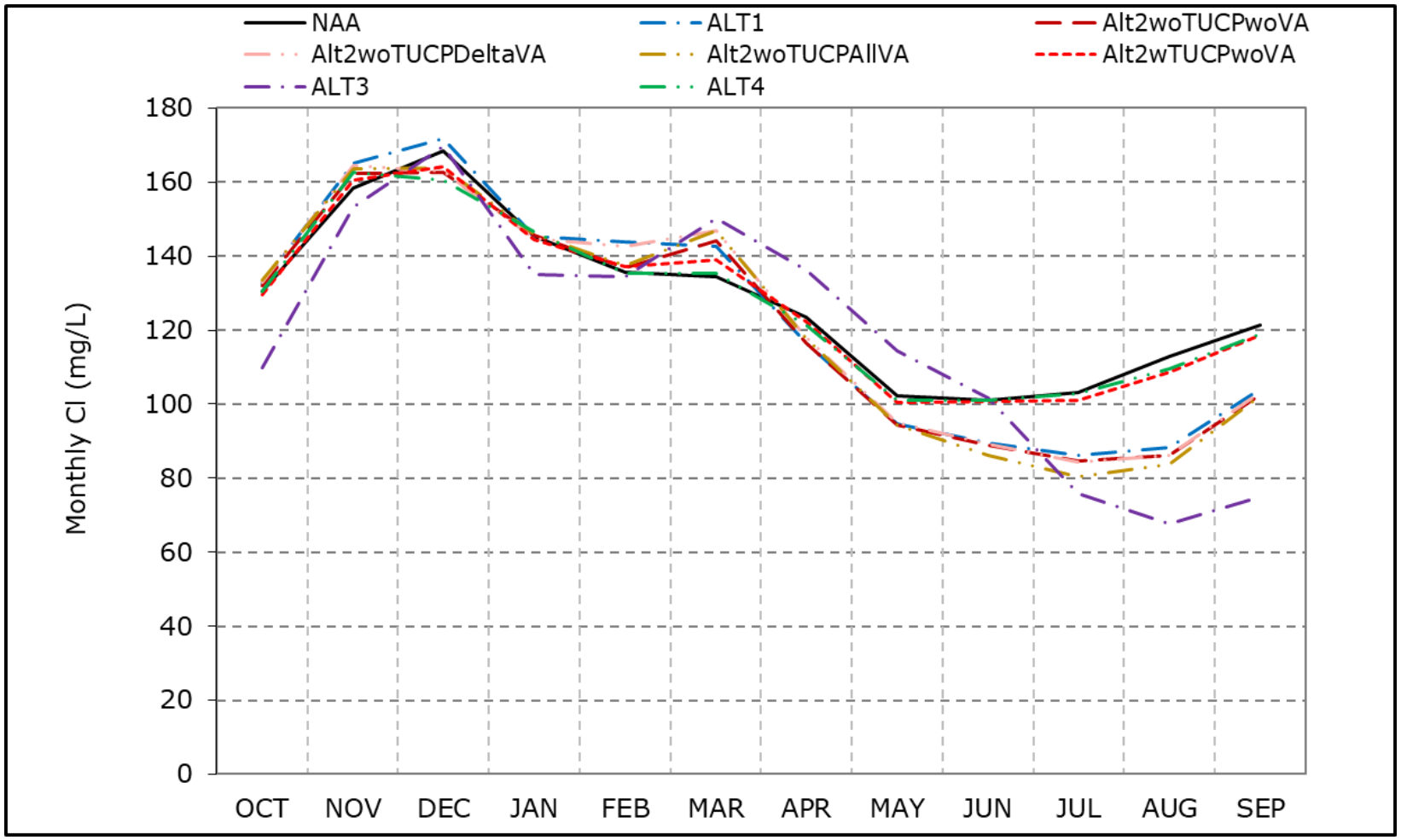
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-4. Jones Pumping Plant South Delta Exports Chloride, Below Normal Year Average Chloride



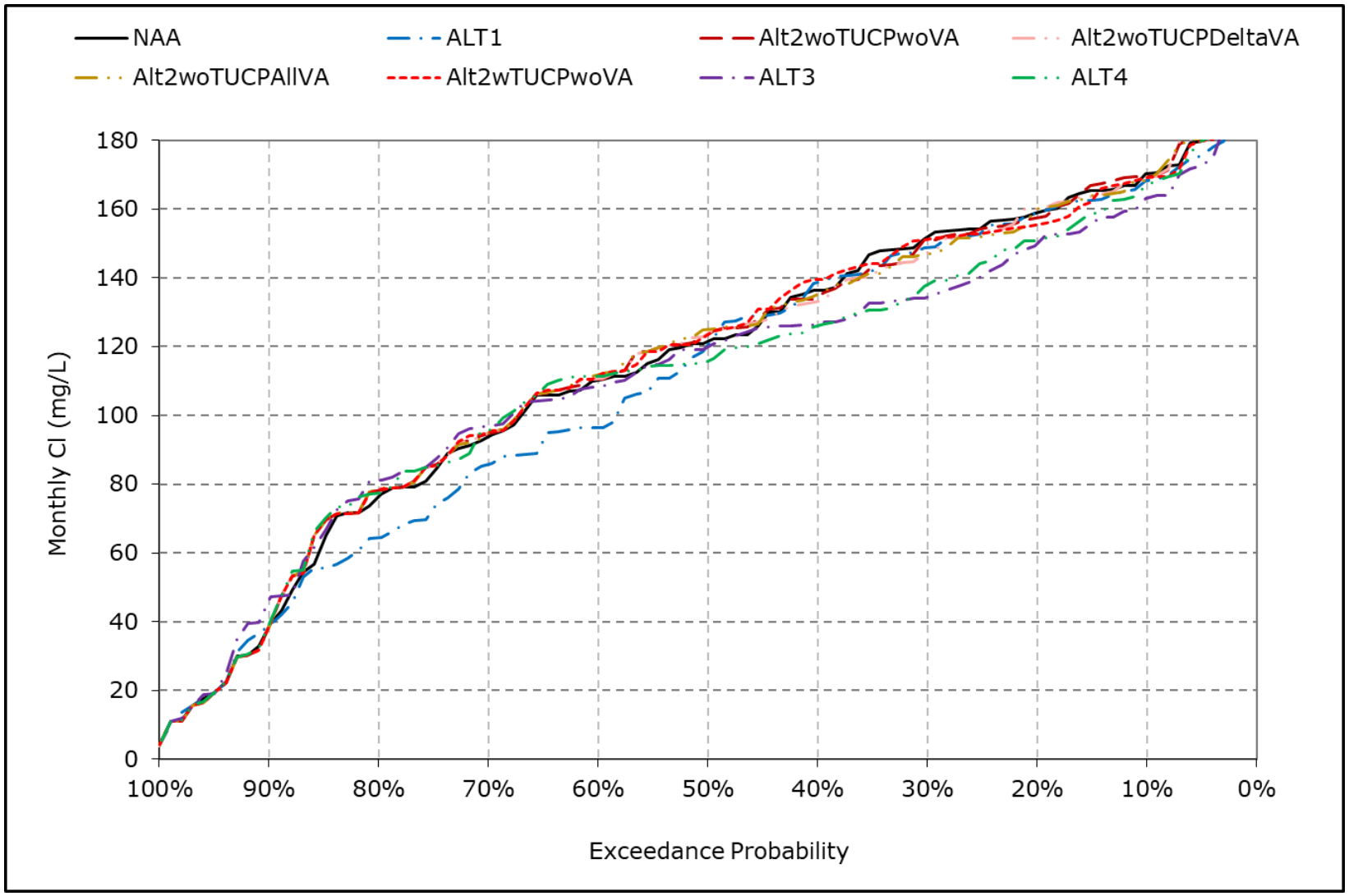
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-5. Jones Pumping Plant South Delta Exports Chloride, Dry Year Average Chloride



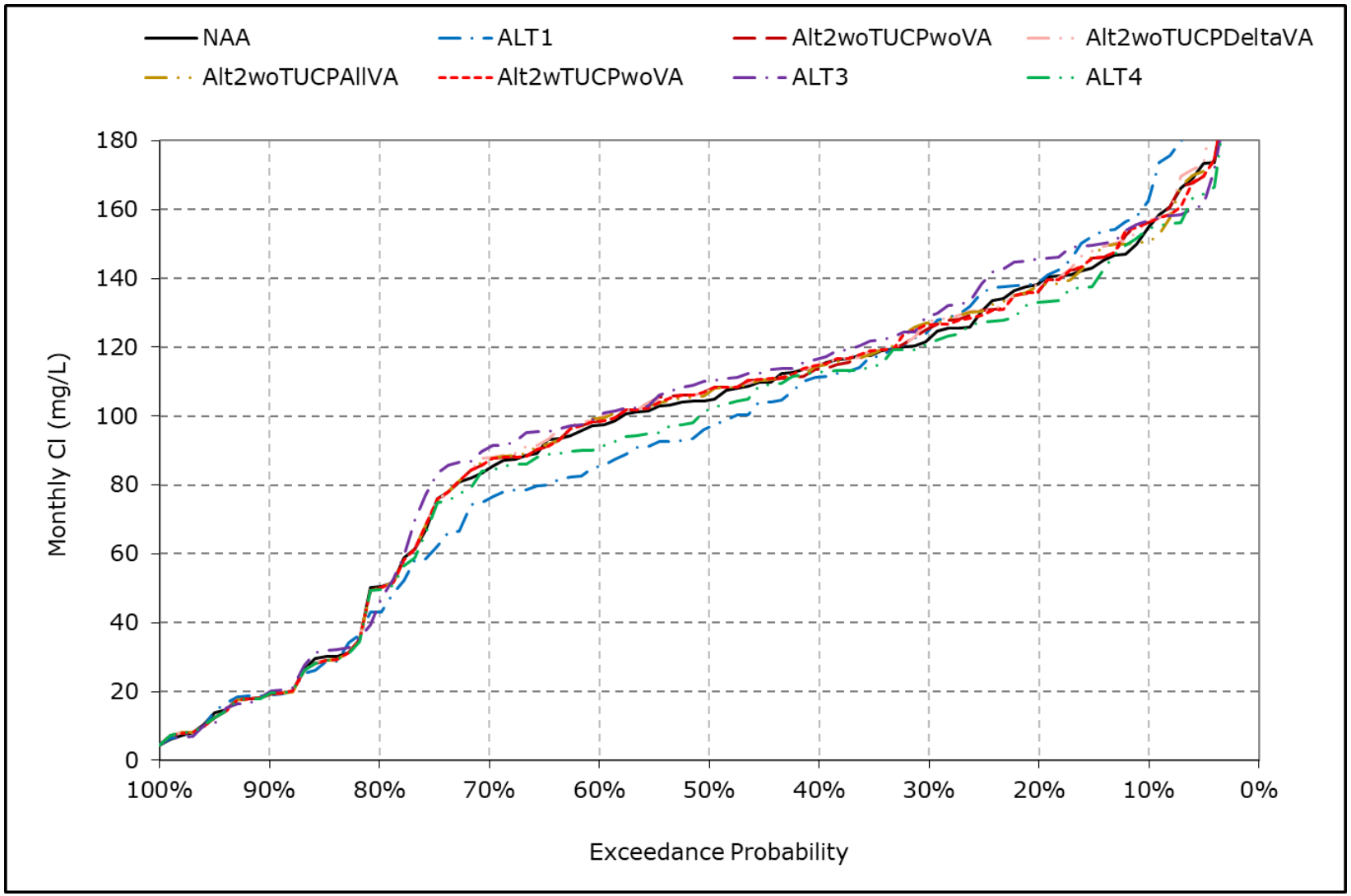
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-6. Jones Pumping Plant South Delta Exports Chloride, Critical Year Average Chloride



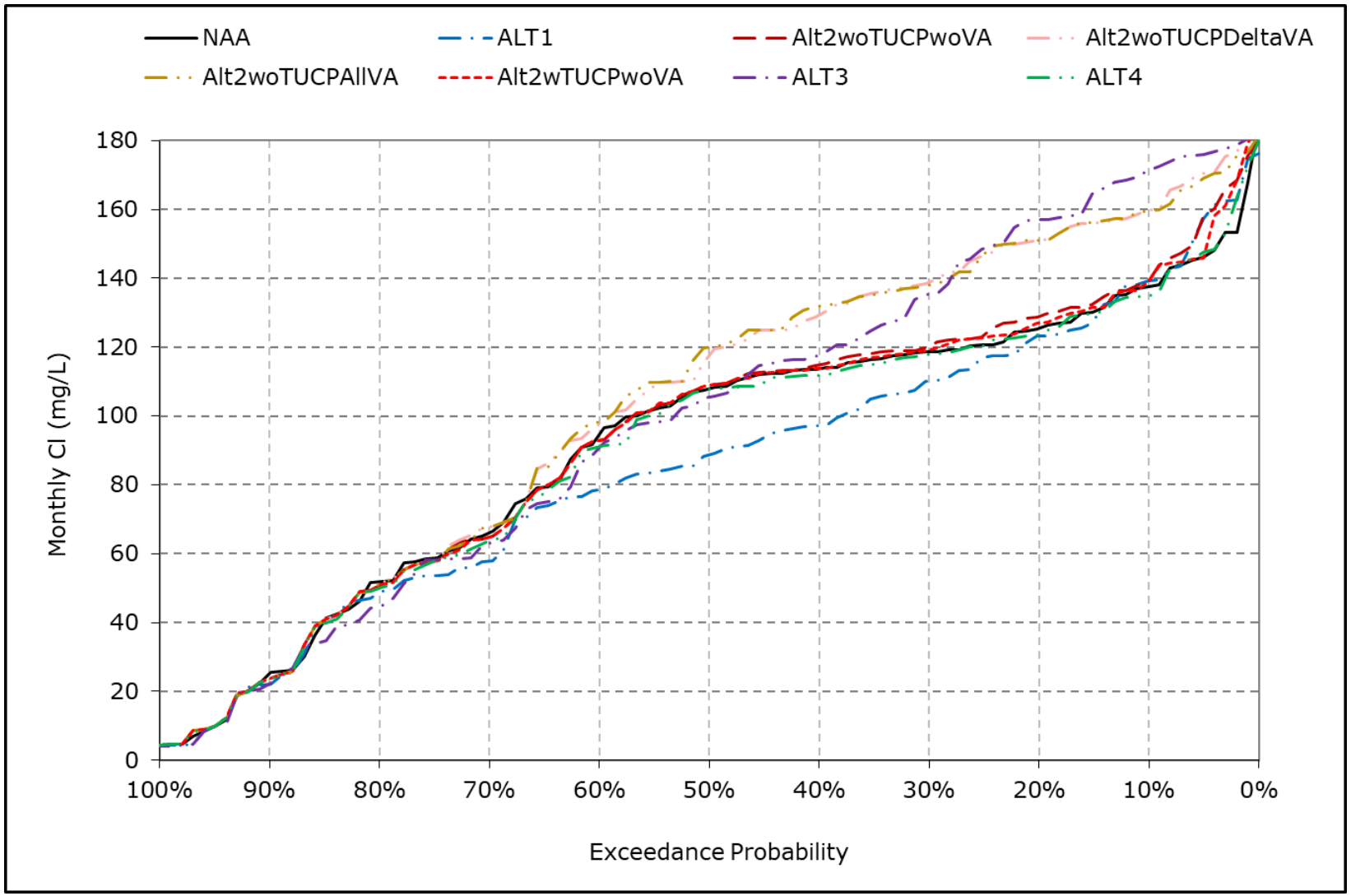
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-7. Jones Pumping Plant South Delta Exports Chloride, January Chloride



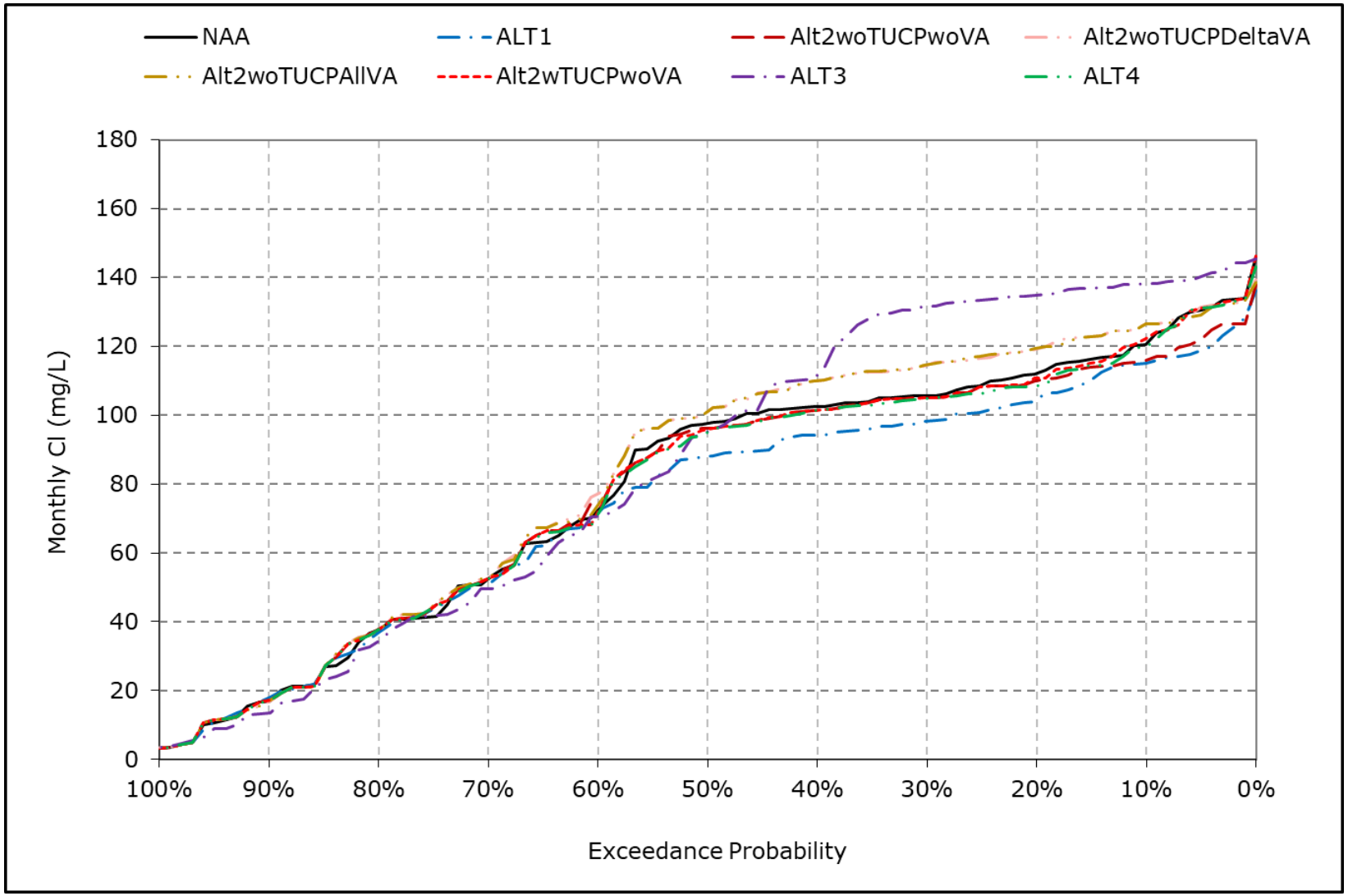
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-8. Jones Pumping Plant South Delta Exports Chloride, February Chloride



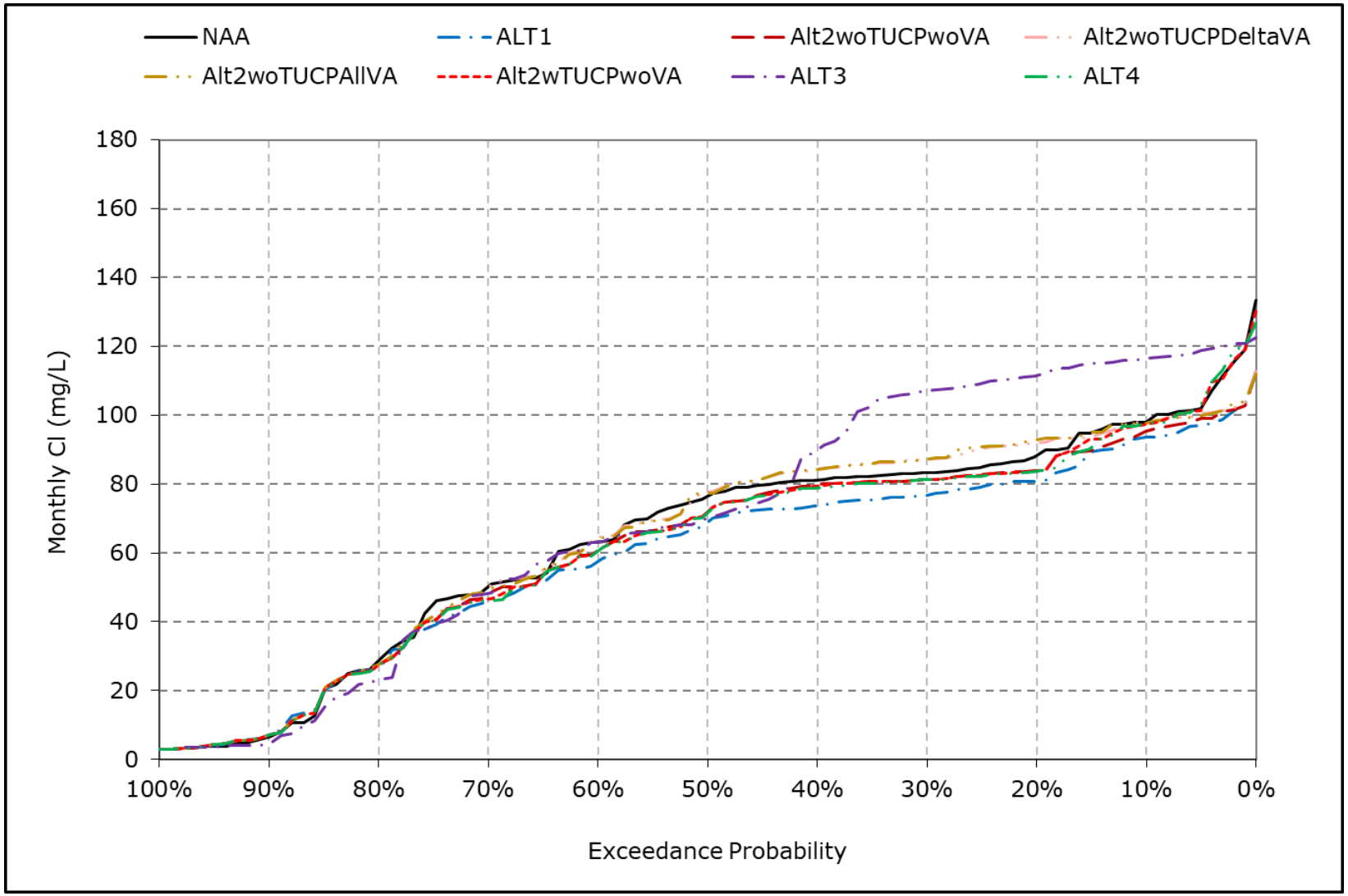
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-9. Jones Pumping Plant South Delta Exports Chloride, March Chloride



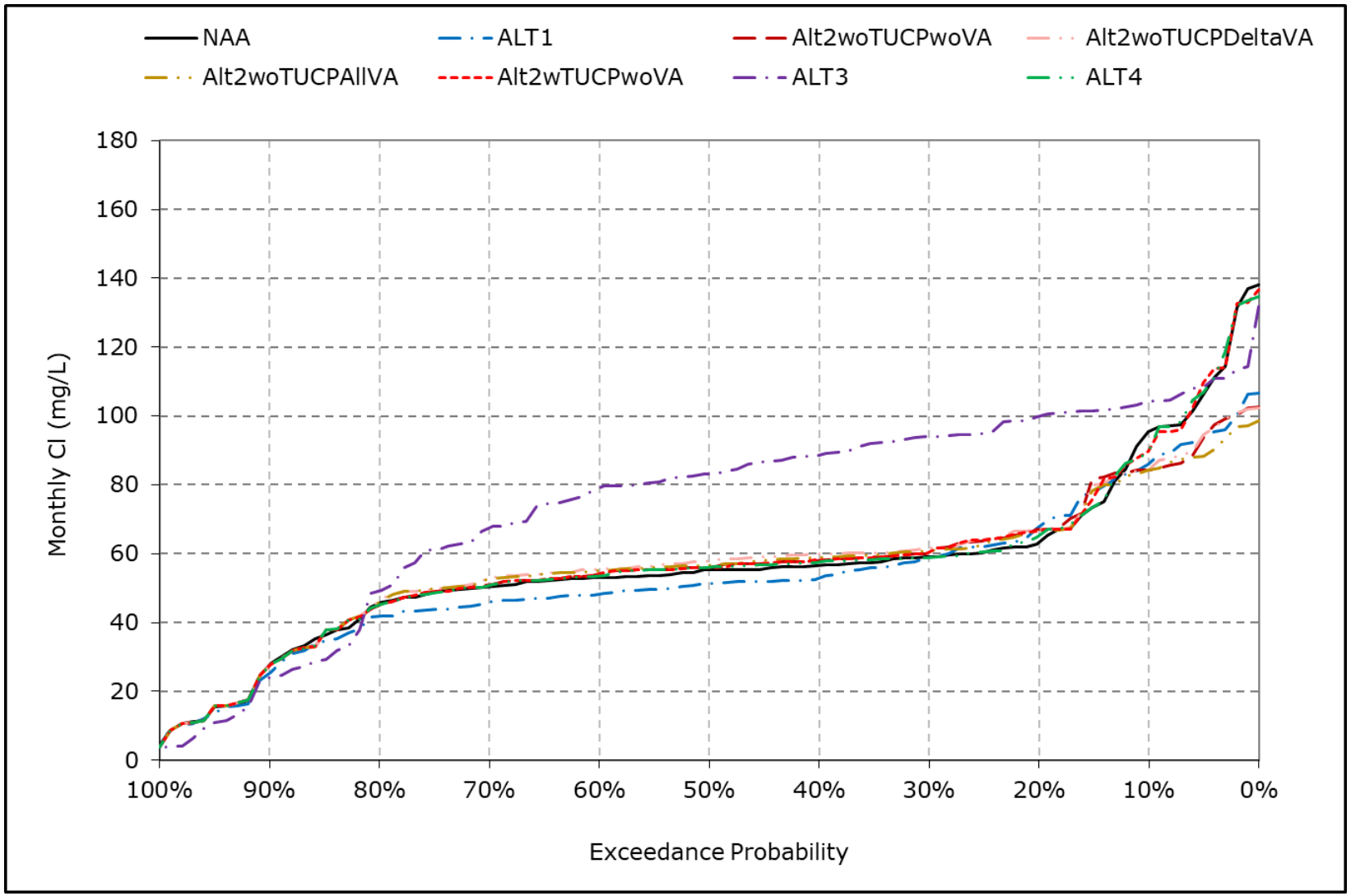
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-10. Jones Pumping Plant South Delta Exports Chloride, April Chloride



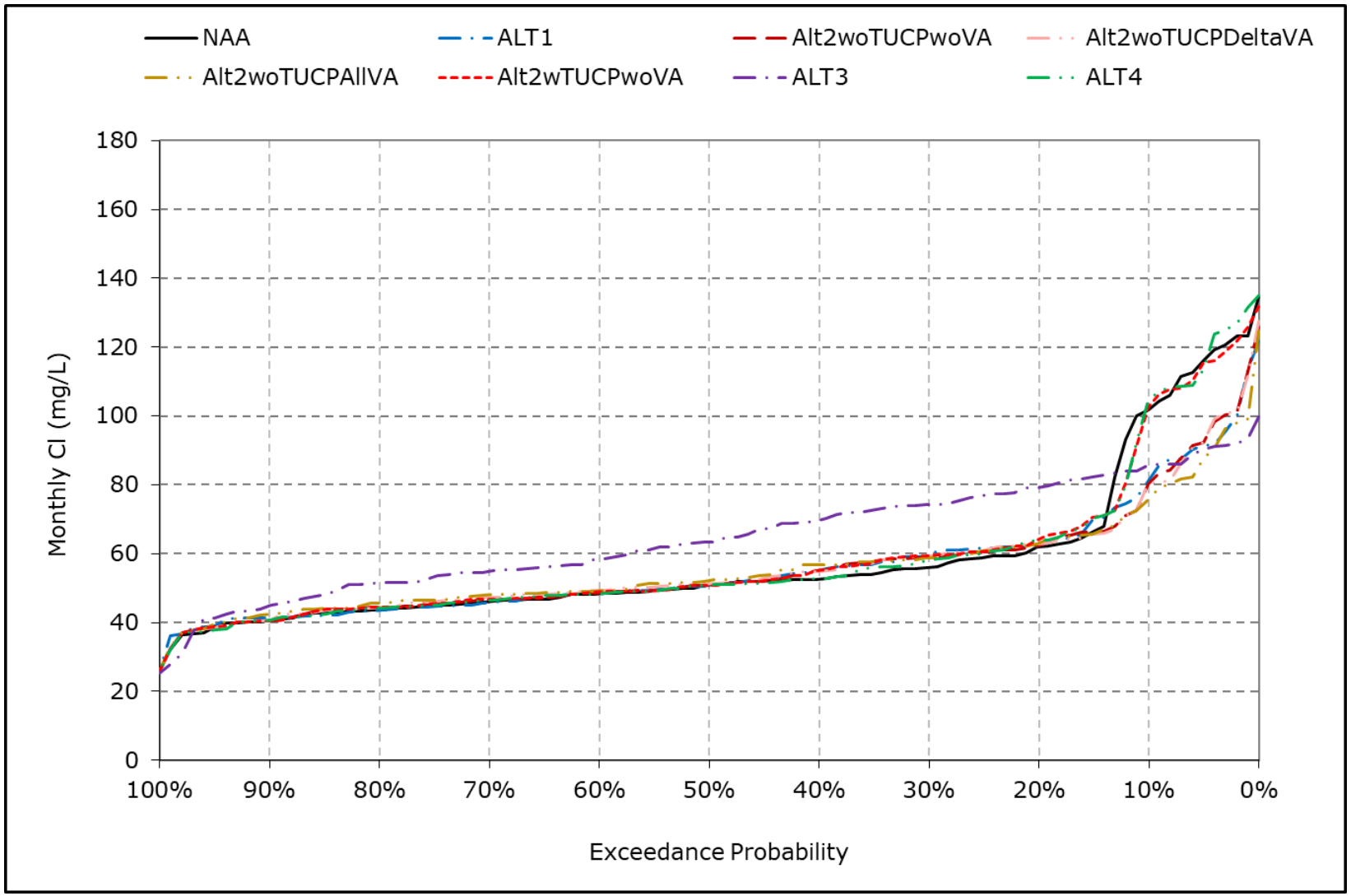
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-11. Jones Pumping Plant South Delta Exports Chloride, May Chloride



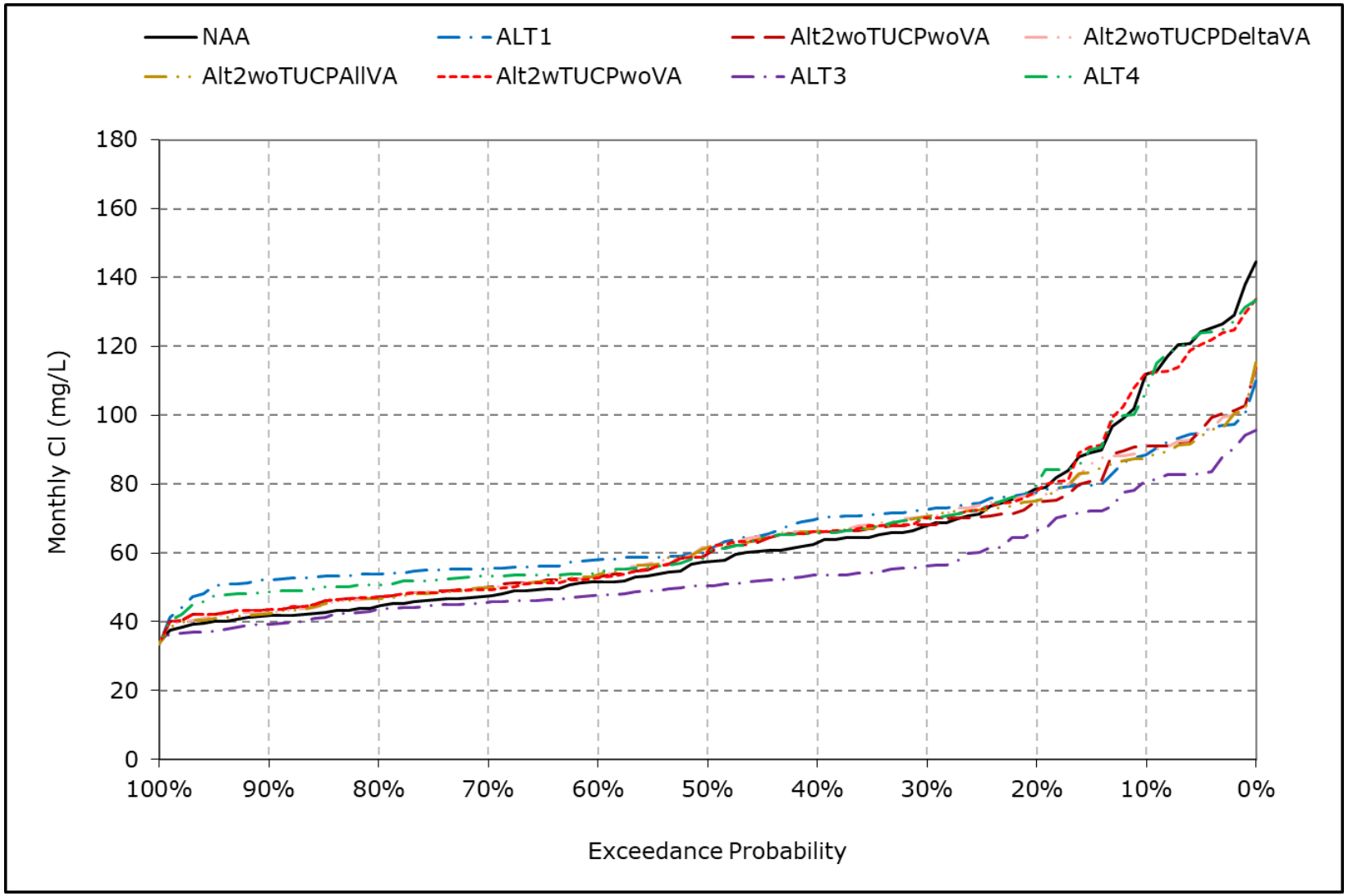
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-12. Jones Pumping Plant South Delta Exports Chloride, June Chloride



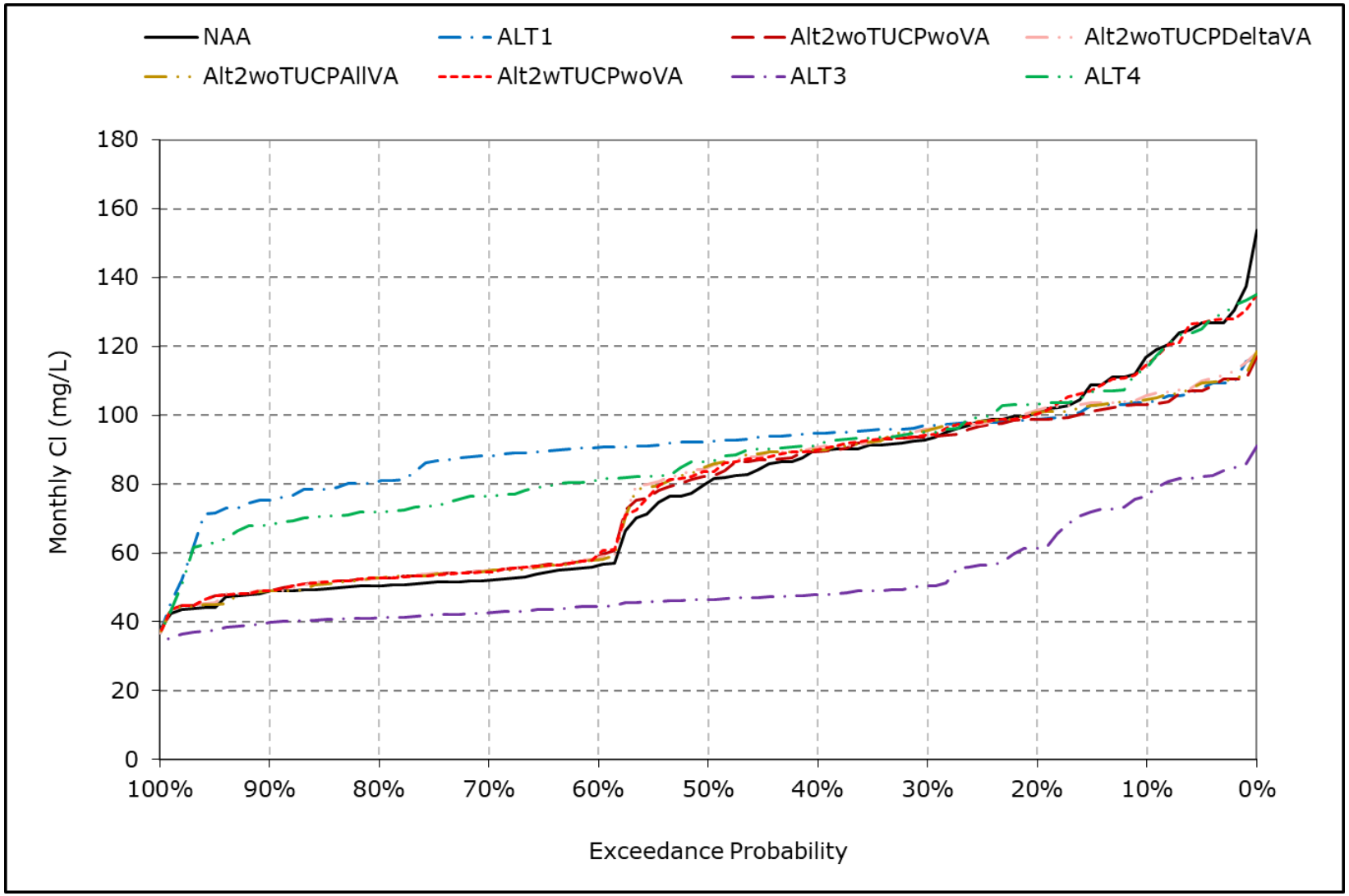
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-13. Jones Pumping Plant South Delta Exports Chloride, July Chloride



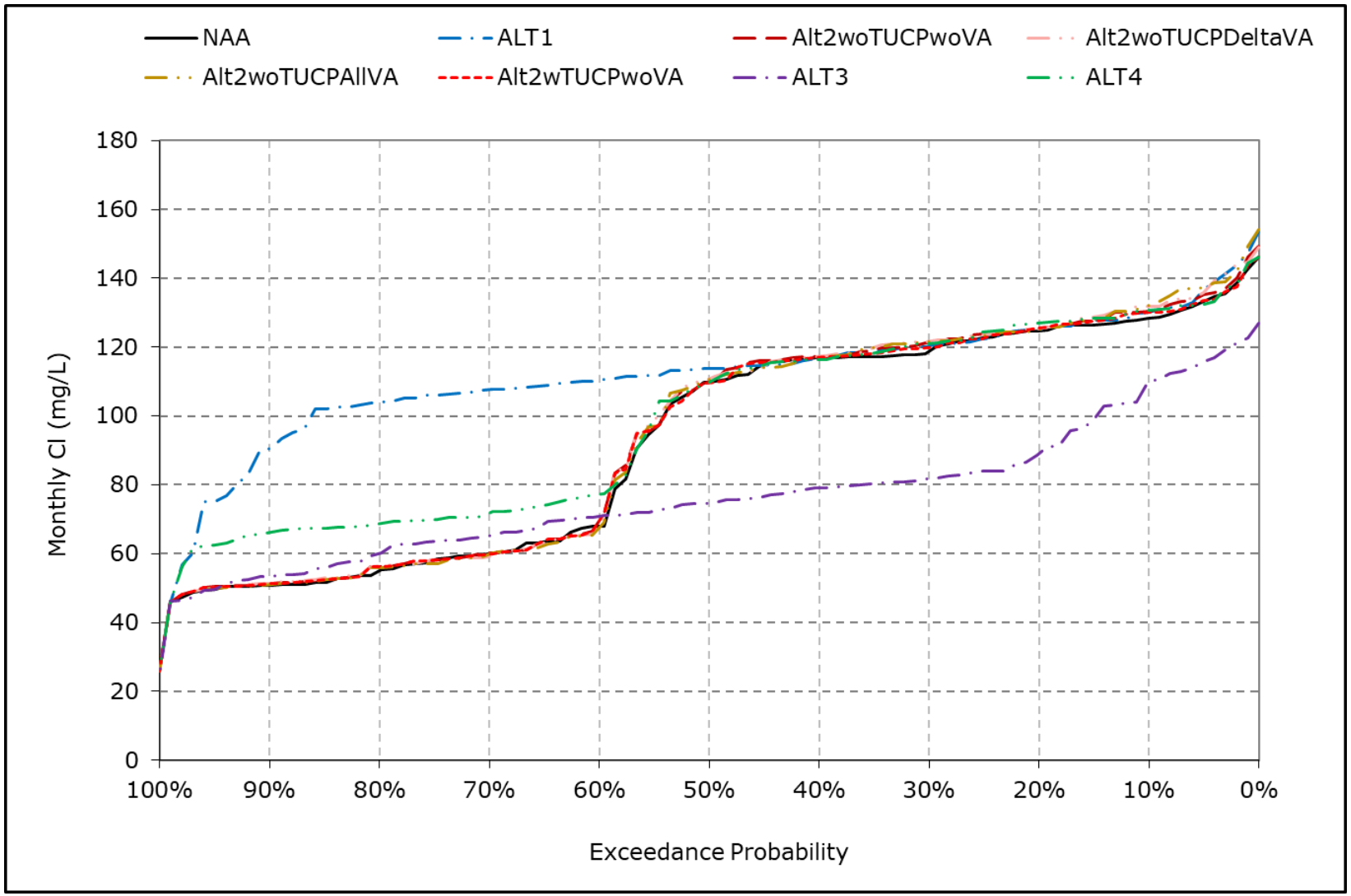
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-14. Jones Pumping Plant South Delta Exports Chloride, August Chloride



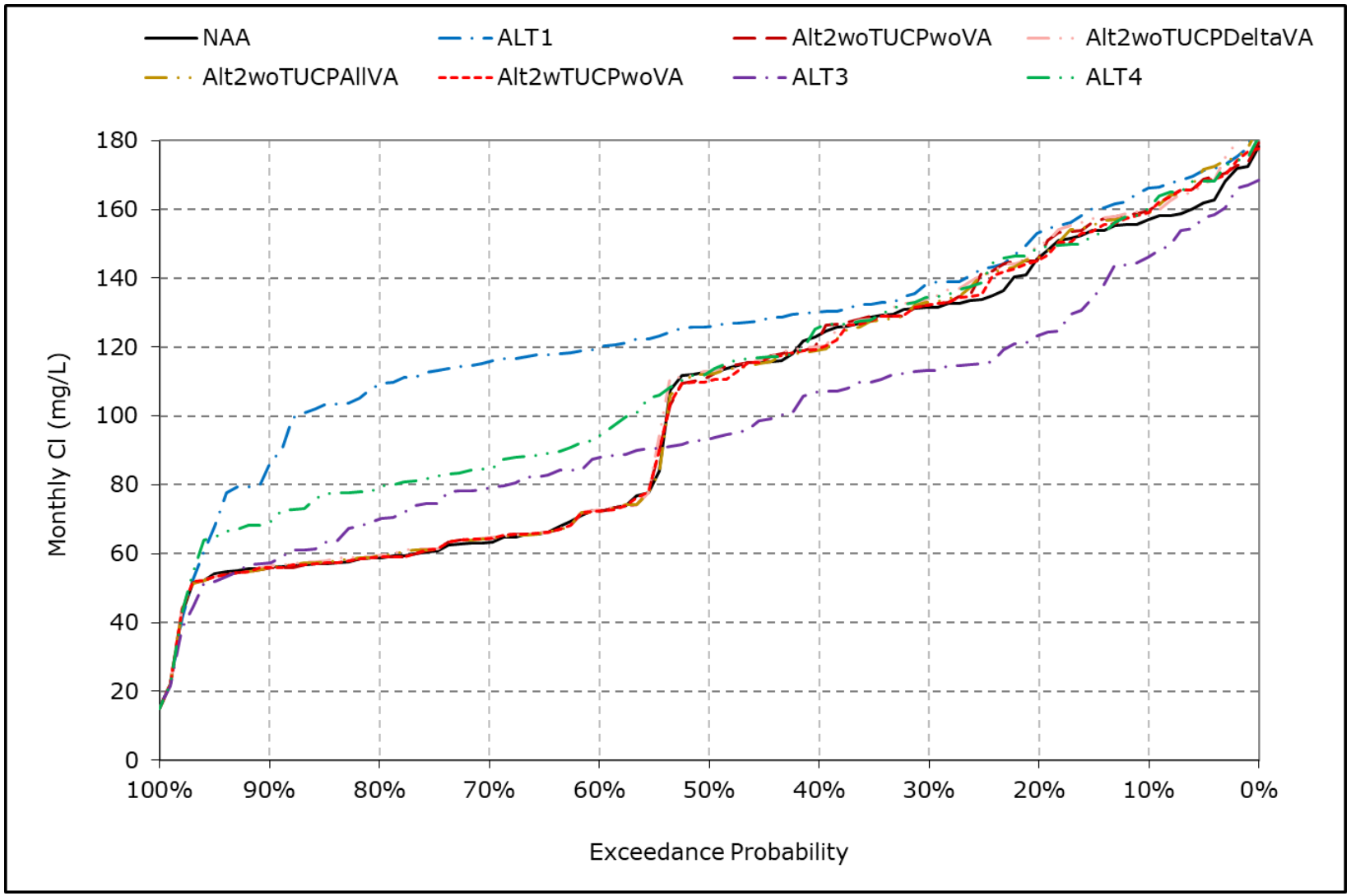
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-15. Jones Pumping Plant South Delta Exports Chloride, September Chloride



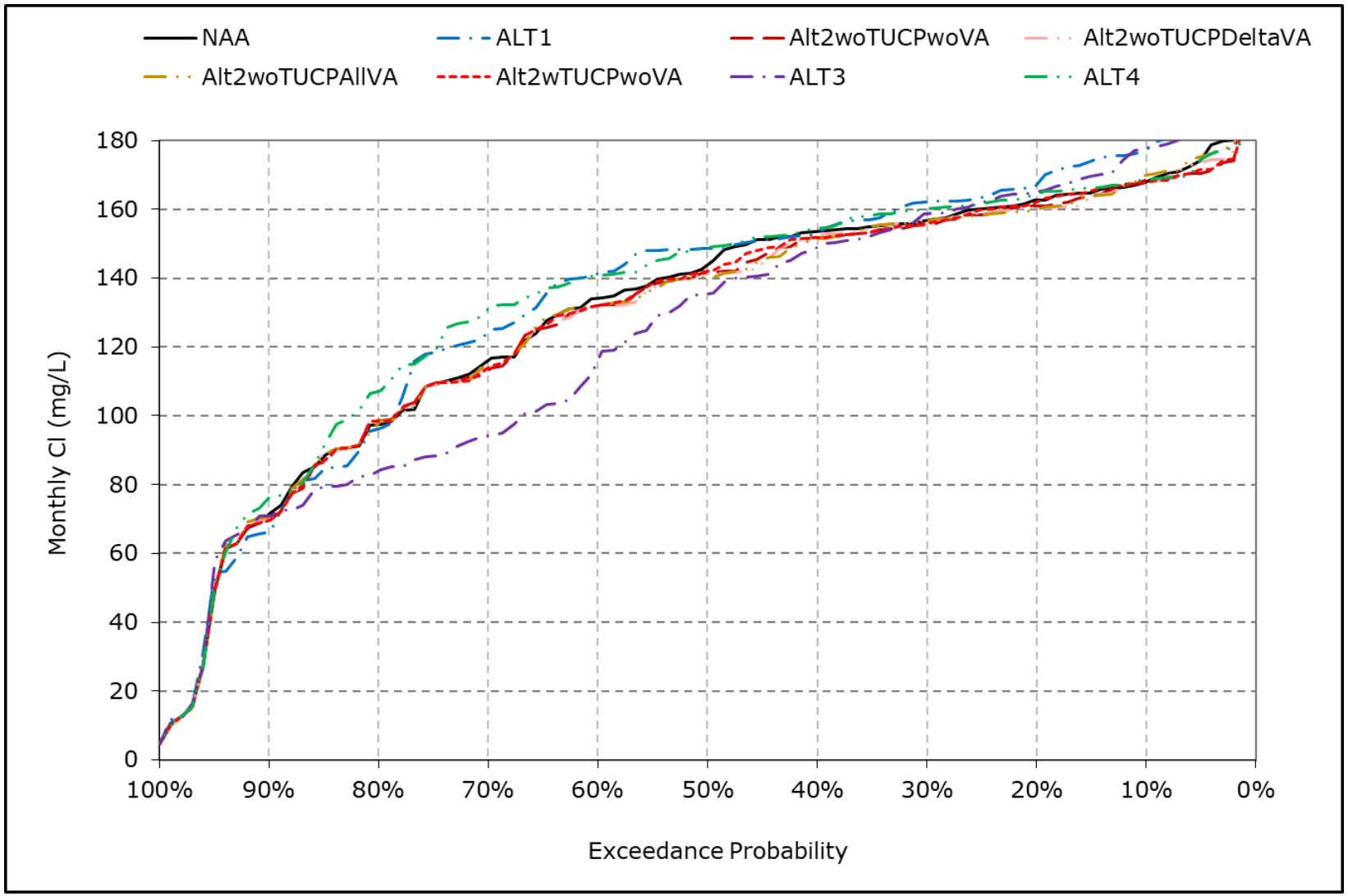
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-16. Jones Pumping Plant South Delta Exports Chloride, October Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-17. Jones Pumping Plant South Delta Exports Chloride, November Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-4-18. Jones Pumping Plant South Delta Exports Chloride, December Chloride

Table F.2.7-5-1a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-1b. North Bay Aqueduct Chloride, Alternative 1, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	22	26	29	33	32	28	22	18	17	17	18
20% Exceedance	19	21	25	27	29	30	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	26	20	17	17	17	17
40% Exceedance	19	21	24	25	26	27	25	20	17	16	16	17
50% Exceedance	18	21	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	24	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	23	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	19	21	24	23	24	25	24	20	17	16	16	17
Dry Water Years (24%)	19	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	26	28	31	27	21	18	17	17	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-1c. North Bay Aqueduct Chloride, Alternative 1 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	1	2	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	1	1	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
40% Exceedance	0	0	0	1	0	1	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	1	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	1	2	1	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-2a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-2b. North Bay Aqueduct Chloride, Alt2woTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	33	28	22	18	17	17	18
20% Exceedance	19	21	25	26	29	30	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	16	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	20	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	17	17
Critical Water Years (16%)	19	21	25	26	28	31	27	21	18	17	17	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-2c. North Bay Aqueduct Chloride, Alt2woTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	2	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	2	1	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-3a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-3b. North Bay Aqueduct Chloride, Alt2woTUCPDeltaVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	22	26	28	31	33	28	22	18	17	17	18
20% Exceedance	19	21	25	26	29	30	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	16	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	19	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	20	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	31	27	21	18	17	17	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-3c. North Bay Aqueduct Chloride, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	2	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	2	1	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-4a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-4b. North Bay Aqueduct Chloride, Alt2woTUCPAllVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	32	28	22	18	17	17	18
20% Exceedance	19	21	25	26	29	30	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	19	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	20	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	17	16	17
Critical Water Years (16%)	19	21	25	25	28	31	27	21	18	17	17	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-4c. North Bay Aqueduct Chloride, Alt2woTUCPAllVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	1	1	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-5a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-5b. North Bay Aqueduct Chloride, Alt2wTUCPwoVA, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	26	25	20	17	16	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	20	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	17	17
Critical Water Years (16%)	19	21	25	26	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-5c. North Bay Aqueduct Chloride, Alt2wTUCPwoVA minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-6a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-6b. North Bay Aqueduct Chloride, Alternative 3, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	29	34	35	29	22	18	17	17	18
20% Exceedance	19	21	25	27	29	32	28	21	18	17	17	17
30% Exceedance	19	21	25	26	28	30	27	21	17	17	17	17
40% Exceedance	18	21	24	25	27	28	26	21	17	17	17	17
50% Exceedance	18	21	24	23	24	26	25	20	17	17	17	17
60% Exceedance	18	20	24	21	21	24	24	20	17	17	17	17
70% Exceedance	18	20	23	20	20	23	24	20	17	17	17	17
80% Exceedance	18	20	23	20	20	22	23	20	17	17	16	17
90% Exceedance	18	20	22	20	20	22	22	20	17	16	16	17
Full Simulation Period Average[a]	18	21	24	24	26	27	25	21	17	17	17	17
Wet Water Years (28%)	18	20	23	22	22	24	24	20	17	17	17	17
Above Normal Years (14%)	18	20	24	24	28	28	25	20	17	17	17	17
Below Normal Years (18%)	19	21	24	23	25	25	24	20	17	17	17	17
Dry Water Years (24%)	19	21	24	24	26	29	26	20	17	17	17	17
Critical Water Years (16%)	19	21	25	26	29	32	27	22	18	17	17	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-6c. North Bay Aqueduct Chloride, Alternative 3 minus No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	3	4	1	0	0	0	0	0
20% Exceedance	0	0	0	1	0	3	2	0	0	0	0	0
30% Exceedance	0	0	1	1	1	2	1	0	0	0	0	0
40% Exceedance	0	0	0	1	1	1	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	1	1	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
90% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
Full Simulation Period Average[a]	0	0	0	1	1	2	1	1	0	0	0	0
Wet Water Years (28%)	0	0	0	1	1	1	1	1	0	0	0	0
Above Normal Years (14%)	0	0	0	1	1	2	2	1	0	0	0	0
Below Normal Years (18%)	0	0	0	0	1	1	1	0	0	0	0	0
Dry Water Years (24%)	0	0	1	1	1	2	1	0	0	0	0	0
Critical Water Years (16%)	0	0	0	1	1	3	2	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-7a. North Bay Aqueduct Chloride, No Action Alternative, Monthly Chloride (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	17	18	18
20% Exceedance	19	21	25	26	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	27	25	20	17	17	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	17	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	25	28	29	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-7b. North Bay Aqueduct Chloride, Alternative 4, Monthly Chloride (mg/L)

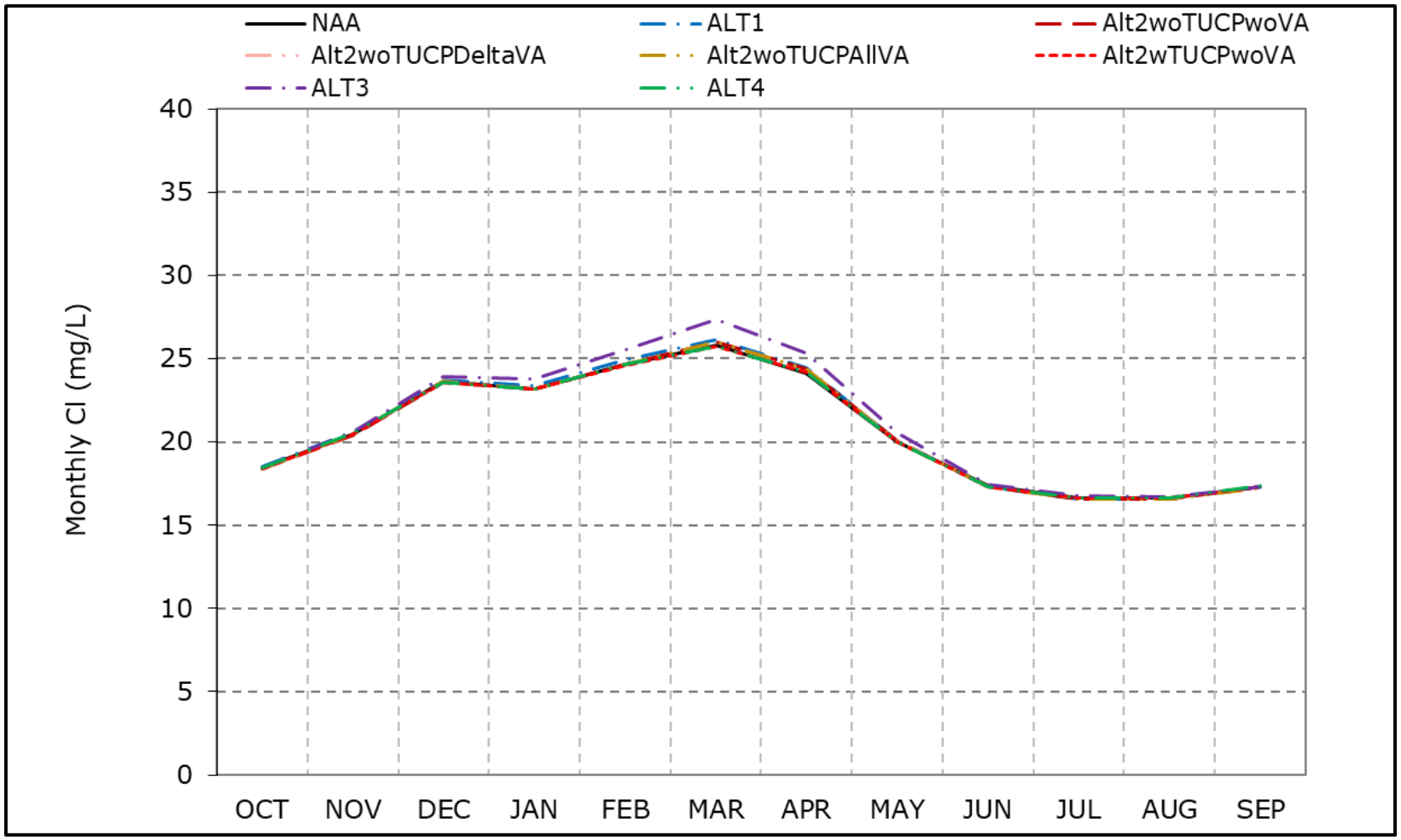
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	19	21	26	28	31	31	27	21	18	18	18	18
20% Exceedance	19	21	25	27	29	29	26	21	18	17	17	17
30% Exceedance	19	21	24	25	27	28	25	20	17	17	17	17
40% Exceedance	18	21	24	24	26	26	25	20	17	16	16	17
50% Exceedance	18	20	24	22	23	25	24	20	17	16	16	17
60% Exceedance	18	20	23	21	21	23	23	20	17	16	16	17
70% Exceedance	18	20	23	20	20	22	23	20	17	16	16	17
80% Exceedance	18	20	22	20	20	22	22	19	17	16	16	17
90% Exceedance	18	20	22	19	19	21	22	19	17	16	16	17
Full Simulation Period Average[a]	18	21	24	23	25	26	24	20	17	17	17	17
Wet Water Years (28%)	18	20	23	21	22	23	23	19	17	16	16	17
Above Normal Years (14%)	18	20	24	24	26	26	24	20	17	16	16	17
Below Normal Years (18%)	18	20	24	23	24	24	24	20	17	16	16	17
Dry Water Years (24%)	18	21	24	24	26	28	25	20	17	16	16	17
Critical Water Years (16%)	19	21	25	26	28	30	26	21	19	18	18	18

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.7-5-7c. North Bay Aqueduct Chloride, Alternative 4 minus No Action Alternative, Monthly Chloride (mg/L)

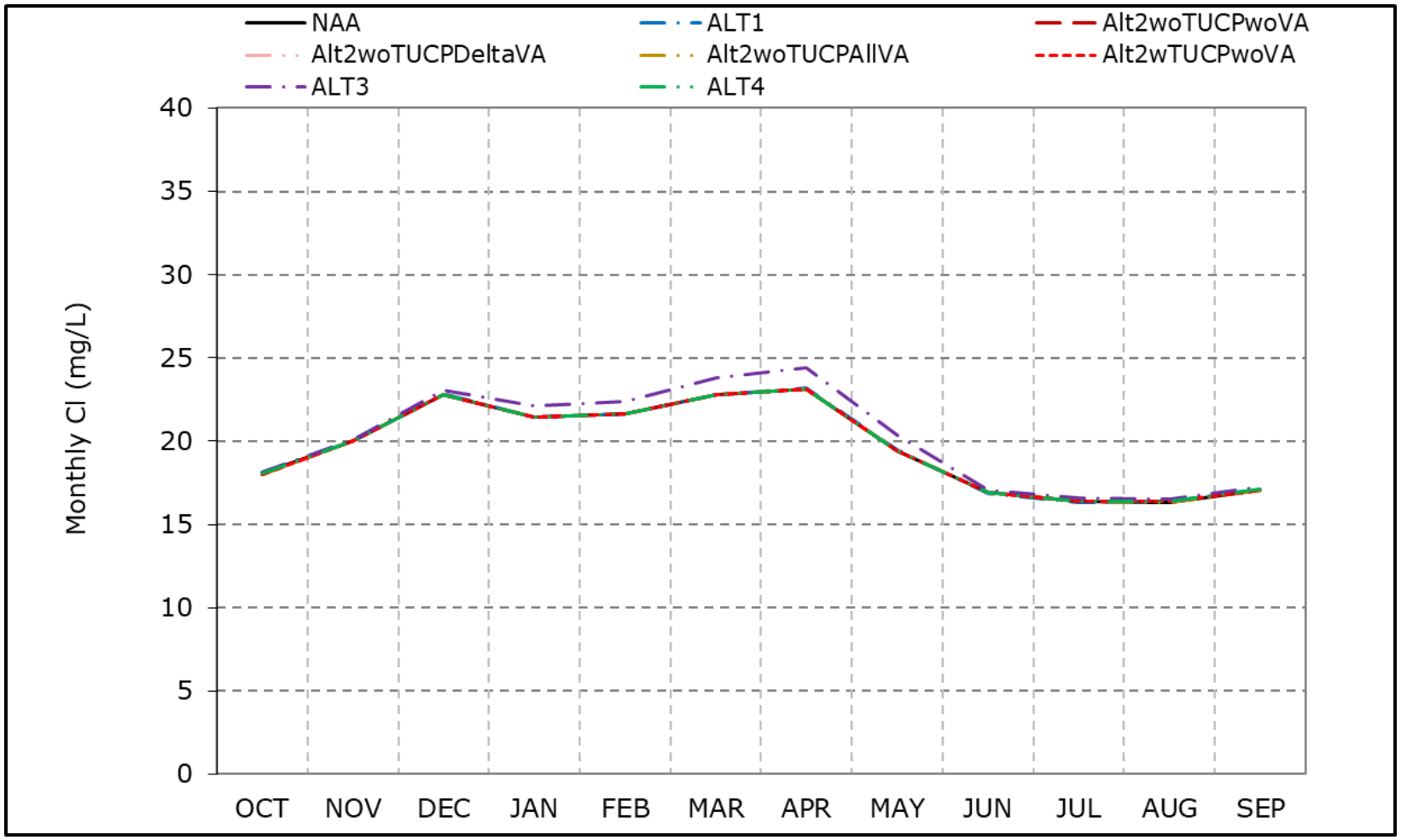
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



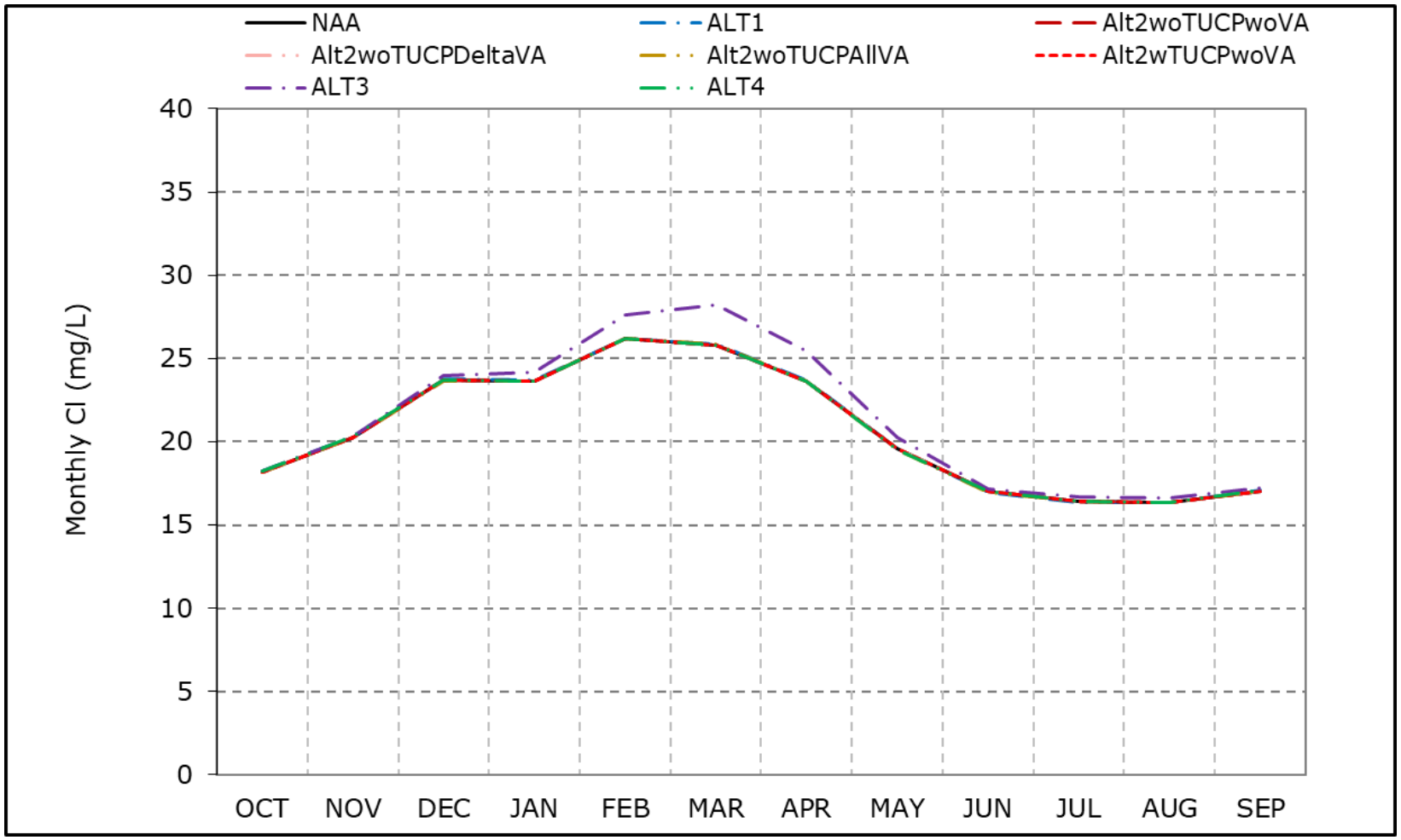
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-1. North Bay Aqueduct Chloride, Long-Term Average Chloride



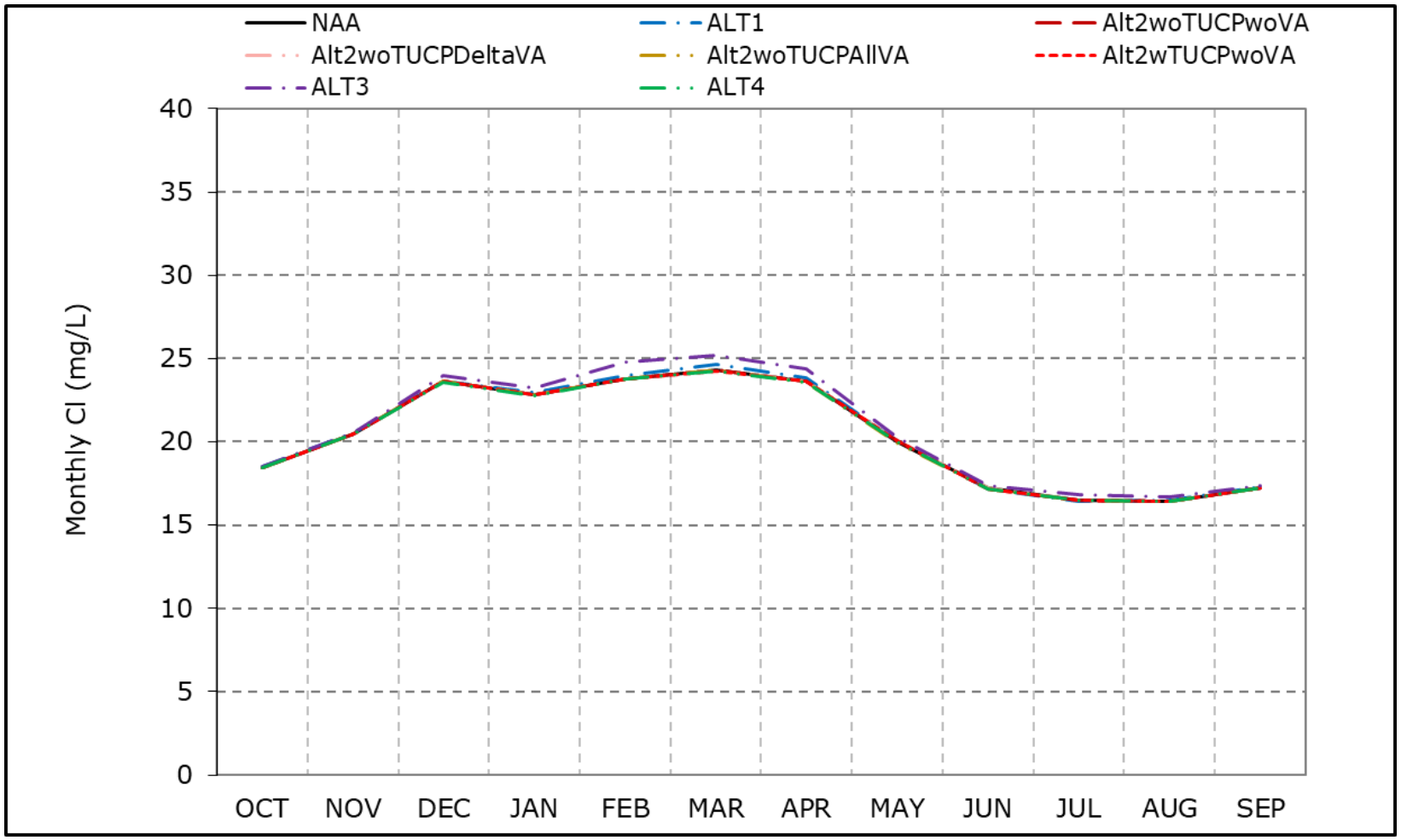
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-2. North Bay Aqueduct Chloride, Wet Year Average Chloride



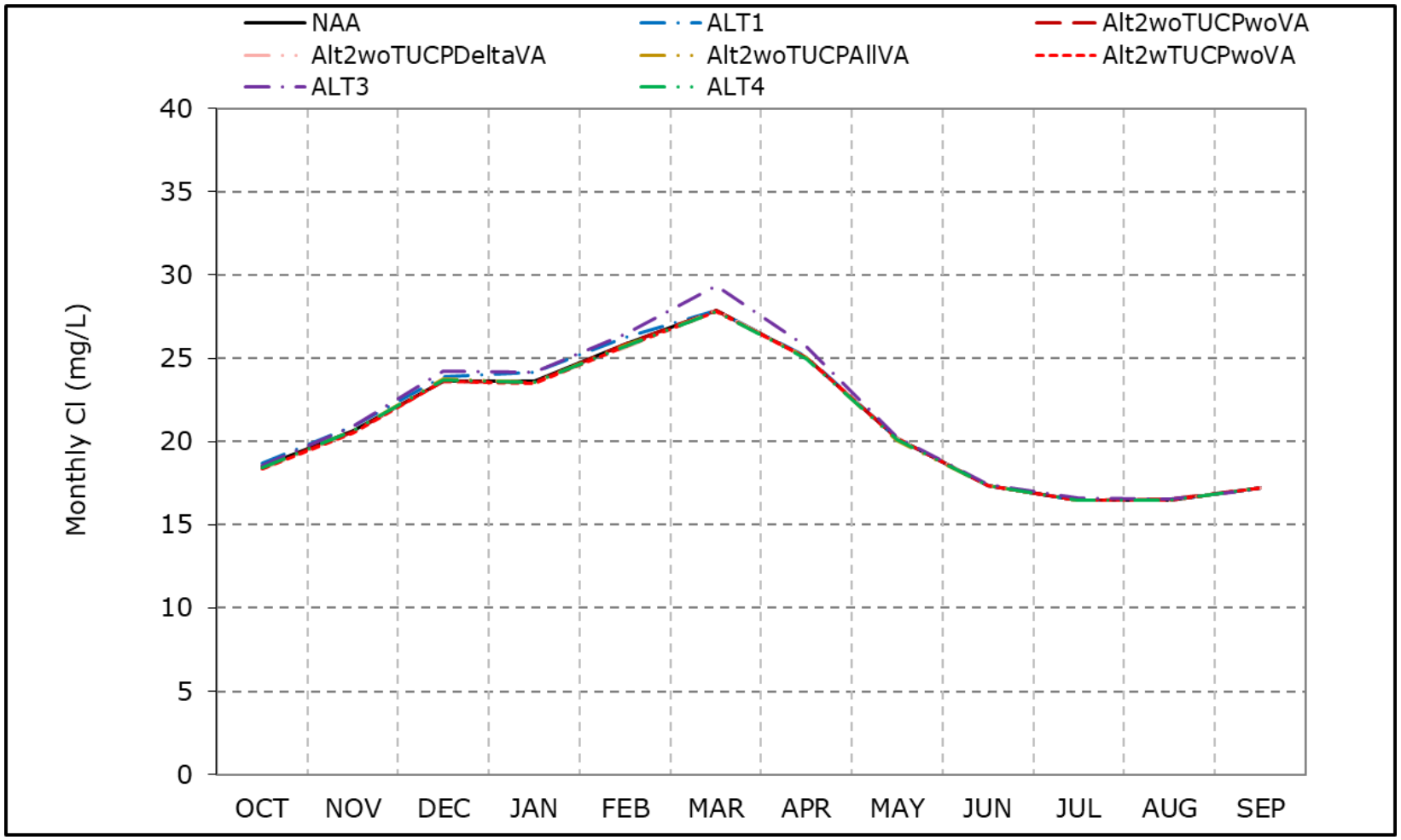
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-3. North Bay Aqueduct Chloride, Above Normal Year Average Chloride



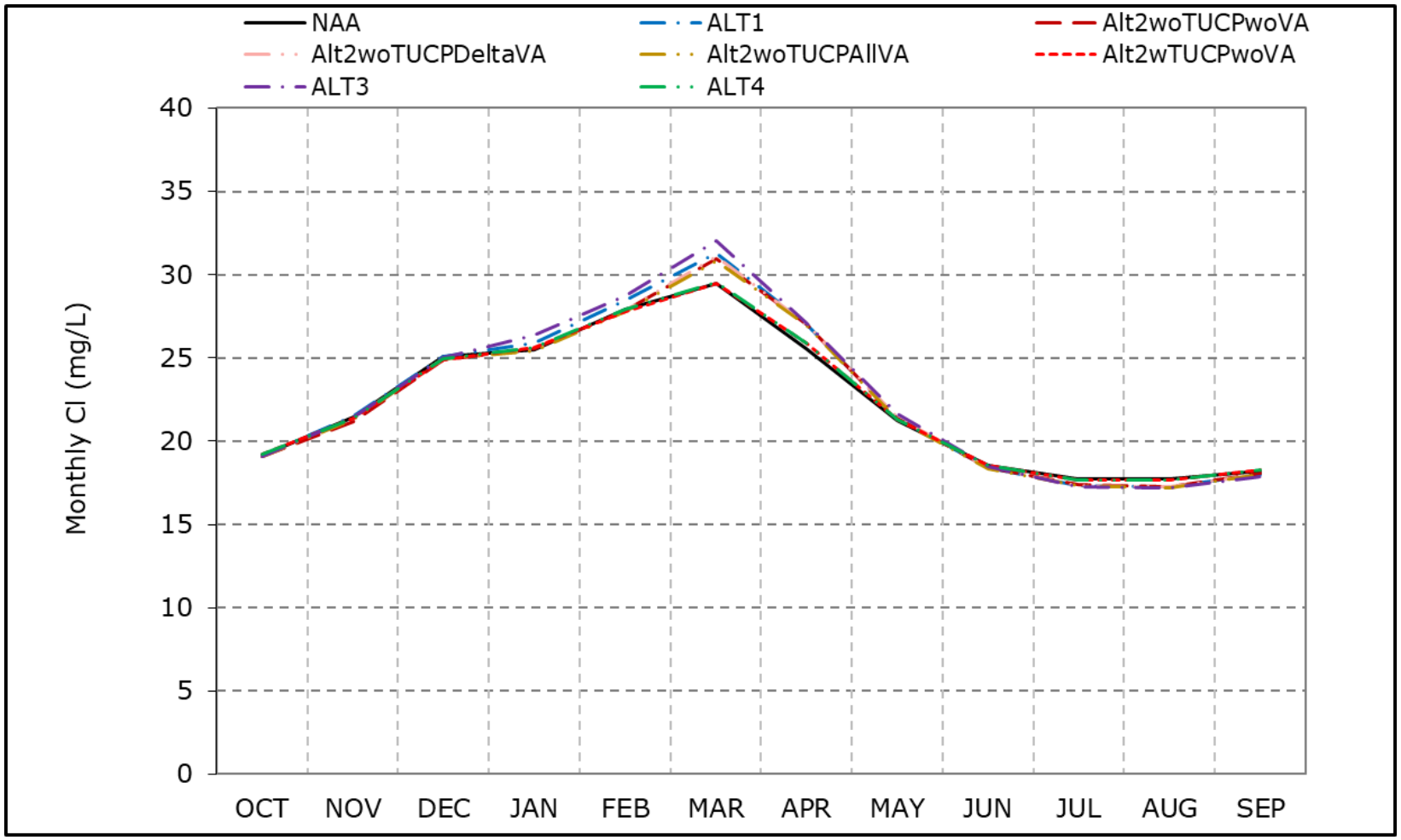
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-4. North Bay Aqueduct Chloride, Below Normal Year Average Chloride



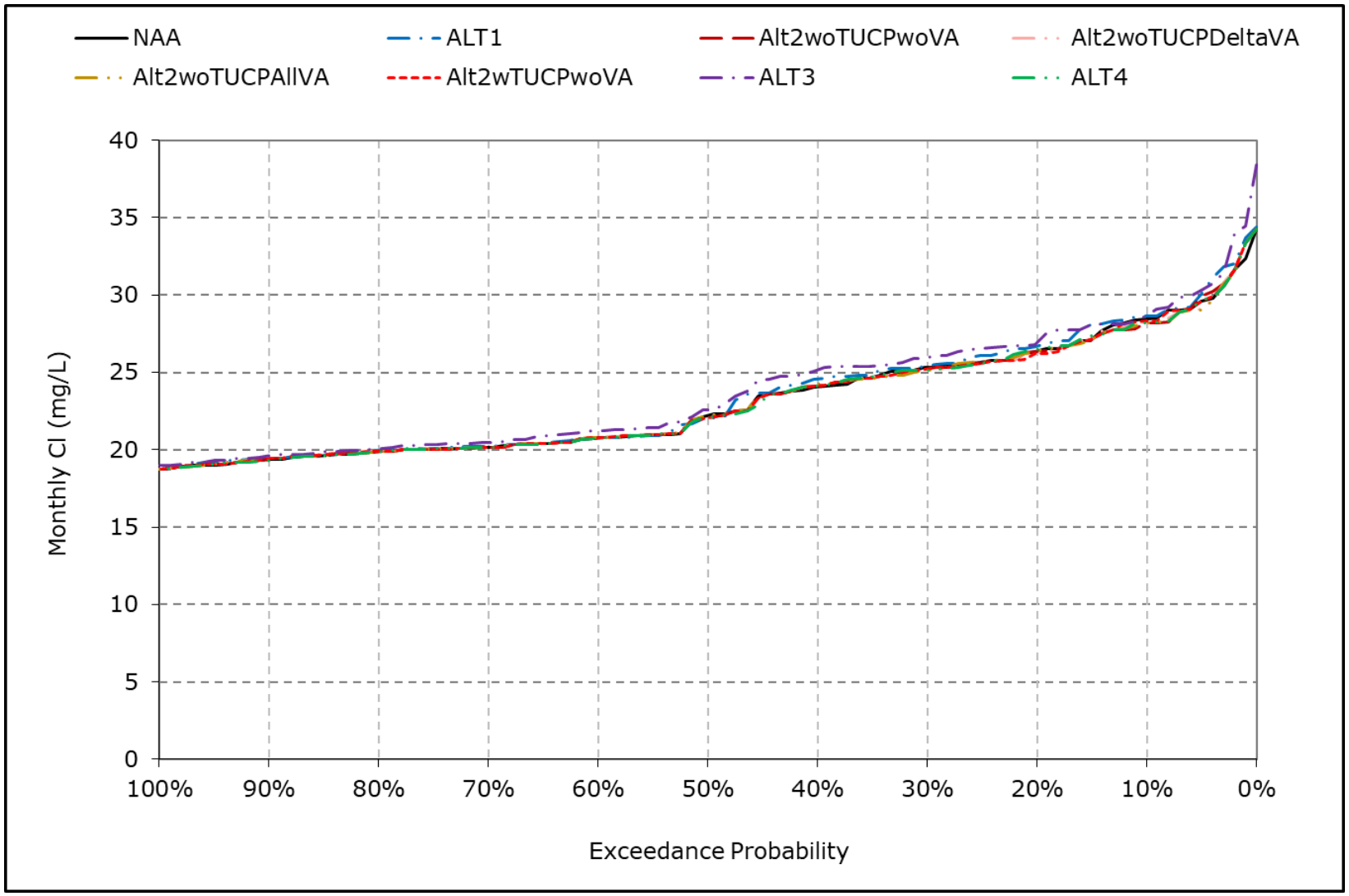
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-5. North Bay Aqueduct Chloride, Dry Year Average Chloride



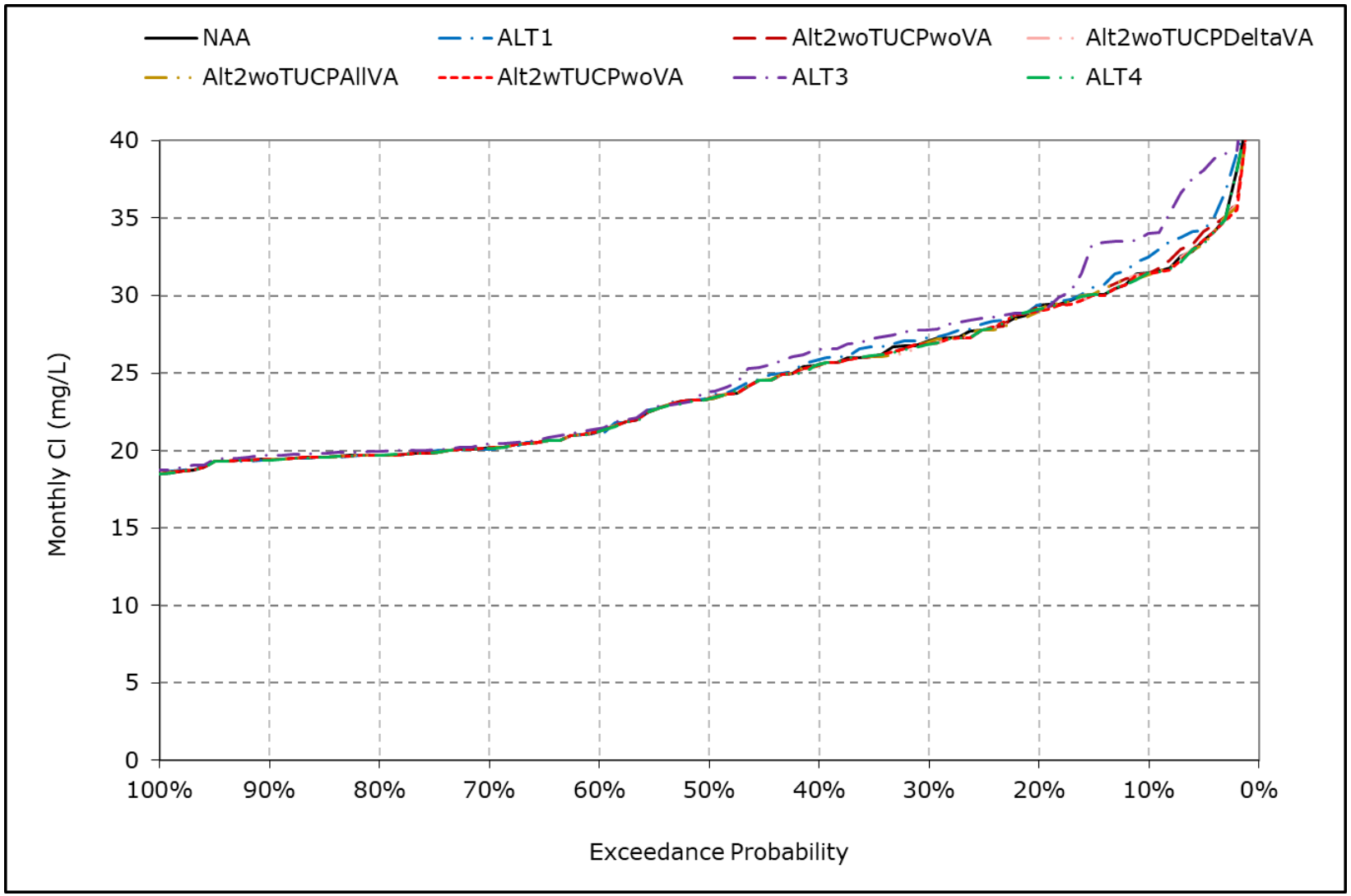
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-6. North Bay Aqueduct Chloride, Critical Year Average Chloride



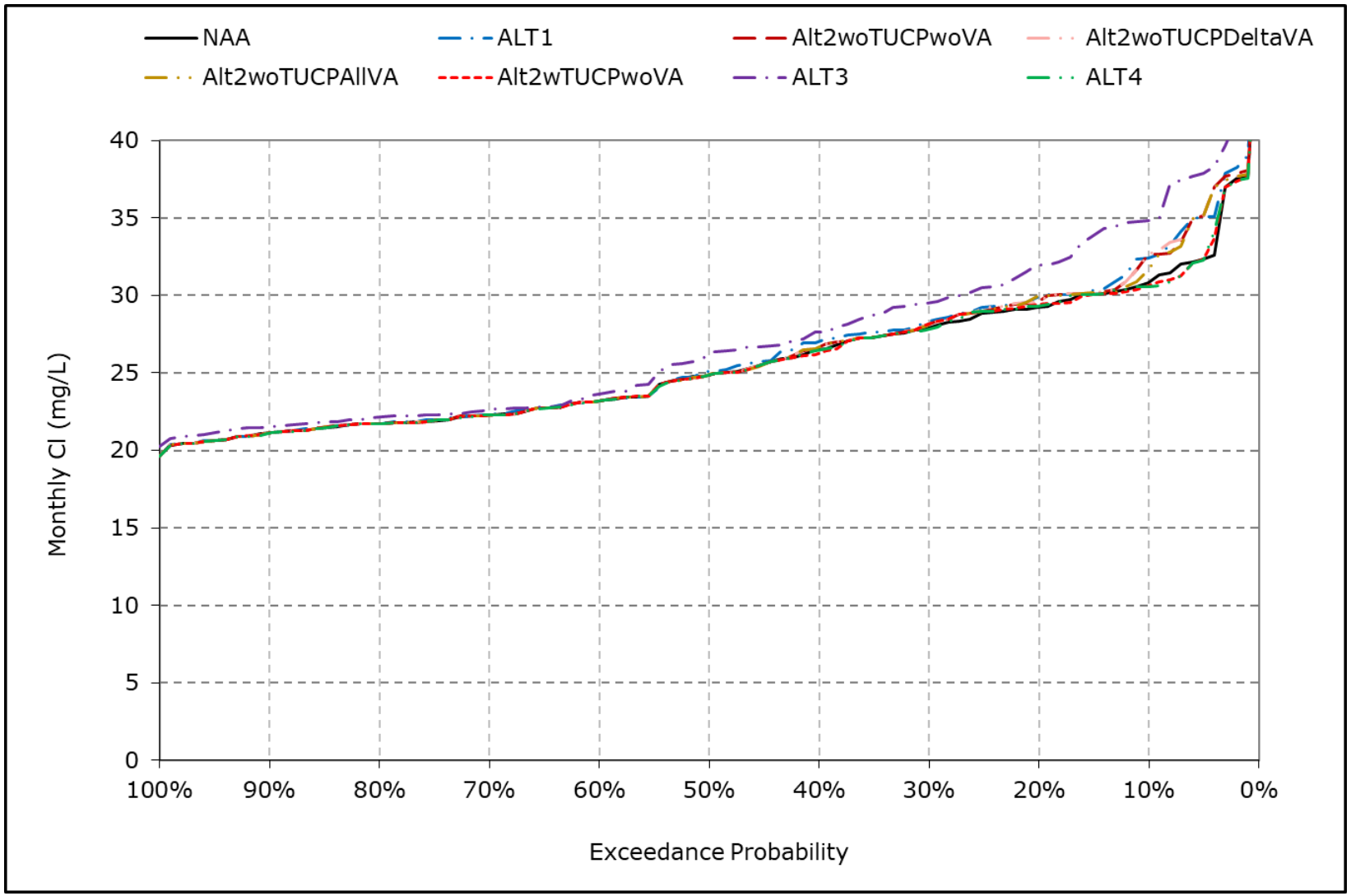
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-7. North Bay Aqueduct Chloride, January Chloride



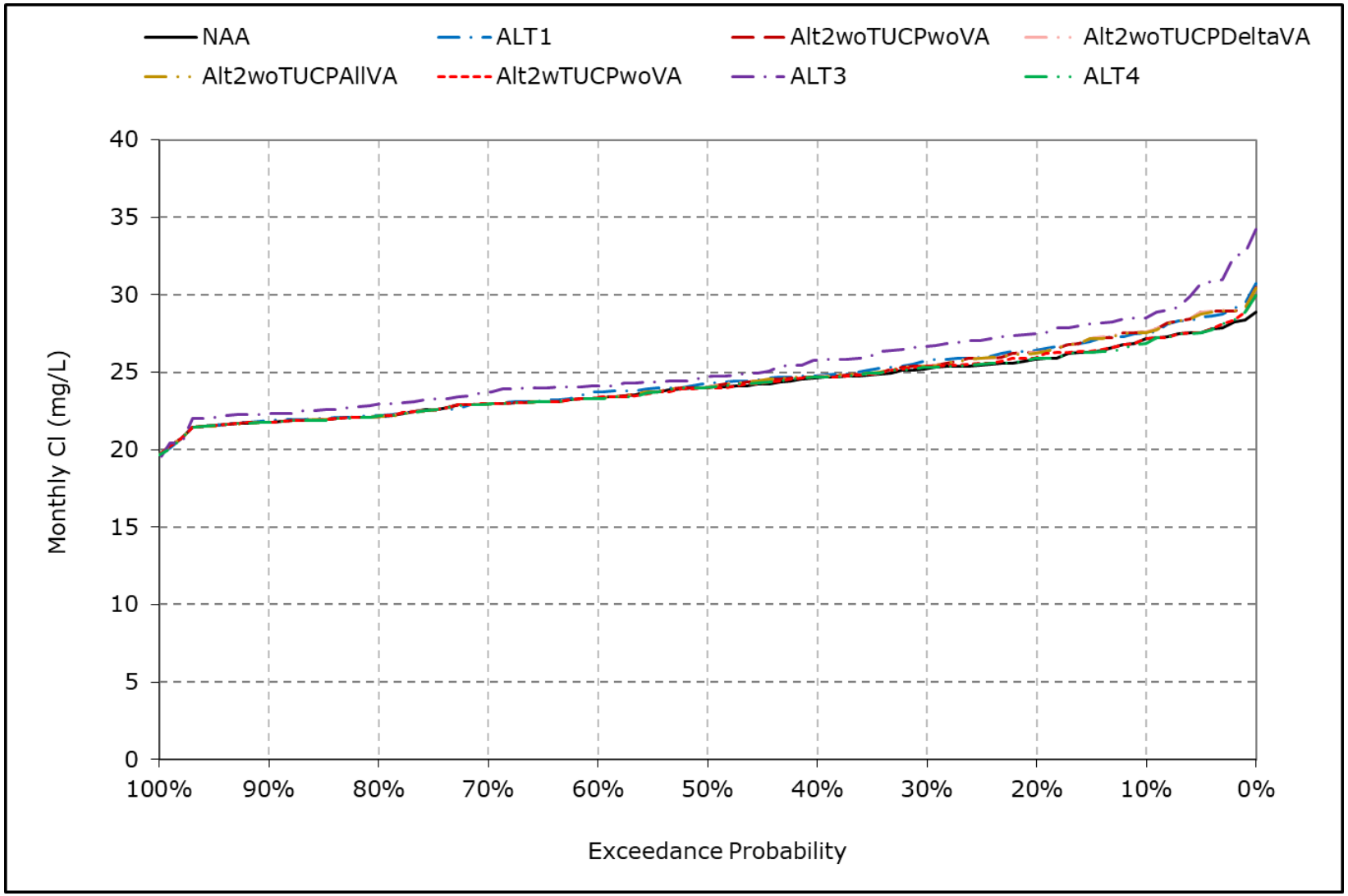
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-8. North Bay Aqueduct Chloride, February Chloride



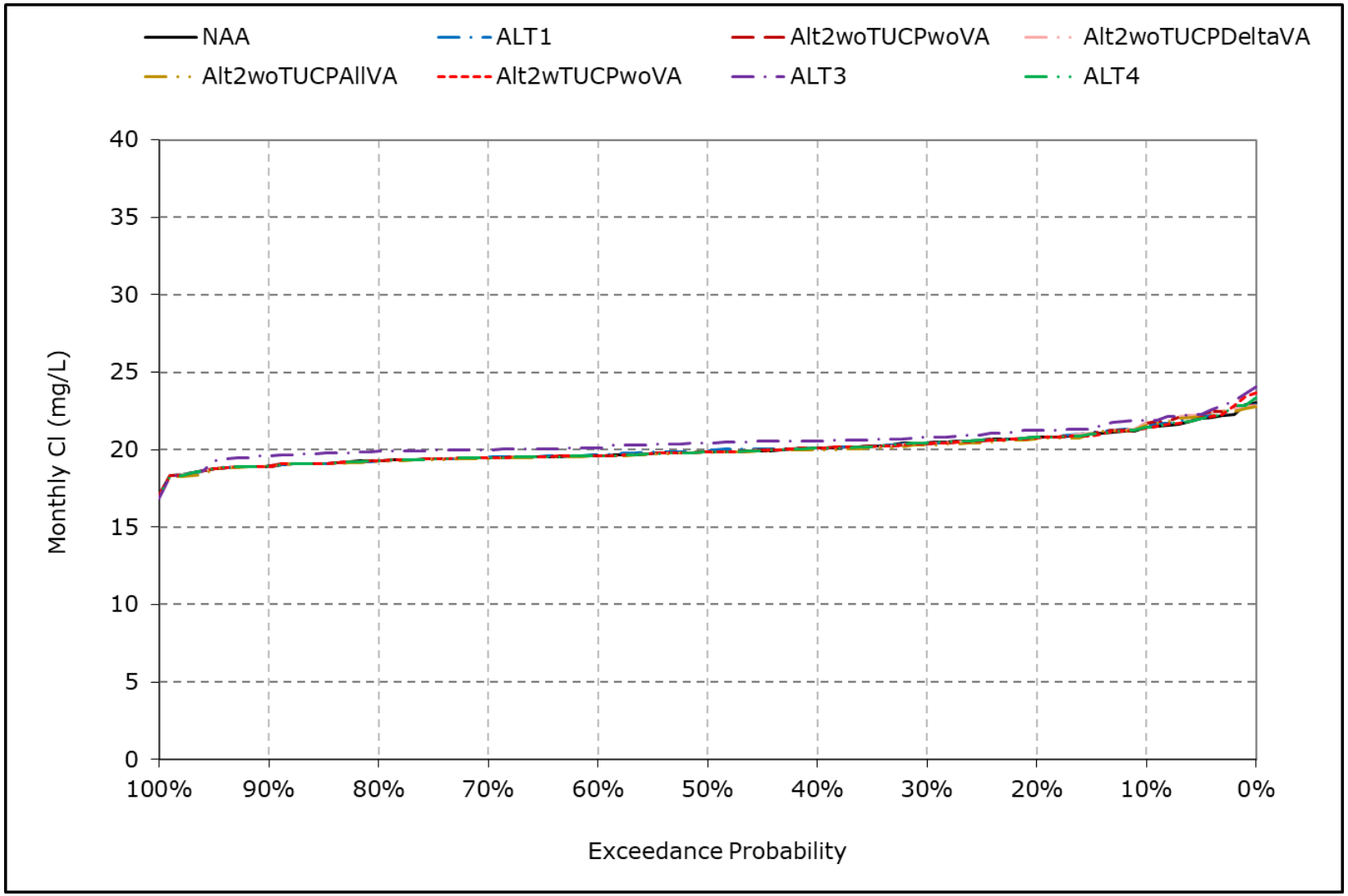
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-9. North Bay Aqueduct Chloride, March Chloride



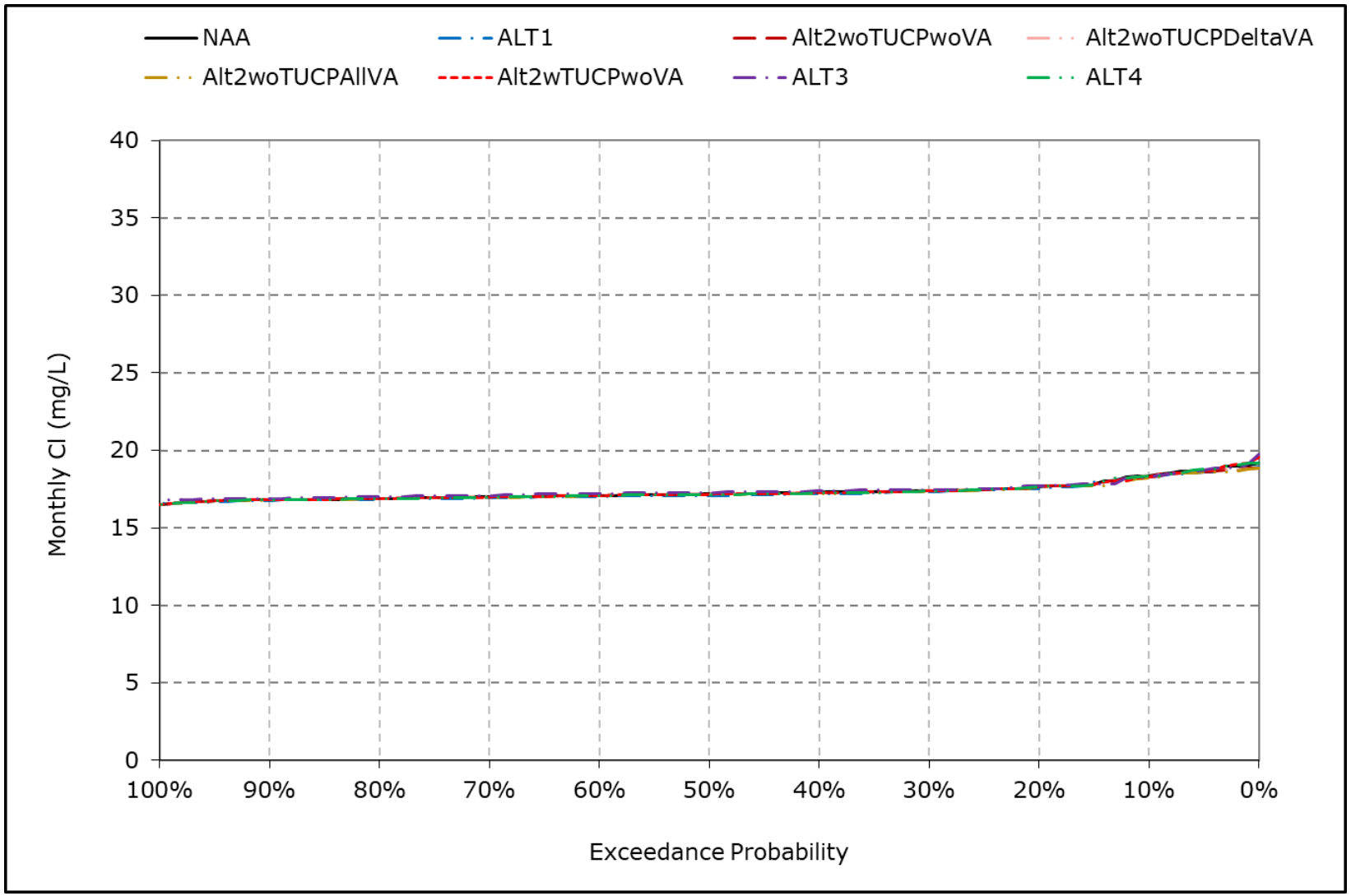
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-10. North Bay Aqueduct Chloride, April Chloride



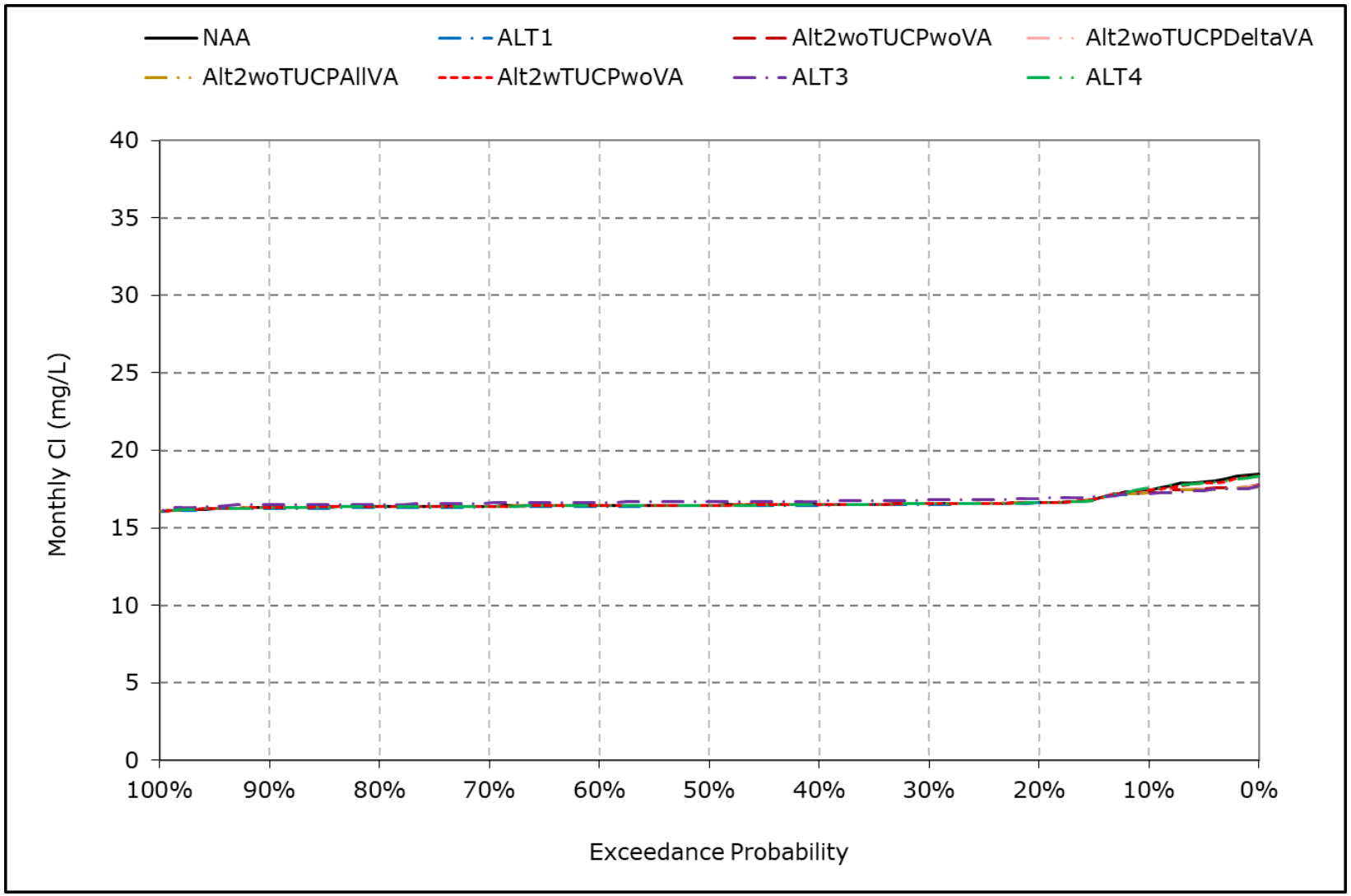
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-11. North Bay Aqueduct Chloride, May Chloride



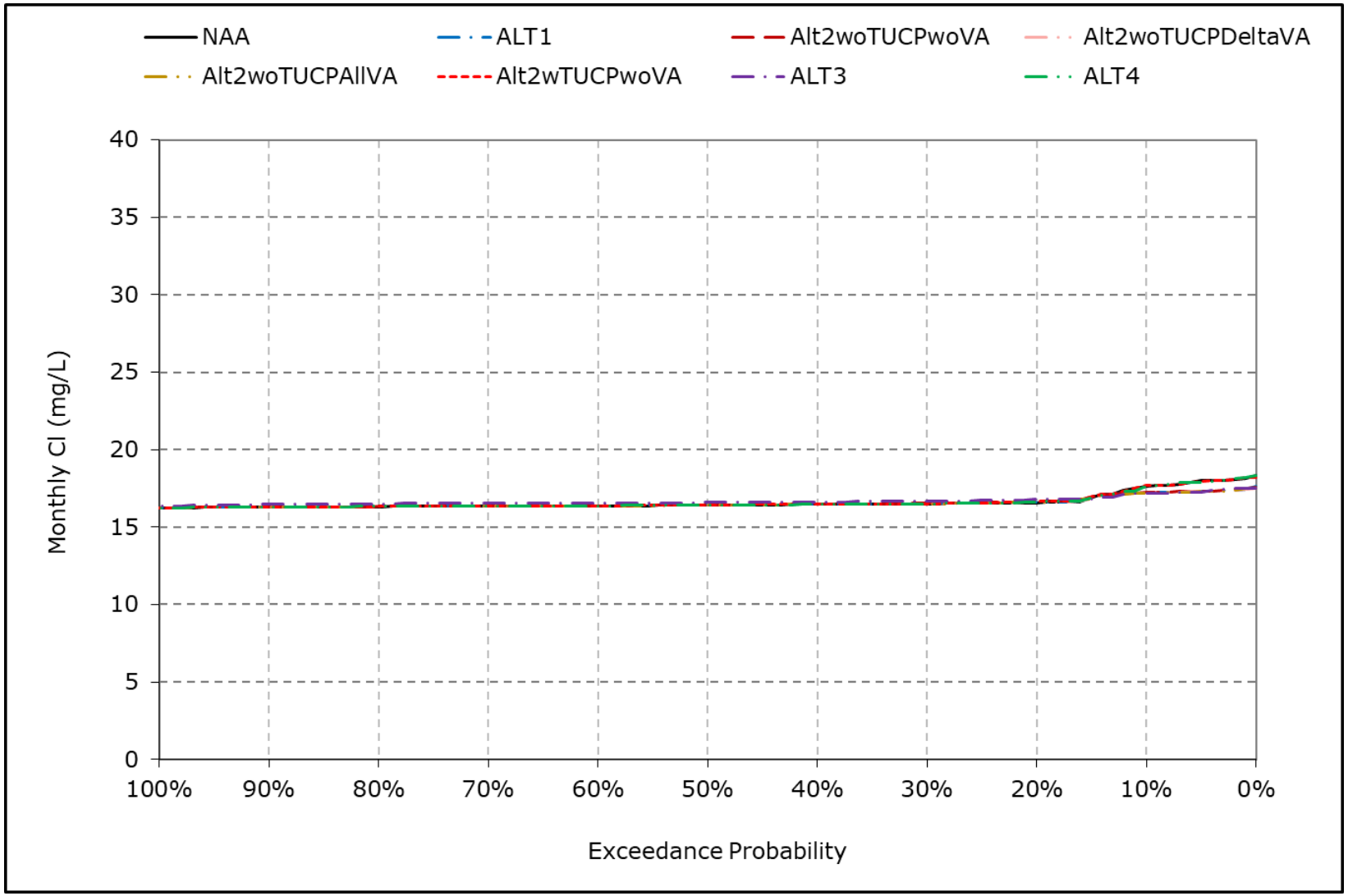
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-12. North Bay Aqueduct Chloride, June Chloride



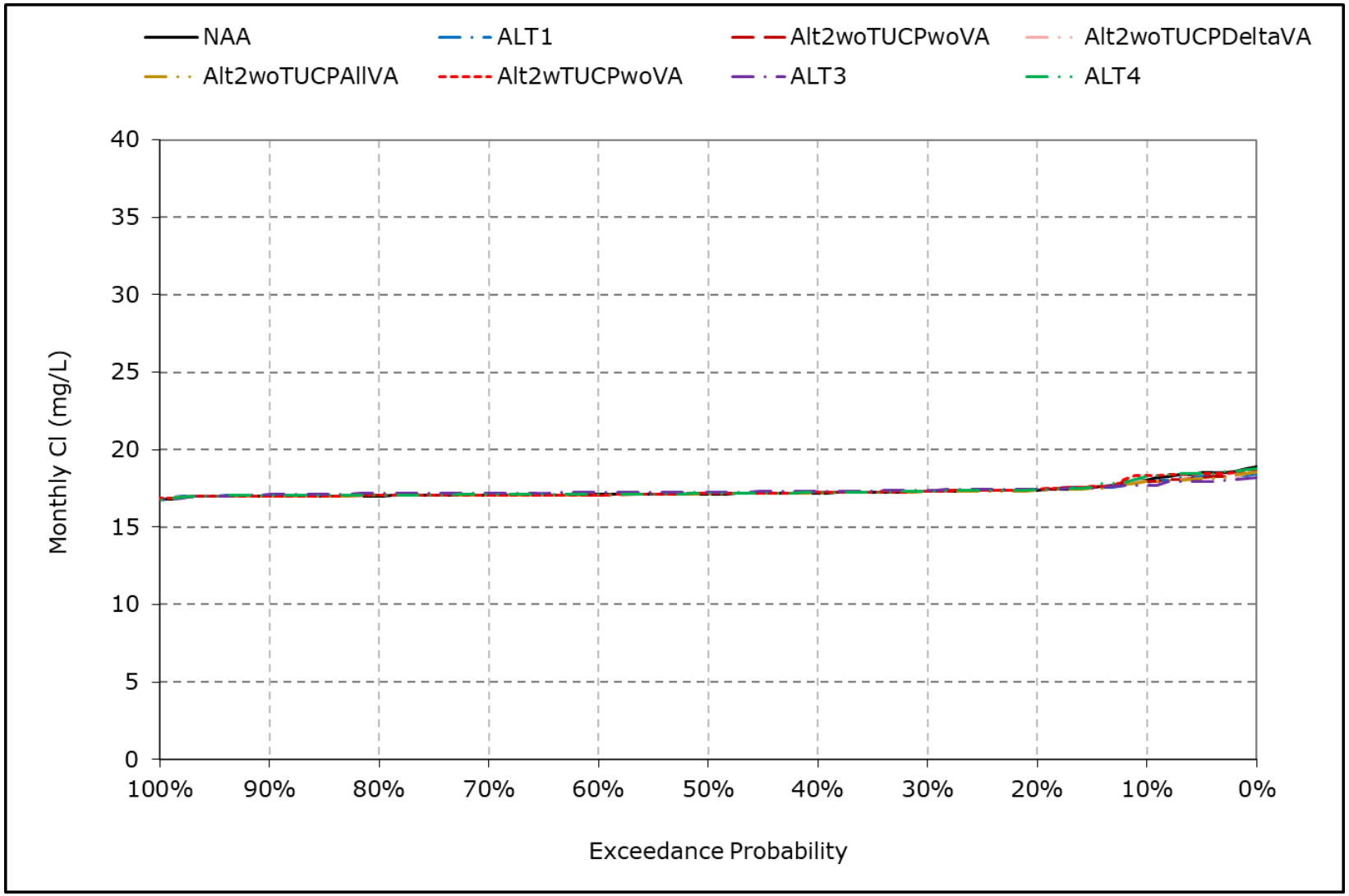
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-13. North Bay Aqueduct Chloride, July Chloride



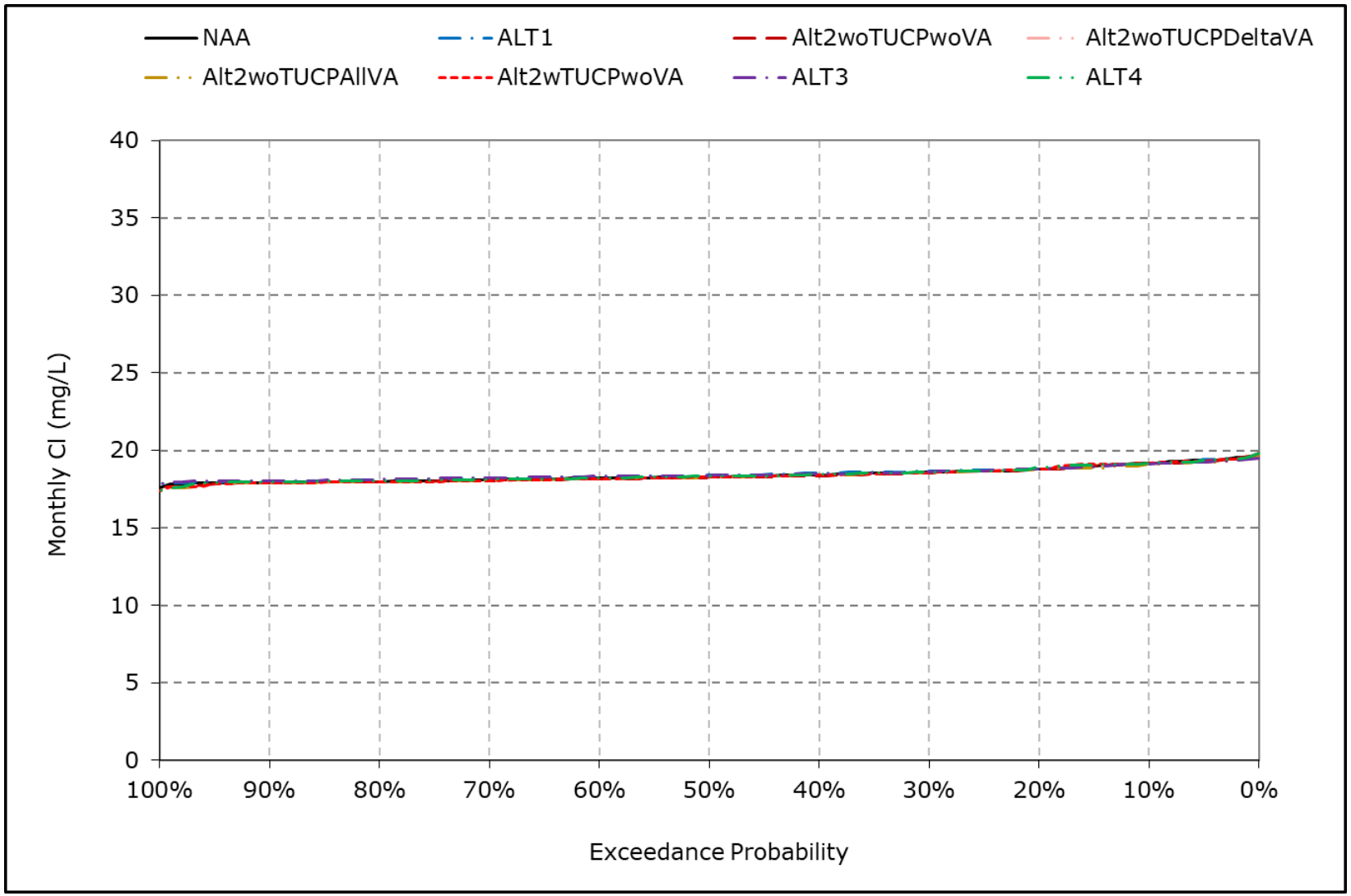
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-14. North Bay Aqueduct Chloride, August Chloride



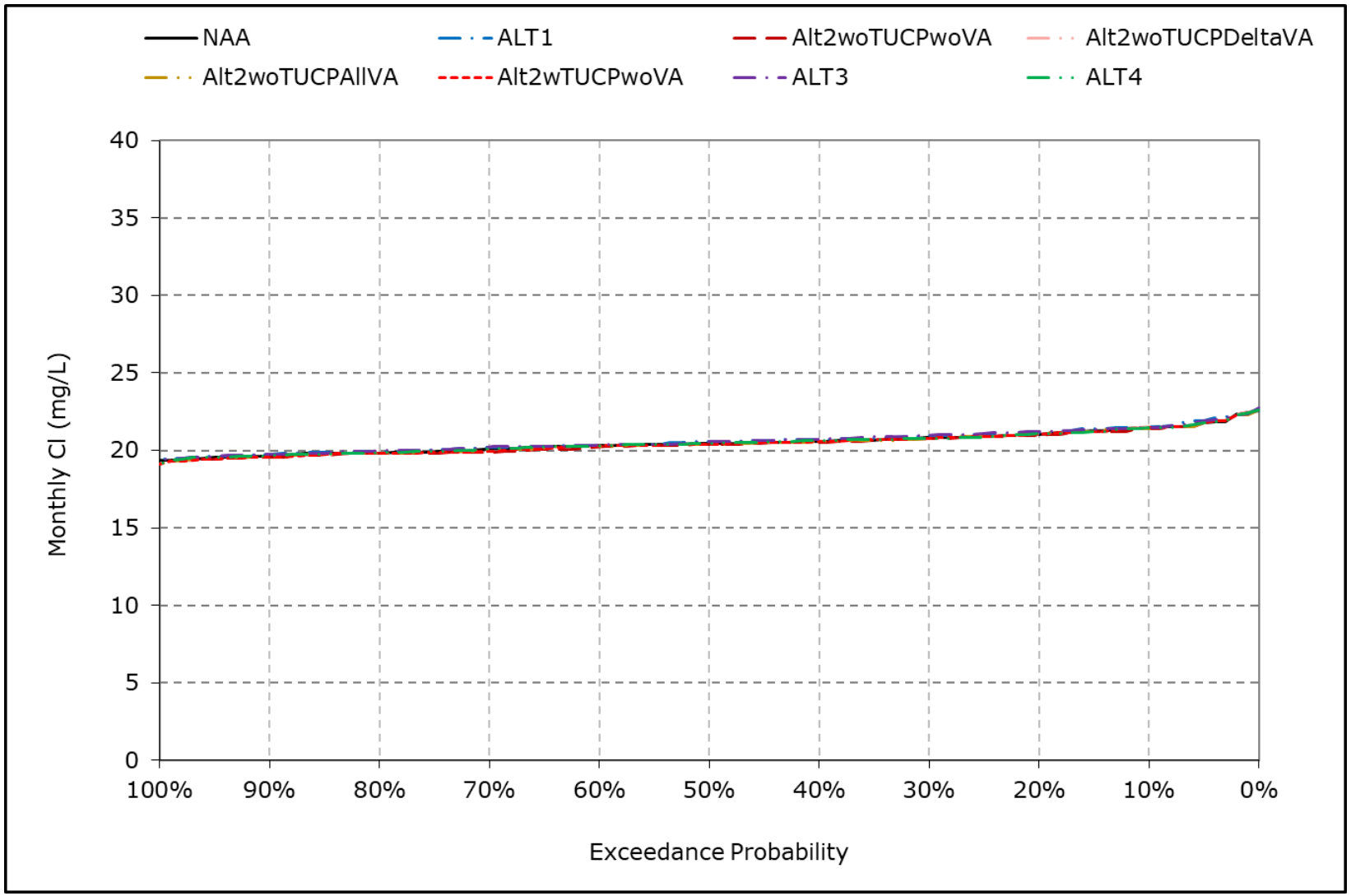
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-15. North Bay Aqueduct Chloride, September Chloride



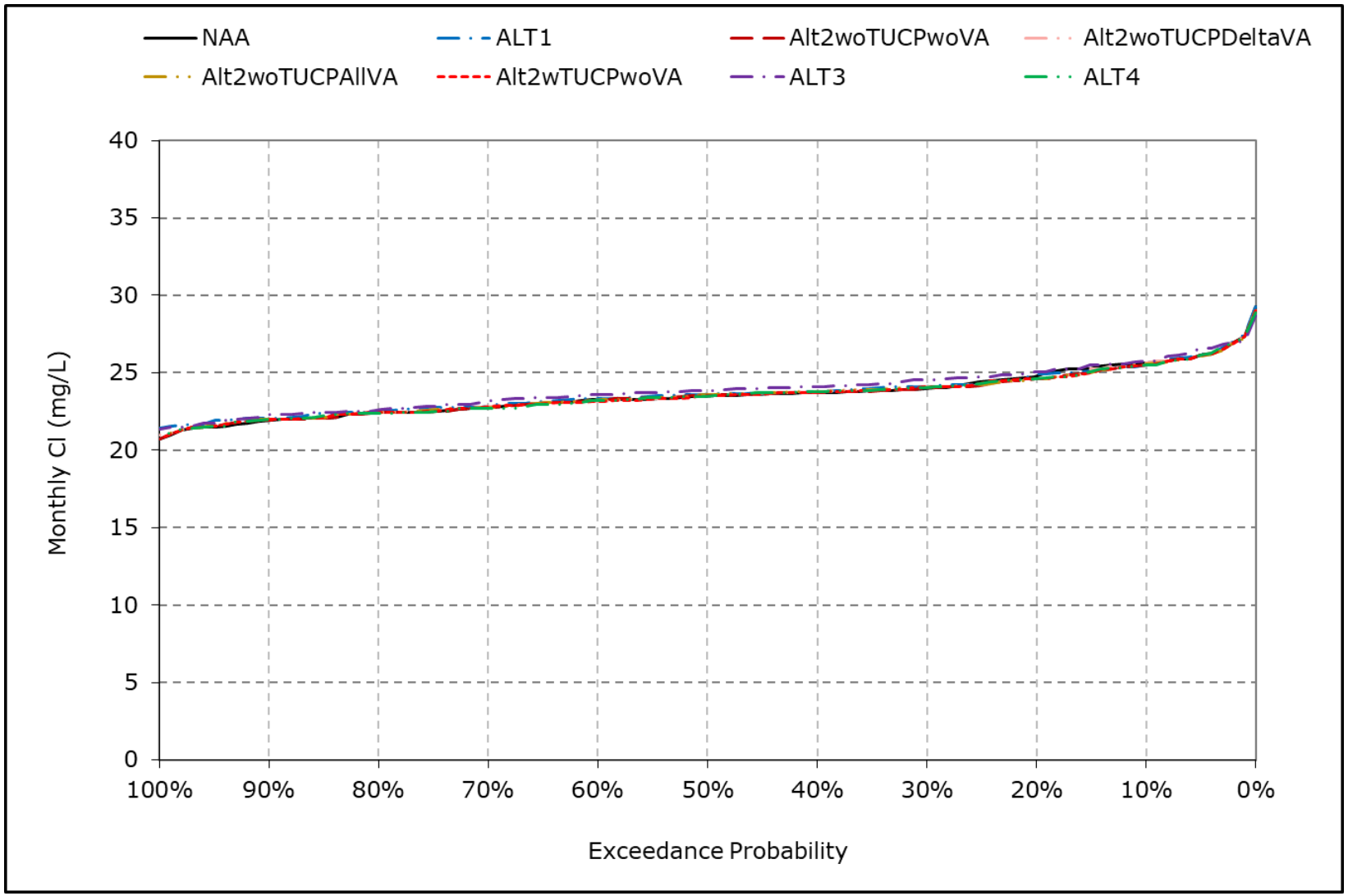
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-16. North Bay Aqueduct Chloride, October Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-17. North Bay Aqueduct Chloride, November Chloride



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.7-5-18. North Bay Aqueduct Chloride, December Chloride

Appendix F, Modeling

Attachment 2-8 Water Quality Compliance

Results

The following results of the Water Quality Compliance with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- ALT1 090923 (ALT1)
- Alt2woTUCPwoVA 091324 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 091324 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAllVA 091324 (Alt2woTUCPAllVA)
- Alt2wTUCPwoVA 091324 (Alt2wTUCPwoVA)
- ALT3 101323 (ALT3)
- ALT4 091624 (ALT4)

Section	Output Parameters	Figure Numbers
EC	D1641 AG Clifton Court Forebay	Figure 1
EC	D1641 AG South Fork Mokelumne River at Terminus	Figure 2
EC	D1641 AG Sacramento River at Emmaton	Figure 3
EC	D1641 AG San Joaquin River at Jersey Point	Figure 4
EC	D1641 AG San Joaquin River at San Andreas Landing	Figure 5
EC	D1641 AG Delta Mendota Canal at Tracy Pumping Plant	Figure 6
EC	D1641 FWS Chadbourne Slough at Sunrise Duck Club	Figure 7
EC	D1641 FWS Montezuma Slough near Beldons Landing	Figure 8

Section	Output Parameters	Figure Numbers
EC	D1641 FWS Montezuma Slough at National Steel	Figure 9
EC	D1641 FWS Sacramento River at Collinsville	Figure 10
EC	D1641 FWS San Joaquin River at Jersey Point	Figure 11
EC	D1641 FWS San Joaquin River at Prisoners Point	Figure 12
EC	D1641 FWS Suisun Slough 300 ft south of Volanti Slough	Figure 13
Chloride	D1641 MI Cache Slough at City of Vallejo Intake	Figure 14
Chloride	D1641 MI Clifton Court Forebay	Figure 15
Chloride	D1641 MI Contra Costa Canal at Pumping Plant #1	Figure 16
Chloride	D1641 MI Delta Mendota Canal at Tracy Pumping Plant	Figure 17
Chloride	D1641 MI Barker Slough at North Bay Aqueduct Intake	Figure 18

Report Formats

Report includes monthly exceedance charts (all months) present all alternatives.

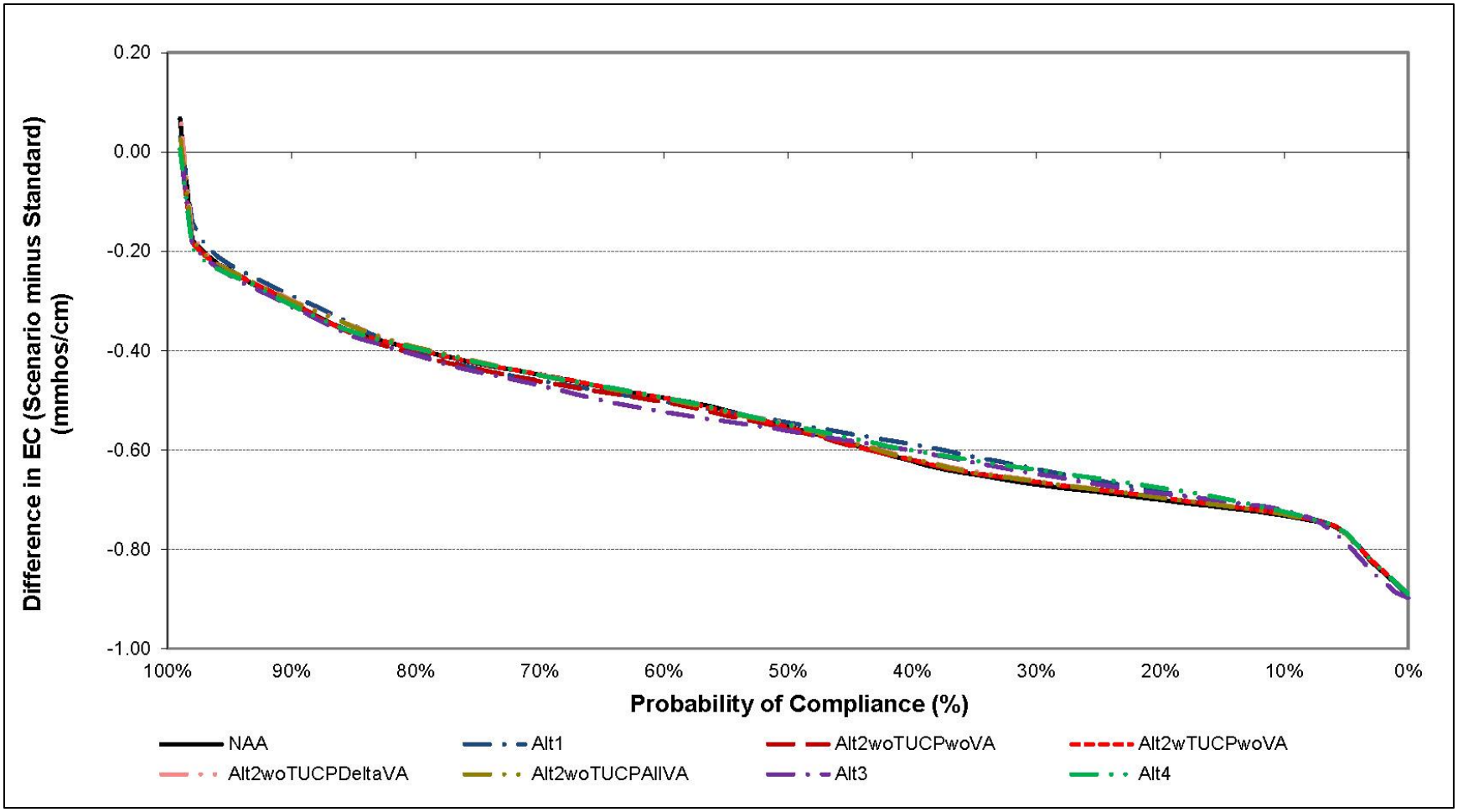


Figure 1. D-1641 AG Clifton Court Forebay Compliance Exceedance Plot

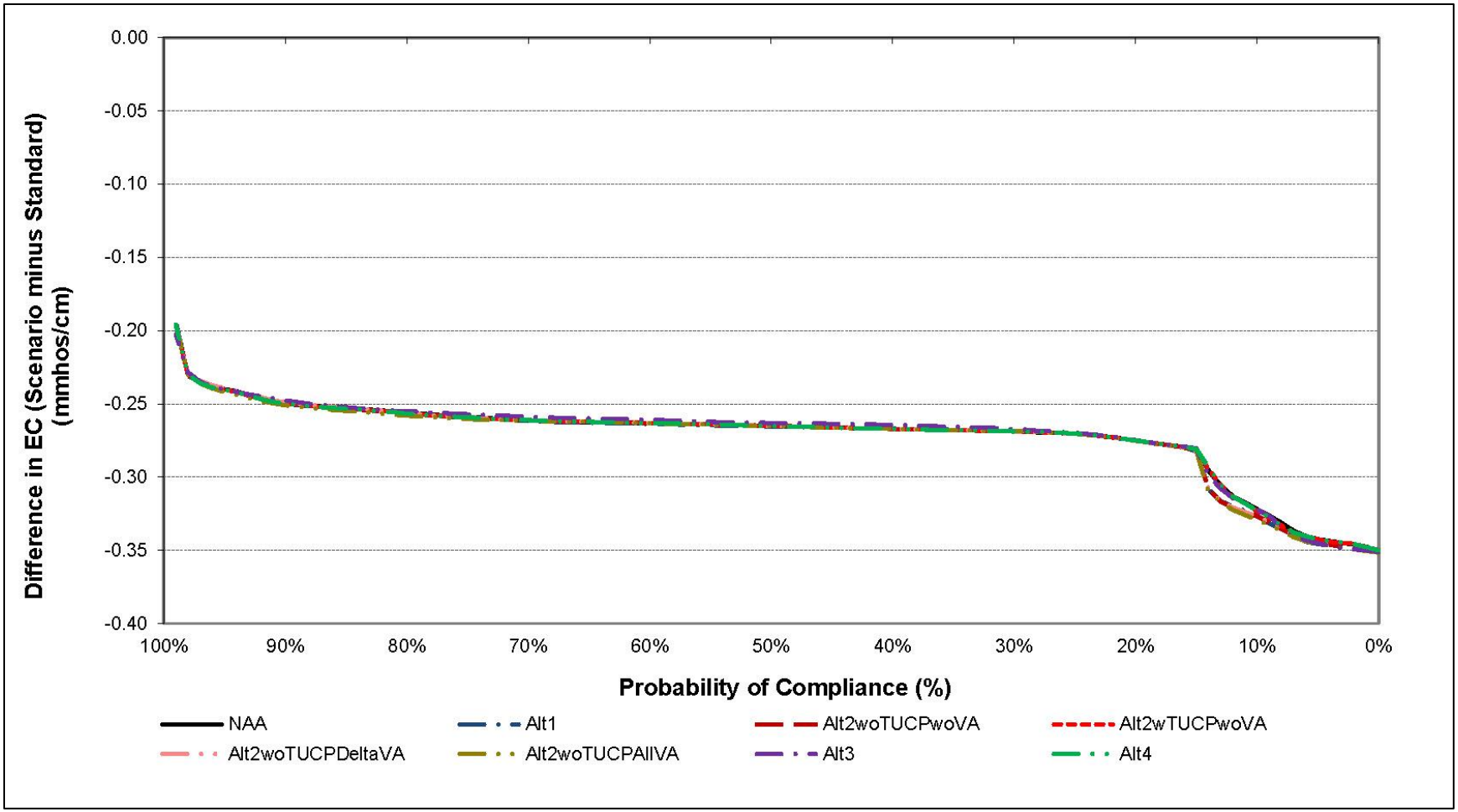


Figure 2. D-1641 AG South Fork Mokelumne River at Terminus Compliance Exceedance Plot

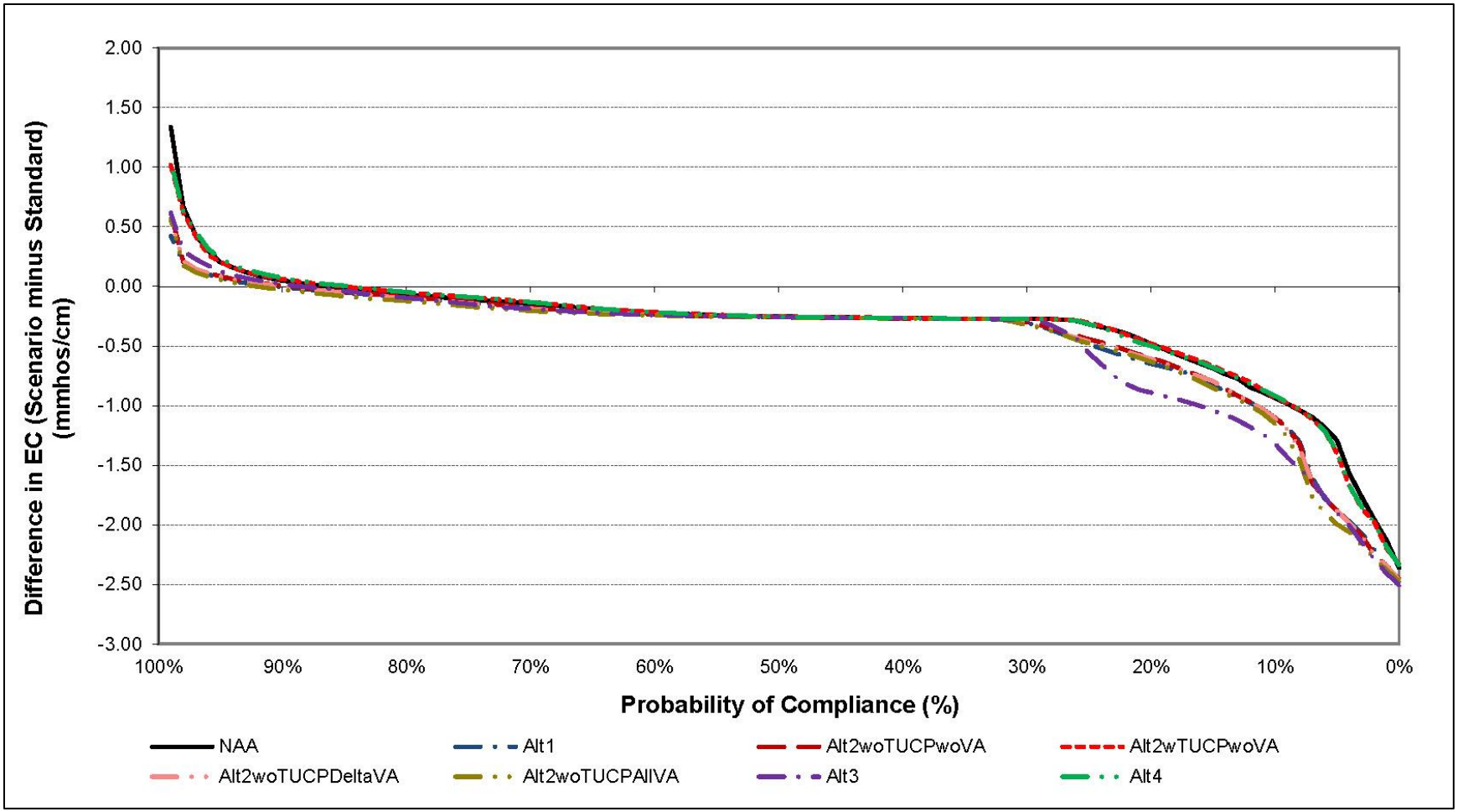


Figure 3. D-1641 AG Sacramento River at Emmaton Compliance Exceedance Plot

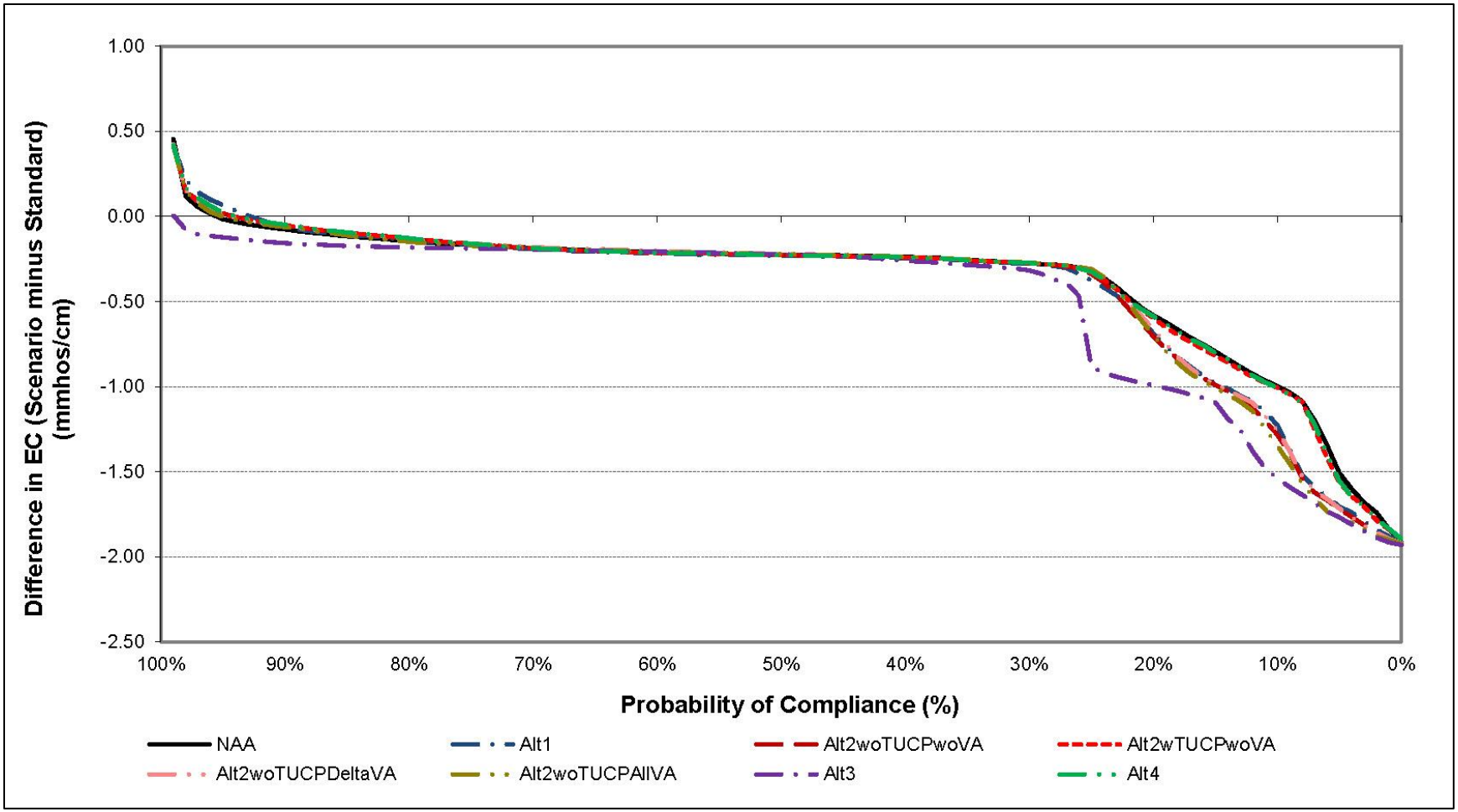


Figure 4. D-1641 AG San Joaquin River at Jersey Point Compliance Exceedance Plot

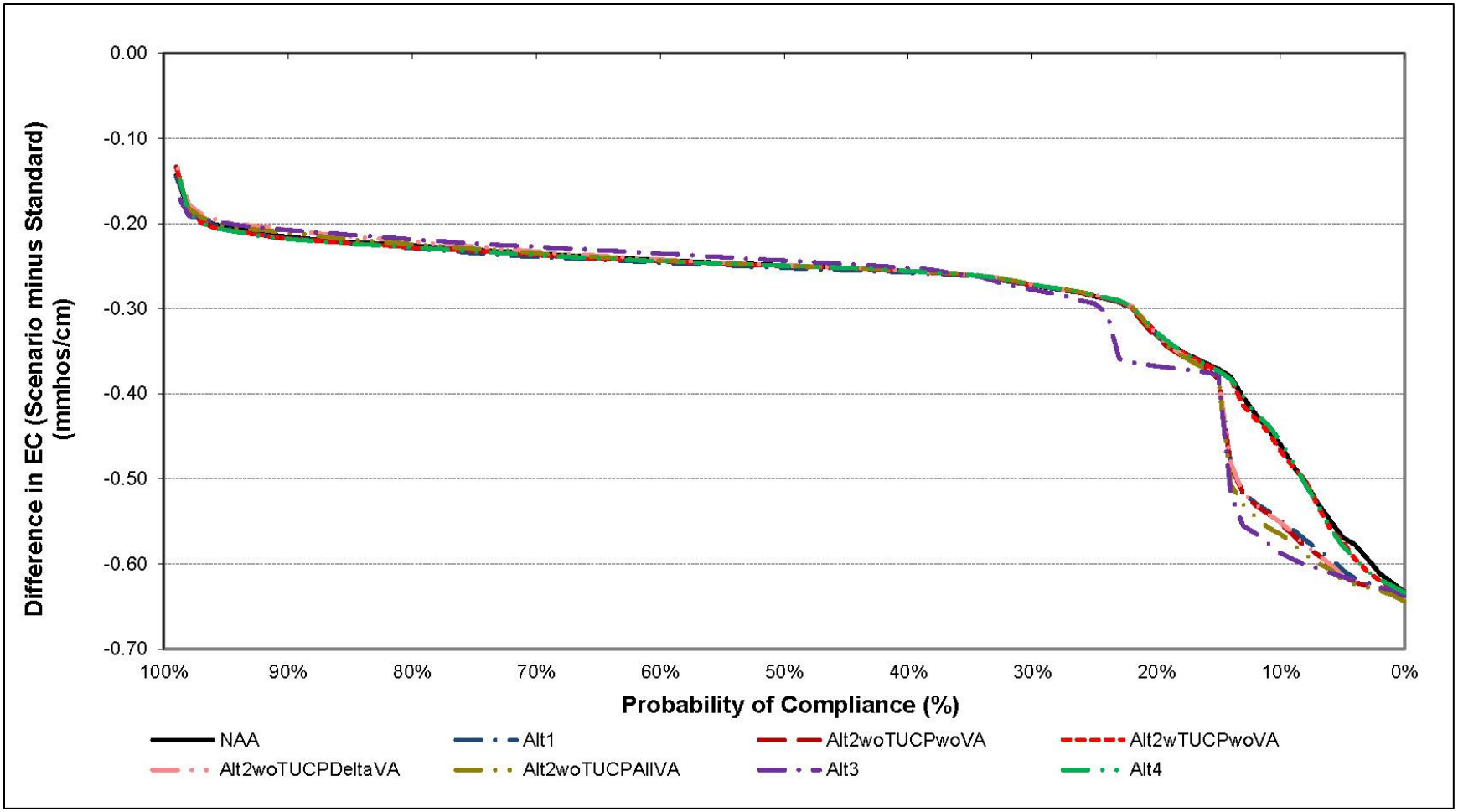


Figure 5. D-1641 AG San Joaquin River at San Andreas Landing Compliance Exceedance Plot

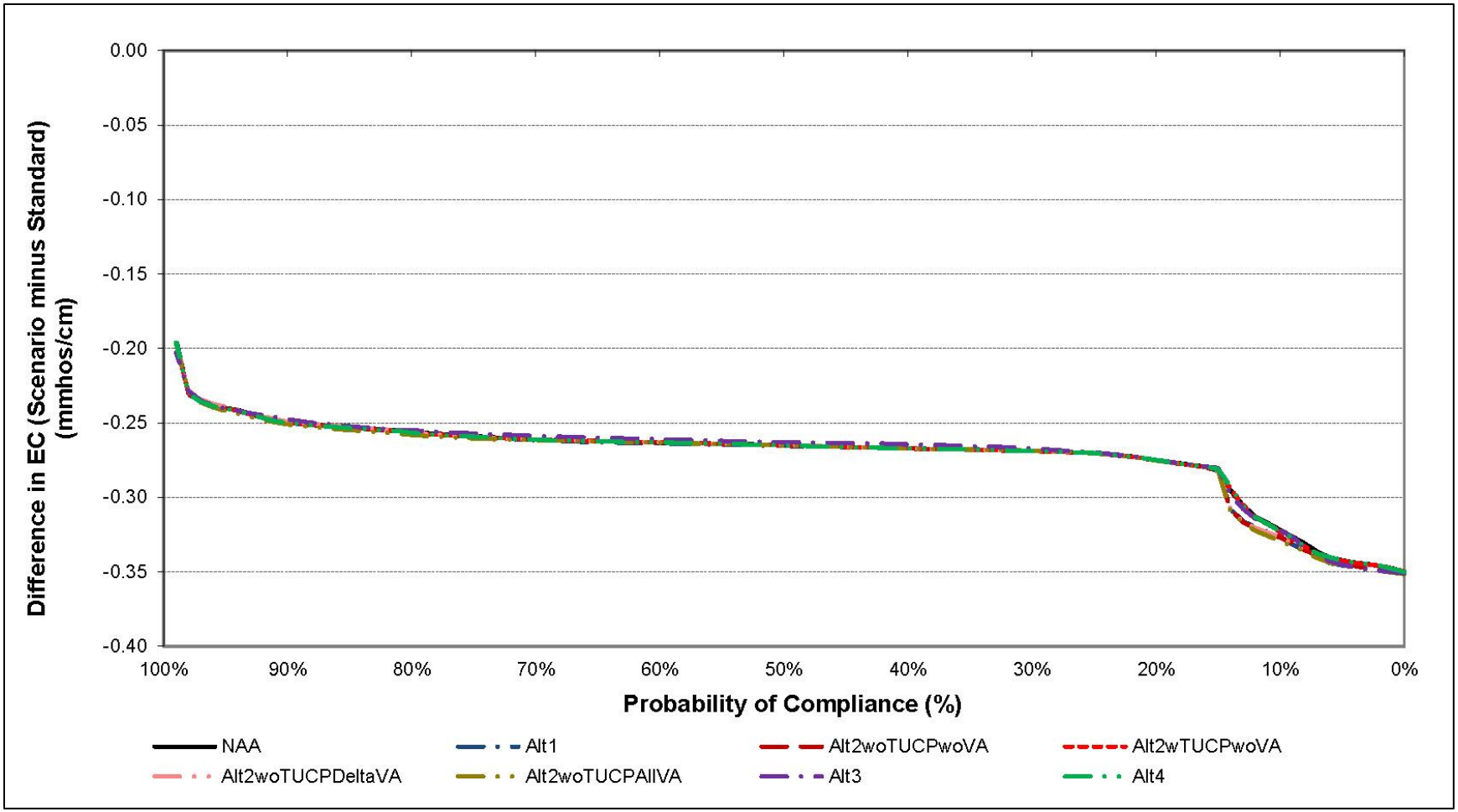


Figure 6. D-1641 AG Delta Mendota Canal at Tracy Pumping Plant Compliance Exceedance Plot

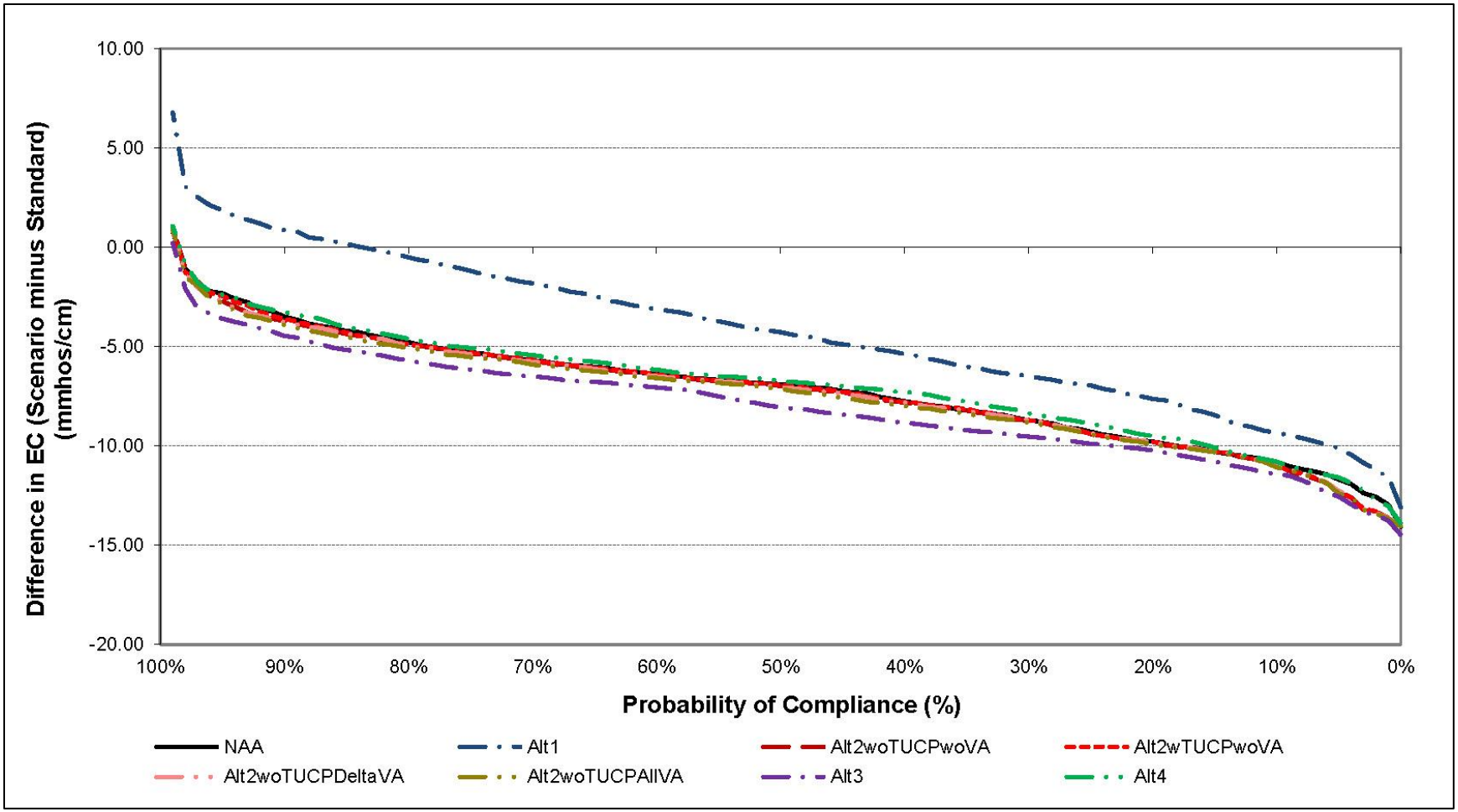


Figure 7. D-1641 FWS Chadbourne Slough at Sunrise Duck Club Compliance Exceedance Plot

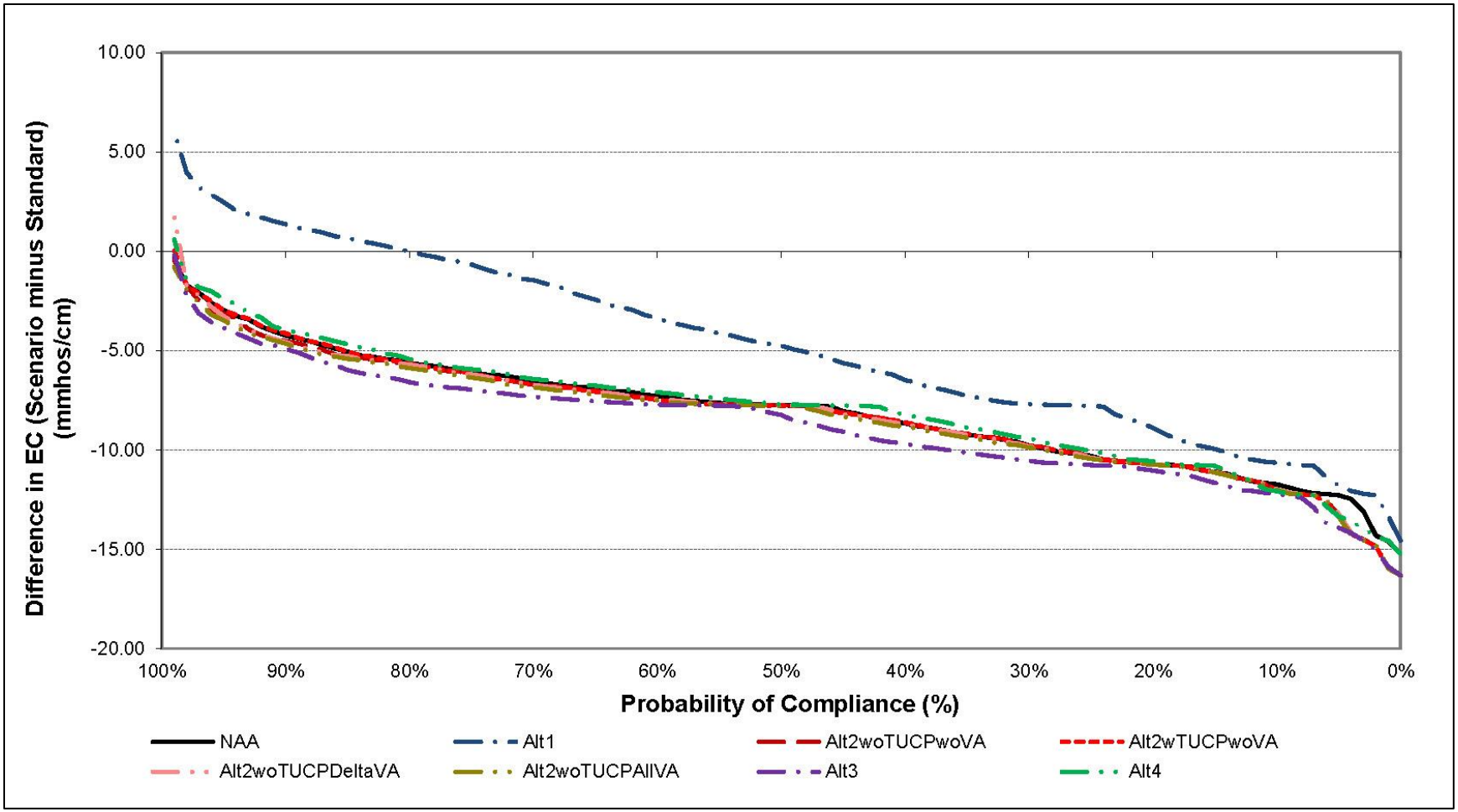


Figure 8. D-1641 FWS Montezuma Slough near Beldons Landing Compliance Exceedance Plot

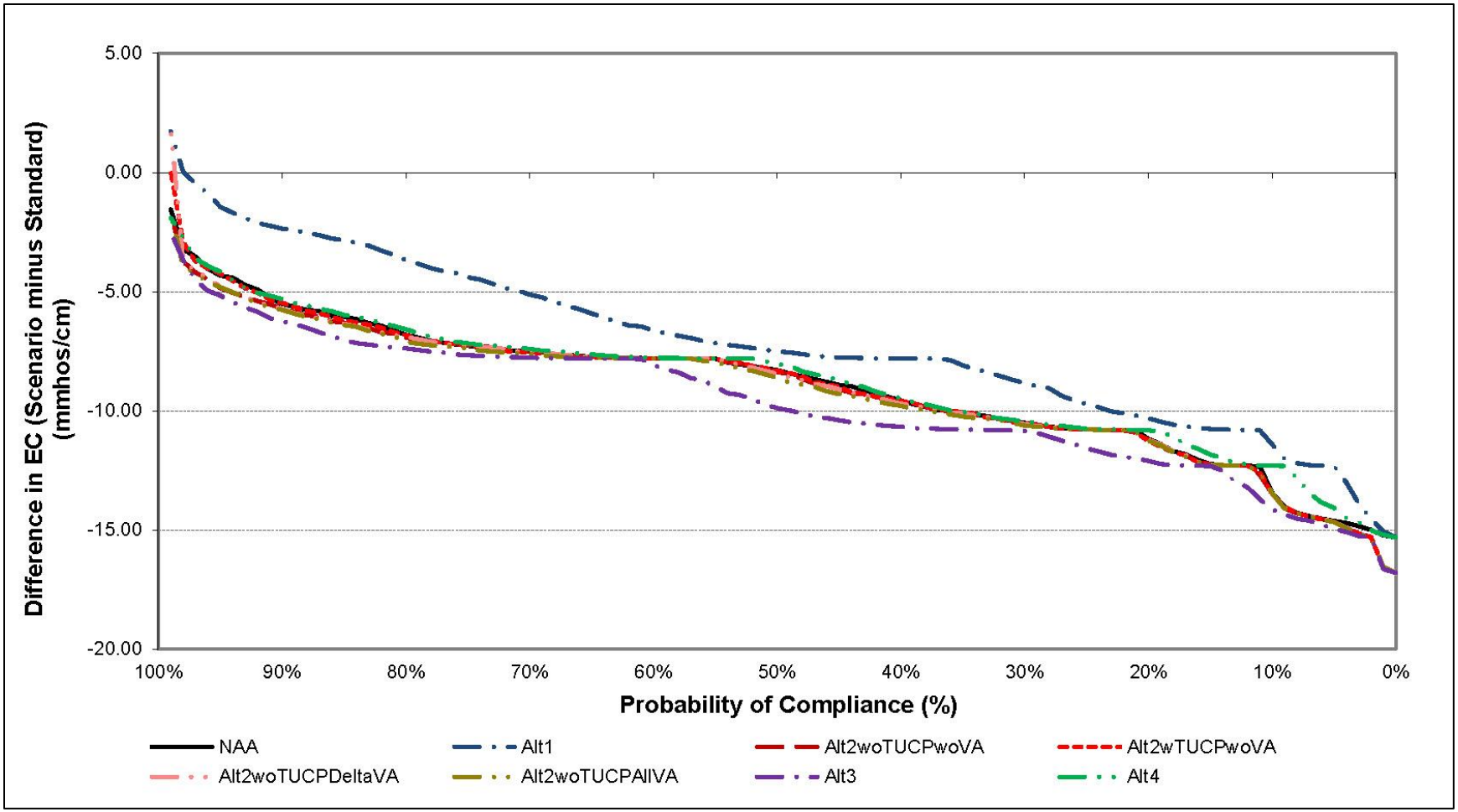


Figure 9. D-1641 FWS Montezuma Slough at National Steel Compliance Exceedance Plot

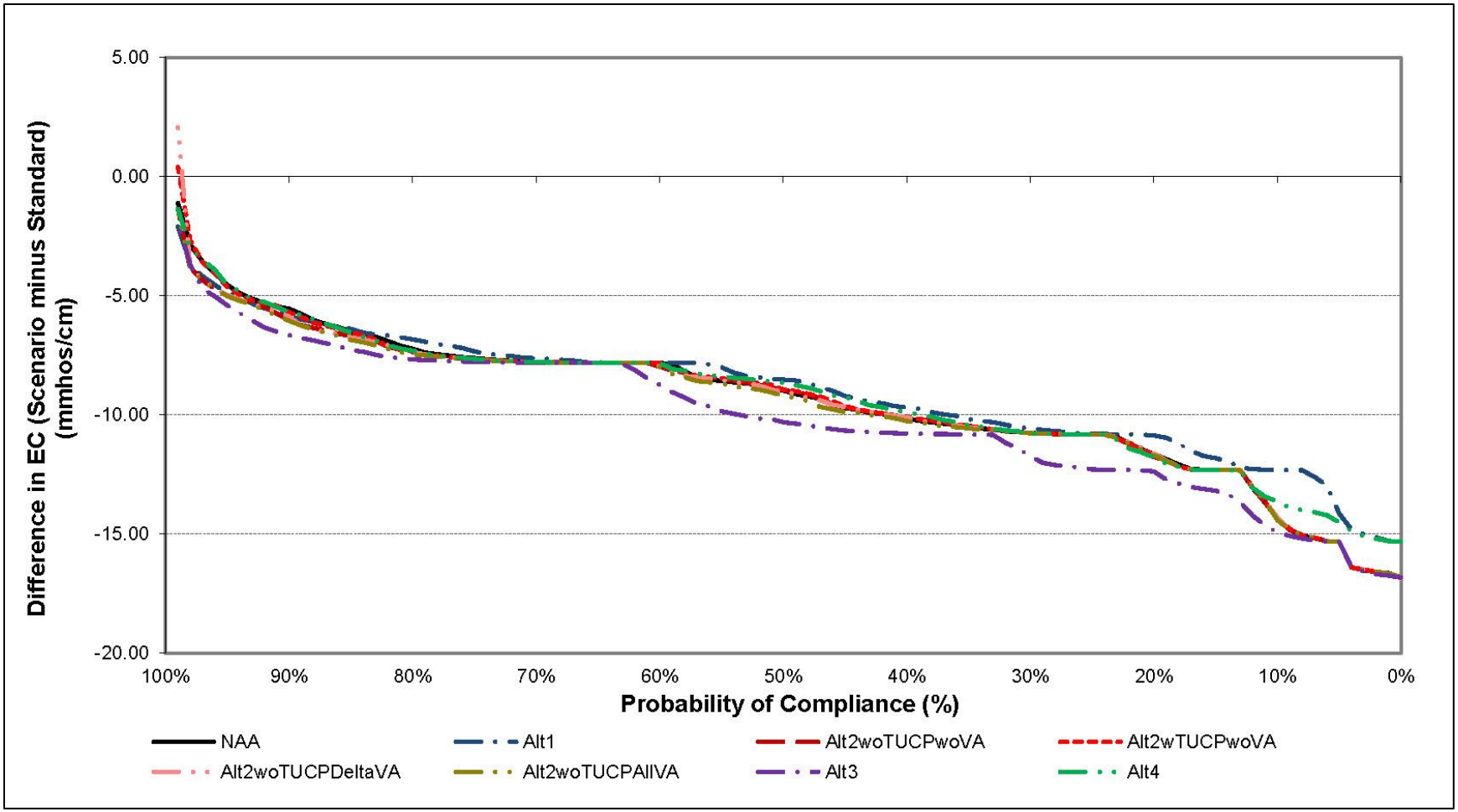


Figure 10. D-1641 FWS Sacramento River at Collinsville Compliance Exceedance Plot

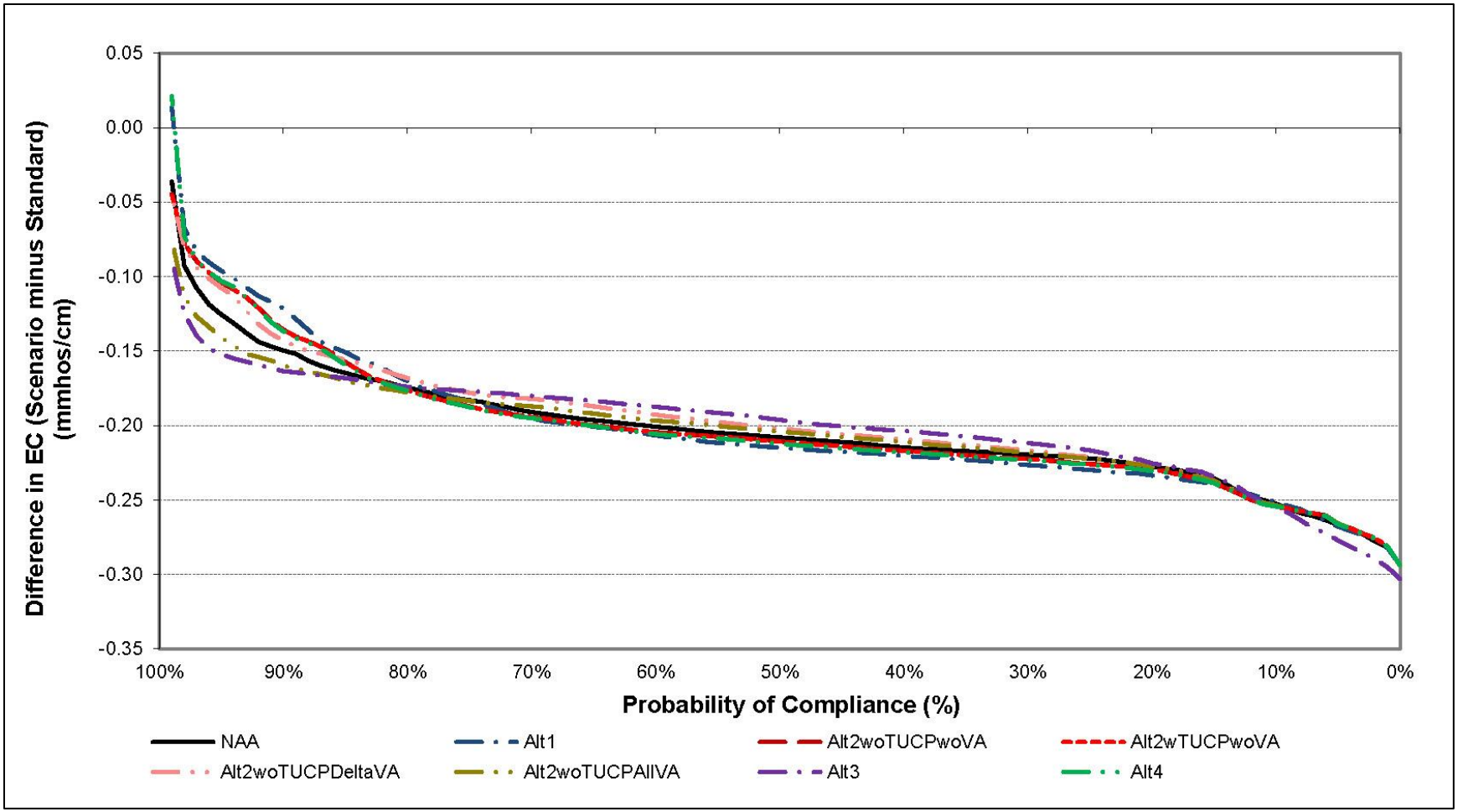


Figure 11. D-1641 FWS San Joaquin River at Jersey Point Compliance Exceedance Plot

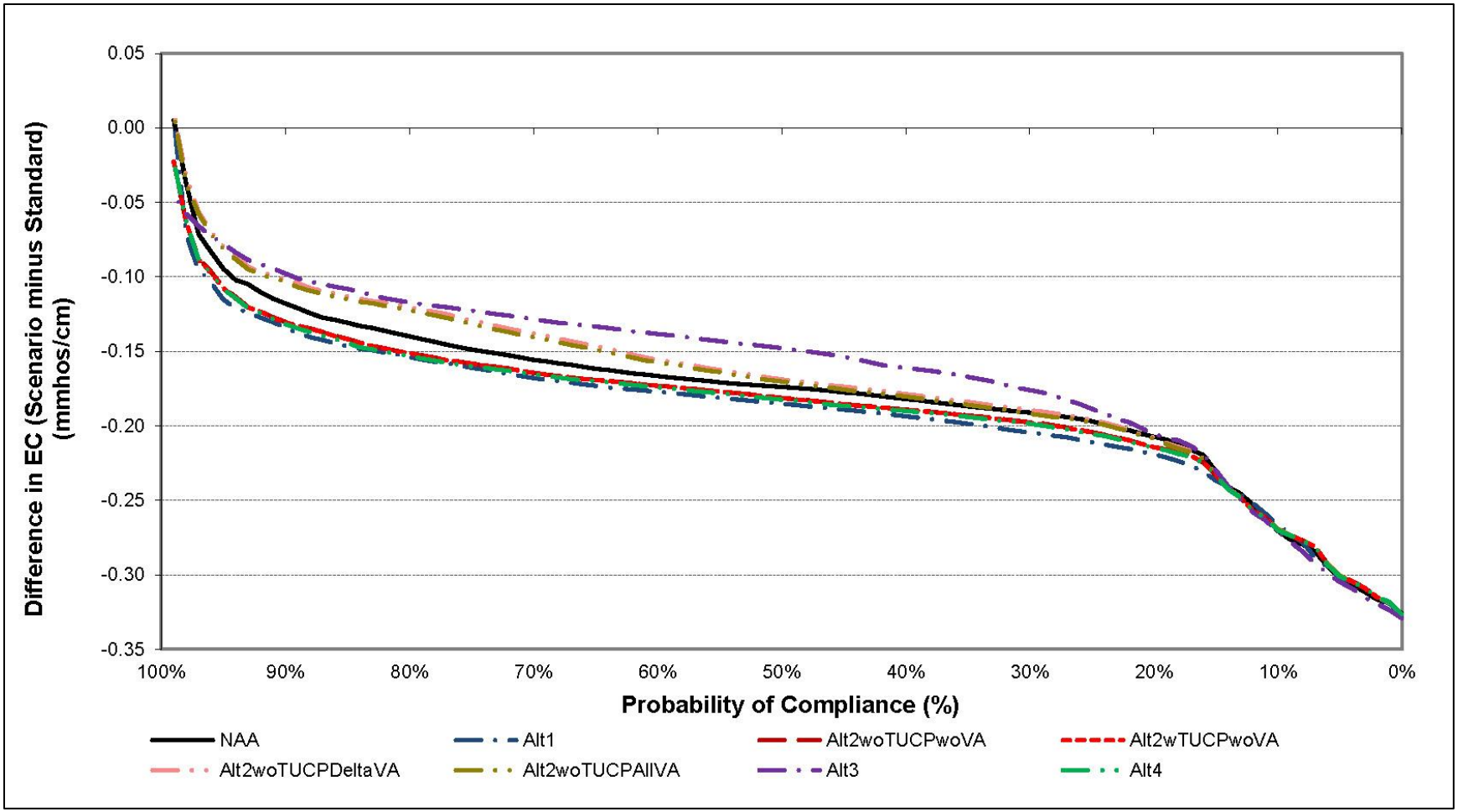


Figure 12. D-1641 FWS San Joaquin River at Prisoners Point Compliance Exceedance Plot

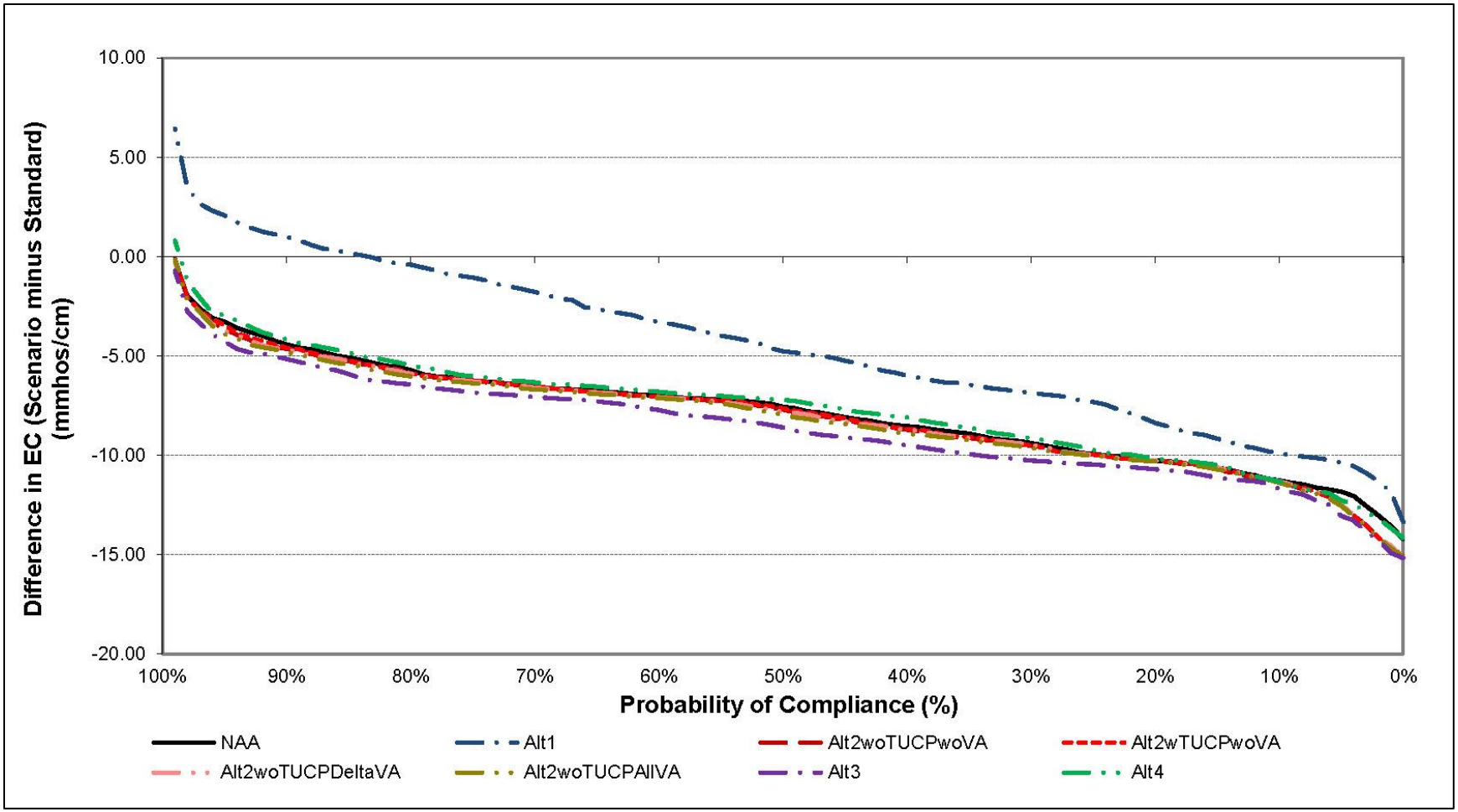


Figure 13. D-1641 FWS Suisun Slough 300 ft south of Volanti Slough Compliance Exceedance Plot

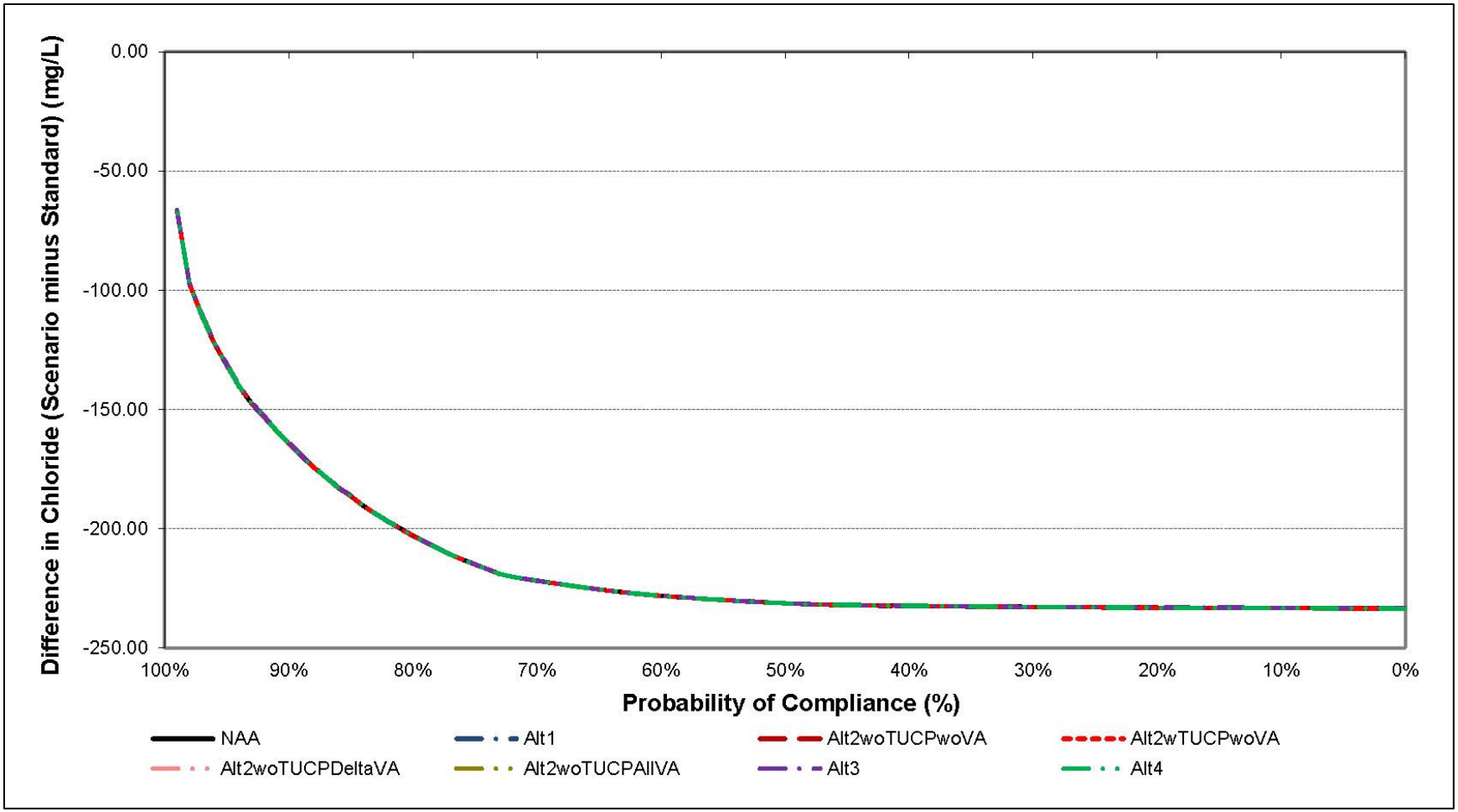


Figure 14. D-1641 MI Cache Slough at City of Vallejo Intake Compliance Exceedance Plot

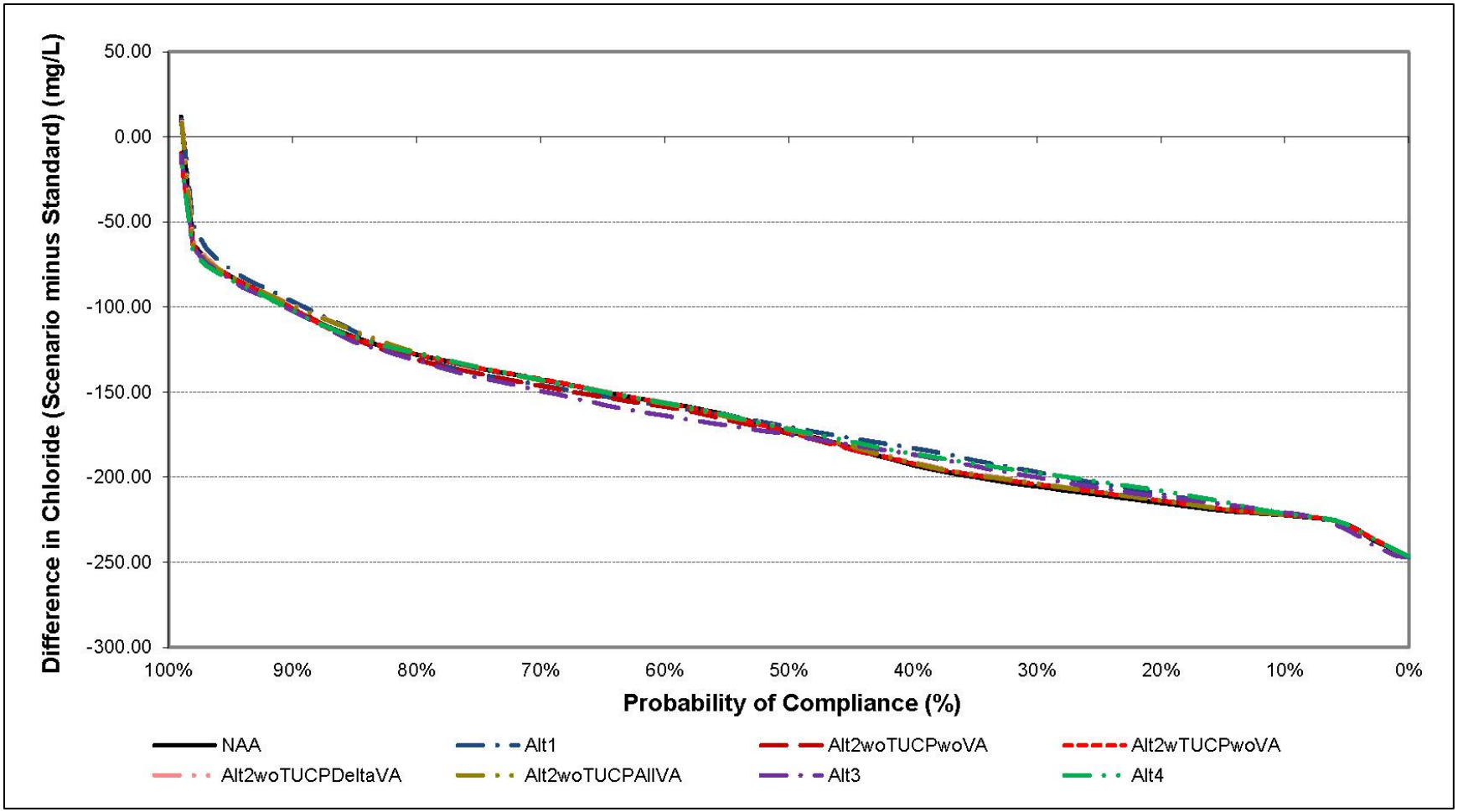


Figure 15. D-1641 MI Clifton Court Forebay Compliance Exceedance Plot

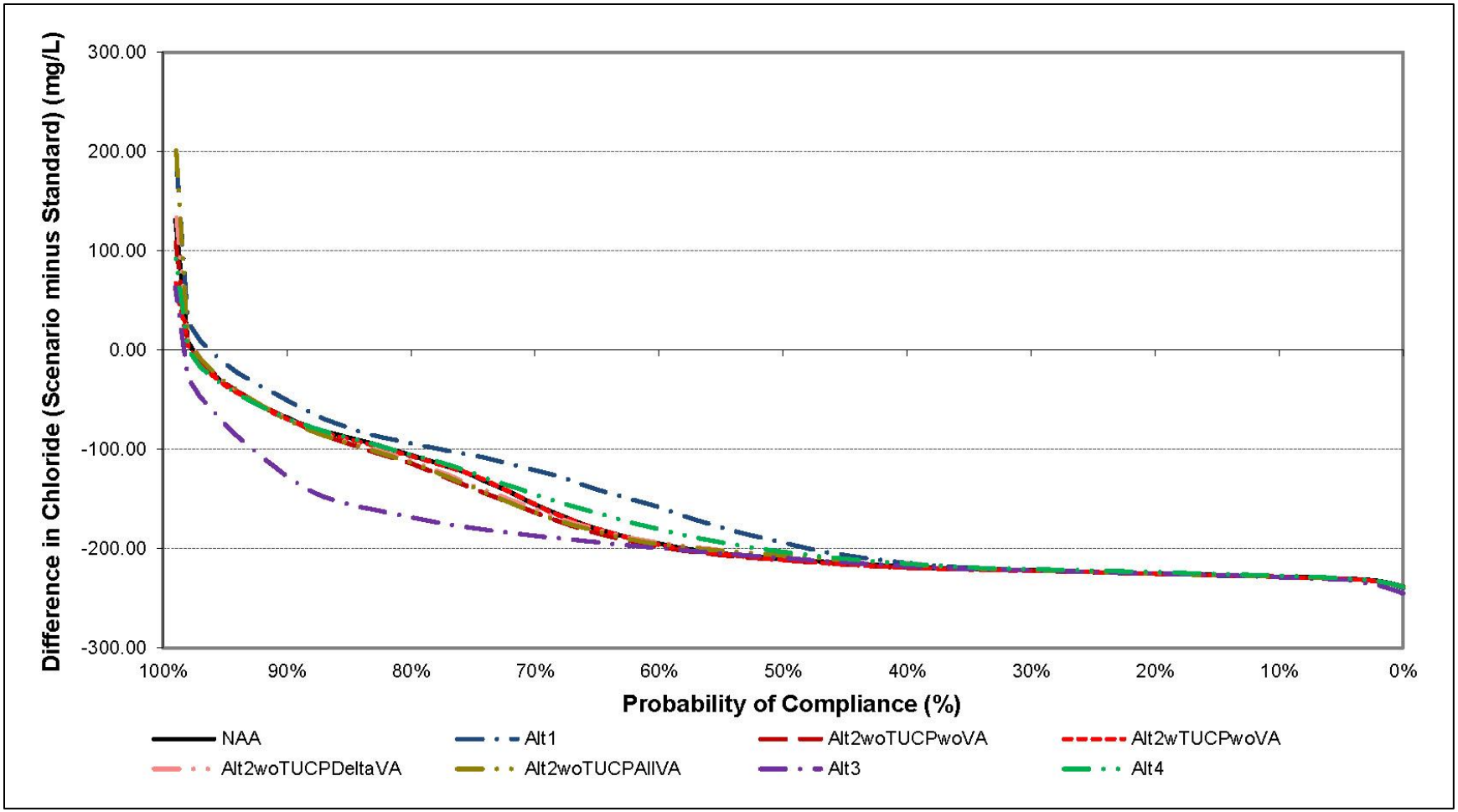


Figure 16. D-1641 MI Contra Costa Canal at Pumping Plant #1 Compliance Exceedance Plot

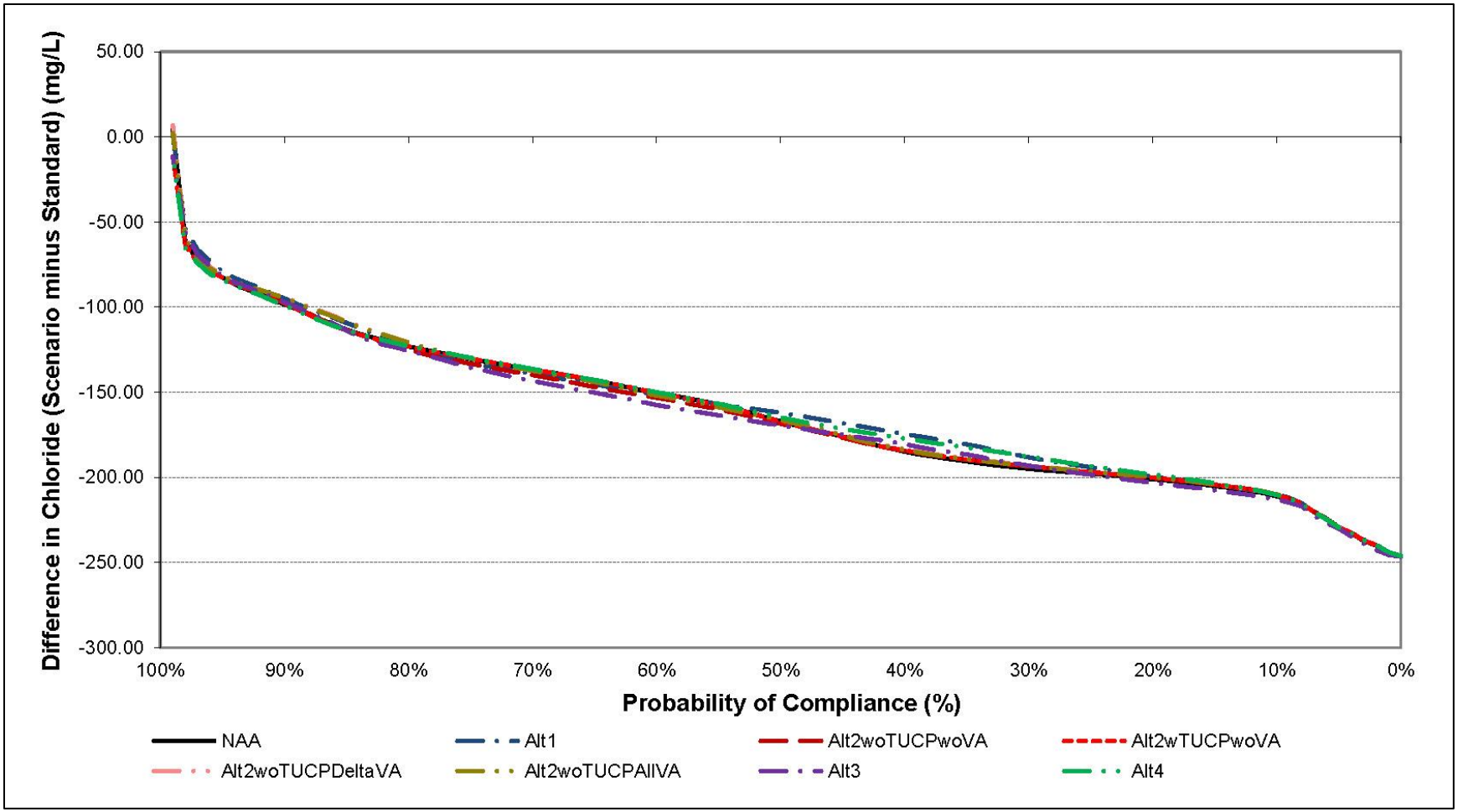


Figure 17. D-1641 MI Delta Mendota Canal at Tracy Pumping Plant Compliance Exceedance Plot

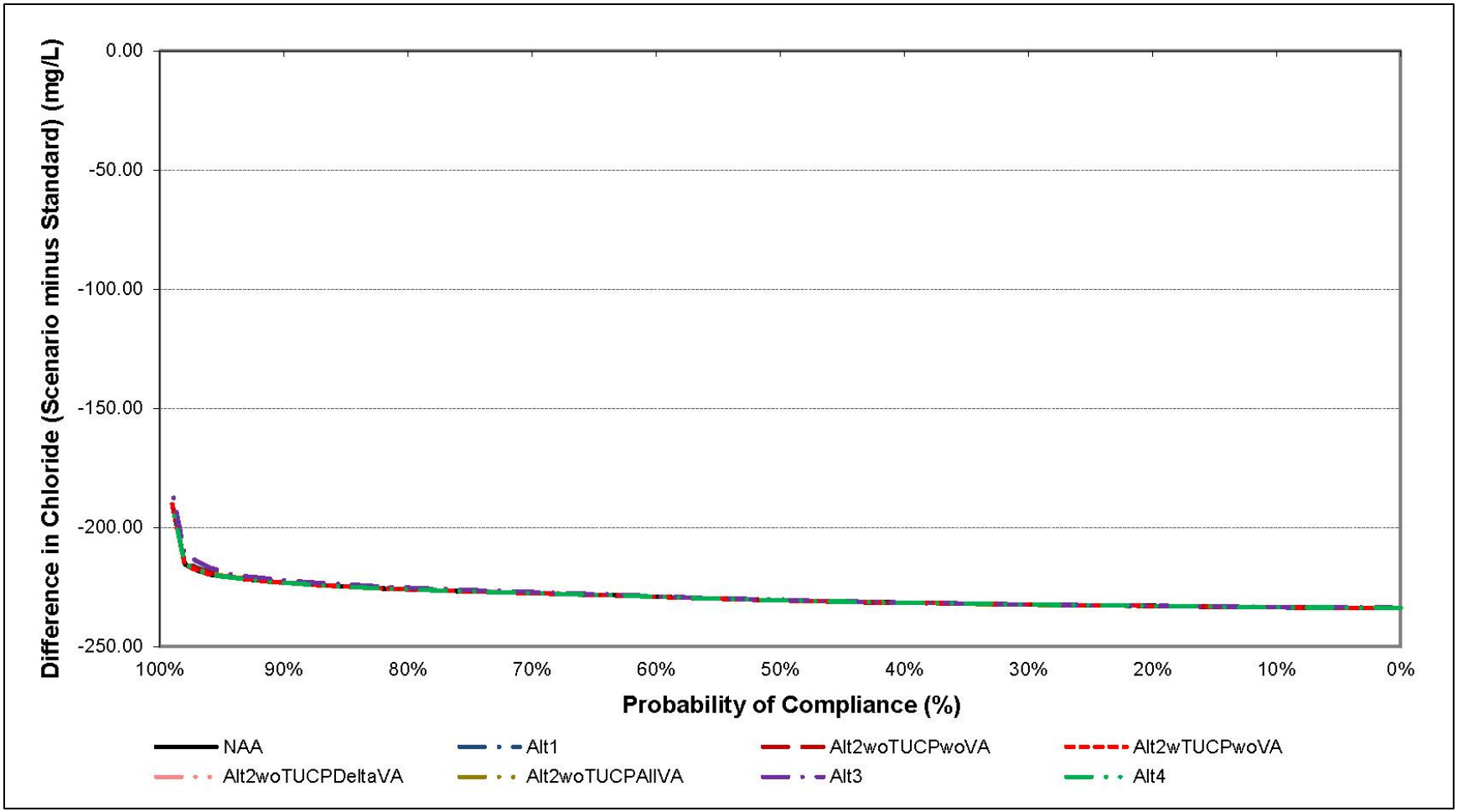


Figure 18. D-1641 MI Barker Slough at North Bay Aqueduct Intake Compliance Exceedance Plot

Appendix F, Modeling

Attachment F.2-11 HEC-5Q

F.2-11.1 Results

The following results of the HEC5Q and Reclamation Temperature Model are included for temperature results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- ALT1 090923 (ALT1)
- Alt2woTUCPwoVA 091324 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 091324 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAllVA 091324 (Alt2woTUCPAllVA)
- Alt2wTUCPwoVA 091324 (Alt2wTUCPwoVA)
- ALT3 092423 (ALT3)
- ALT4 091624 (ALT4)

Section	Output Parameters	Table Numbers	Figure Numbers
Trinity	Trinity River below Lewiston Dam	F.2.11-1-1a to F.2.11-1-7c	F.2.11-1-1 to F.2.11-1-18
Clear Creek	Clear Creek below Whiskeytown	F.2.11-2-1a to F.2.11-2-7c	F.2.11-2-1 to F.2.11-2-18
Clear Creek	Clear Creek at Igo	F.2.11-3-1a to F.2.11-3-7c	F.2.11-3-1 to F.2.11-3-18
Clear Creek	Clear Creek at Mouth	F.2.11-4-1a to F.2.11-4-7c	F.2.11-4-1 to F.2.11-4-18
Sacramento	Sacramento River below Keswick	F.2.11-5-1a to F.2.11-5-7c	F.2.11-5-1 to F.2.11-5-18
Sacramento	Sacramento River at Clear Creek	F.2.11-6-1a to F.2.11-6-7c	F.2.11-6-1 to F.2.11-6-18
Sacramento	Sacramento River at Balls Ferry	F.2.11-7-1a to F.2.11-7-7c	F.2.11-7-1 to F.2.11-7-18
Sacramento	Sacramento River at Jellys Ferry	F.2.11-8-1a to F.2.11-8-7c	F.2.11-8-1 to F.2.11-8-18
Sacramento	Sacramento River at Bend Bridge	F.2.11-9-1a to F.2.11-9-7c	F.2.11-9-1 to F.2.11-9-18
Sacramento	Sacramento River at Red Bluff	F.2.11-10-1a to F.2.11-10-7c	F.2.11-10-1 to F.2.11-10-18
Sacramento	Sacramento River below Red Bluff Diversion Dam	F.2.11-11-1a to F.2.11-11-7c	F.2.11-11-1 to F.2.11-11-18
Sacramento	Sacramento River below Hamilton City	F.2.11-12-1a to F.2.11-12-7c	F.2.11-12-1 to F.2.11-12-18

Section	Output Parameters	Table Numbers	Figure Numbers
American	American River below Nimbus Dam	F.2.11-13-1a to F.2.11-13-7c	F.2.11-13-1 to F.2.11-13-18
American	American River at Watt Avenue	F.2.11-14-1a to F.2.11-14-7c	F.2.11-14-1 to F.2.11-14-18
American	American River at the Mouth	F.2.11-15-1a to F.2.11-15-7c	F.2.11-15-1 to F.2.11-15-18
Stanislaus	Stanislaus River below New Melones Reservoir	F.2.11-16-1a to F.2.11-16-7c	F.2.11-16-1 to F.2.11-16-18
Stanislaus	Stanislaus River below Tulloch Reservoir	F.2.11-17-1a to F.211-17-7c	F.2.11-17-1 to F.2.11-17-18
Stanislaus	Stanislaus River below Goodwin Dam	F.2.11-18-1a to F.2.11-18-7c	F.2.11-18-1 to F.2.11-18-18
Stanislaus	Stanislaus River at Orange Blossom Bridge	F.2.11-19-1a to F.2.11-19-7c	F.2.11-19-1 to F.2.11-19-18
Stanislaus	Stanislaus River at Mouth	F.2.11-20-1a to F.2.11-20-7c	F.2.11-20-1 to F.2.11-20-18

F.2-11.2 Report Formats

Reports include monthly tables, monthly pattern charts, and monthly exceedance charts.

- Monthly tables include a comparison of an alternative and the No Action Alternative (exceedance values, long-term average, and average by water year type) by subtracting the values in the No Action Alternative table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) present all alternatives.
- Monthly exceedance charts (all months) present all alternatives.

Table F.2.11-1-1a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-1b. Trinity River below Lewiston Dam, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	50	52	51	49	52	53	53	52
20% Exceedance	52	51	48	48	49	51	50	48	51	52	52	51
30% Exceedance	51	50	48	47	48	50	50	48	49	50	50	50
40% Exceedance	49.7	49.7	47.5	46.3	47.7	49.5	49.7	47.1	49.1	49.7	49.5	49.8
50% Exceedance	49.1	49.3	47.0	46.1	47.2	48.8	49.4	46.8	48.8	49.4	49.2	49.2
60% Exceedance	48.6	48.8	46.7	45.8	46.7	48.0	49.1	46.6	48.6	49.1	48.6	48.7
70% Exceedance	48.0	48.3	46.4	45.6	46.2	47.2	48.6	46.2	48.2	48.8	48.3	48.2
80% Exceedance	47.3	47.1	46.0	45.4	45.4	46.0	48.1	45.7	47.3	48.2	47.8	47.8
90% Exceedance	47.0	46.5	45.5	44.8	44.8	45.1	46.8	45.4	46.6	47.6	47.3	47.1
Full Simulation Period Average[a]	50	49	47	46	47	49	49	47	49	50	50	49
Wet Water Years (28%)	48	47	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	46	49	49	46	48	49	48	48
Below Normal Years (18%)	50	49	47	46	47	49	50	47	49	49	49	49
Dry Years (24%)	50	50	48	46	48	49	50	48	50	50	50	50
Critical (16%)	53	51	48	47	49	51	50	49	52	53	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-1c. Trinity River below Lewiston Dam, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.2	0.0	0.0	0.3	0.6	0.0	0.0	-1.3	0.2	0.1
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	0.1	-0.2	0.0	0.0	0.0	0.6	0.2	-0.1	0.0	-0.3	-0.1	-0.1
40% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	-0.1	0.0	0.0
Full Simulation Period Average[a]	0.0	-0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.1	-0.2	0.0	0.1
Wet Water Years (28%)	0.1	-0.1	0.0	0.0	-0.1	0.0	0.1	0.0	0.1	-0.1	0.1	0.3
Above Normal Years (14%)	-0.1	0.0	0.0	-0.1	-0.3	0.2	0.0	0.0	0.1	-0.1	0.1	0.4
Below Normal Years (18%)	-0.2	-0.2	0.0	0.0	0.1	0.7	0.3	0.0	0.0	-0.1	0.0	0.1
Dry Years (24%)	0.0	-0.1	-0.1	0.0	0.3	0.2	0.4	0.0	0.1	0.1	-0.1	-0.2
Critical (16%)	0	0	0	0	0	0	0	0	0	-1	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-2a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-2b. Trinity River below Lewiston Dam, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	50	52	50	49	53	55	53	52
20% Exceedance	51	51	48	47	49	51	50	48	51	52	52	51
30% Exceedance	51	50	48	47	48	50	50	48	49	51	50	50
40% Exceedance	50.0	49.9	47.4	46.5	47.9	49.0	49.5	47.2	49.1	49.9	49.6	49.8
50% Exceedance	49.5	49.5	47.1	46.1	47.2	48.3	49.1	46.8	48.8	49.6	49.1	49.1
60% Exceedance	49.1	49.0	46.7	45.7	46.6	47.6	48.9	46.5	48.5	49.4	48.6	48.6
70% Exceedance	48.3	48.1	46.4	45.6	46.3	46.9	48.6	46.2	48.1	49.0	48.3	48.2
80% Exceedance	47.5	47.1	46.1	45.3	45.4	46.0	48.0	45.8	47.4	48.4	47.9	47.9
90% Exceedance	47.1	46.7	45.4	44.7	44.8	45.1	46.7	45.4	46.5	47.7	47.3	47.2
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	47	47	48	46	47	49	49	48
Above Normal Years (14%)	49	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	50	49	49
Dry Years (24%)	50	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-2c. Trinity River below Lewiston Dam, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	0.1	0.1	0.0	0.0	0.1	-0.3	-0.2	0.2	0.2	0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	0.0	0.1	-0.1	0.0	0.2	0.1	0.0	-0.2	0.1	0.2	0.0	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1
Wet Water Years (28%)	0.0	0.0	0.0	0.0	0.4	0.5	0.2	0.0	0.0	0.1	0.1	0.1
Above Normal Years (14%)	0.2	0.2	0.0	0.0	-0.2	-0.3	0.1	0.0	0.1	0.0	0.0	0.1
Below Normal Years (18%)	0.2	0.1	0.1	0.0	0.0	-0.1	-0.1	-0.2	0.2	0.2	-0.2	0.2
Dry Years (24%)	0.0	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	0.0	0.1	0.1	0.0
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-3a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-3b. Trinity River below Lewiston Dam, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	50	52	50	49	53	54	53	52
20% Exceedance	51	51	48	47	49	51	50	48	51	52	52	51
30% Exceedance	51	50	48	47	48	50	50	48	50	51	50	50
40% Exceedance	49.9	49.8	47.4	46.5	47.8	49.0	49.5	47.2	49.1	50.2	49.6	49.7
50% Exceedance	49.3	49.5	47.2	46.1	47.2	48.4	49.1	46.8	48.8	49.7	49.1	49.1
60% Exceedance	49.0	49.0	46.7	45.8	46.7	47.7	48.9	46.6	48.5	49.2	48.6	48.6
70% Exceedance	48.3	48.3	46.4	45.6	46.3	47.2	48.6	46.1	48.1	49.0	48.3	48.2
80% Exceedance	47.4	47.2	46.1	45.3	45.7	46.0	48.0	45.8	47.3	48.3	47.8	47.8
90% Exceedance	47.1	46.8	45.4	44.8	44.9	45.2	46.7	45.4	46.5	47.7	47.3	47.2
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	47	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	52	51	48	47	49	50	50	49	52	54	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-3c. Trinity River below Lewiston Dam, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.2	0.0	0.1	0.1	-0.2	-0.1	0.1	-0.9	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	0.0	0.1	0.0	0.0	0.2	0.1	0.0	-0.2	0.1	0.3	-0.1	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.0	0.0	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.1	0.0	0.1
Wet Water Years (28%)	0.0	0.0	0.0	0.0	0.5	0.4	0.2	0.0	0.0	0.2	0.1	0.1
Above Normal Years (14%)	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	-0.1	0.1
Below Normal Years (18%)	0.1	0.2	0.1	0.0	0.0	-0.1	-0.2	-0.2	0.2	0.1	-0.2	0.2
Dry Years (24%)	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.1	0.1	0.0
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-4a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-4b. Trinity River below Lewiston Dam, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	50	52	50	49	53	54	53	52
20% Exceedance	52	51	48	47	49	51	50	48	51	52	51	51
30% Exceedance	51	50	48	47	48	49	50	48	50	51	50	50
40% Exceedance	49.8	49.8	47.5	46.5	47.9	48.9	49.5	47.1	49.2	50.1	49.7	49.7
50% Exceedance	49.3	49.5	47.2	46.1	47.2	48.4	49.1	46.8	48.7	49.7	49.2	49.1
60% Exceedance	48.8	49.0	46.7	45.7	46.6	47.7	48.9	46.5	48.6	49.3	48.6	48.6
70% Exceedance	48.3	48.2	46.4	45.6	46.3	47.2	48.6	46.1	48.2	49.0	48.3	48.2
80% Exceedance	47.5	47.2	46.0	45.3	45.5	46.0	48.0	45.8	47.3	48.3	47.8	47.9
90% Exceedance	47.0	46.8	45.4	44.7	44.9	45.2	46.7	45.4	46.6	47.8	47.3	47.2
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	47	47	48	46	47	49	49	48
Above Normal Years (14%)	49	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-4c. Trinity River below Lewiston Dam, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.2	-0.1	0.1	0.1	0.0	-0.2	0.1	-0.1	0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	0.0	0.1	-0.1	0.0	0.2	0.0	0.0	-0.2	0.1	0.4	0.0	-0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	-0.1	0.0	0.1	0.1	0.1
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	0.1	0.1	0.0	0.1
Wet Water Years (28%)	0.0	0.0	0.0	0.0	0.5	0.4	0.2	0.0	0.0	0.2	0.1	0.1
Above Normal Years (14%)	0.2	0.3	0.0	0.0	-0.1	0.0	0.2	0.0	0.0	0.1	0.0	0.2
Below Normal Years (18%)	0.1	0.1	0.1	0.0	0.0	-0.1	-0.1	-0.3	0.2	0.1	-0.2	0.3
Dry Years (24%)	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.1	-0.1
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-5a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-5b. Trinity River below Lewiston Dam, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	50	52	50	49	53	54	53	52
20% Exceedance	51	51	48	47	49	51	50	48	51	52	52	51
30% Exceedance	51	50	48	47	48	50	50	48	49	51	50	50
40% Exceedance	50.0	49.9	47.3	46.5	47.9	49.1	49.5	47.1	49.1	49.9	49.7	49.6
50% Exceedance	49.4	49.5	47.1	46.1	47.2	48.4	49.2	46.9	48.8	49.6	49.0	49.1
60% Exceedance	49.0	49.0	46.7	45.7	46.6	47.7	49.0	46.6	48.5	49.3	48.5	48.6
70% Exceedance	48.3	48.1	46.4	45.6	46.2	47.0	48.6	46.2	48.1	49.0	48.3	48.2
80% Exceedance	47.5	47.1	46.1	45.3	45.4	46.0	48.1	45.8	47.4	48.4	47.9	47.9
90% Exceedance	47.0	46.7	45.4	44.7	44.9	45.1	47.2	45.4	46.5	47.7	47.3	47.2
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	47	47	48	46	47	49	49	48
Above Normal Years (14%)	49	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	50	49	49
Dry Years (24%)	51	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	52	51	48	47	48	50	50	49	52	54	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-5c. Trinity River below Lewiston Dam, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.0	0.1	0.0	0.0	0.1	-0.1	-0.2	0.1	-0.1	-0.2	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.1	-0.1	0.0	0.2	0.1	0.0	-0.2	0.1	0.4	0.0	-0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0
Wet Water Years (28%)	0.0	0.0	0.0	0.0	0.4	0.5	0.2	0.0	0.0	0.1	0.1	0.1
Above Normal Years (14%)	0.2	0.2	0.0	0.0	-0.2	-0.2	0.1	0.0	0.1	0.0	0.0	0.1
Below Normal Years (18%)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	0.3	-0.2	0.1
Dry Years (24%)	0.1	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	0.0	0.1	0.1	0.0
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-6a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-6b. Trinity River below Lewiston Dam, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	49	52	51	49	53	53	52	52
20% Exceedance	51	50	48	47	49	51	50	48	51	52	51	51
30% Exceedance	51	50	48	47	48	50	50	48	50	51	50	50
40% Exceedance	49.6	49.6	47.2	46.5	47.8	48.7	49.4	47.1	49.4	50.3	49.5	49.4
50% Exceedance	49.0	49.1	46.9	46.1	46.9	48.3	49.2	46.8	48.8	49.6	48.9	48.8
60% Exceedance	48.6	48.8	46.6	45.7	46.5	47.5	48.6	46.6	48.5	49.2	48.6	48.3
70% Exceedance	48.0	48.4	46.4	45.5	45.9	47.0	48.2	46.3	48.0	48.9	48.1	48.0
80% Exceedance	47.5	47.5	46.1	45.2	45.2	45.9	47.8	45.8	47.5	48.4	47.8	47.6
90% Exceedance	47.1	46.9	45.5	44.7	44.6	45.1	46.6	45.5	46.7	47.8	47.2	47.3
Full Simulation Period Average[a]	49	49	47	46	47	48	49	47	49	50	49	49
Wet Water Years (28%)	48	48	46	46	46	46	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	49	49	47	46	47	49	49	47	50	50	49	49
Dry Years (24%)	51	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	52	51	48	47	48	50	50	49	52	53	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-6c. Trinity River below Lewiston Dam, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.1	-0.2	-0.1	0.0	0.5	0.1	0.1	0.2	-1.1	-0.6	-0.6
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	-0.2	-0.3	-0.2	0.0	-0.2	0.4	0.0	0.0	0.5	0.2	-0.2	-0.5
40% Exceedance	-1	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.1	0.0	-0.1	-0.3	-0.1	-0.1	0.1	0.1	0.0	-0.1	0.1
Full Simulation Period Average[a]	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.2	0.0	-0.1	-0.2
Wet Water Years (28%)	0.4	0.3	0.1	-0.2	-0.3	-0.2	-0.4	0.0	0.0	-0.1	-0.1	-0.1
Above Normal Years (14%)	0.0	0.1	0.0	0.0	-0.2	-0.2	-0.1	0.0	0.0	-0.1	0.0	0.0
Below Normal Years (18%)	-0.8	-0.4	-0.3	0.0	0.0	0.7	0.2	0.1	0.6	0.7	-0.3	-0.1
Dry Years (24%)	0.1	-0.2	-0.2	0.0	0.1	0.0	-0.1	0.1	0.5	0.3	-0.1	-0.2
Critical (16%)	-1	0	0	0	0	0	0	0	0	-1	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-7a. Trinity River below Lewiston Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.3	51.1	48.7	48.1	49.5	51.5	50.5	49.1	52.4	54.4	52.9	52.4
20% Exceedance	51.3	50.7	48.1	47.5	48.7	50.7	50.0	48.2	50.3	51.6	51.5	51.2
30% Exceedance	50.8	50.2	47.8	46.8	48.2	49.5	49.7	47.7	49.4	50.6	50.2	50.4
40% Exceedance	50.1	49.8	47.4	46.4	47.6	48.9	49.5	47.1	49.1	49.9	49.7	49.5
50% Exceedance	49	49	47	46	47	48	49	47	49	50	49	49
60% Exceedance	49	49	47	46	47	48	49	47	48	49	49	48
70% Exceedance	48	48	46	46	46	47	48	46	48	49	48	48
80% Exceedance	47	47	46	45	45	46	48	46	47	48	48	48
90% Exceedance	47	47	45	45	45	45	47	45	47	48	47	47
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	48	46	46	46	47	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	50	47	46	47	48	49	47	49	49	49	49
Dry Years (24%)	50.4	50.2	47.9	46.4	47.9	49.2	49.5	47.6	49.7	50.0	49.7	50.1
Critical (16%)	53	51	48	47	48	50	50	49	52	55	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-7b. Trinity River below Lewiston Dam, Alternative 4, Monthly Temperature (°F)

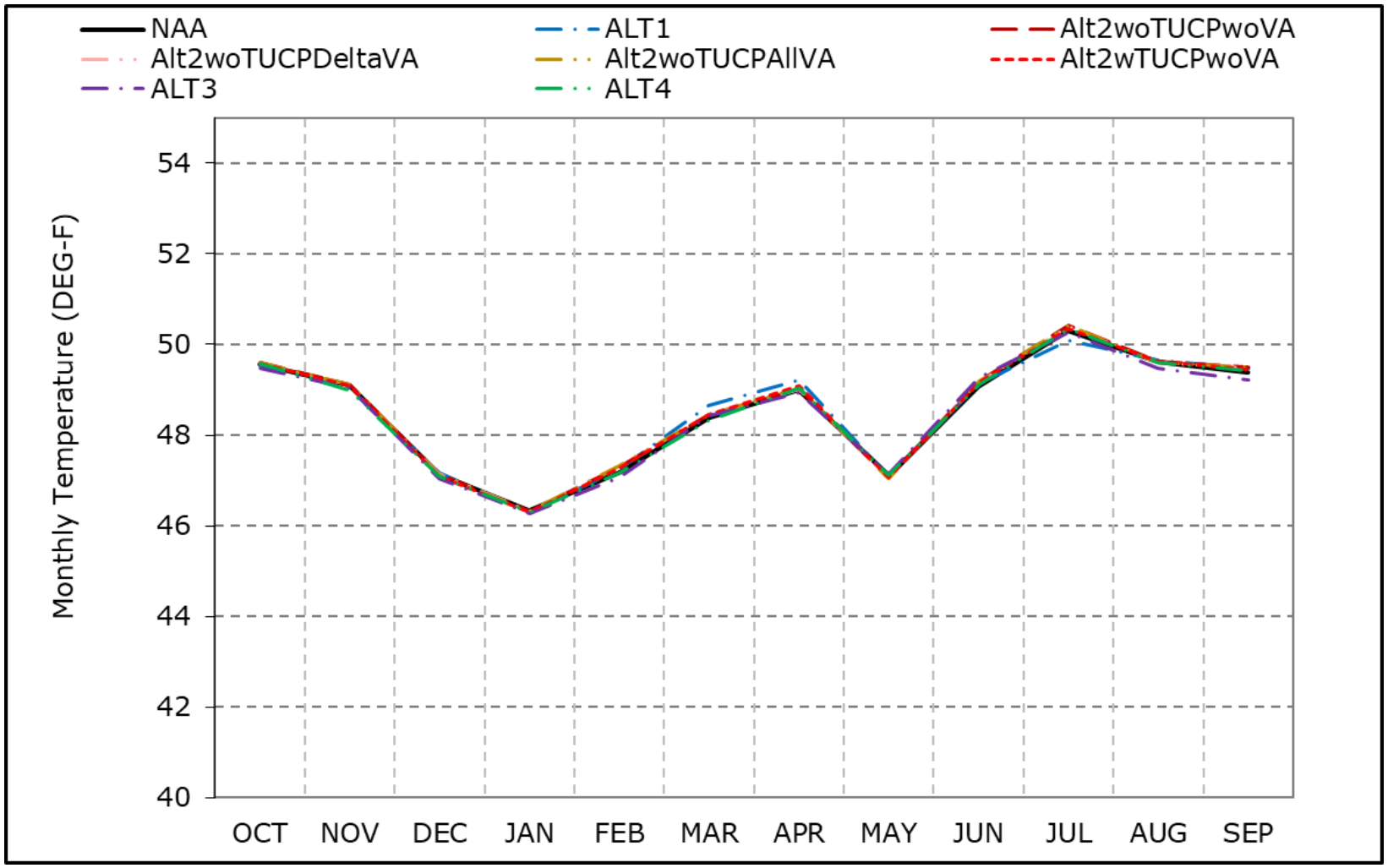
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	48	49	52	51	49	53	54	53	52
20% Exceedance	51	51	48	48	48	51	50	48	50	52	52	51
30% Exceedance	51	50	48	47	48	49	50	48	49	51	50	50
40% Exceedance	49.9	49.7	47.4	46.4	47.7	49.0	49.5	47.1	49.1	50.0	49.6	49.7
50% Exceedance	49.2	49.4	47.0	46.0	47.1	48.2	49.2	46.8	48.8	49.6	49.0	48.9
60% Exceedance	48.7	48.8	46.6	45.7	46.5	47.6	48.9	46.6	48.5	49.2	48.6	48.6
70% Exceedance	48.4	48.1	46.4	45.6	46.2	46.8	48.6	46.3	48.2	48.9	48.2	48.2
80% Exceedance	47.6	46.9	46.1	45.4	45.4	46.0	48.0	45.8	47.2	48.4	47.8	47.9
90% Exceedance	47.1	46.4	45.5	44.7	44.9	45.1	46.8	45.4	46.6	47.6	47.3	47.2
Full Simulation Period Average[a]	50	49	47	46	47	48	49	47	49	50	50	49
Wet Water Years (28%)	48	47	46	46	46	46	48	46	47	49	49	48
Above Normal Years (14%)	48	48	47	46	47	48	49	46	48	49	48	48
Below Normal Years (18%)	50	49	47	46	47	48	49	47	49	50	49	49
Dry Years (24%)	50	50	48	46	48	49	49	48	50	50	50	50
Critical (16%)	53	51	48	47	48	50	50	49	52	54	53	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-1-7c. Trinity River below Lewiston Dam, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

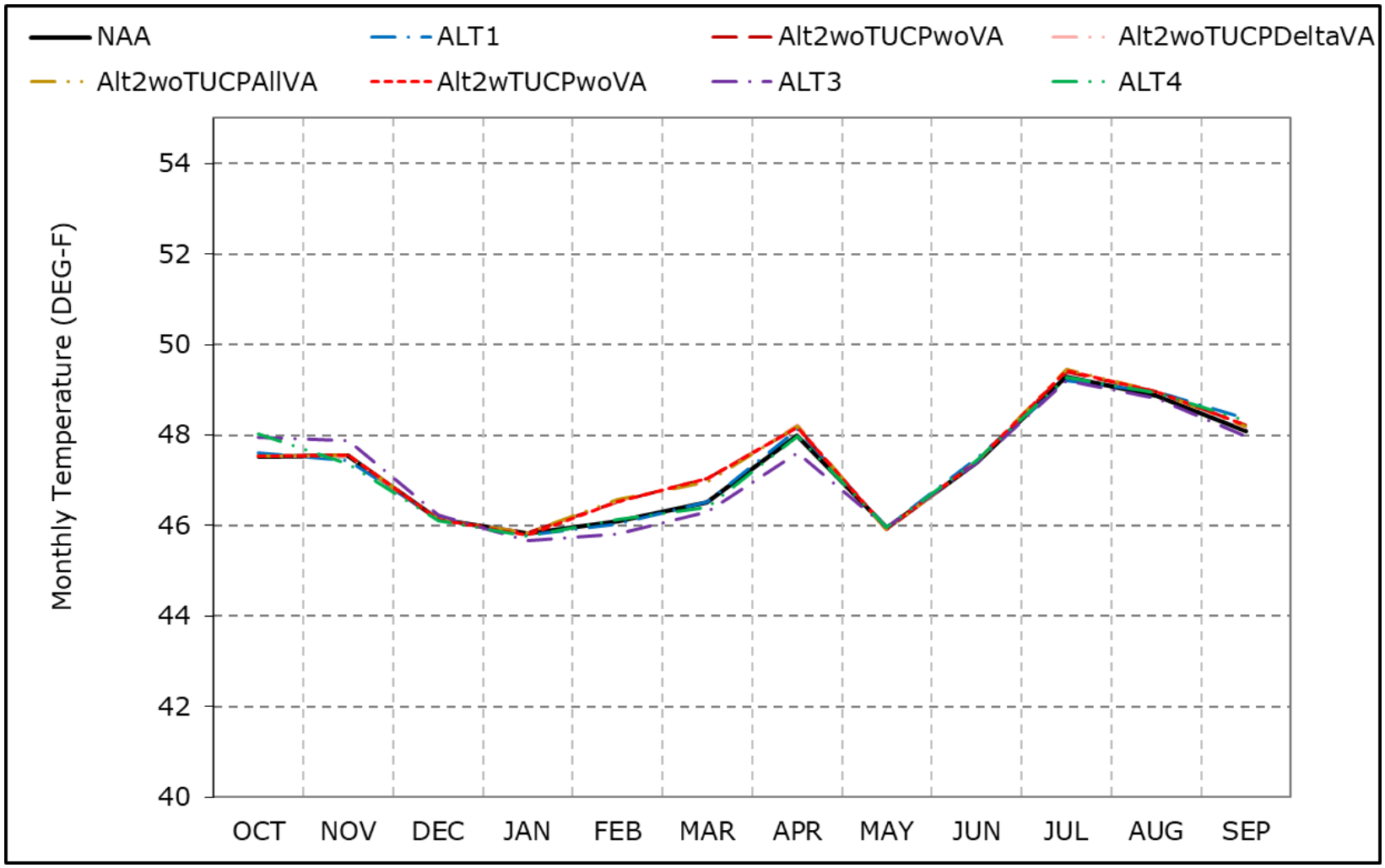
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1	-0.1	-0.1	-0.2
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	-0.1	0.0	0.1	0.0	-0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.4	0.0	-0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.0	0.1
Full Simulation Period Average[a]	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0	0.1	0.0	0.0	0.0
Wet Water Years (28%)	0.5	-0.2	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.2
Above Normal Years (14%)	-0.2	-0.1	-0.1	-0.1	-0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.1
Below Normal Years (18%)	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	-0.3	0.0
Dry Years (24%)	-0.1	-0.1	-0.1	0.0	0.1	0.1	-0.1	0.0	0.1	0.2	0.0	-0.1
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



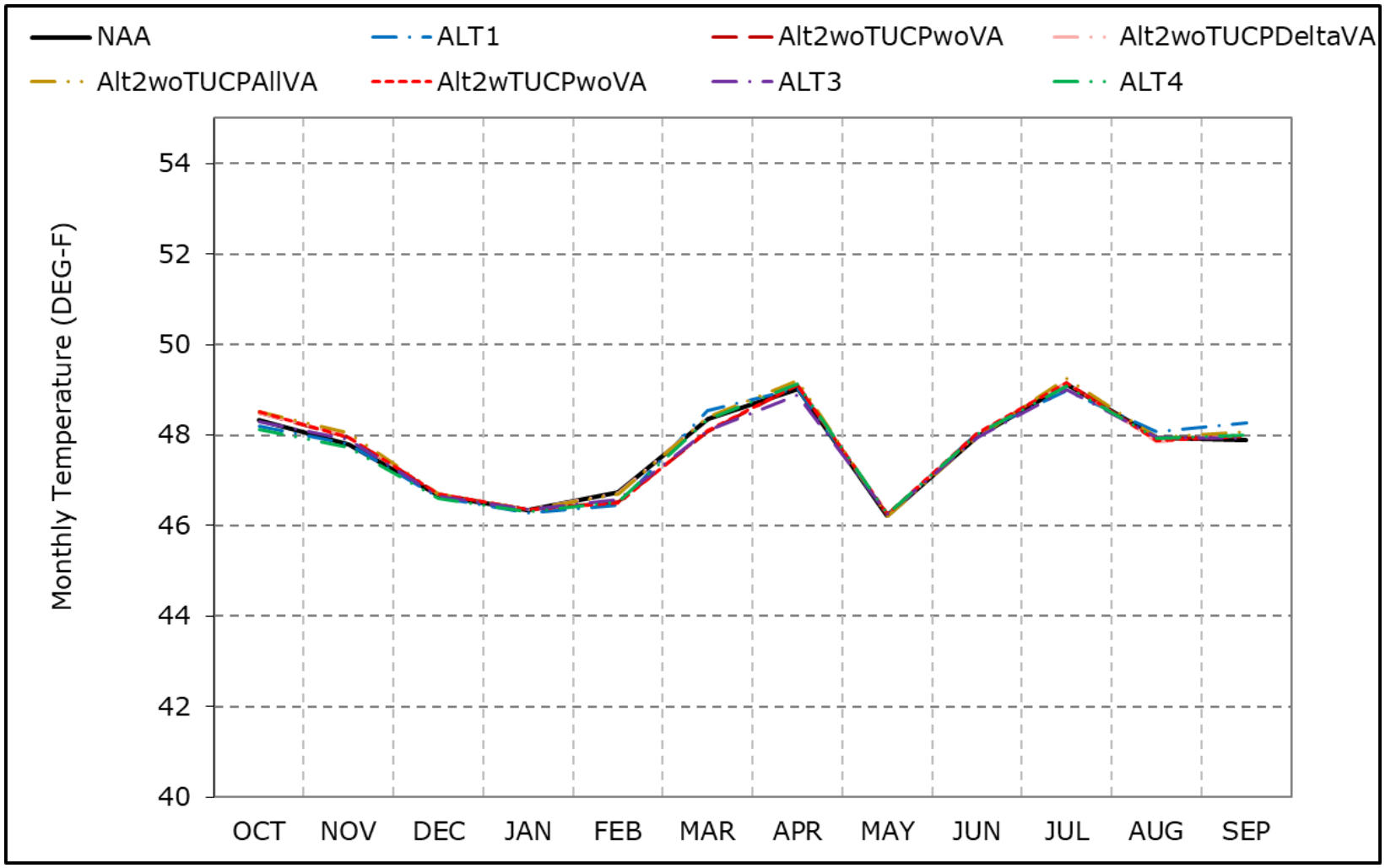
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-1. Trinity River below Lewiston Dam, Long-Term Average Temperature



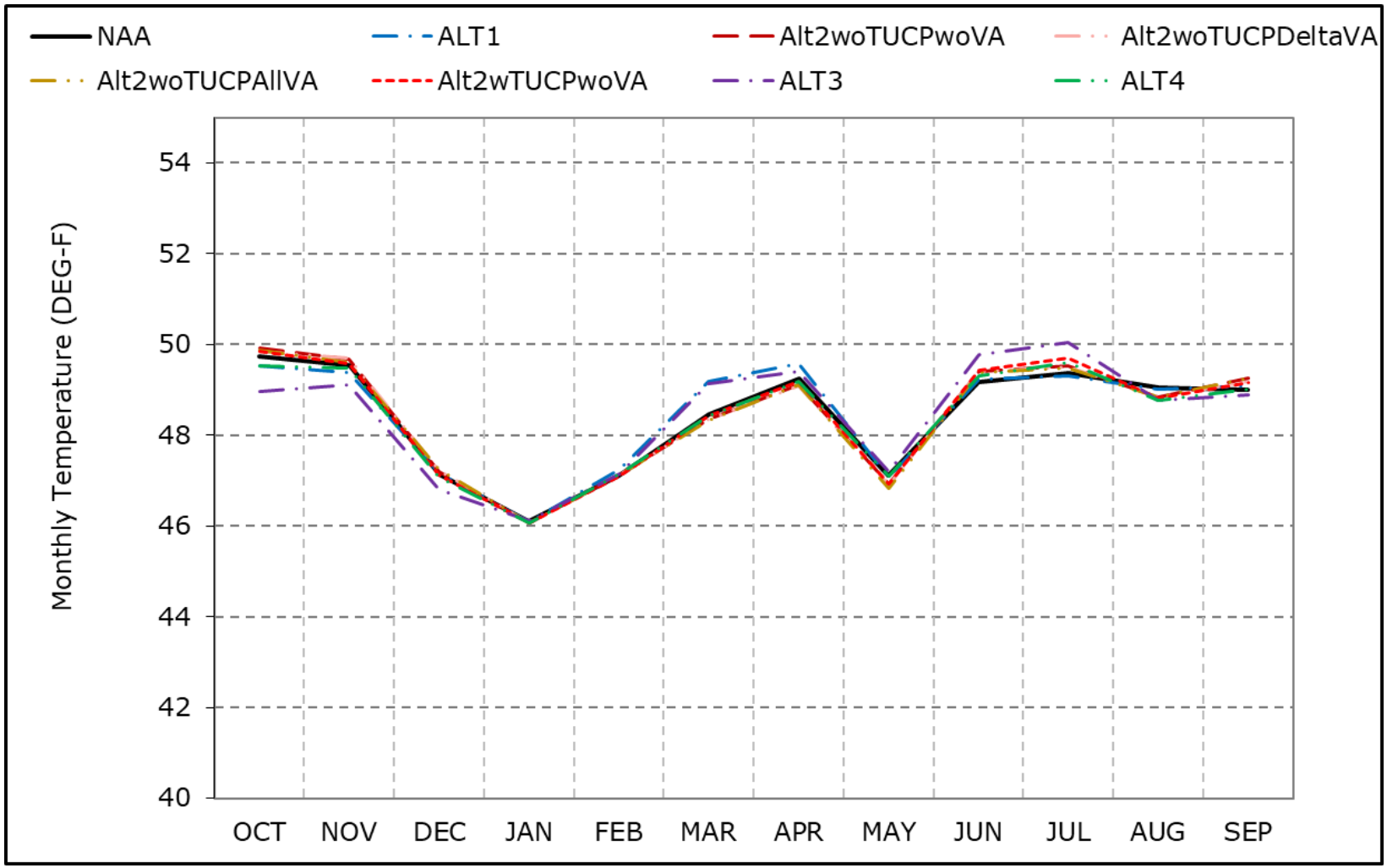
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-2. Trinity River below Lewiston Dam, Wet Year Average Temperature



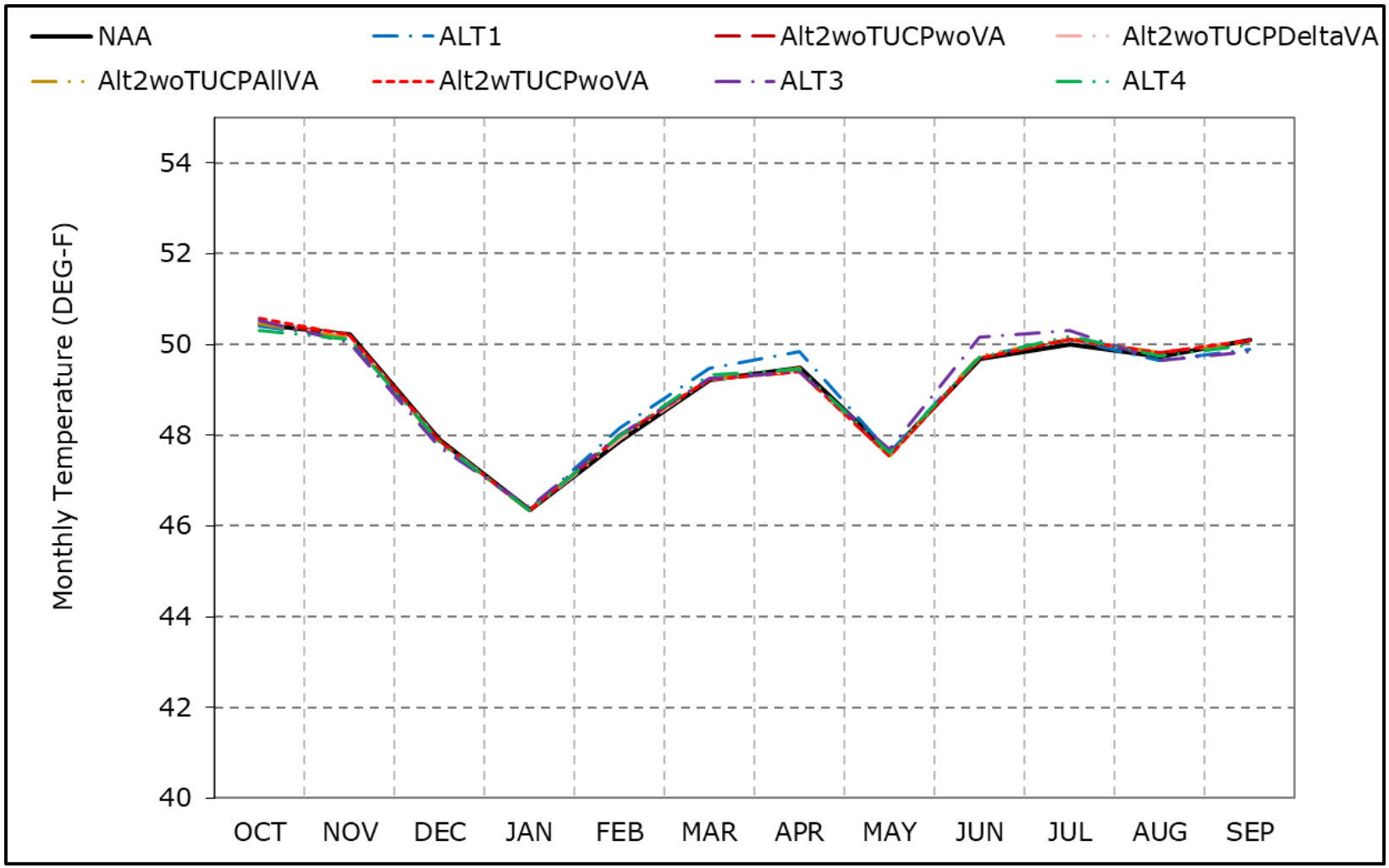
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-3. Trinity River below Lewiston Dam, Above Normal Year Average Temperature



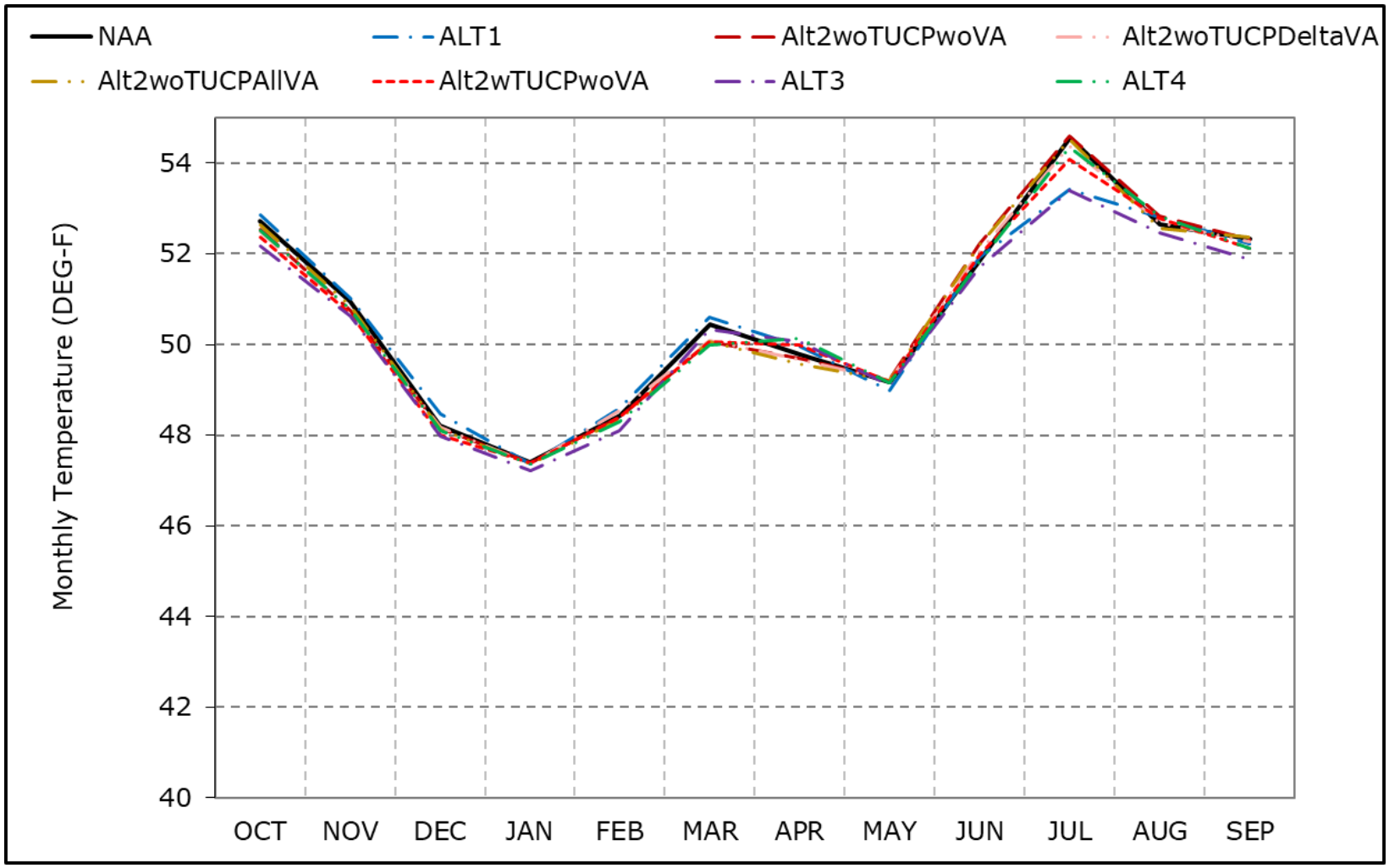
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-4. Trinity River below Lewiston Dam, Below Normal Year Average Temperature



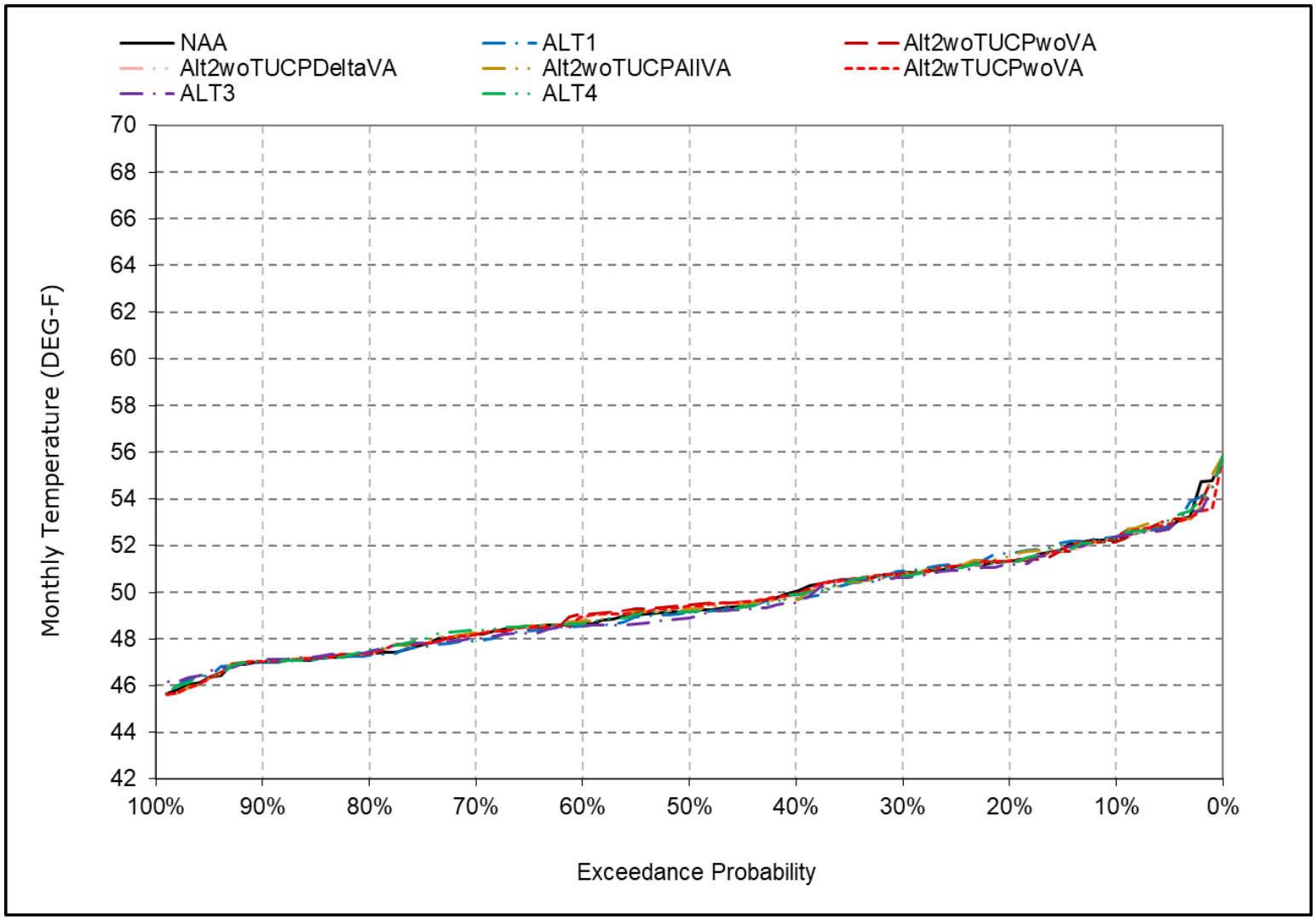
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-5. Trinity River below Lewiston Dam, Dry Year Average Temperature



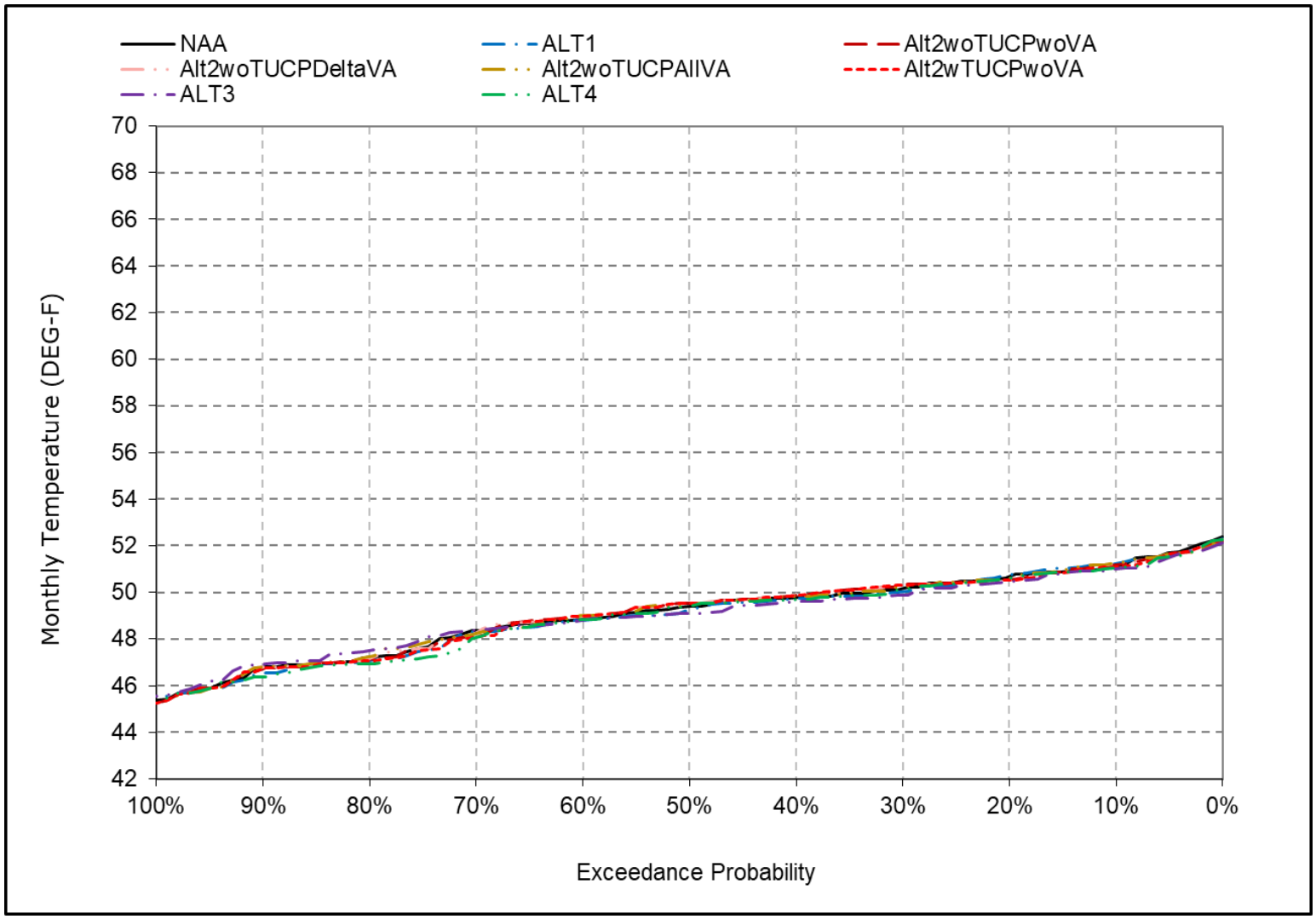
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-6. Trinity River below Lewiston Dam, Critical Year Average Temperature



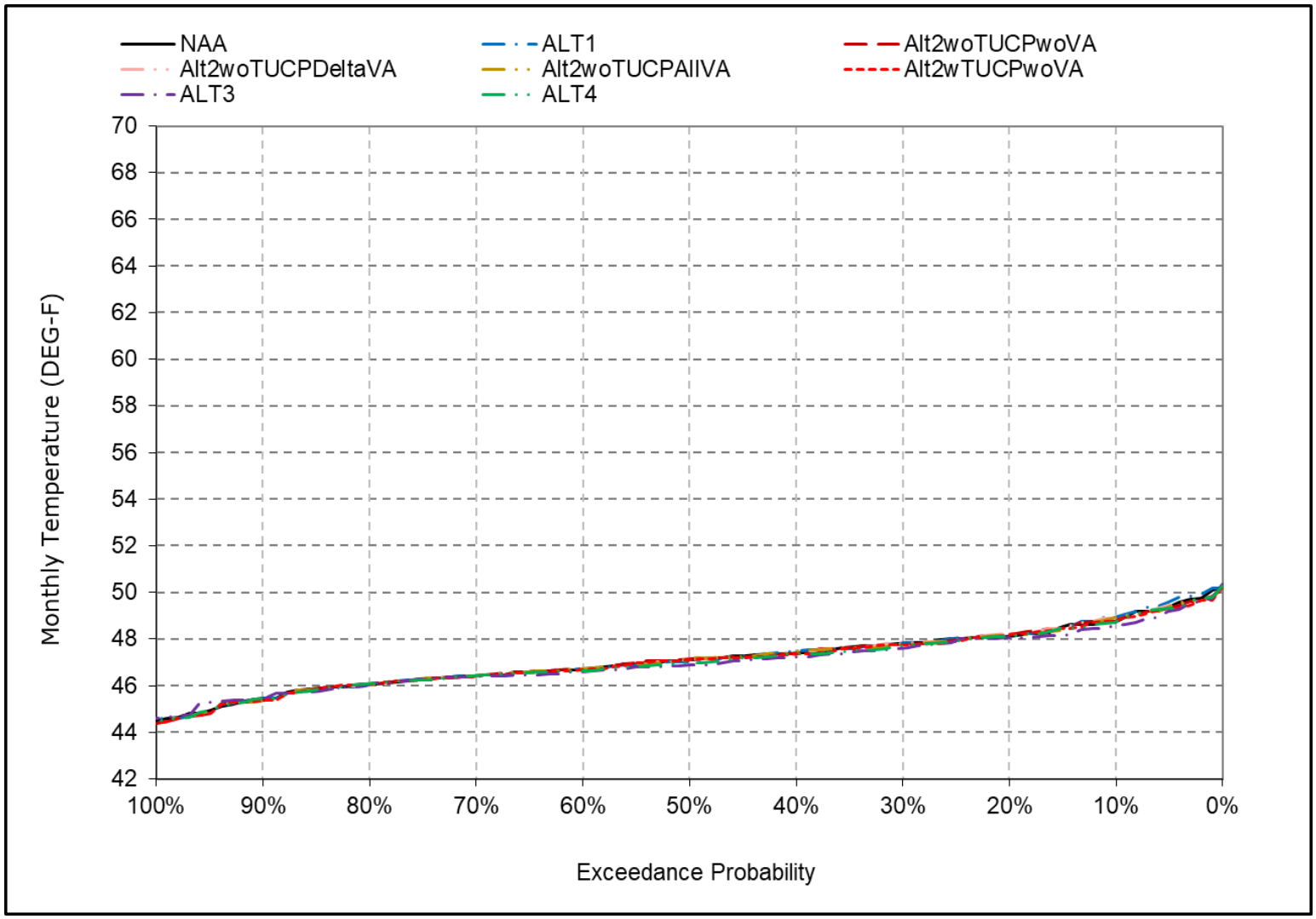
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-7. Trinity River below Lewiston Dam, October



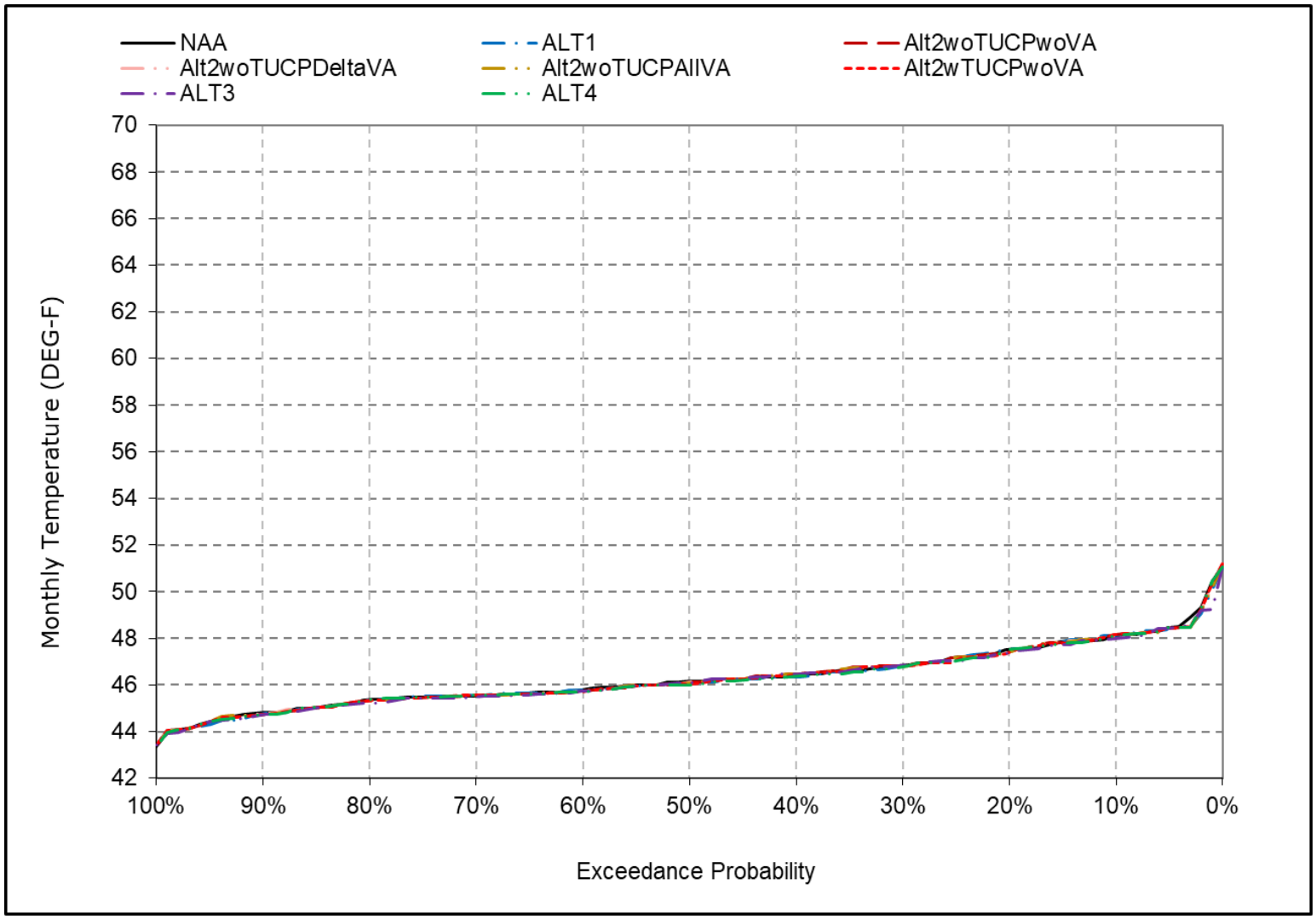
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-8. Trinity River below Lewiston Dam, November



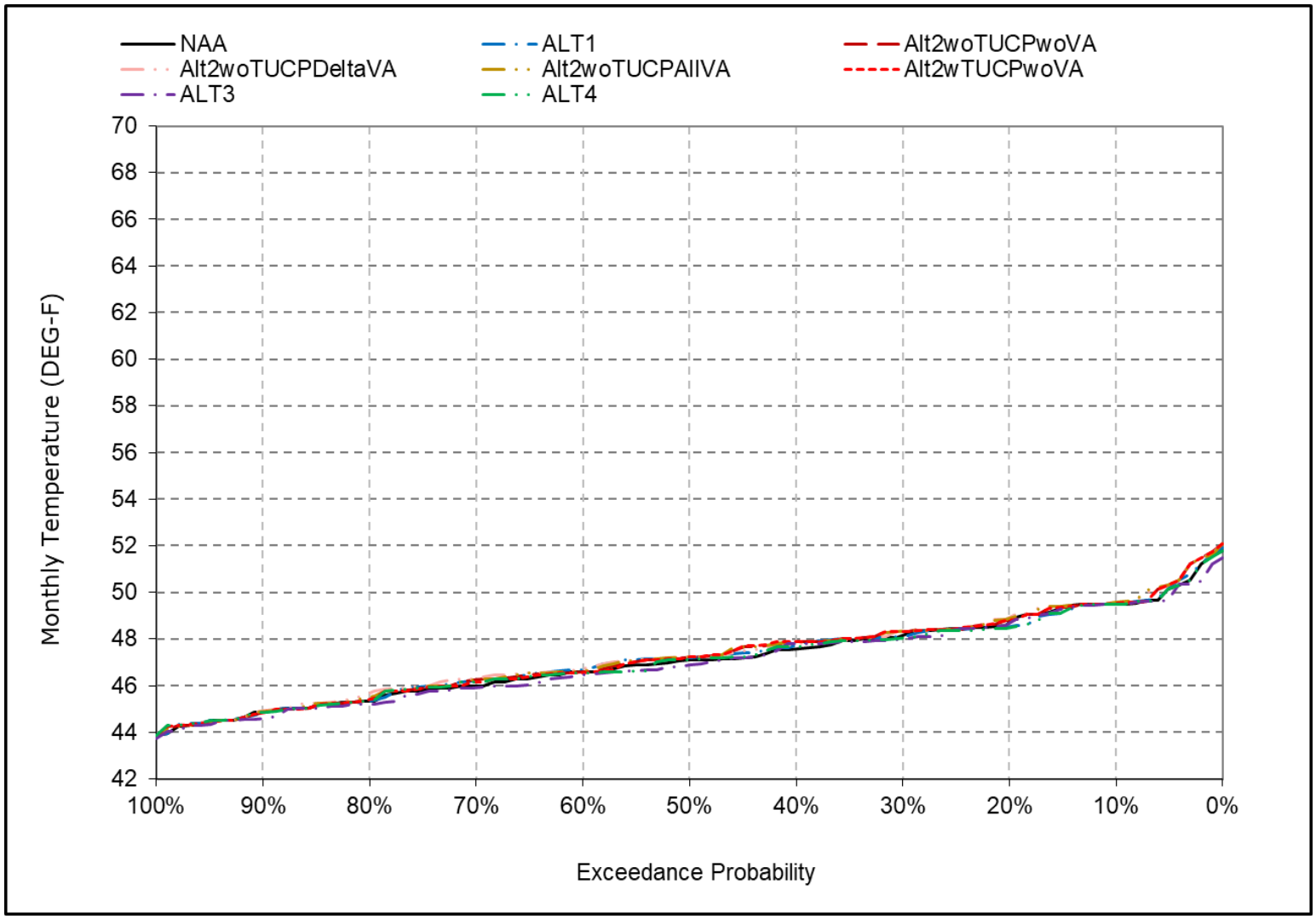
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-9. Trinity River below Lewiston Dam, December



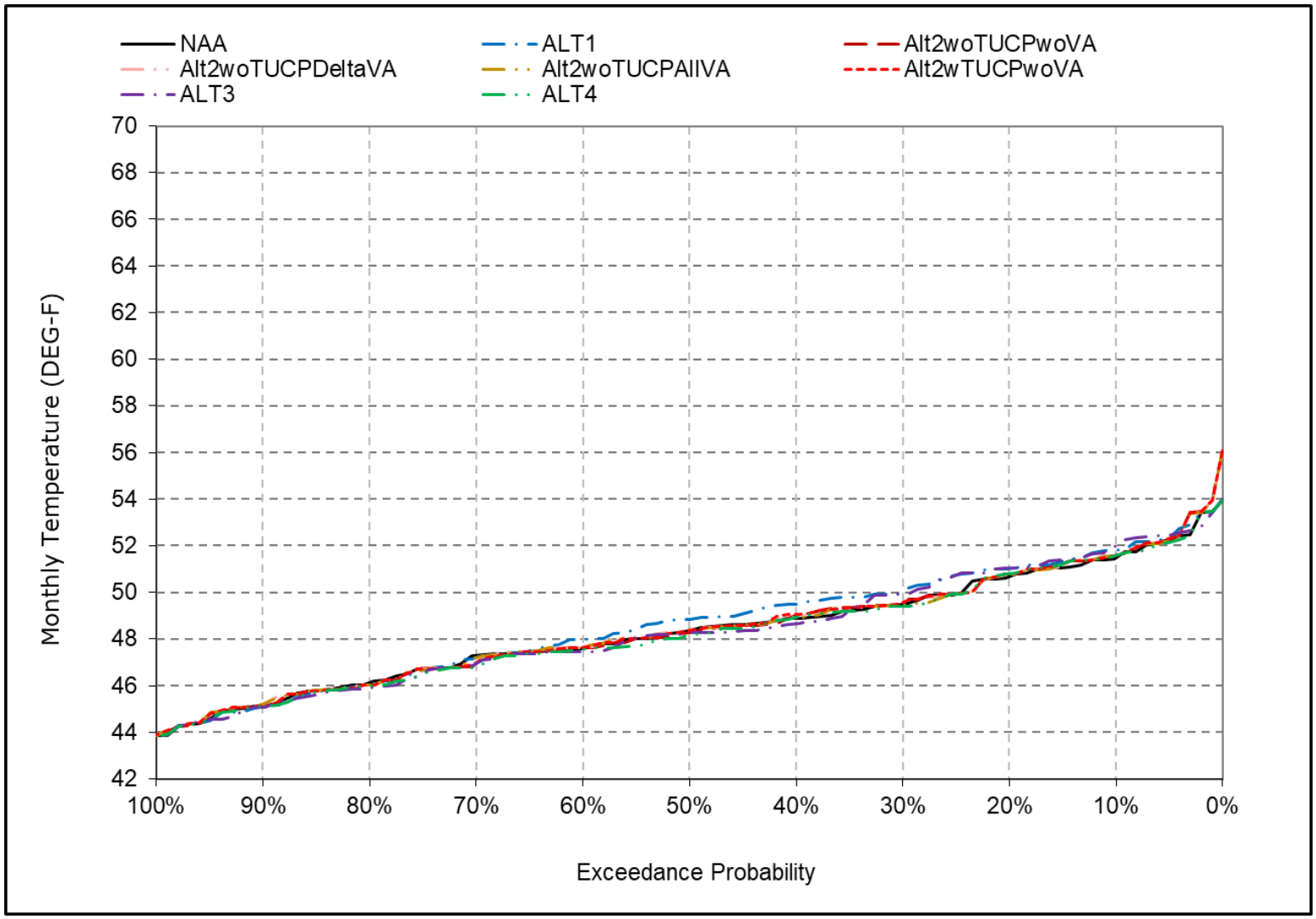
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-10. Trinity River below Lewiston Dam, January



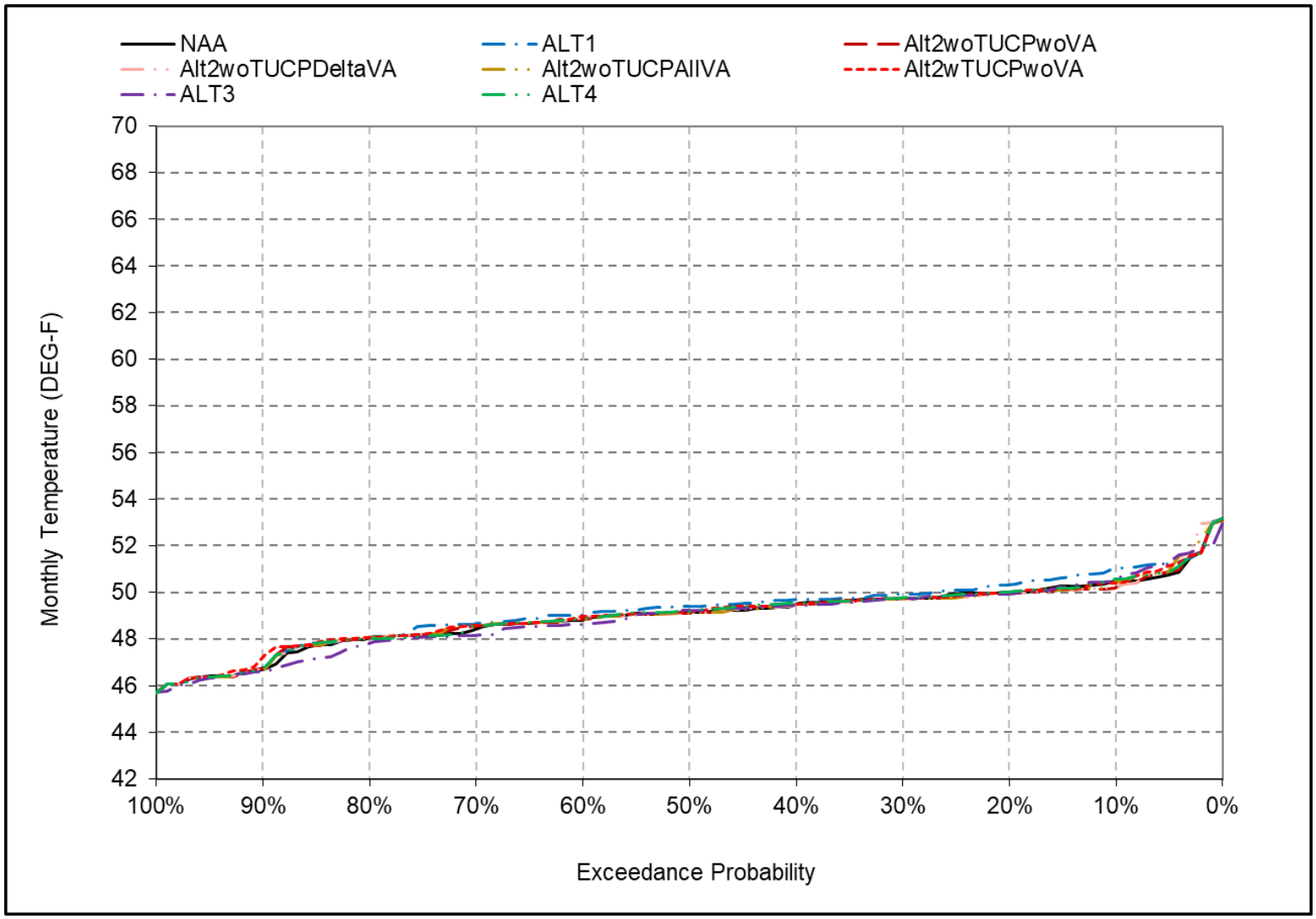
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-11. Trinity River below Lewiston Dam, February



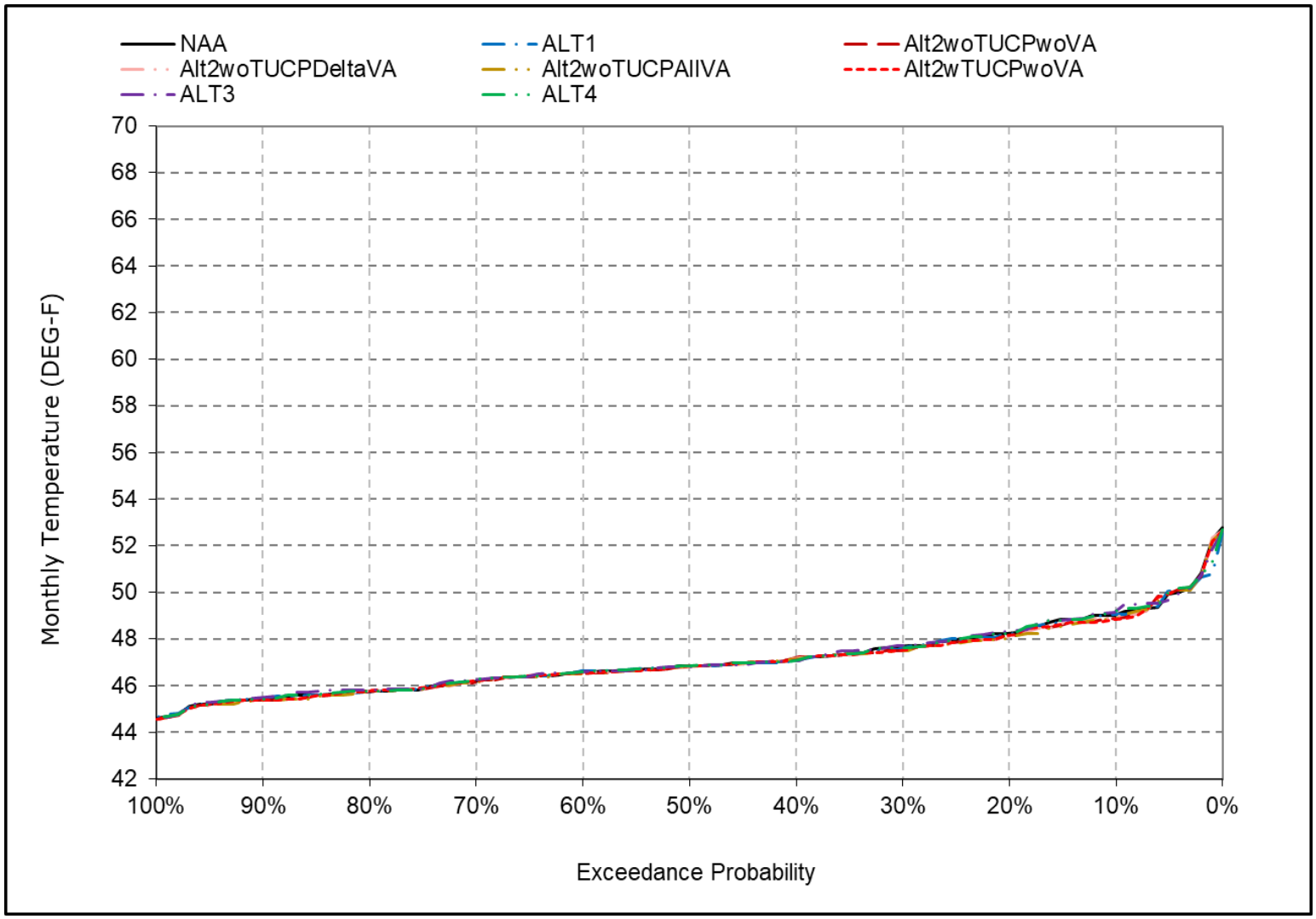
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-12. Trinity River below Lewiston Dam, March



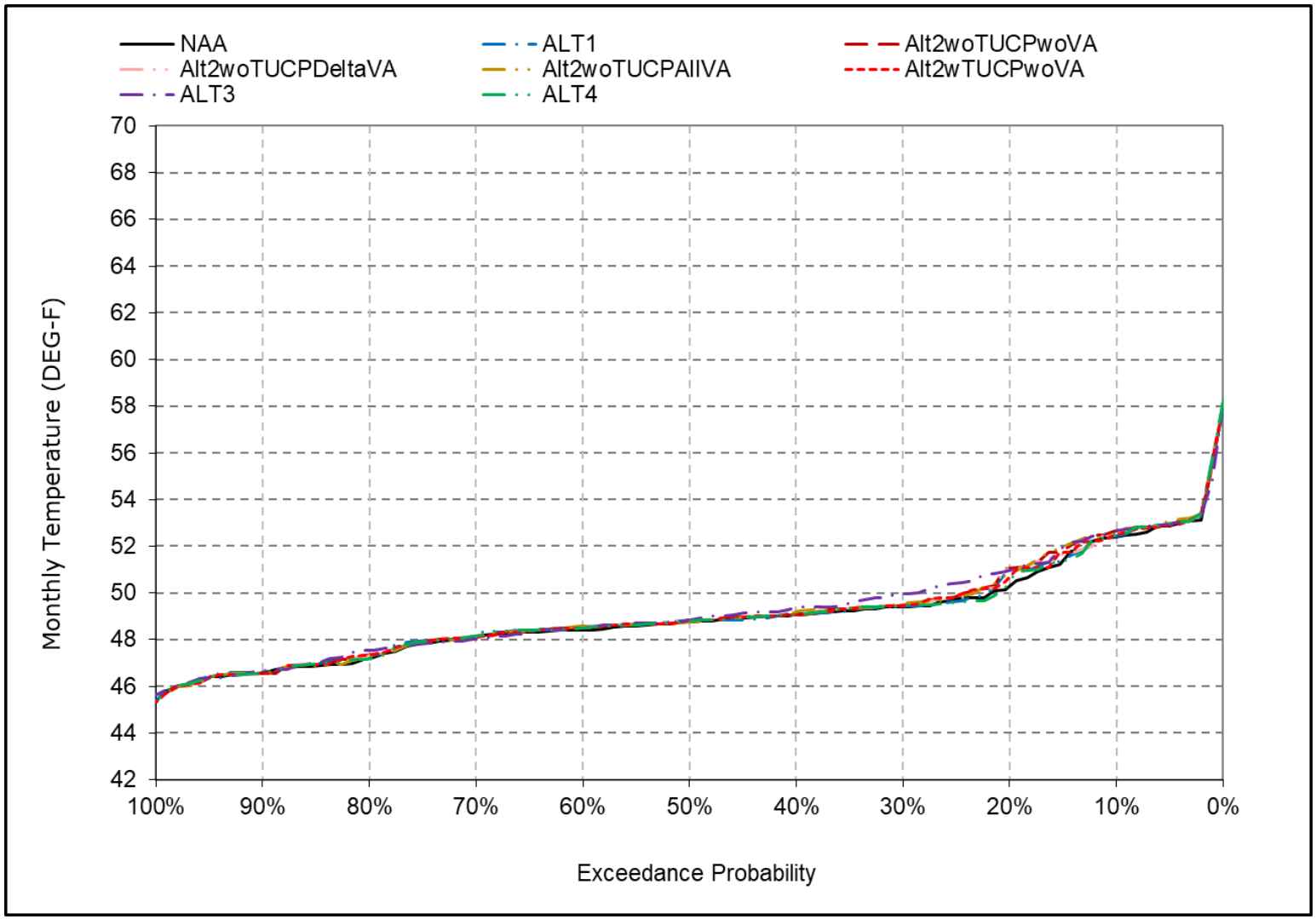
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-13. Trinity River below Lewiston Dam, April



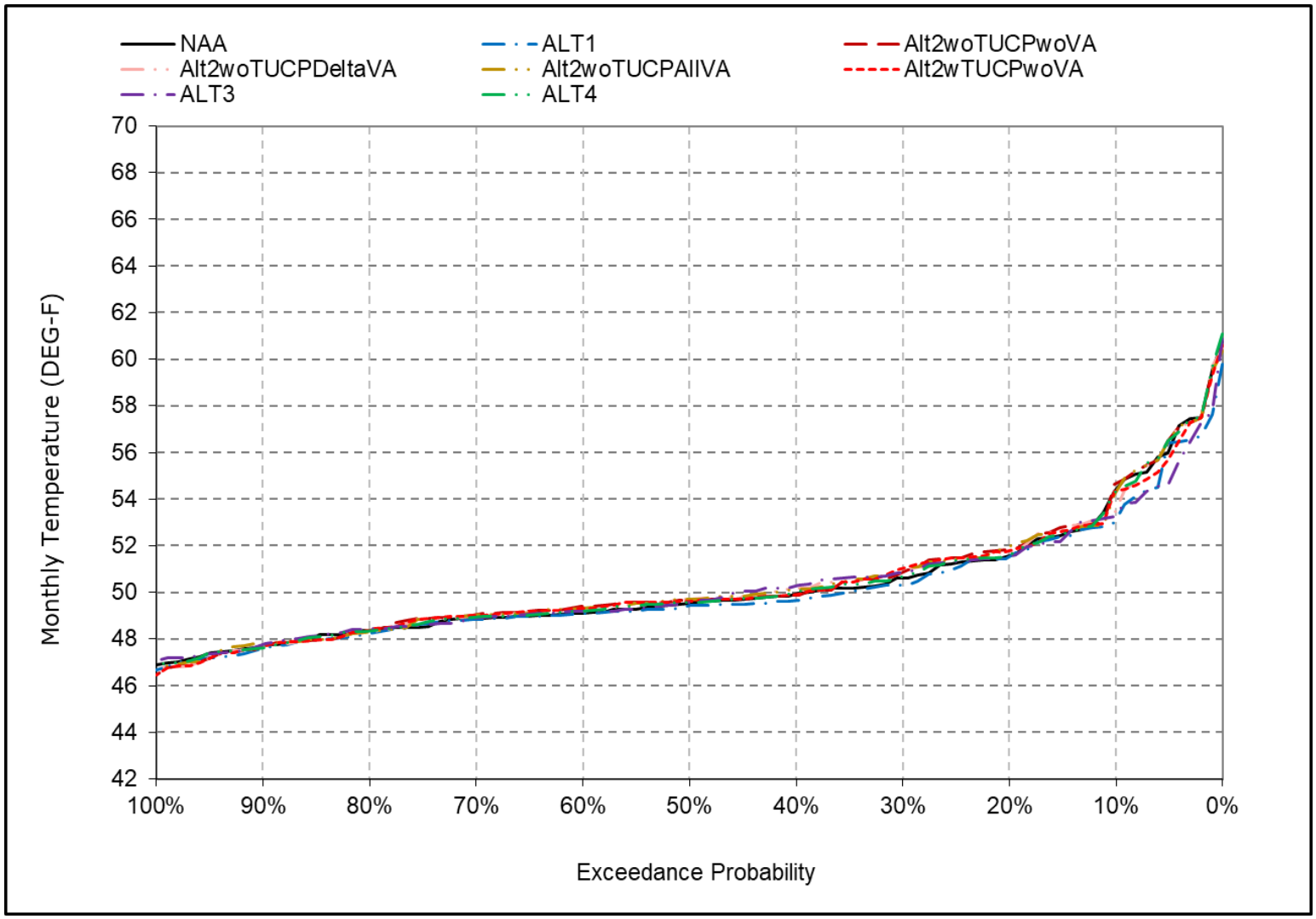
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-14. Trinity River below Lewiston Dam, May



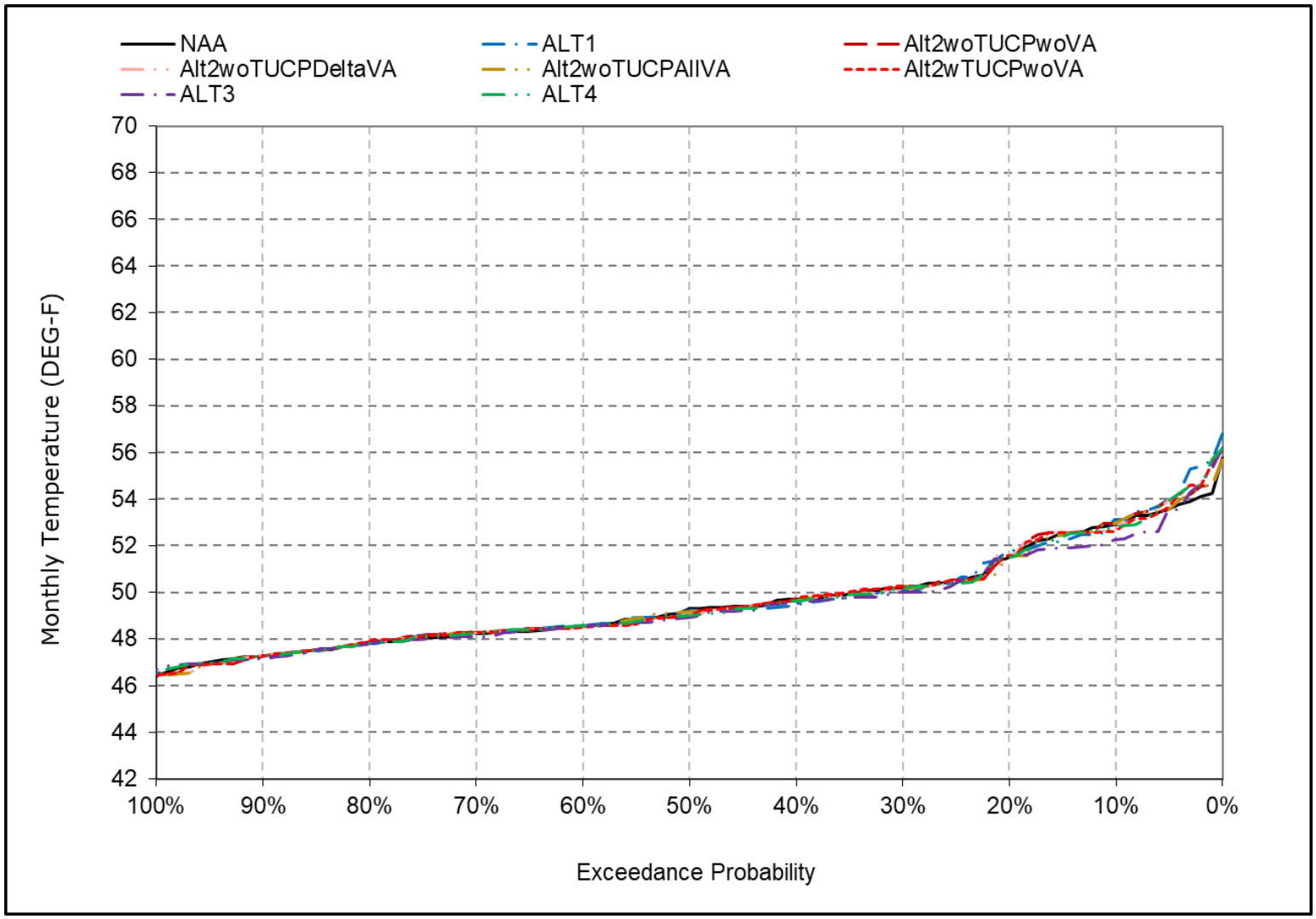
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-15. Trinity River below Lewiston Dam, June



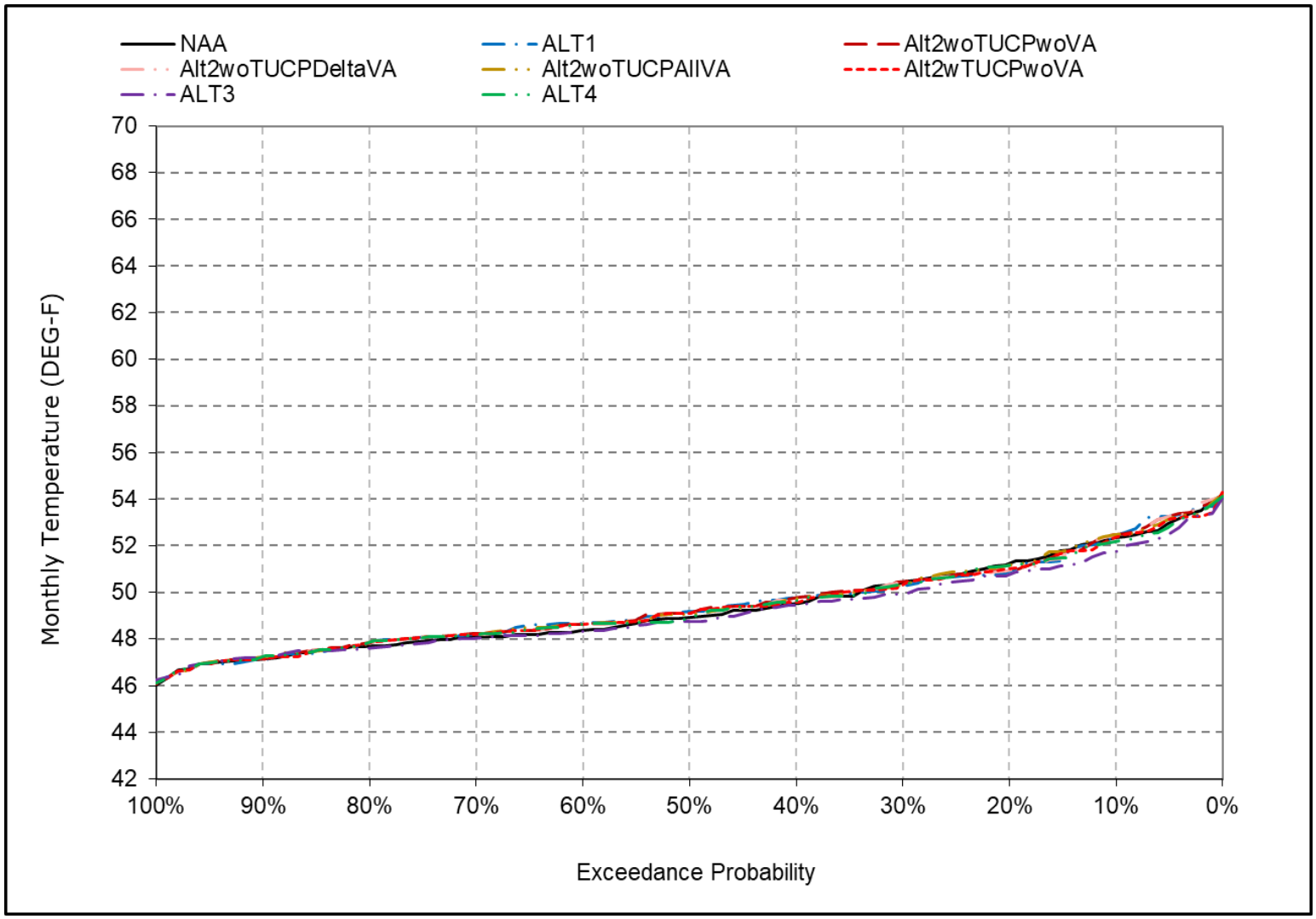
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-16. Trinity River below Lewiston Dam, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-17. Trinity River below Lewiston Dam, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-1-18. Trinity River below Lewiston Dam, September

Table F.2.11-2-1a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-1b. Clear Creek below Whiskeytown, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	51	48	46	47	48	49	50	52	52	53	53
20% Exceedance	52	51	48	46	46	47	49	50	51	52	52	52
30% Exceedance	51	50	47	46	46	47	48	50	51	52	52	52
40% Exceedance	50.8	49.9	47.1	45.4	45.7	46.8	48.1	49.5	50.7	51.5	51.8	51.3
50% Exceedance	50.3	49.4	46.9	45.2	45.4	46.6	47.9	49.2	50.5	51.3	51.5	51.0
60% Exceedance	50.1	49.2	46.7	44.9	45.3	46.4	47.7	48.9	50.2	51.1	51.3	50.7
70% Exceedance	49.7	48.8	46.4	44.8	45.0	46.0	47.5	48.6	49.9	50.7	50.9	50.5
80% Exceedance	49.4	48.2	46.1	44.5	44.7	45.8	47.0	48.4	49.5	50.4	50.5	50.1
90% Exceedance	49.0	47.4	45.8	43.9	44.3	45.5	46.8	48.0	48.9	49.9	50.0	49.7
Full Simulation Period Average[a]	51	50	47	45	46	47	48	49	50	51	52	52
Wet Water Years (28%)	49	48	46	45	45	46	47	49	50	51	51	50
Above Normal Years (14%)	50	48	46	45	45	46	48	49	50	51	51	50
Below Normal Years (18%)	51	50	47	45	45	46	48	49	50	51	51	52
Dry Years (24%)	51	50	47	45	46	47	48	49	51	52	52	52
Critical (16%)	56	53	47	46	46	47	49	50	51	52	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-1c. Clear Creek below Whiskeytown, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	-0.3	-0.5	-0.2	-0.1	-0.1	0.0	0.6	0.5	0.5	0.6	0.4
20% Exceedance	0	0	0	0	0	0	0	1	1	1	1	1
30% Exceedance	0.3	-0.5	-0.3	0.0	0.0	0.0	0.1	0.5	1.2	0.8	0.8	0.7
40% Exceedance	0	0	0	0	0	0	0	1	1	1	1	1
50% Exceedance	0	0	0	0	0	0	0	1	1	1	1	1
60% Exceedance	1	0	0	0	0	0	0	1	1	1	1	1
70% Exceedance	1	0	0	0	0	0	0	1	1	1	1	1
80% Exceedance	1	0	0	0	0	0	0	1	1	1	1	1
90% Exceedance	0.8	-0.1	-0.1	-0.3	0.1	0.3	0.3	0.8	1.1	0.9	1.0	0.9
Full Simulation Period Average[a]	0.9	-0.1	-0.3	-0.1	0.0	0.1	0.2	0.6	0.9	0.7	0.9	1.0
Wet Water Years (28%)	0.7	0.0	-0.1	0.1	0.4	0.4	0.5	0.7	0.6	0.6	0.7	0.7
Above Normal Years (14%)	0.6	-0.1	-0.2	0.0	0.3	0.4	0.5	0.5	0.9	0.4	1.1	1.0
Below Normal Years (18%)	0.4	-0.5	-0.5	-0.1	0.0	-0.1	0.1	0.5	1.0	0.7	1.0	0.8
Dry Years (24%)	0.3	-0.4	-0.4	-0.4	-0.2	-0.1	0.1	0.7	1.3	0.9	1.0	0.6
Critical (16%)	3	0	0	0	0	0	0	0	1	1	1	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-2a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-2b. Clear Creek below Whiskeytown, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	51	49	47	47	48	49	50	52	52	52	53
20% Exceedance	52	51	48	46	46	47	49	49	50	52	52	52
30% Exceedance	51	51	48	46	46	47	48	49	50	51	51	51
40% Exceedance	50.5	50.4	47.4	45.6	45.7	46.6	48.1	48.6	49.9	51.1	51.2	50.7
50% Exceedance	50.0	49.9	47.1	45.2	45.4	46.3	47.8	48.4	49.7	50.9	50.8	50.3
60% Exceedance	49.5	49.3	46.8	45.0	45.2	46.1	47.4	48.1	49.5	50.6	50.4	49.9
70% Exceedance	49.2	48.9	46.6	44.8	44.7	45.8	47.1	47.9	49.2	50.2	50.0	49.6
80% Exceedance	48.7	48.2	46.3	44.6	44.5	45.3	46.7	47.4	48.7	49.7	49.4	49.3
90% Exceedance	48.4	47.8	45.8	44.3	44.1	45.0	46.4	46.8	48.0	49.2	49.0	48.7
Full Simulation Period Average[a]	50	50	47	45	45	46	48	48	50	51	51	52
Wet Water Years (28%)	49	48	47	45	45	46	47	48	50	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	50	48	45	45	46	48	48	50	51	50	53
Dry Years (24%)	51	51	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	49	50	51	54	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-2c. Clear Creek below Whiskeytown, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	-0.1	0.1	0.1	0.0	0.0	0.0	-0.3	0.4	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.1	0.2	0.1	0.0	0.1	-0.1	0.3	0.2	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	-0.5	0.3	0.2	0.0	0.0
Full Simulation Period Average[a]	0.3	0.0	0.1	0.1	0.0	-0.1	0.0	-0.3	0.4	0.2	0.2	0.6
Wet Water Years (28%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	-0.2	0.7	0.4	0.3	0.0
Above Normal Years (14%)	0.1	0.1	0.0	0.0	0.0	-0.2	0.0	-0.5	0.4	-0.3	0.1	0.1
Below Normal Years (18%)	0.1	0.1	0.1	0.1	0.0	-0.2	0.1	-0.5	0.2	0.3	0.1	1.5
Dry Years (24%)	0.0	0.0	0.1	0.1	0.0	0.0	0.1	-0.2	0.4	0.3	0.3	0.1
Critical (16%)	1	0	0	0	0	0	0	0	0	0	0	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-3a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-3b. Clear Creek below Whiskeytown, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	52	49	47	47	48	49	50	52	52	52	53
20% Exceedance	52	51	48	46	46	47	49	49	51	52	52	52
30% Exceedance	51	51	48	46	46	47	48	49	50	51	52	51
40% Exceedance	50.5	50.4	47.4	45.6	45.7	46.6	48.1	48.6	49.9	51.1	51.1	50.7
50% Exceedance	49.9	49.7	47.1	45.3	45.4	46.3	47.8	48.2	49.7	50.9	50.8	50.2
60% Exceedance	49.5	49.4	46.9	45.0	45.2	46.1	47.4	48.0	49.5	50.6	50.4	49.8
70% Exceedance	49.2	48.9	46.6	44.8	44.8	45.8	47.1	47.8	49.2	50.1	50.0	49.7
80% Exceedance	48.8	48.2	46.3	44.6	44.5	45.4	46.7	47.3	48.7	49.6	49.4	49.3
90% Exceedance	48.4	47.8	45.8	44.3	44.2	45.0	46.5	46.8	48.2	49.2	49.0	48.8
Full Simulation Period Average[a]	50	50	47	45	45	46	48	48	50	51	52	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	50	51	51	50
Above Normal Years (14%)	49	49	47	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	50	48	45	45	46	48	48	50	51	51	52
Dry Years (24%)	51	51	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	49	50	51	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-3c. Clear Creek below Whiskeytown, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.2	0.2	0.0	0.0	0.1	-0.2	0.6	0.3	0.1	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.0	0.1	0.2	0.1	0.1	0.1	-0.1	0.4	0.3	0.2	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.3	0.0	0.0	-0.1	-0.2	0.0	-0.4	0.4	0.2	0.0	0.1
Full Simulation Period Average[a]	0.3	0.0	0.1	0.1	0.0	-0.1	0.1	-0.3	0.5	0.3	0.6	0.4
Wet Water Years (28%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	-0.3	0.8	0.6	0.5	0.1
Above Normal Years (14%)	0.1	0.1	0.0	0.0	0.0	-0.2	0.0	-0.6	0.3	-0.2	0.0	0.0
Below Normal Years (18%)	0.1	0.0	0.1	0.1	0.0	-0.1	0.1	-0.5	0.2	0.4	0.6	0.1
Dry Years (24%)	0.1	0.1	0.1	0.2	0.1	0.0	0.1	-0.1	0.6	0.4	0.3	0.1
Critical (16%)	1	0	0	0	0	0	0	0	0	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-4a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-4b. Clear Creek below Whiskeytown, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	52	49	47	47	48	49	50	52	52	52	53
20% Exceedance	51	51	48	46	46	47	49	49	51	52	52	52
30% Exceedance	51	51	48	46	46	47	48	49	50	51	51	51
40% Exceedance	50.5	50.3	47.4	45.6	45.7	46.6	48.0	48.5	49.8	51.1	51.2	50.8
50% Exceedance	49.8	49.6	47.1	45.3	45.4	46.3	47.7	48.3	49.6	50.8	50.8	50.4
60% Exceedance	49.5	49.3	46.8	45.0	45.2	46.0	47.4	48.0	49.5	50.6	50.4	49.9
70% Exceedance	49.2	48.9	46.7	44.7	44.8	45.8	47.1	47.8	49.2	50.2	50.0	49.6
80% Exceedance	48.8	48.2	46.3	44.6	44.5	45.3	46.7	47.3	48.8	49.7	49.4	49.2
90% Exceedance	48.4	47.8	45.8	44.3	44.2	45.0	46.5	46.8	48.1	49.2	49.0	48.8
Full Simulation Period Average[a]	50	50	47	45	45	46	48	48	50	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	50	51	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	50	48	45	45	46	48	48	49	51	51	52
Dry Years (24%)	51	51	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	50	51	51	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-4c. Clear Creek below Whiskeytown, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.1	0.1	0.1	0.0	0.0	0.0	-0.2	0.6	0.2	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	-0.1	0.1	0.2	0.1	0.0	0.1	-0.3	0.3	0.3	0.1	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.3	0.0	0.0	-0.1	-0.2	0.1	-0.5	0.3	0.2	0.0	0.1
Full Simulation Period Average[a]	0.3	-0.1	0.1	0.1	0.0	-0.1	0.1	-0.3	0.4	0.2	0.5	0.3
Wet Water Years (28%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	-0.2	0.8	0.4	0.3	0.0
Above Normal Years (14%)	0.1	0.1	0.0	0.0	0.0	-0.2	0.0	-0.6	0.2	-0.2	0.0	0.1
Below Normal Years (18%)	0.2	-0.1	0.1	0.1	0.0	-0.1	0.1	-0.7	0.1	0.2	0.2	0.1
Dry Years (24%)	0.0	0.0	0.1	0.1	0.0	0.0	0.1	-0.1	0.5	0.4	0.3	0.1
Critical (16%)	1	0	0	0	0	0	0	0	0	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-5a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-5b. Clear Creek below Whiskeytown, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	52	49	47	47	48	49	50	52	52	52	53
20% Exceedance	52	51	48	46	46	47	49	49	51	52	52	52
30% Exceedance	51	51	48	46	46	47	48	49	50	51	51	51
40% Exceedance	50.4	50.3	47.4	45.6	45.7	46.6	48.1	48.6	49.9	51.1	51.2	50.7
50% Exceedance	49.9	49.7	47.1	45.2	45.3	46.3	47.7	48.4	49.7	50.9	50.6	50.1
60% Exceedance	49.5	49.2	46.8	45.0	45.2	46.0	47.4	48.1	49.5	50.7	50.4	49.9
70% Exceedance	49.2	48.9	46.6	44.8	44.7	45.8	47.1	47.9	49.2	50.2	50.1	49.6
80% Exceedance	48.7	48.2	46.3	44.6	44.5	45.3	46.7	47.6	48.8	49.7	49.3	49.2
90% Exceedance	48.4	47.8	45.8	44.3	44.1	45.0	46.4	46.8	48.1	49.2	49.0	48.7
Full Simulation Period Average[a]	50	50	47	45	45	46	48	48	50	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	50	50	51	50
Above Normal Years (14%)	49	49	46	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	48	50	51	50	52
Dry Years (24%)	51	51	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	50	51	54	54	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-5c. Clear Creek below Whiskeytown, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.0	0.1	0.1	0.0	0.0	0.0	-0.3	0.6	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.2	0.1	0.1	0.2	-0.1	0.3	0.3	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.3	0.0	0.0	-0.1	-0.2	0.0	-0.5	0.3	0.3	0.0	0.0
Full Simulation Period Average[a]	0.3	-0.1	0.0	0.1	0.0	-0.1	0.0	-0.2	0.5	0.5	0.3	0.3
Wet Water Years (28%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	-0.2	0.7	0.4	0.4	0.1
Above Normal Years (14%)	0.1	0.1	-0.1	0.0	0.0	-0.2	0.0	-0.5	0.4	-0.3	0.0	0.1
Below Normal Years (18%)	0.0	-0.1	-0.2	0.1	0.0	-0.1	0.1	-0.5	0.2	0.2	0.1	0.0
Dry Years (24%)	0.0	0.0	0.2	0.1	0.0	0.0	0.1	-0.2	0.5	0.3	0.3	0.0
Critical (16%)	1	0	0	0	0	0	0	0	1	2	0	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-6a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-6b. Clear Creek below Whiskeytown, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	52	49	47	47	48	49	50	53	52	53	52
20% Exceedance	51	51	48	46	46	47	48	49	51	52	52	52
30% Exceedance	51	50	48	46	46	47	48	49	51	51	52	51
40% Exceedance	50.3	50.0	47.4	45.6	45.8	46.7	48.0	48.9	50.2	51.2	51.1	50.6
50% Exceedance	49.8	49.4	47.1	45.3	45.4	46.4	47.6	48.5	50.0	50.9	50.9	50.1
60% Exceedance	49.5	49.1	46.8	45.0	45.1	46.1	47.2	48.2	49.7	50.7	50.5	49.8
70% Exceedance	49.0	48.9	46.6	44.7	44.8	45.8	46.8	47.9	49.2	50.3	50.1	49.6
80% Exceedance	48.8	48.5	46.3	44.6	44.6	45.5	46.5	47.6	48.8	49.9	49.8	49.3
90% Exceedance	48.5	48.0	46.0	44.3	44.1	45.0	46.3	47.0	48.3	49.3	49.4	48.8
Full Simulation Period Average[a]	50	50	47	45	46	46	48	49	50	51	51	51
Wet Water Years (28%)	49	49	47	45	45	46	47	48	50	51	51	50
Above Normal Years (14%)	49	49	47	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	49	47	45	45	46	48	48	50	51	51	50
Dry Years (24%)	51	50	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	50	51	54	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-6c. Clear Creek below Whiskeytown, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.0	0.1	0.5	0.2	0.1	0.0	0.0	2.3	0.7	0.3	-0.5
20% Exceedance	0	0	0	0	0	0	0	0	1	1	1	0
30% Exceedance	-0.1	-0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.8	0.4	0.3	-0.1
40% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	1	0	0
90% Exceedance	0.2	0.5	0.2	0.0	-0.1	-0.2	-0.2	-0.2	0.6	0.3	0.4	0.0
Full Simulation Period Average[a]	0.2	-0.1	0.0	0.1	0.1	-0.1	-0.1	-0.1	0.8	0.7	0.4	-0.3
Wet Water Years (28%)	0.2	0.3	0.2	0.0	0.0	-0.1	-0.1	-0.1	1.2	0.4	0.4	-0.2
Above Normal Years (14%)	0.1	0.1	0.1	0.0	0.0	-0.2	-0.1	-0.3	0.8	-0.3	0.3	0.2
Below Normal Years (18%)	-0.4	-0.7	-0.3	0.2	0.1	-0.1	-0.1	-0.1	0.5	0.5	0.3	-1.6
Dry Years (24%)	-0.1	-0.1	0.0	0.2	0.1	0.0	0.0	0.1	0.7	0.5	0.3	0.0
Critical (16%)	1	0	0	0	0	0	0	0	1	2	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-7a. Clear Creek below Whiskeytown, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.1	51.6	48.6	46.5	46.8	47.7	49.0	49.8	51.1	51.8	52.4	52.9
20% Exceedance	51.7	51.1	48.0	46.2	46.3	47.3	48.5	49.5	50.2	51.3	51.5	51.6
30% Exceedance	50.9	50.7	47.6	45.7	45.9	47.0	48.2	49.2	49.8	51.0	51.3	51.1
40% Exceedance	50.4	50.2	47.3	45.5	45.7	46.7	47.9	48.8	49.4	50.8	50.8	50.7
50% Exceedance	50	50	47	45	45	46	48	49	49	51	50	50
60% Exceedance	49	49	47	45	45	46	47	48	49	50	50	50
70% Exceedance	49	49	47	45	45	46	47	48	49	50	50	49
80% Exceedance	49	48	46	45	45	46	47	48	48	49	49	49
90% Exceedance	48	48	46	44	44	45	46	47	48	49	49	49
Full Simulation Period Average[a]	50	50	47	45	45	47	48	49	49	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	49	50	50	50
Above Normal Years (14%)	49	49	47	45	45	46	47	49	49	51	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	49	49	51	50	52
Dry Years (24%)	50.9	50.5	47.7	45.6	45.8	46.9	48.1	48.7	49.4	50.6	50.8	50.9
Critical (16%)	53	53	48	46	47	48	49	50	50	51	54	54

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-7b. Clear Creek below Whiskeytown, Alternative 4, Monthly Temperature (°F)

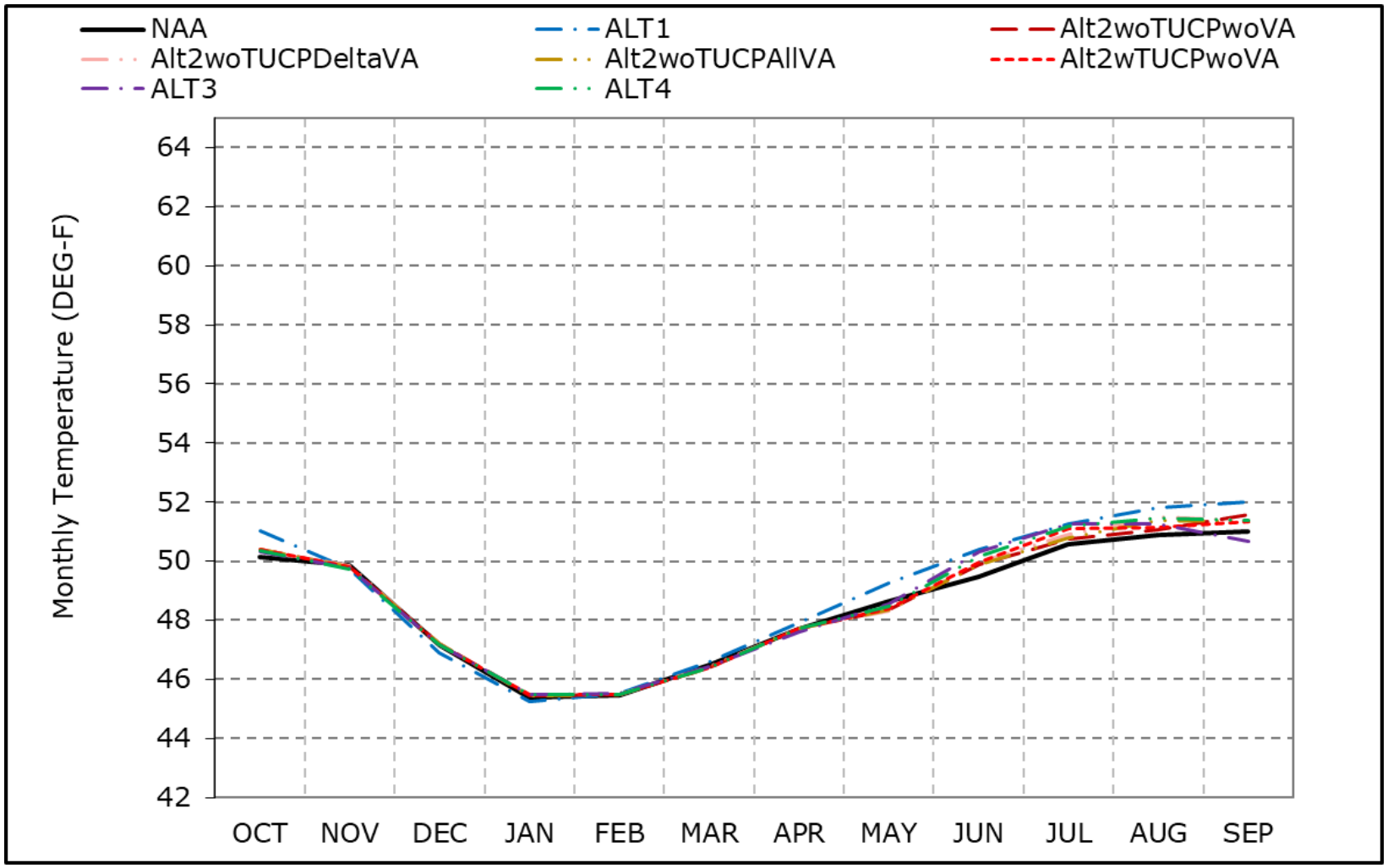
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	52	49	47	47	48	49	50	52	52	53	53
20% Exceedance	52	51	48	46	46	47	49	49	51	52	52	52
30% Exceedance	51	51	48	46	46	47	48	49	50	51	51	51
40% Exceedance	50.4	50.2	47.4	45.6	45.7	46.6	48.0	48.6	49.9	51.1	51.1	50.7
50% Exceedance	49.8	49.6	47.1	45.3	45.3	46.3	47.8	48.4	49.7	50.9	50.8	50.1
60% Exceedance	49.6	49.3	46.8	45.0	45.2	46.0	47.5	48.1	49.5	50.7	50.4	49.8
70% Exceedance	49.3	48.7	46.5	44.7	44.7	45.8	47.1	47.8	49.2	50.3	50.1	49.6
80% Exceedance	48.8	48.2	46.3	44.6	44.5	45.4	46.7	47.5	48.8	49.8	49.5	49.2
90% Exceedance	48.3	47.5	45.8	44.3	44.2	45.0	46.5	46.9	48.1	49.3	49.1	48.7
Full Simulation Period Average[a]	50	50	47	45	45	46	48	48	50	51	51	51
Wet Water Years (28%)	49	48	47	45	45	46	47	48	50	51	51	50
Above Normal Years (14%)	49	48	46	45	45	46	47	48	50	50	50	49
Below Normal Years (18%)	50	50	47	45	45	46	48	48	50	51	50	52
Dry Years (24%)	51	50	48	46	46	47	48	49	50	51	51	51
Critical (16%)	54	52	48	46	47	48	49	50	51	54	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-2-7c. Clear Creek below Whiskeytown, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

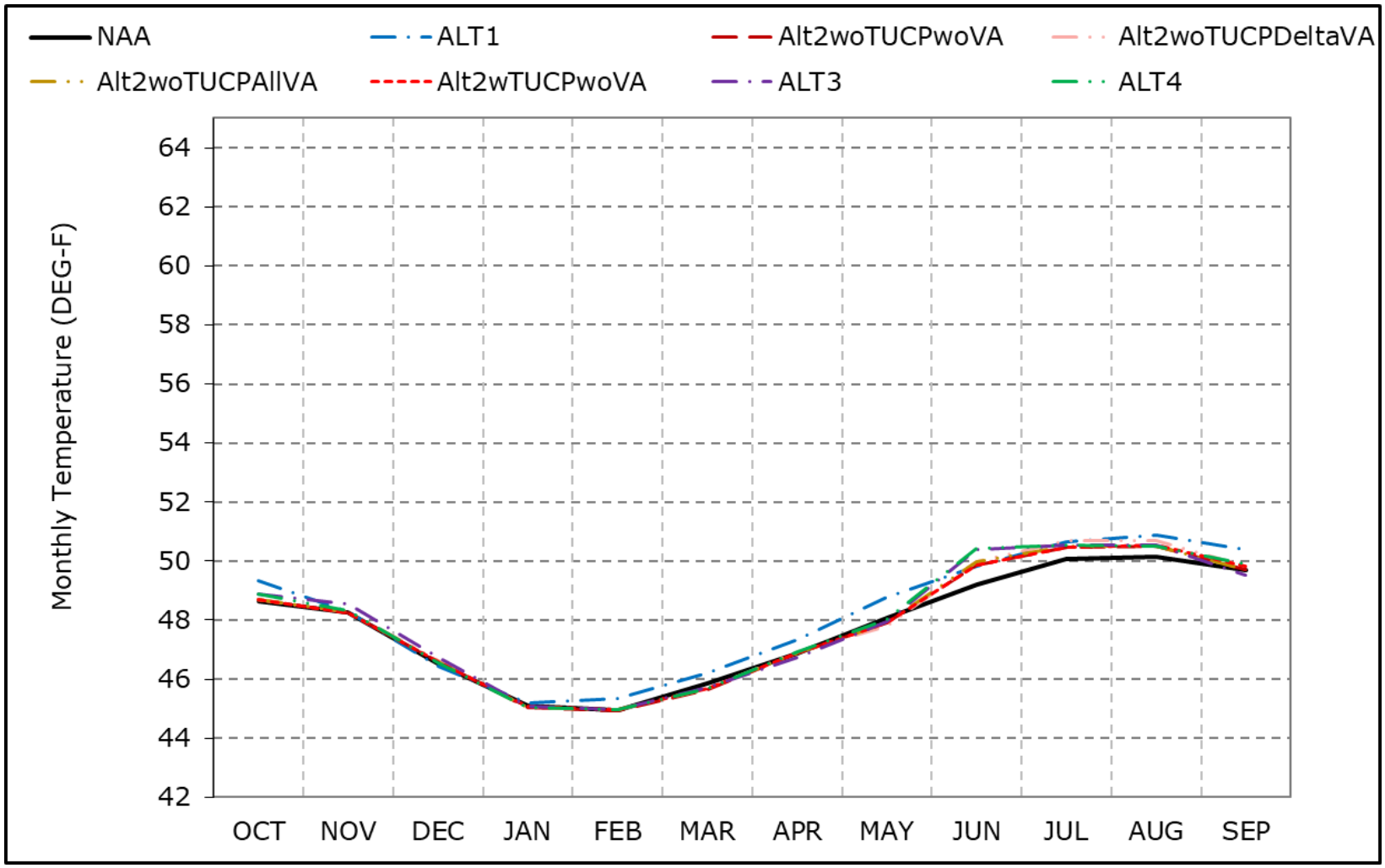
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.1	1.4	0.4	0.2	0.1
20% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
30% Exceedance	0.1	-0.1	0.1	0.1	0.0	0.0	0.2	-0.1	0.4	0.4	0.2	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.0	0.0	0.0	-0.1	-0.2	0.1	-0.4	0.4	0.3	0.1	0.0
Full Simulation Period Average[a]	0.2	-0.1	0.0	0.1	0.0	-0.1	0.0	-0.1	0.7	0.6	0.6	0.4
Wet Water Years (28%)	0.2	0.1	0.0	0.0	0.0	-0.2	0.0	0.0	1.2	0.5	0.4	0.2
Above Normal Years (14%)	0.1	-0.1	-0.1	0.0	0.0	-0.2	0.0	-0.6	0.2	-0.2	0.1	0.0
Below Normal Years (18%)	-0.1	-0.3	0.0	0.1	0.0	-0.1	0.1	-0.3	0.4	0.3	0.1	0.0
Dry Years (24%)	-0.1	0.0	0.1	0.2	0.0	-0.1	0.0	0.0	0.5	0.4	0.3	0.0
Critical (16%)	1	0	0	0	0	0	0	0	1	2	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



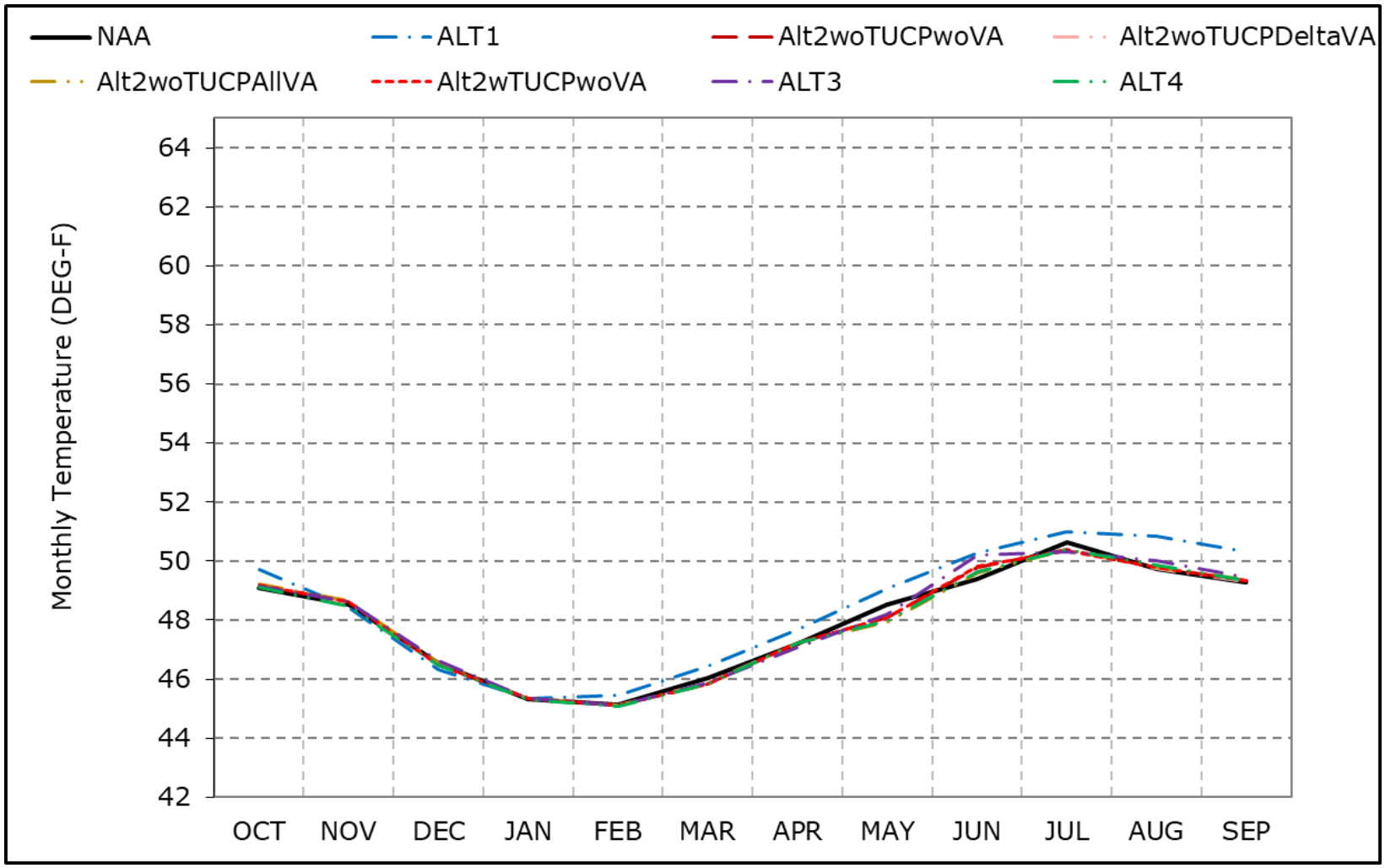
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-1. Clear Creek below Whiskeytown, Long-Term Average Temperature



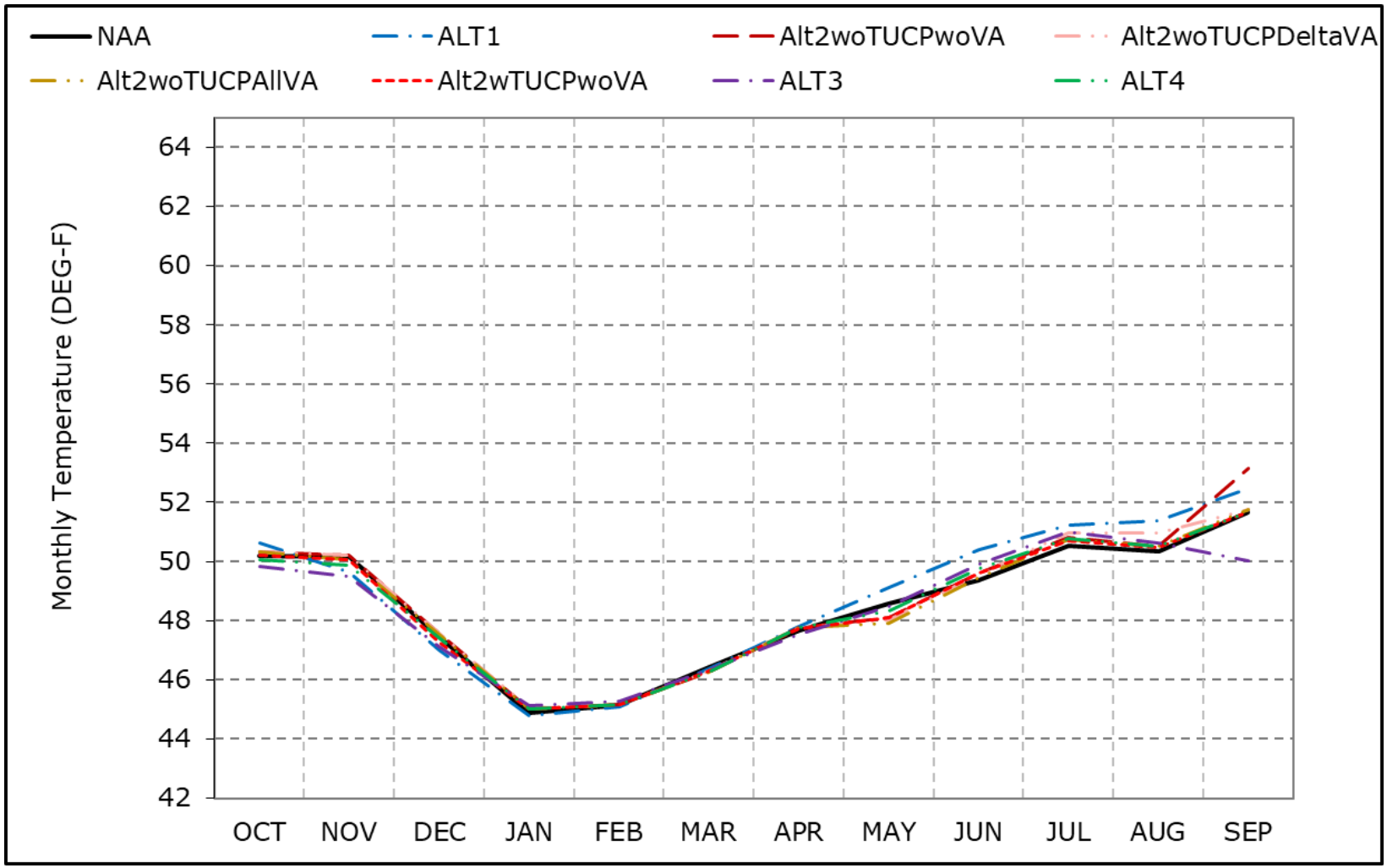
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-2. Clear Creek below Whiskeytown, Wet Year Average Temperature



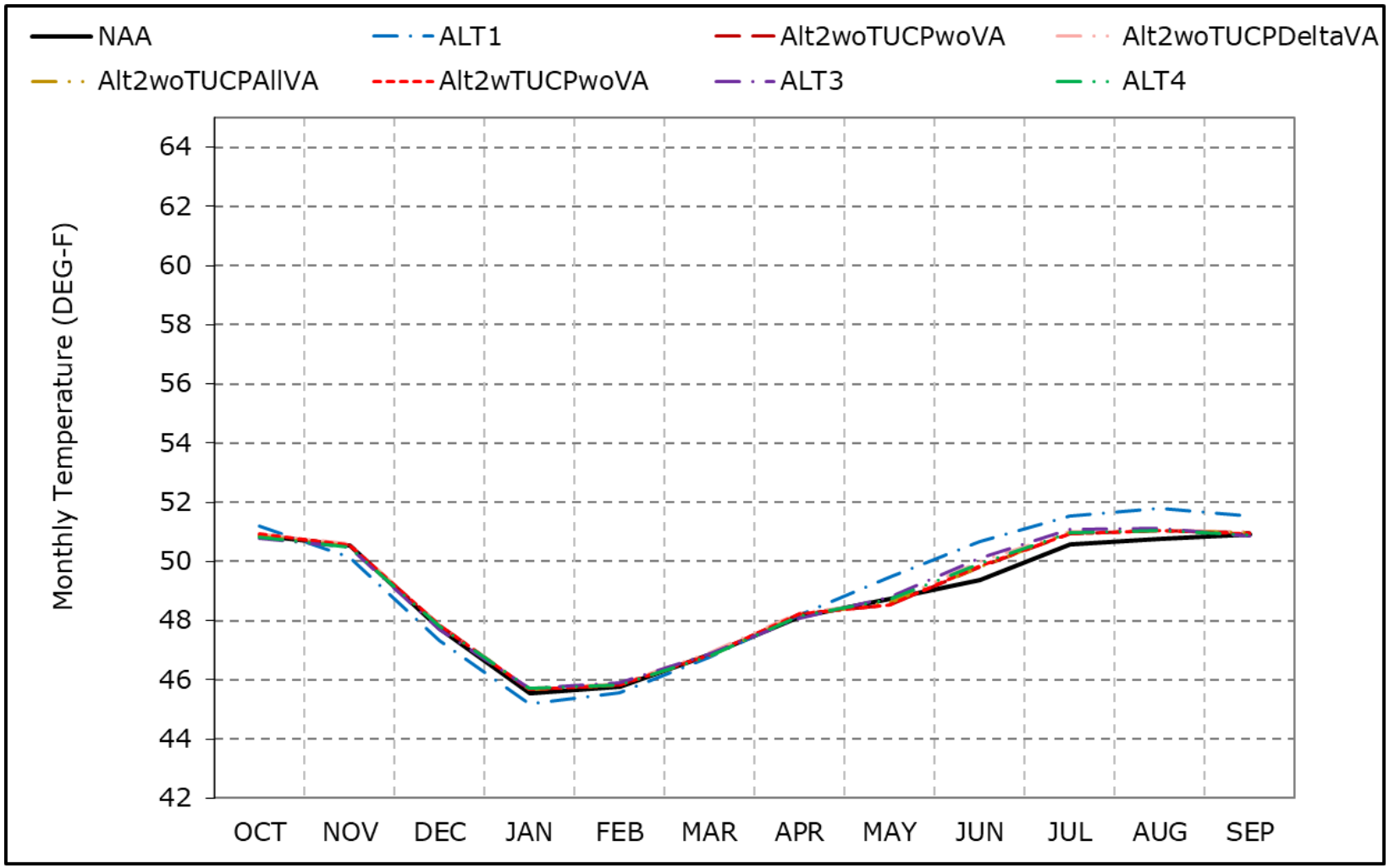
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-3. Clear Creek below Whiskeytown, Above Normal Year Average Temperature



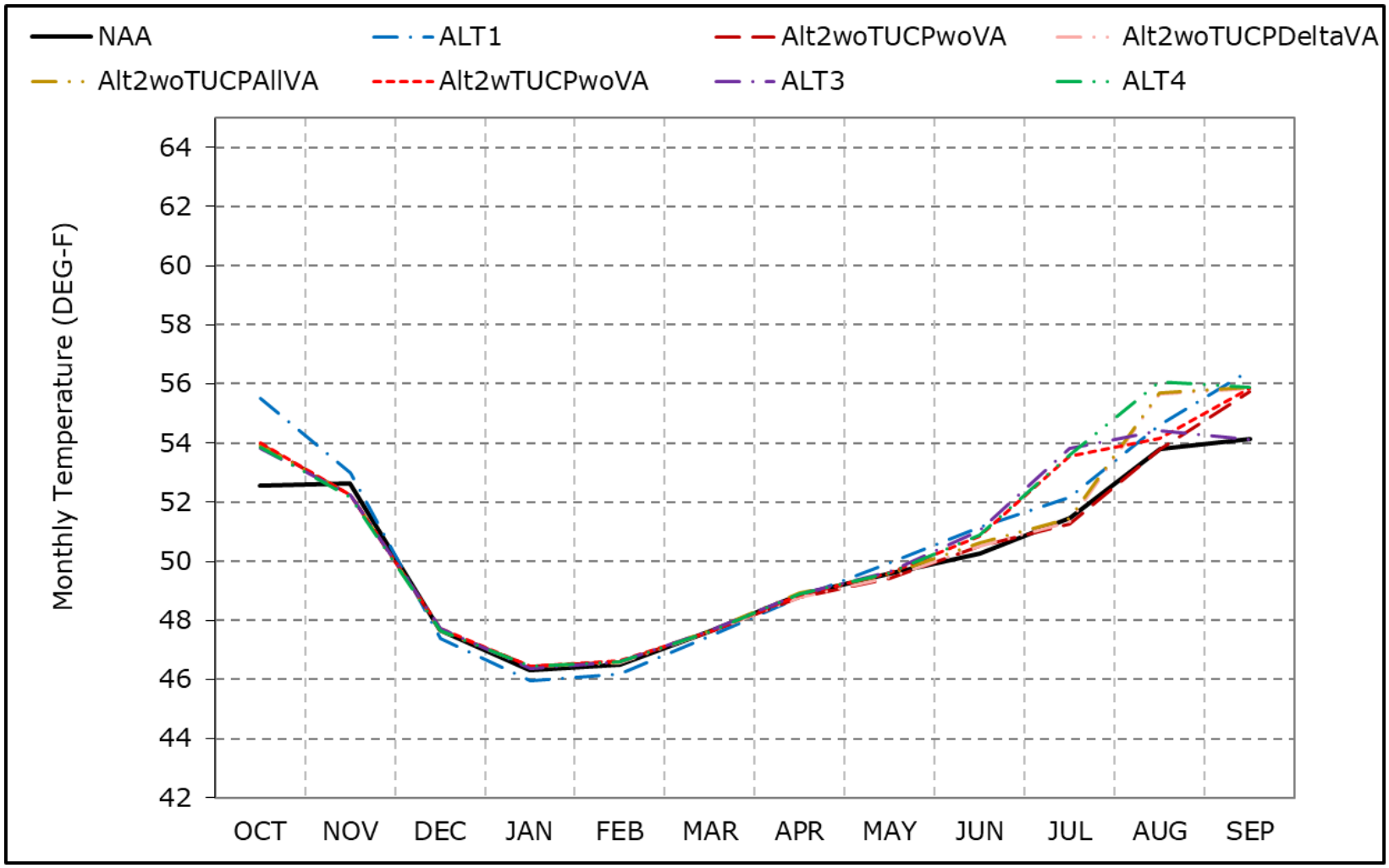
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-4. Clear Creek below Whiskeytown, Below Normal Year Average Temperature



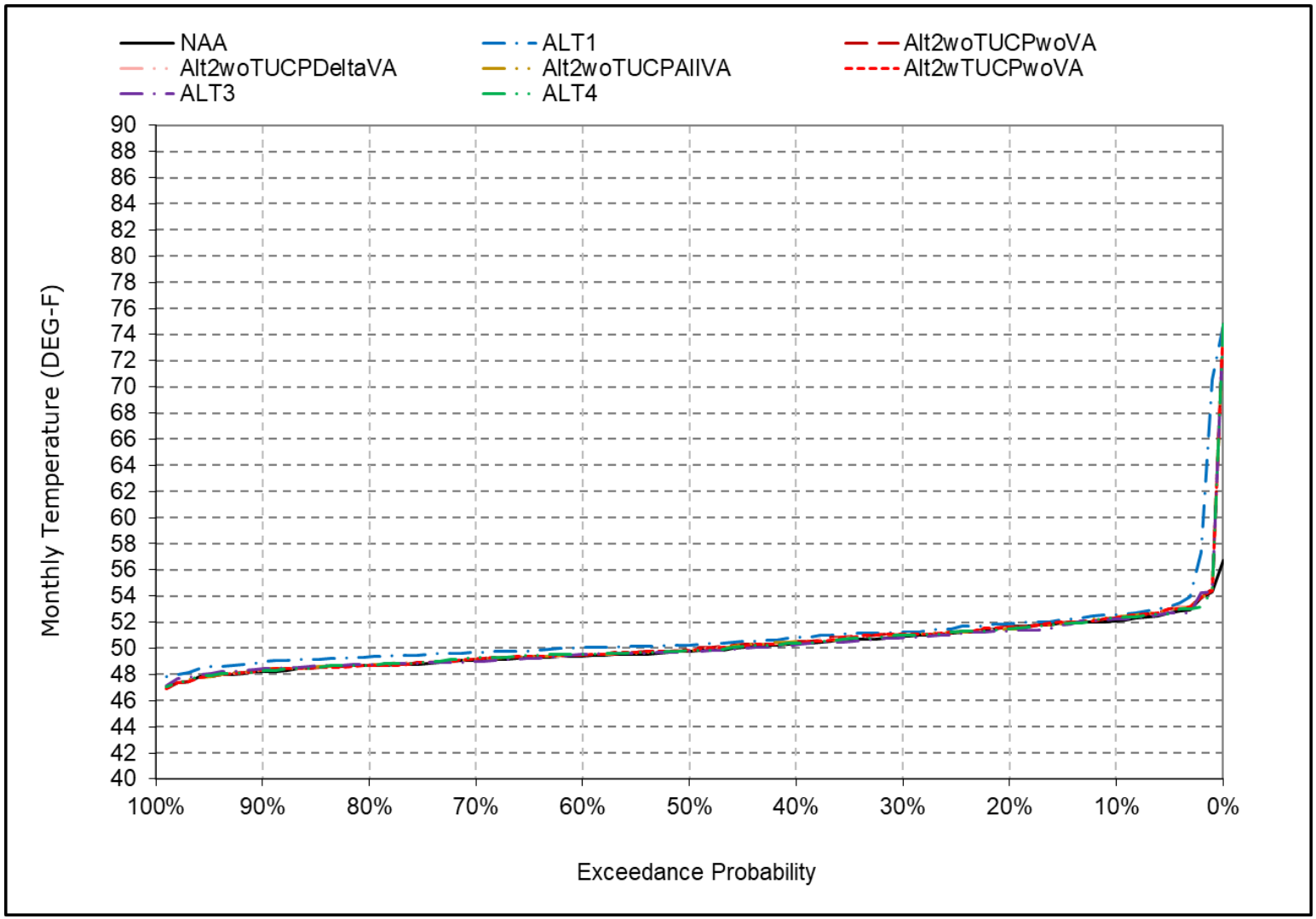
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-5. Clear Creek below Whiskeytown, Dry Year Average Temperature



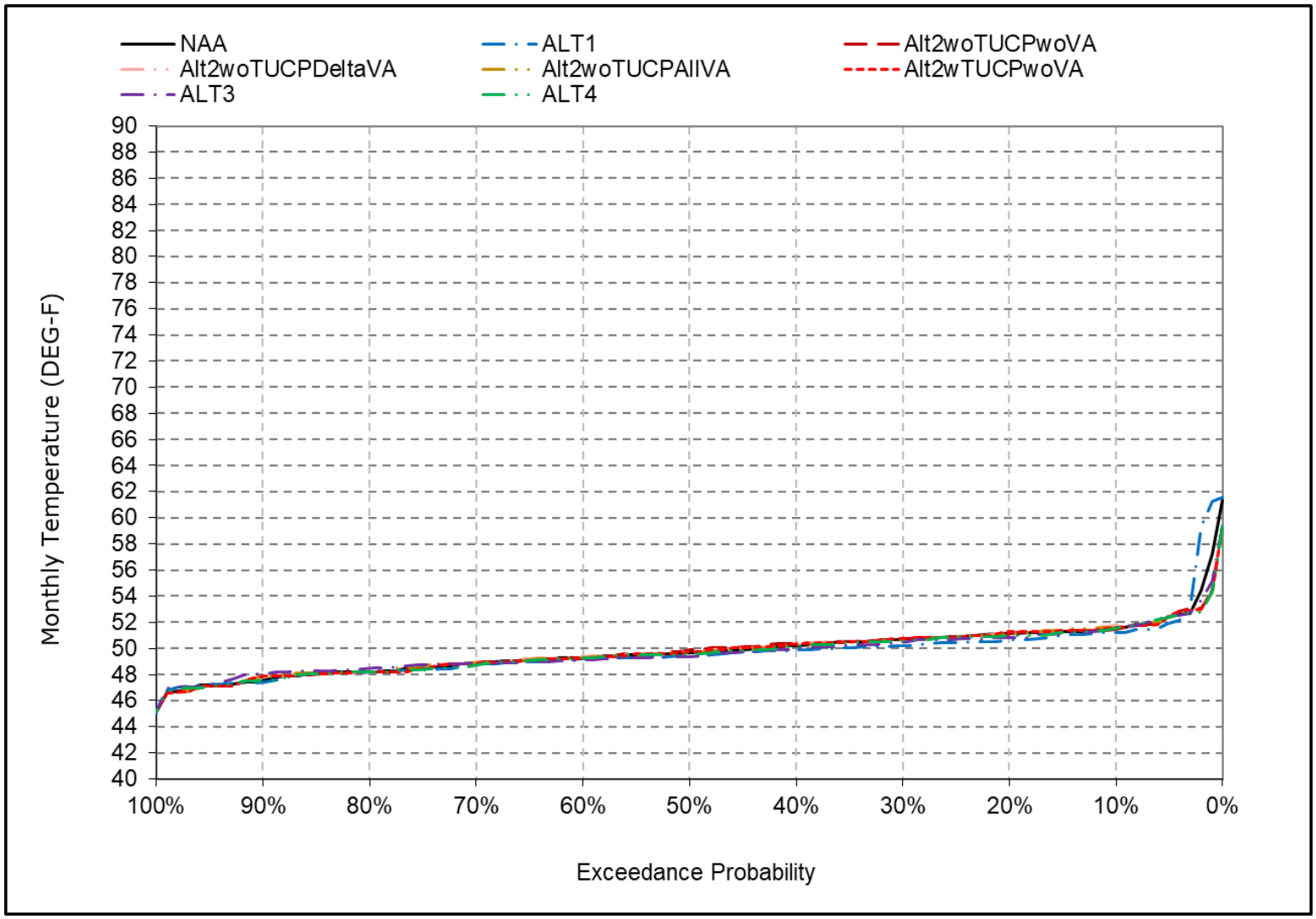
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-6. Clear Creek below Whiskeytown, Critical Year Average Temperature



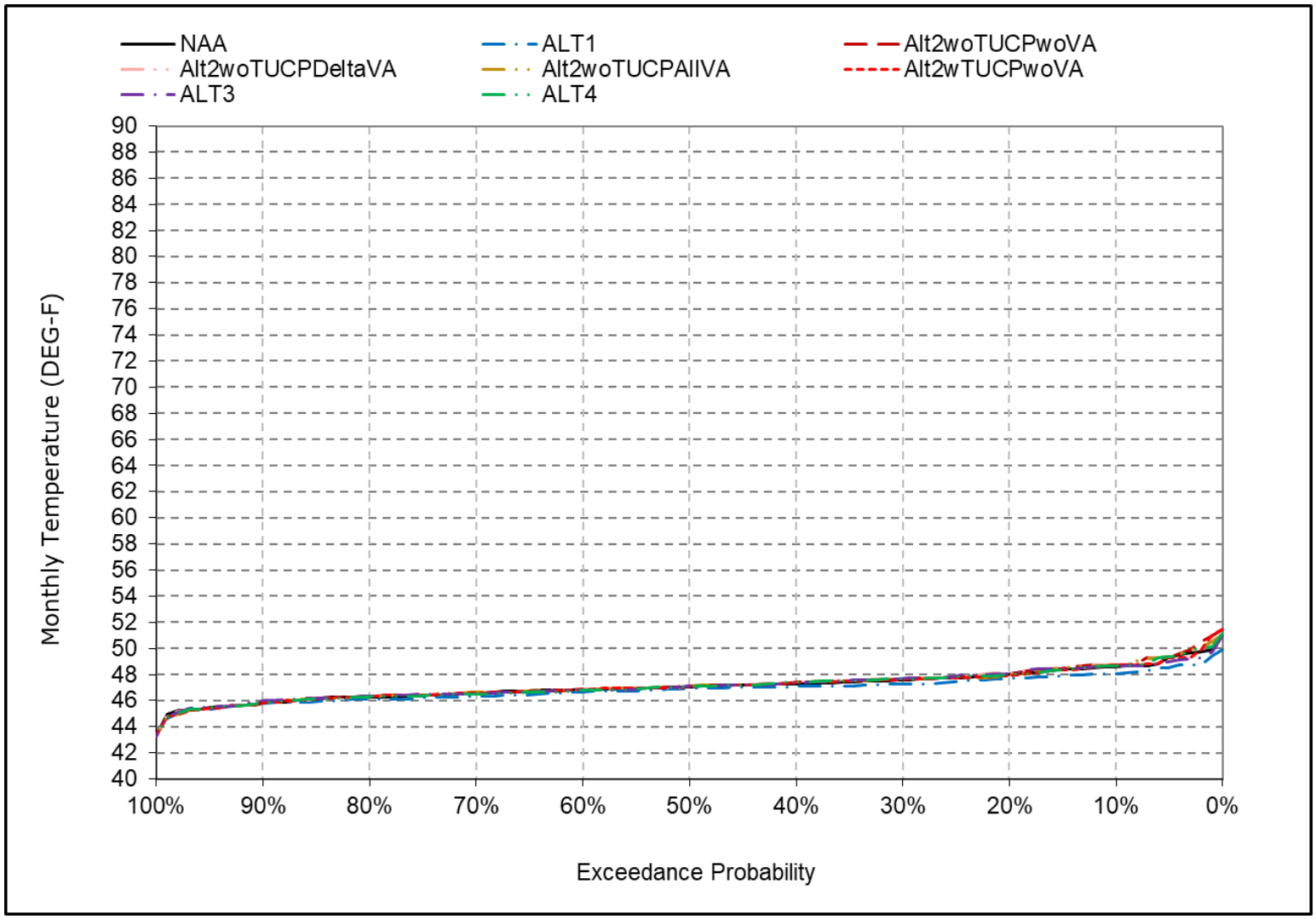
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-7. Clear Creek below Whiskeytown, October



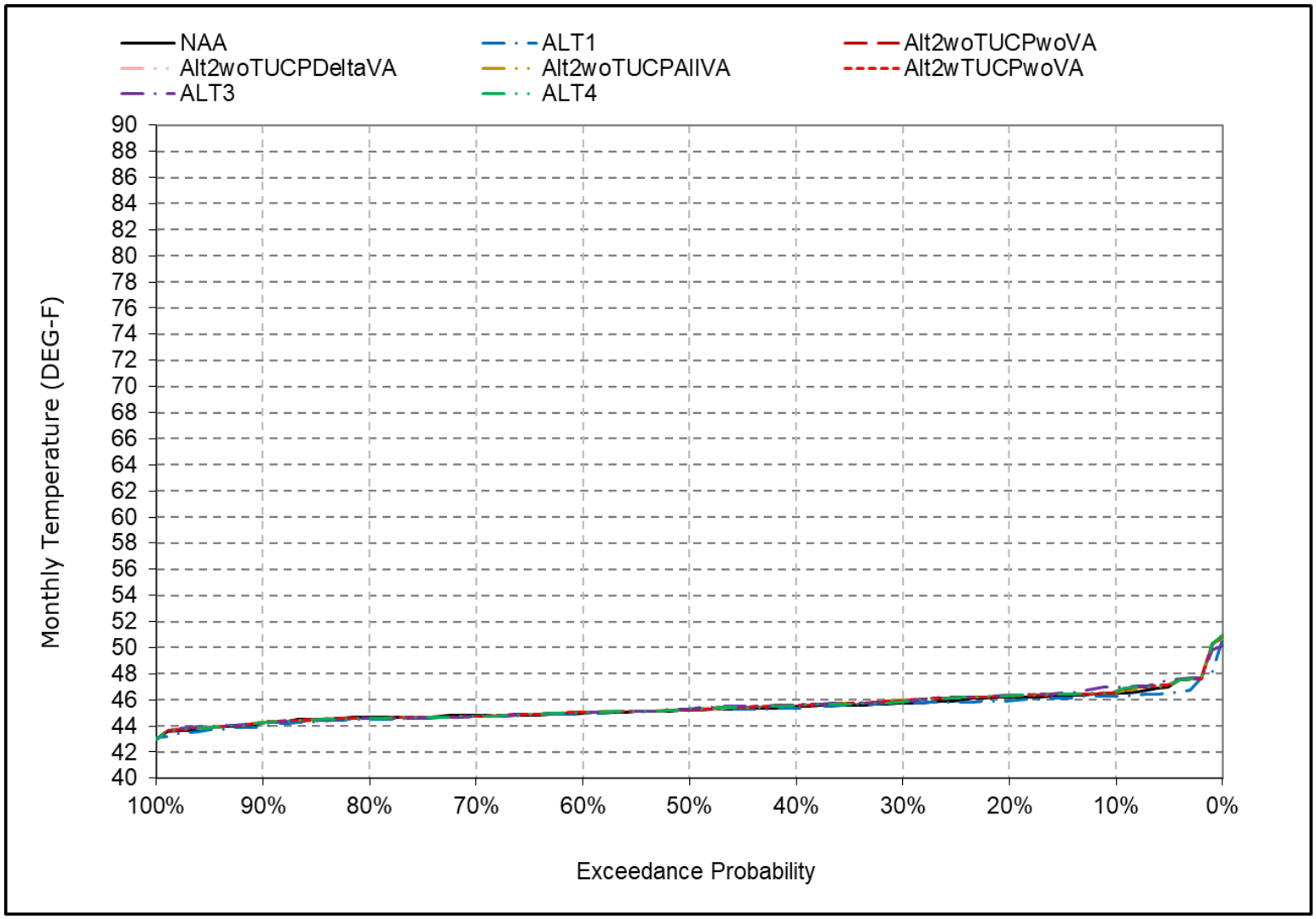
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-8. Clear Creek below Whiskeytown, November



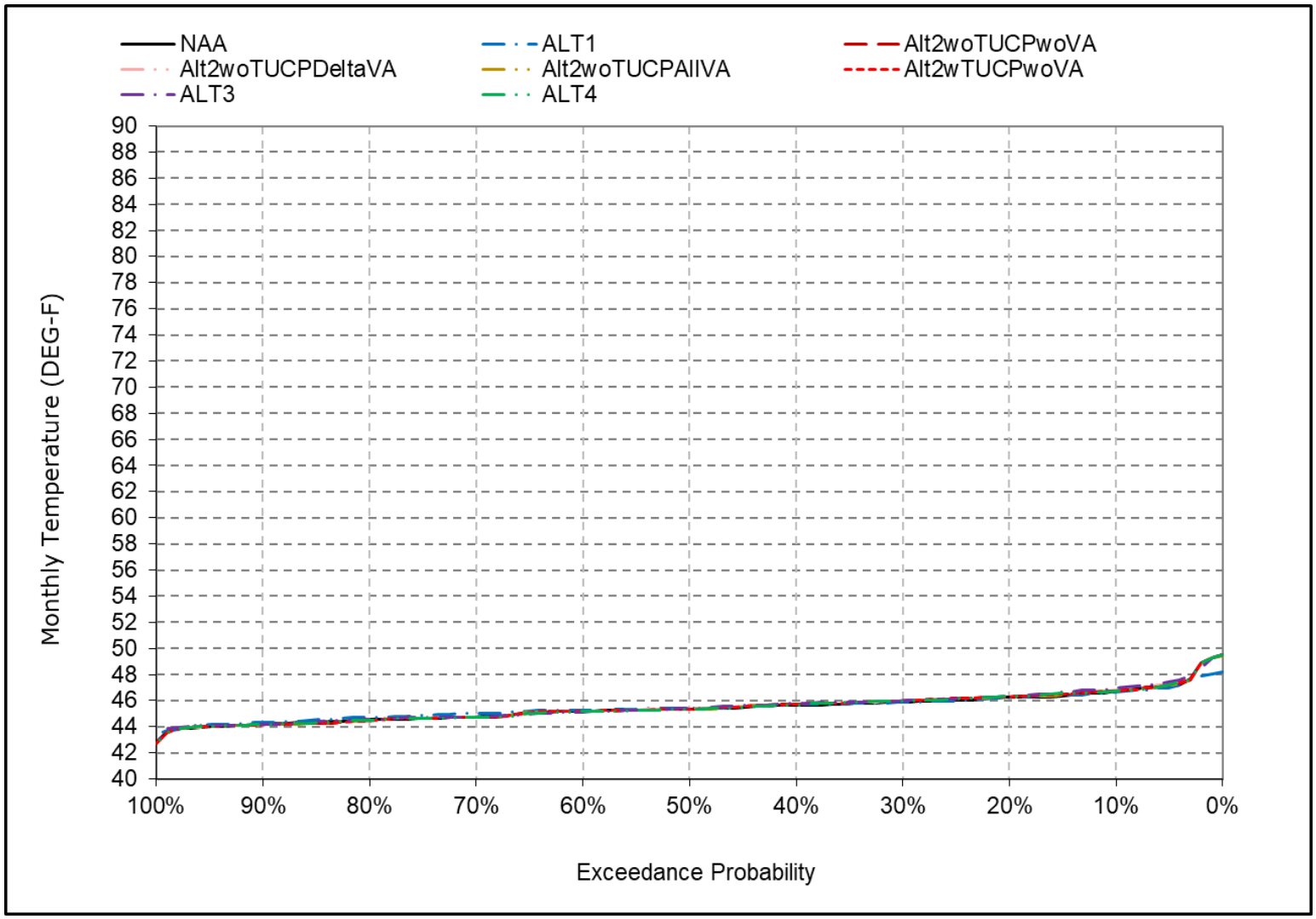
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-9. Clear Creek below Whiskeytown, December



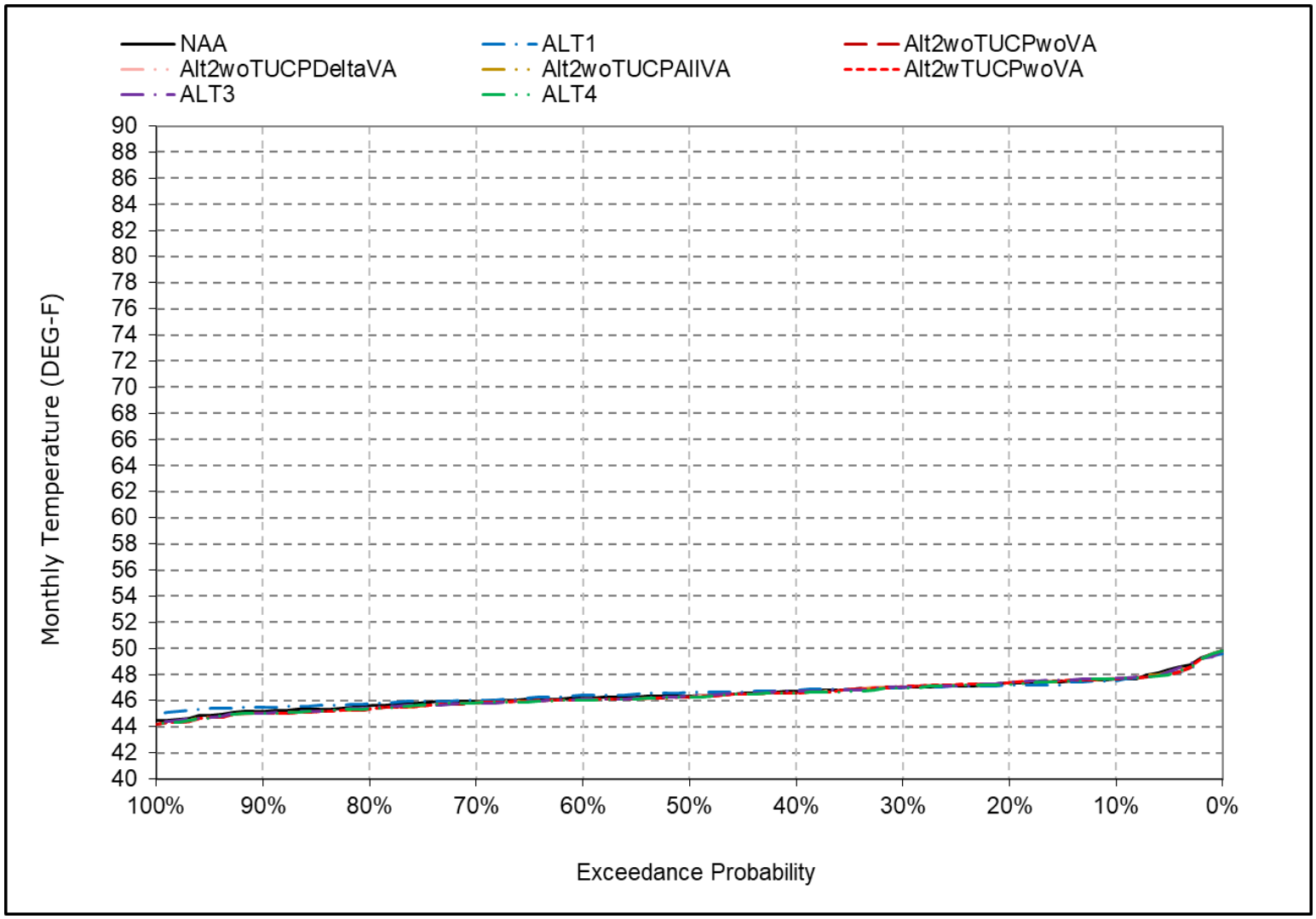
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-10. Clear Creek below Whiskeytown, January



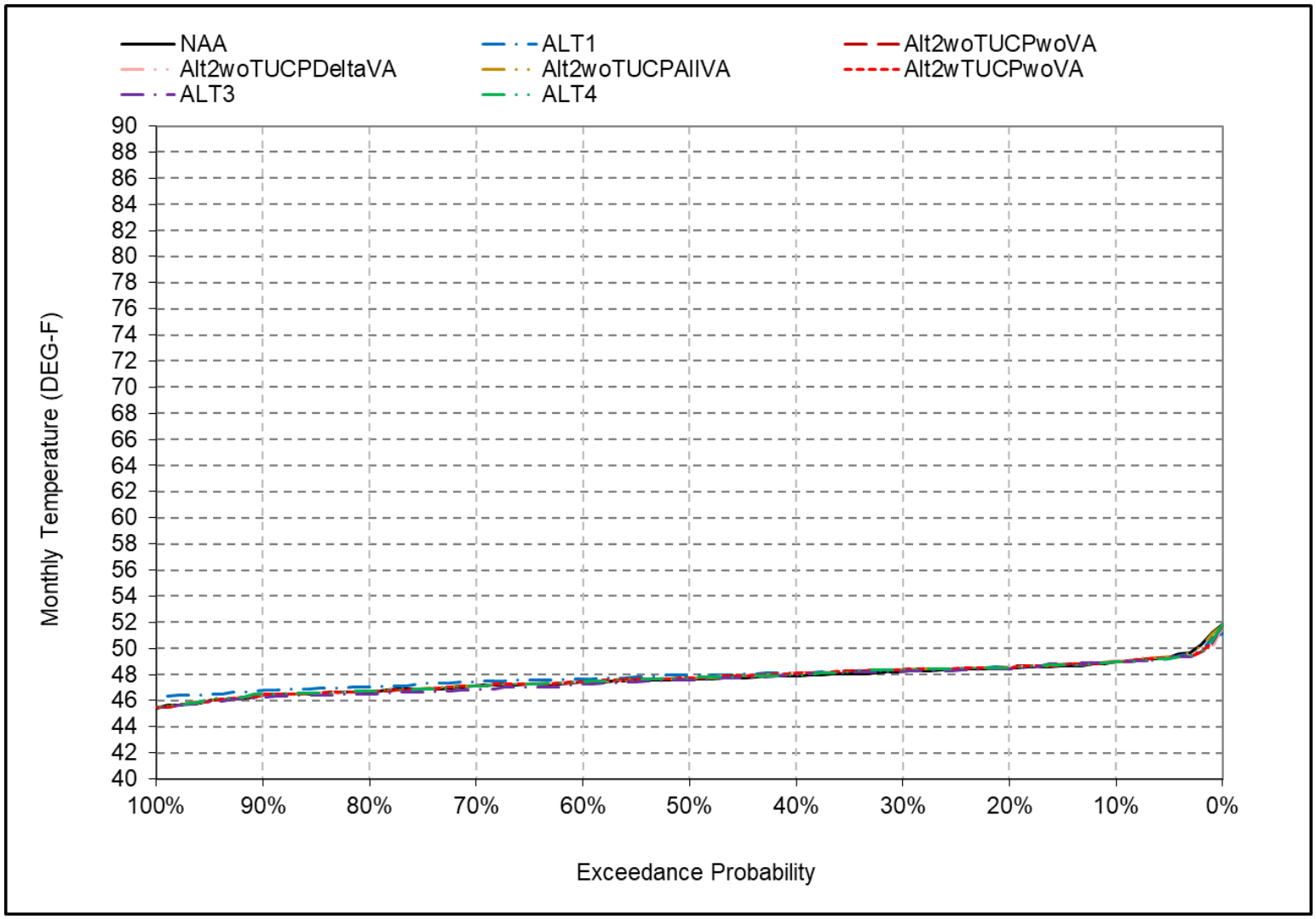
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-11. Clear Creek below Whiskeytown, February



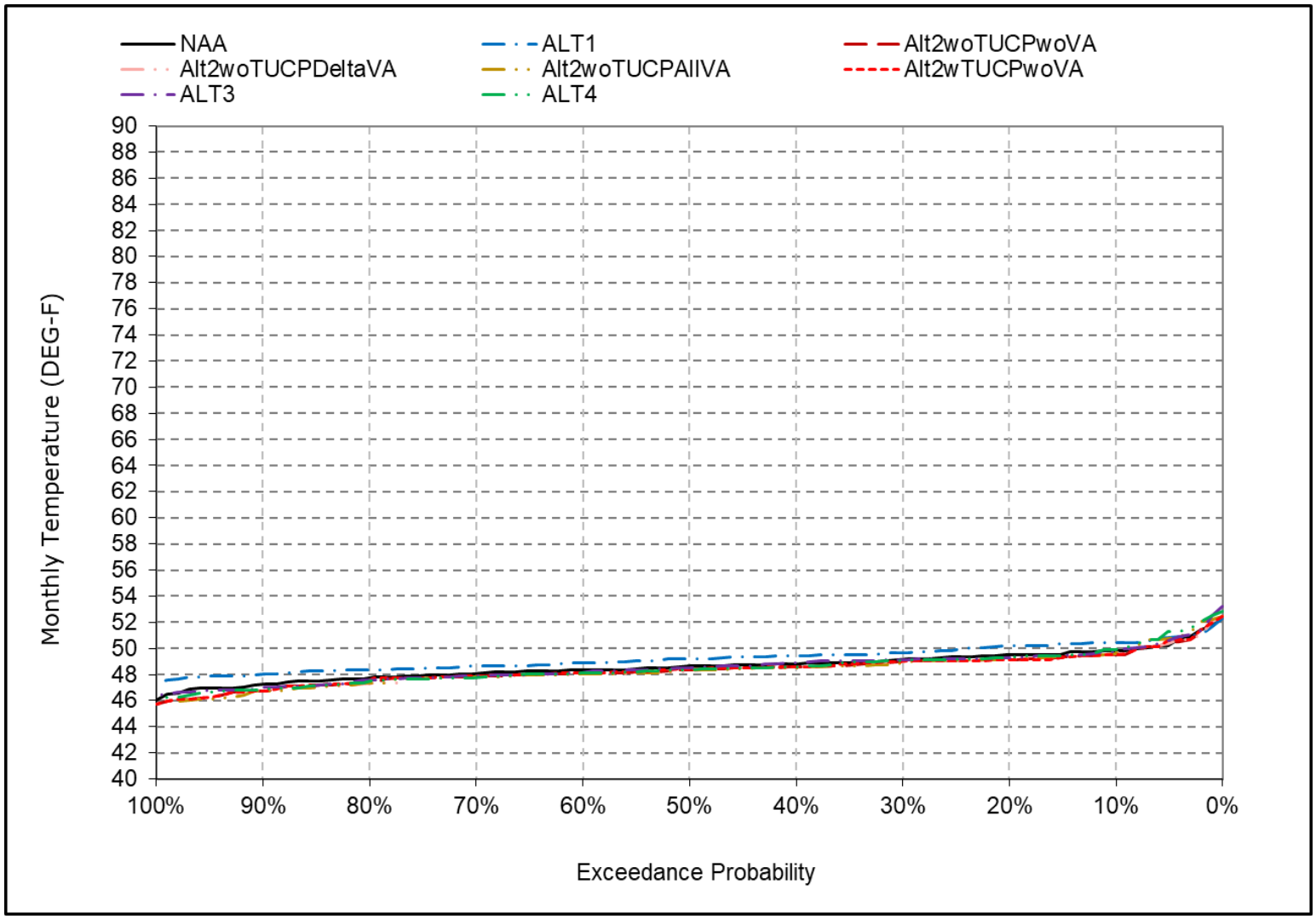
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-12. Clear Creek below Whiskeytown, March



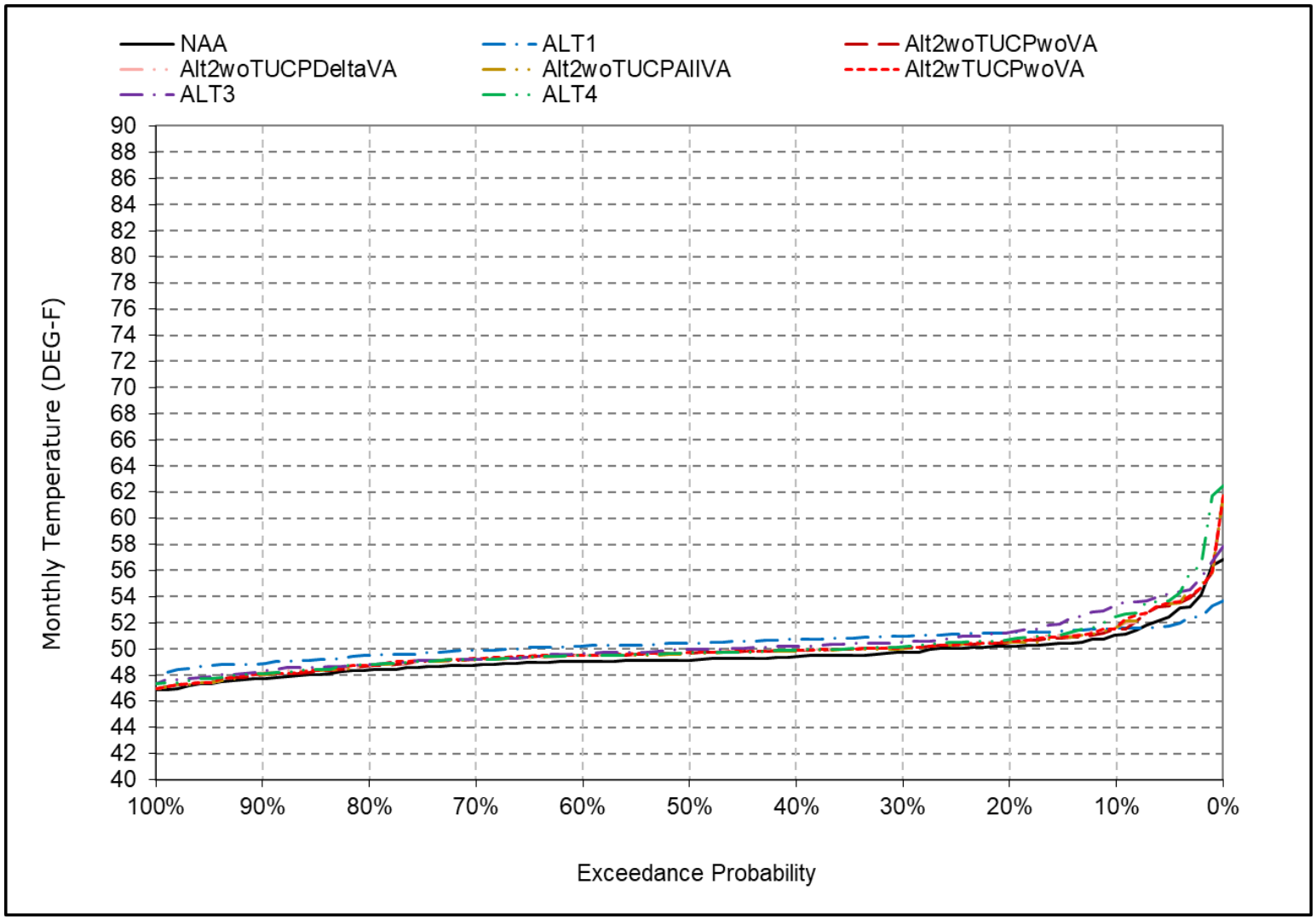
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-13. Clear Creek below Whiskeytown, April



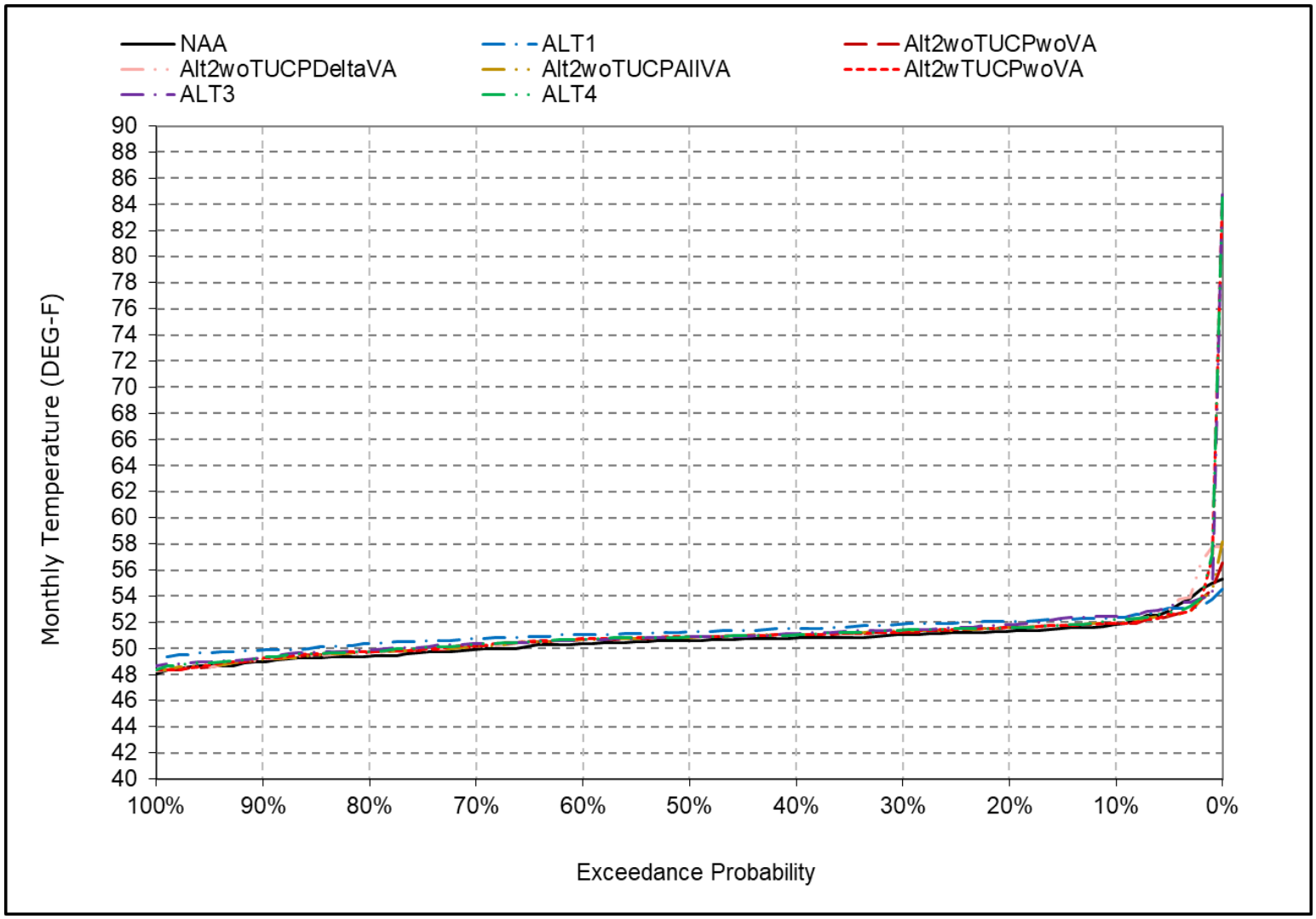
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-14. Clear Creek below Whiskeytown, May



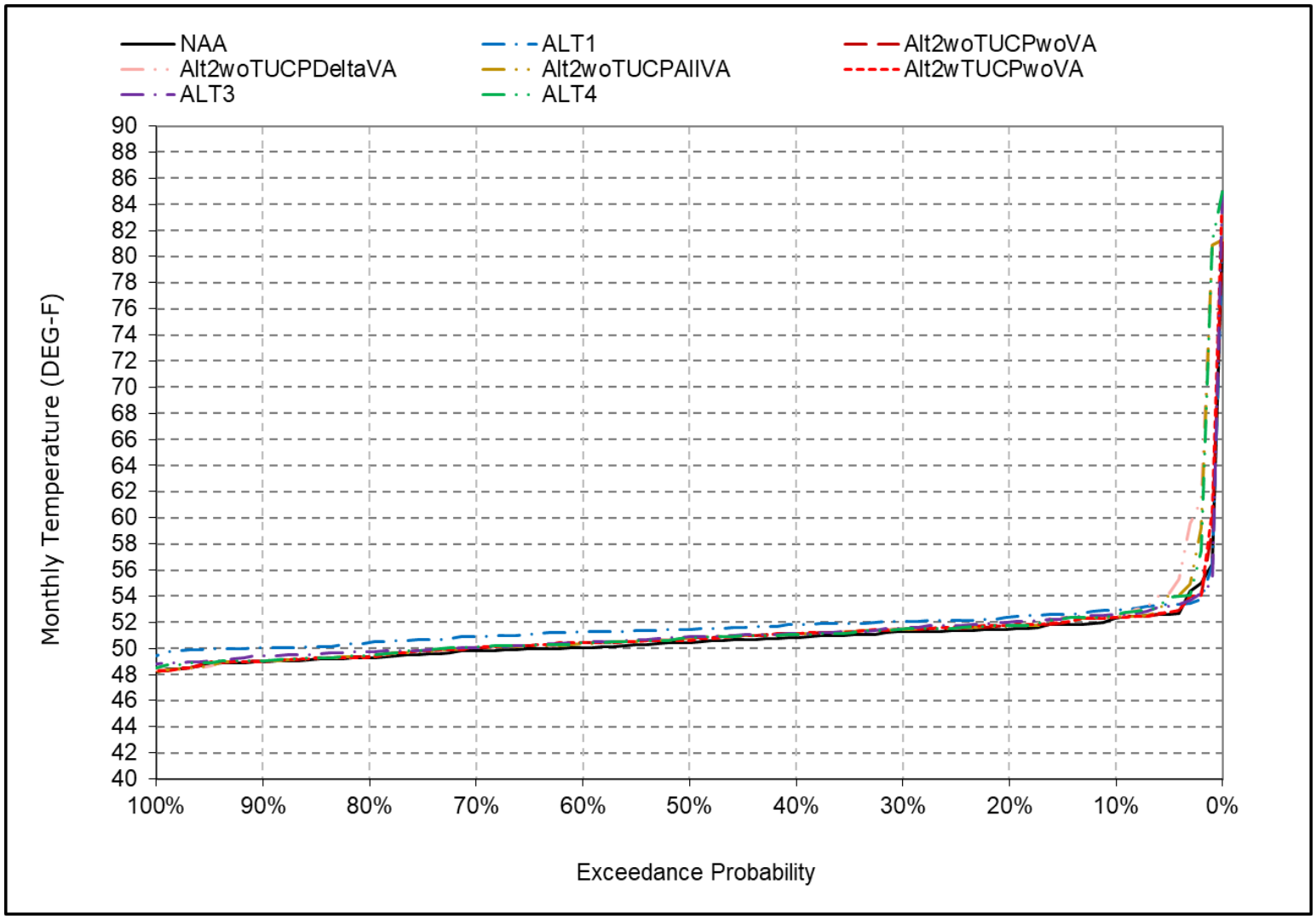
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-15. Clear Creek below Whiskeytown, June



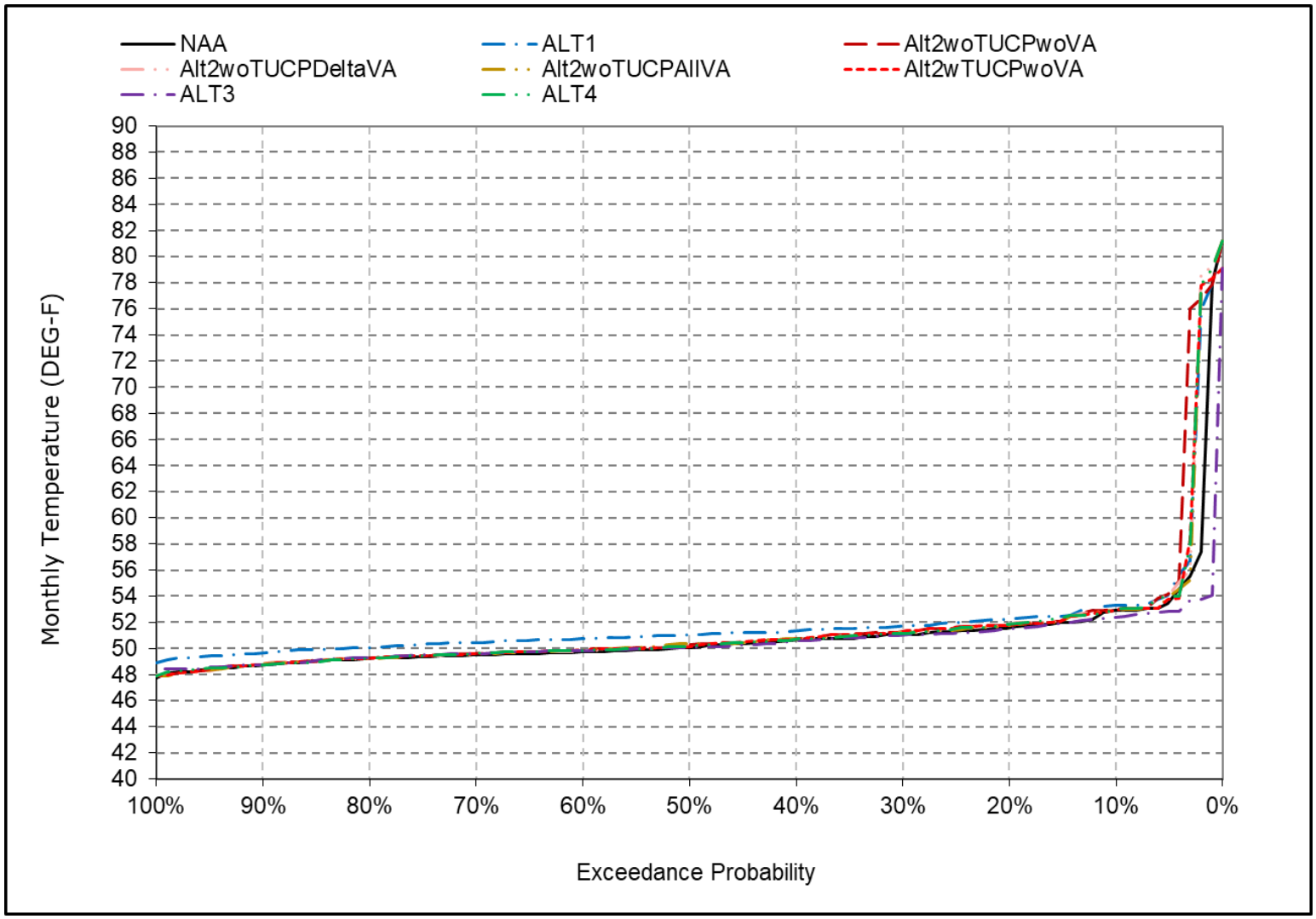
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-16. Clear Creek below Whiskeytown, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-17. Clear Creek below Whiskeytown, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-2-18. Clear Creek below Whiskeytown, September

Table F.2.11-3-1a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-1b. Clear Creek at Igo, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	52	49	47	49	50	53	55	57	58	58	57
20% Exceedance	54	51	48	47	48	50	52	55	57	58	57	56
30% Exceedance	54	51	48	47	48	50	52	55	56	57	57	55
40% Exceedance	53.2	50.5	47.5	46.5	47.5	49.6	51.8	54.2	56.2	57.1	56.4	54.9
50% Exceedance	52.5	50.1	47.3	46.2	47.3	49.4	51.6	53.9	56.0	56.7	55.9	54.5
60% Exceedance	52.3	49.8	47.1	46.0	46.9	49.0	51.4	53.6	55.7	56.5	55.7	54.3
70% Exceedance	52.1	49.3	46.7	45.7	46.7	48.7	51.0	53.3	55.4	56.1	55.4	54.0
80% Exceedance	51.8	48.9	46.4	45.4	46.4	48.4	50.6	53.1	54.7	55.6	55.1	53.7
90% Exceedance	51.4	48.2	46.1	44.9	45.9	48.2	50.3	52.5	54.3	55.3	54.6	53.2
Full Simulation Period Average[a]	53	50	47	46	47	49	52	54	56	57	56	55
Wet Water Years (28%)	52	49	47	46	47	49	51	54	55	56	56	54
Above Normal Years (14%)	52	49	47	46	47	49	51	54	56	56	55	54
Below Normal Years (18%)	53	50	47	46	47	49	52	54	56	57	56	56
Dry Years (24%)	53	51	48	46	47	49	52	54	56	57	56	55
Critical (16%)	58	54	48	47	48	50	52	54	56	58	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-1c. Clear Creek at Igo, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.8	0.0	-0.3	0.4	1.3	1.8	2.5	4.0	5.2	4.0	3.7	2.4
20% Exceedance	2	0	0	1	1	2	3	4	5	4	4	3
30% Exceedance	1.9	-0.2	-0.1	0.6	1.3	1.9	2.7	4.0	5.4	4.0	3.7	2.9
40% Exceedance	2	0	0	1	1	2	3	4	6	4	4	3
50% Exceedance	2	0	0	1	2	2	3	4	6	4	4	3
60% Exceedance	2	0	0	1	1	2	3	4	6	4	4	3
70% Exceedance	2	0	0	1	2	2	3	4	5	4	4	3
80% Exceedance	2	0	0	0	2	2	3	4	5	4	4	3
90% Exceedance	2.3	0.3	0.1	0.4	1.4	2.2	2.9	3.8	5.4	4.1	3.9	3.0
Full Simulation Period Average[a]	2.4	0.1	-0.1	0.5	1.4	1.9	2.7	3.9	5.3	4.0	3.7	3.1
Wet Water Years (28%)	2.3	0.3	0.1	0.8	1.8	2.2	2.9	4.1	5.0	4.0	3.7	2.9
Above Normal Years (14%)	2.3	0.2	0.0	0.8	1.8	2.3	3.0	4.0	5.4	3.7	3.8	3.2
Below Normal Years (18%)	2.1	-0.2	-0.3	0.6	1.4	1.9	2.7	3.8	5.5	4.0	3.9	2.8
Dry Years (24%)	1.9	-0.1	-0.2	0.3	1.0	1.7	2.7	4.0	5.7	4.2	3.8	2.7
Critical (16%)	4	0	0	0	1	2	2	3	5	4	4	4

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-2a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-2b. Clear Creek at Igo, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	48	50	51	53	55	55	54
20% Exceedance	52	51	48	47	47	48	50	50	52	54	54	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.3	50.7	47.5	45.8	46.1	47.2	49.0	49.8	51.5	53.8	53.4	52.2
50% Exceedance	50.7	50.2	47.3	45.5	45.8	47.0	48.8	49.5	51.3	53.6	53.0	51.7
60% Exceedance	50.4	49.6	47.0	45.3	45.6	46.7	48.4	49.1	51.0	53.3	52.6	51.4
70% Exceedance	50.0	49.2	46.7	45.0	45.1	46.4	48.0	49.0	50.7	52.7	52.2	51.1
80% Exceedance	49.5	48.5	46.5	44.8	44.9	46.0	47.8	48.6	50.1	52.5	51.8	50.8
90% Exceedance	49.3	48.1	46.0	44.6	44.5	45.6	47.2	48.1	49.5	52.0	51.4	50.5
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	52	54	53	53
Wet Water Years (28%)	50	49	47	45	45	46	48	49	51	53	53	51
Above Normal Years (14%)	50	49	47	46	45	46	48	49	51	53	52	51
Below Normal Years (18%)	51	51	48	45	46	47	49	49	51	54	53	54
Dry Years (24%)	52	51	48	46	46	48	49	50	51	54	53	52
Critical (16%)	55	53	48	47	47	48	50	51	53	53	56	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-2c. Clear Creek at Igo, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	-0.2	0.0	0.1	0.0	0.0	-0.1	-0.7	1.3	0.5	0.6	0.2
20% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
30% Exceedance	0.2	0.0	0.0	0.1	-0.1	-0.1	0.0	-0.5	0.9	0.8	0.7	0.5
40% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
70% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
90% Exceedance	0.2	0.2	0.0	0.0	0.0	-0.4	-0.1	-0.7	0.6	0.7	0.6	0.2
Full Simulation Period Average[a]	0.3	-0.1	0.0	0.0	0.0	-0.3	-0.1	-0.6	0.9	0.8	0.6	0.7
Wet Water Years (28%)	0.2	0.0	0.0	-0.1	0.1	-0.4	-0.1	-0.5	1.1	1.1	0.8	0.2
Above Normal Years (14%)	0.2	0.0	-0.1	0.0	0.0	-0.4	-0.1	-0.8	0.9	0.5	0.6	0.2
Below Normal Years (18%)	0.3	0.0	0.1	0.0	0.0	-0.3	-0.1	-0.8	0.7	1.0	0.6	1.6
Dry Years (24%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	-0.5	0.9	1.1	0.7	0.2
Critical (16%)	1	0	0	0	0	0	0	-1	1	0	0	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-3a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-3b. Clear Creek at Igo, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	49	50	51	54	55	55	54
20% Exceedance	52	51	48	47	47	48	50	50	52	54	54	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.3	50.6	47.6	45.8	46.1	47.3	49.0	49.7	51.5	53.9	53.3	52.3
50% Exceedance	50.7	50.1	47.3	45.5	45.8	47.0	48.8	49.4	51.3	53.6	53.0	51.7
60% Exceedance	50.4	49.6	47.1	45.3	45.6	46.7	48.4	49.1	51.0	53.3	52.7	51.4
70% Exceedance	50.0	49.2	46.8	45.0	45.1	46.4	48.1	48.9	50.7	52.8	52.2	51.1
80% Exceedance	49.6	48.5	46.5	44.8	44.9	46.0	47.8	48.4	50.1	52.4	51.9	50.8
90% Exceedance	49.2	48.1	46.0	44.6	44.5	45.7	47.3	48.0	49.7	52.0	51.4	50.5
Full Simulation Period Average[a]	51	50	47	46	46	47	49	49	52	54	54	53
Wet Water Years (28%)	50	49	47	45	45	46	48	49	51	54	53	51
Above Normal Years (14%)	50	49	47	46	45	47	48	49	51	53	52	51
Below Normal Years (18%)	51	51	48	45	46	47	49	49	51	54	53	53
Dry Years (24%)	52	51	48	46	46	48	49	50	52	54	53	52
Critical (16%)	55	53	48	47	47	48	50	51	53	54	57	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-3c. Clear Creek at Igo, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.1	0.1	0.1	0.0	0.0	-0.1	-0.5	1.4	0.8	0.8	0.2
20% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
30% Exceedance	0.2	-0.1	0.1	0.2	0.0	-0.1	0.0	-0.5	0.9	0.9	0.7	0.2
40% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
70% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
90% Exceedance	0.2	0.2	0.0	0.0	0.0	-0.3	-0.1	-0.7	0.8	0.8	0.6	0.2
Full Simulation Period Average[a]	0.3	-0.1	0.0	0.0	0.0	-0.2	-0.1	-0.7	0.9	0.9	1.0	0.5
Wet Water Years (28%)	0.2	0.0	0.0	-0.1	0.1	-0.3	-0.1	-0.6	1.2	1.4	1.0	0.3
Above Normal Years (14%)	0.2	0.0	-0.1	0.0	0.1	-0.4	-0.1	-0.9	0.7	0.5	0.5	0.2
Below Normal Years (18%)	0.3	0.0	0.1	0.1	0.1	-0.3	-0.1	-0.8	0.7	1.2	1.1	0.2
Dry Years (24%)	0.2	0.0	0.1	0.1	0.0	-0.1	0.0	-0.4	1.0	1.2	0.7	0.2
Critical (16%)	1	0	0	0	0	0	0	-1	1	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-4a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-4b. Clear Creek at Igo, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	49	50	51	53	55	55	54
20% Exceedance	52	51	48	47	47	48	50	50	52	54	54	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.3	50.6	47.5	45.8	46.1	47.3	49.0	49.7	51.5	53.9	53.3	52.2
50% Exceedance	50.6	49.9	47.3	45.5	45.9	47.0	48.8	49.5	51.3	53.6	53.0	51.8
60% Exceedance	50.4	49.6	47.1	45.3	45.6	46.7	48.4	49.1	51.0	53.3	52.6	51.4
70% Exceedance	49.9	49.2	46.8	44.9	45.1	46.4	48.1	48.9	50.7	52.8	52.1	51.1
80% Exceedance	49.6	48.5	46.5	44.8	44.9	46.0	47.7	48.5	50.3	52.5	51.8	50.8
90% Exceedance	49.2	48.1	46.0	44.6	44.5	45.7	47.3	47.9	49.6	52.0	51.4	50.4
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	52	54	54	53
Wet Water Years (28%)	50	49	47	45	45	46	48	49	51	53	53	51
Above Normal Years (14%)	50	49	47	46	45	46	48	49	51	53	52	51
Below Normal Years (18%)	51	50	48	45	46	47	49	49	51	54	53	53
Dry Years (24%)	52	51	48	46	46	47	49	50	51	54	53	52
Critical (16%)	55	53	48	47	47	49	50	51	53	54	57	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-4c. Clear Creek at Igo, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.0	0.1	0.0	0.0	0.0	-0.1	-0.4	1.2	0.7	0.7	0.1
20% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
30% Exceedance	0.2	-0.1	0.0	0.1	0.0	-0.2	0.0	-0.6	0.8	0.9	0.6	0.4
40% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
70% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
90% Exceedance	0.2	0.2	0.0	0.0	0.0	-0.3	-0.1	-0.8	0.6	0.8	0.6	0.2
Full Simulation Period Average[a]	0.3	-0.1	0.0	0.0	0.0	-0.3	-0.1	-0.6	0.9	0.8	0.9	0.4
Wet Water Years (28%)	0.2	0.0	0.0	-0.1	0.1	-0.4	-0.1	-0.5	1.2	1.2	0.8	0.1
Above Normal Years (14%)	0.3	0.1	0.0	-0.1	0.0	-0.4	-0.1	-0.9	0.6	0.5	0.5	0.2
Below Normal Years (18%)	0.3	-0.1	0.0	0.1	0.1	-0.3	-0.1	-1.0	0.5	1.0	0.6	0.2
Dry Years (24%)	0.1	0.0	0.1	0.0	0.0	-0.2	-0.1	-0.5	0.9	1.1	0.8	0.2
Critical (16%)	1	0	0	0	0	0	0	-1	1	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-5a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-5b. Clear Creek at Igo, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	48	50	51	54	55	54	54
20% Exceedance	52	51	48	47	47	48	50	50	52	54	54	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.2	50.6	47.5	45.8	46.1	47.3	49.0	49.8	51.6	53.9	53.4	52.2
50% Exceedance	50.7	50.0	47.3	45.5	45.8	47.0	48.8	49.5	51.4	53.6	53.0	51.7
60% Exceedance	50.4	49.6	47.1	45.3	45.6	46.7	48.4	49.2	51.0	53.3	52.7	51.4
70% Exceedance	50.0	49.1	46.7	45.0	45.1	46.5	48.0	49.0	50.8	52.8	52.2	51.1
80% Exceedance	49.5	48.5	46.5	44.8	44.9	46.0	47.8	48.7	50.1	52.5	51.8	50.8
90% Exceedance	49.2	48.1	46.0	44.6	44.5	45.6	47.3	48.1	49.5	52.1	51.4	50.5
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	52	54	53	53
Wet Water Years (28%)	50	49	47	45	45	46	48	49	51	53	53	51
Above Normal Years (14%)	50	49	47	46	45	46	48	49	51	53	52	51
Below Normal Years (18%)	51	50	47	45	46	47	49	49	51	54	53	53
Dry Years (24%)	52	51	48	46	46	48	49	50	51	54	53	52
Critical (16%)	55	53	48	47	47	48	50	51	53	56	56	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-5c. Clear Creek at Igo, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.0	0.0	0.1	0.0	0.0	-0.1	-0.7	1.8	0.5	0.5	0.1
20% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
30% Exceedance	0.2	0.0	0.0	0.1	0.0	-0.1	0.0	-0.5	0.9	1.0	0.6	0.5
40% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
70% Exceedance	0	0	0	0	0	0	0	0	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	0	1	1	1	0
90% Exceedance	0.2	0.3	0.0	0.0	0.0	-0.4	-0.1	-0.7	0.6	0.9	0.6	0.2
Full Simulation Period Average[a]	0.3	-0.1	0.0	0.0	0.0	-0.3	-0.1	-0.6	1.0	1.1	0.7	0.4
Wet Water Years (28%)	0.2	0.0	0.0	-0.1	0.1	-0.4	-0.1	-0.5	1.0	1.1	0.9	0.3
Above Normal Years (14%)	0.2	0.0	-0.1	0.0	0.0	-0.4	-0.1	-0.8	0.9	0.5	0.5	0.2
Below Normal Years (18%)	0.2	-0.2	-0.2	0.0	0.1	-0.3	-0.1	-0.8	0.7	0.9	0.6	0.2
Dry Years (24%)	0.2	0.0	0.1	0.0	0.0	-0.2	0.0	-0.5	0.9	1.1	0.7	0.2
Critical (16%)	1	0	0	0	0	0	0	-1	1	2	0	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-6a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-6b. Clear Creek at Igo, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	48	50	51	55	56	55	54
20% Exceedance	52	51	48	47	47	48	50	51	53	55	55	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.2	50.3	47.5	45.8	46.2	47.3	48.9	50.0	51.8	53.9	53.7	52.2
50% Exceedance	50.6	49.7	47.2	45.6	45.9	47.0	48.5	49.6	51.4	53.6	53.4	51.8
60% Exceedance	50.4	49.4	47.0	45.2	45.6	46.7	48.1	49.2	51.2	53.4	53.0	51.6
70% Exceedance	49.9	49.2	46.7	45.0	45.1	46.4	47.7	49.0	50.7	52.9	52.6	51.3
80% Exceedance	49.7	48.8	46.5	44.8	45.0	46.1	47.5	48.5	50.3	52.7	52.3	51.0
90% Exceedance	49.4	48.4	46.2	44.4	44.5	45.6	47.2	48.1	49.8	52.1	51.9	50.6
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	52	54	54	52
Wet Water Years (28%)	50	49	47	45	45	46	48	49	52	53	53	51
Above Normal Years (14%)	50	49	47	46	45	46	48	49	52	53	53	51
Below Normal Years (18%)	51	50	47	45	46	47	48	50	51	54	53	52
Dry Years (24%)	52	51	48	46	46	48	49	50	52	54	54	52
Critical (16%)	55	53	48	47	47	48	50	51	54	56	57	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-6c. Clear Creek at Igo, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.1	-0.1	0.3	0.1	0.0	-0.2	-0.5	2.6	1.3	1.3	0.0
20% Exceedance	0	0	0	0	0	0	0	-1	2	1	1	0
30% Exceedance	0.1	-0.4	0.1	0.1	-0.1	-0.2	-0.2	-0.3	1.3	0.9	1.0	0.3
40% Exceedance	0	0	0	0	0	0	0	0	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	0	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	1
70% Exceedance	0	0	0	0	0	0	-1	0	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
90% Exceedance	0.3	0.5	0.2	-0.2	0.0	-0.3	-0.1	-0.6	0.8	0.9	1.2	0.3
Full Simulation Period Average[a]	0.2	-0.1	0.0	0.0	0.1	-0.2	-0.2	-0.5	1.3	1.2	1.1	0.0
Wet Water Years (28%)	0.4	0.3	0.2	-0.1	0.1	-0.3	-0.3	-0.5	1.5	1.1	1.2	0.2
Above Normal Years (14%)	0.3	0.0	0.0	-0.1	0.0	-0.4	-0.3	-0.7	1.1	0.3	1.1	0.5
Below Normal Years (18%)	-0.2	-0.7	-0.4	0.1	0.2	-0.3	-0.3	-0.5	0.9	1.1	1.0	-1.2
Dry Years (24%)	0.1	-0.1	0.0	0.1	0.0	-0.1	-0.2	-0.3	1.1	1.1	1.1	0.3
Critical (16%)	1	-1	0	0	0	0	0	-1	2	3	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-7a. Clear Creek at Igo, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53.0	52.0	48.8	46.8	47.2	48.5	50.2	51.4	52.2	54.3	54.0	54.1
20% Exceedance	52.3	51.5	48.3	46.5	46.7	48.1	49.7	51.1	51.5	53.5	53.4	52.9
30% Exceedance	51.6	51.0	47.8	46.1	46.4	47.8	49.4	50.6	51.1	53.2	53.0	52.3
40% Exceedance	51.1	50.6	47.5	45.7	46.0	47.5	49.1	50.4	50.5	52.9	52.6	51.9
50% Exceedance	50	50	47	46	46	47	49	50	50	53	52	52
60% Exceedance	50	50	47	45	46	47	48	50	50	52	52	51
70% Exceedance	50	49	47	45	45	47	48	50	50	52	52	51
80% Exceedance	49	49	46	45	45	46	48	49	49	51	51	51
90% Exceedance	49	48	46	45	45	46	47	49	49	51	51	50
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	51	53	53	52
Wet Water Years (28%)	49	49	47	45	45	47	48	50	50	52	52	51
Above Normal Years (14%)	50	49	47	46	45	47	48	50	51	53	52	51
Below Normal Years (18%)	51	51	48	45	45	47	49	50	51	53	52	53
Dry Years (24%)	51.5	50.8	47.9	45.8	46.3	47.7	49.3	50.2	50.5	52.7	52.6	52.2
Critical (16%)	54	53	48	47	47	49	50	51	52	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-7b. Clear Creek at Igo, Alternative 4, Monthly Temperature (°F)

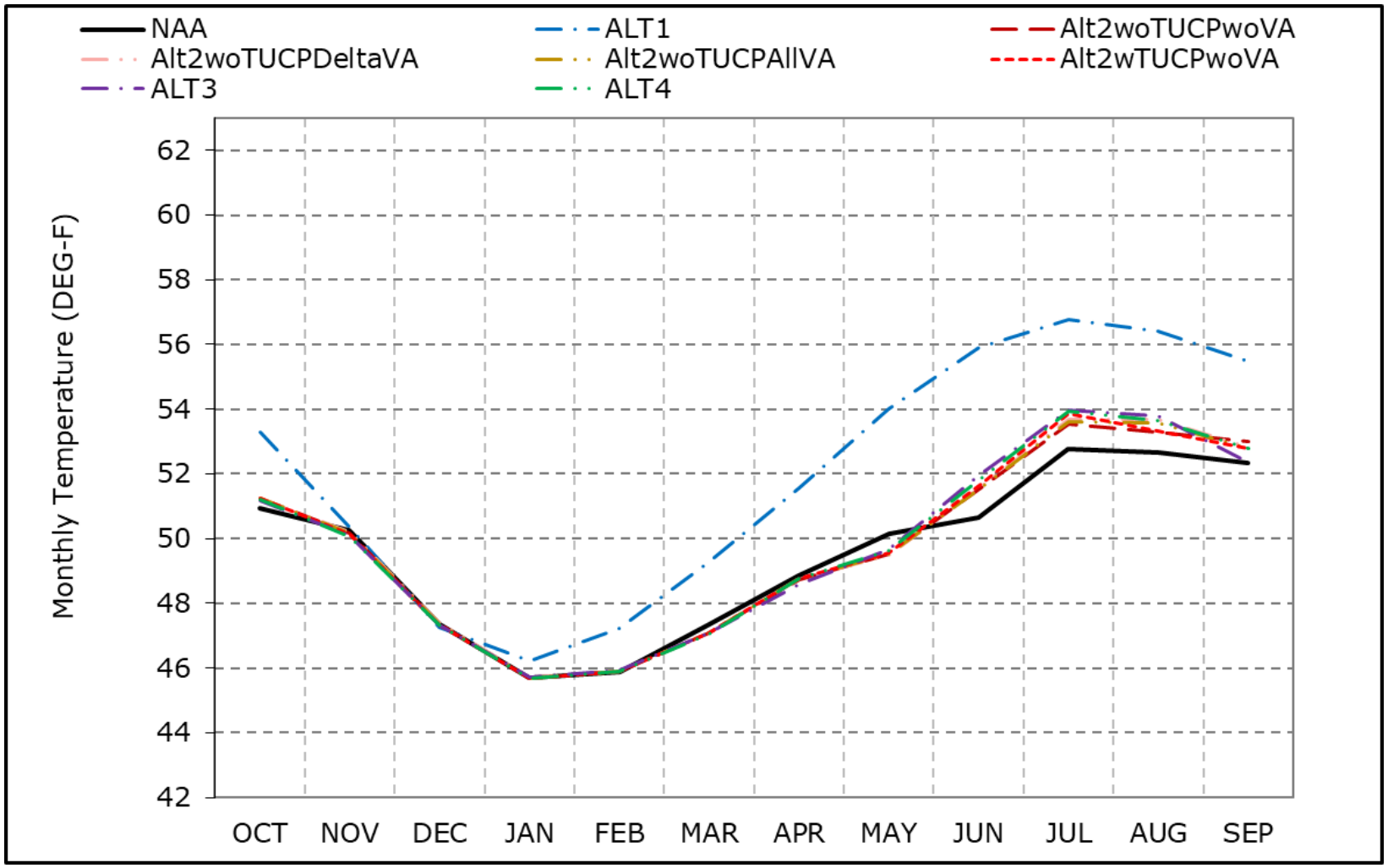
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	52	49	47	47	48	50	51	54	55	55	54
20% Exceedance	52	51	48	47	47	48	50	51	53	54	54	53
30% Exceedance	52	51	48	46	46	48	49	50	52	54	54	53
40% Exceedance	51.2	50.4	47.5	45.8	46.1	47.3	49.0	49.8	51.5	53.9	53.3	52.1
50% Exceedance	50.6	49.8	47.3	45.5	45.8	47.0	48.7	49.5	51.3	53.6	53.0	51.7
60% Exceedance	50.4	49.6	46.9	45.3	45.6	46.7	48.4	49.2	51.0	53.3	52.6	51.4
70% Exceedance	50.1	49.0	46.7	45.0	45.1	46.4	48.0	49.0	50.8	52.9	52.3	51.2
80% Exceedance	49.6	48.5	46.5	44.8	45.0	46.0	47.7	48.6	50.1	52.5	51.9	50.8
90% Exceedance	49.2	47.9	46.0	44.6	44.6	45.7	47.4	48.0	49.6	52.2	51.4	50.3
Full Simulation Period Average[a]	51	50	47	46	46	47	49	50	52	54	54	53
Wet Water Years (28%)	50	49	47	45	45	46	48	49	52	54	53	51
Above Normal Years (14%)	50	49	47	46	45	46	48	49	51	53	52	51
Below Normal Years (18%)	51	50	48	45	46	47	49	49	51	54	53	53
Dry Years (24%)	52	51	48	46	46	47	49	50	51	54	53	52
Critical (16%)	55	53	48	47	47	48	50	51	53	56	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-3-7c. Clear Creek at Igo, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

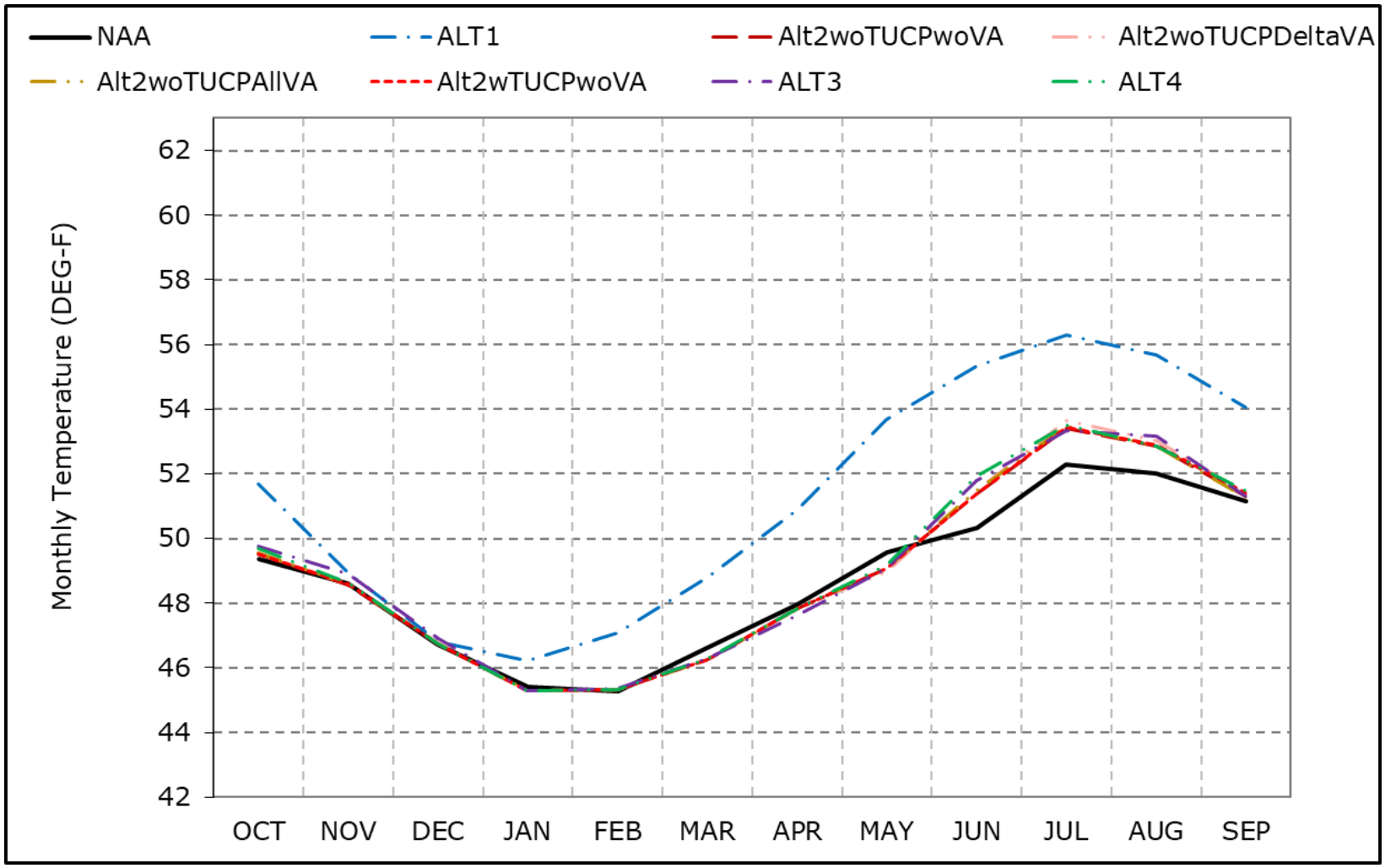
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	-0.1	0.0	0.1	-0.1	-0.1	-0.1	-0.3	2.1	0.6	0.7	0.1
20% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
30% Exceedance	0.2	-0.2	0.1	0.1	0.0	-0.2	-0.1	-0.4	1.0	0.9	0.6	0.3
40% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
50% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
60% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
70% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
80% Exceedance	0	0	0	0	0	0	0	-1	1	1	1	0
90% Exceedance	0.1	0.0	0.0	0.0	0.0	-0.3	0.1	-0.8	0.7	1.0	0.6	0.1
Full Simulation Period Average[a]	0.3	-0.2	0.0	0.0	0.0	-0.3	-0.1	-0.5	1.2	1.2	1.0	0.5
Wet Water Years (28%)	0.4	0.0	0.0	-0.1	0.1	-0.3	-0.1	-0.4	1.6	1.2	0.9	0.3
Above Normal Years (14%)	0.2	-0.1	-0.1	-0.1	0.0	-0.4	-0.1	-0.9	0.7	0.5	0.6	0.2
Below Normal Years (18%)	0.0	-0.4	-0.1	0.1	0.0	-0.3	-0.1	-0.6	0.8	1.0	0.6	0.2
Dry Years (24%)	0.1	-0.1	0.1	0.1	0.0	-0.2	-0.1	-0.4	1.0	1.1	0.7	0.1
Critical (16%)	1	-1	0	0	0	0	0	-1	2	2	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



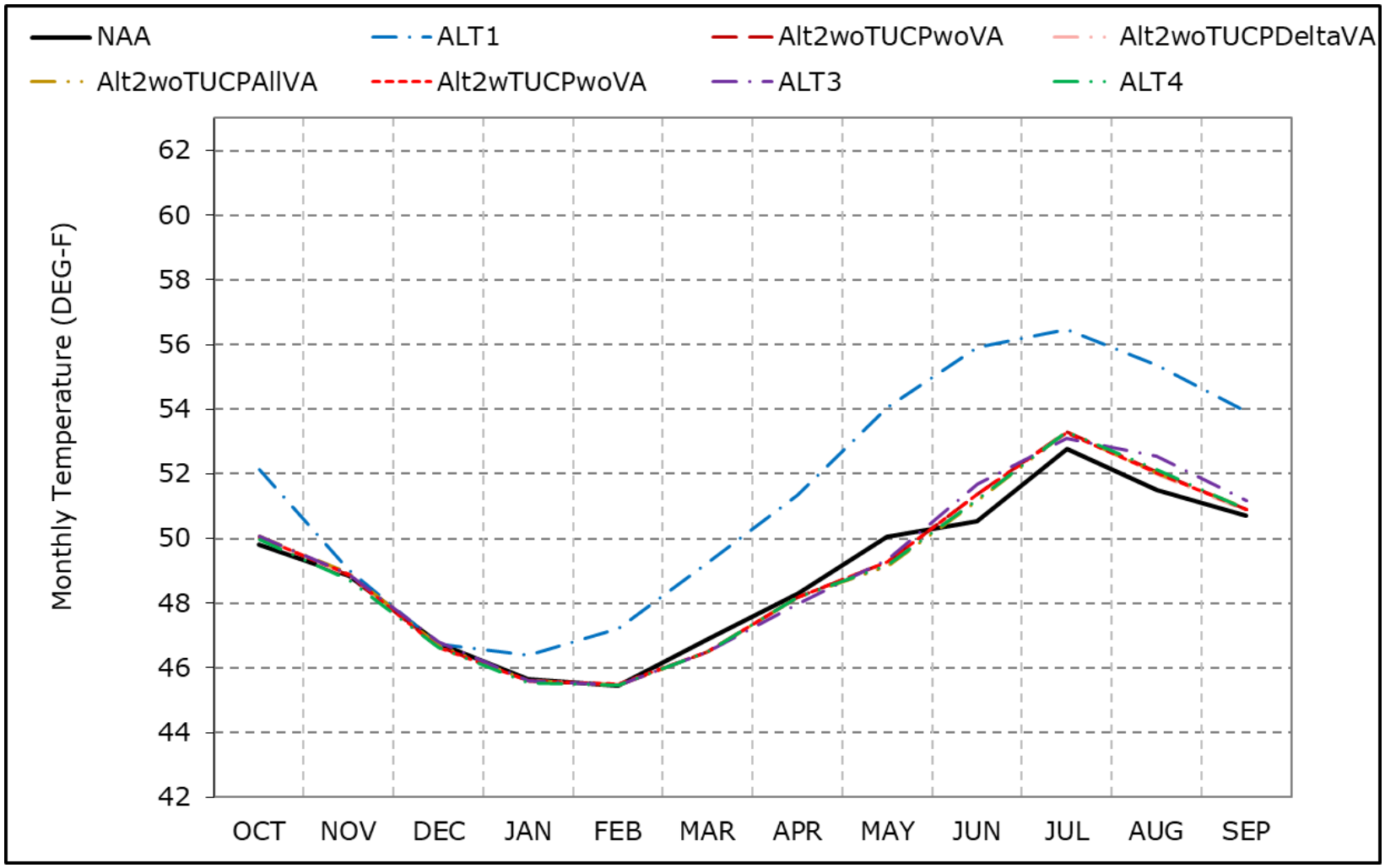
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-1. Clear Creek at Igo, Long-Term Average Temperature



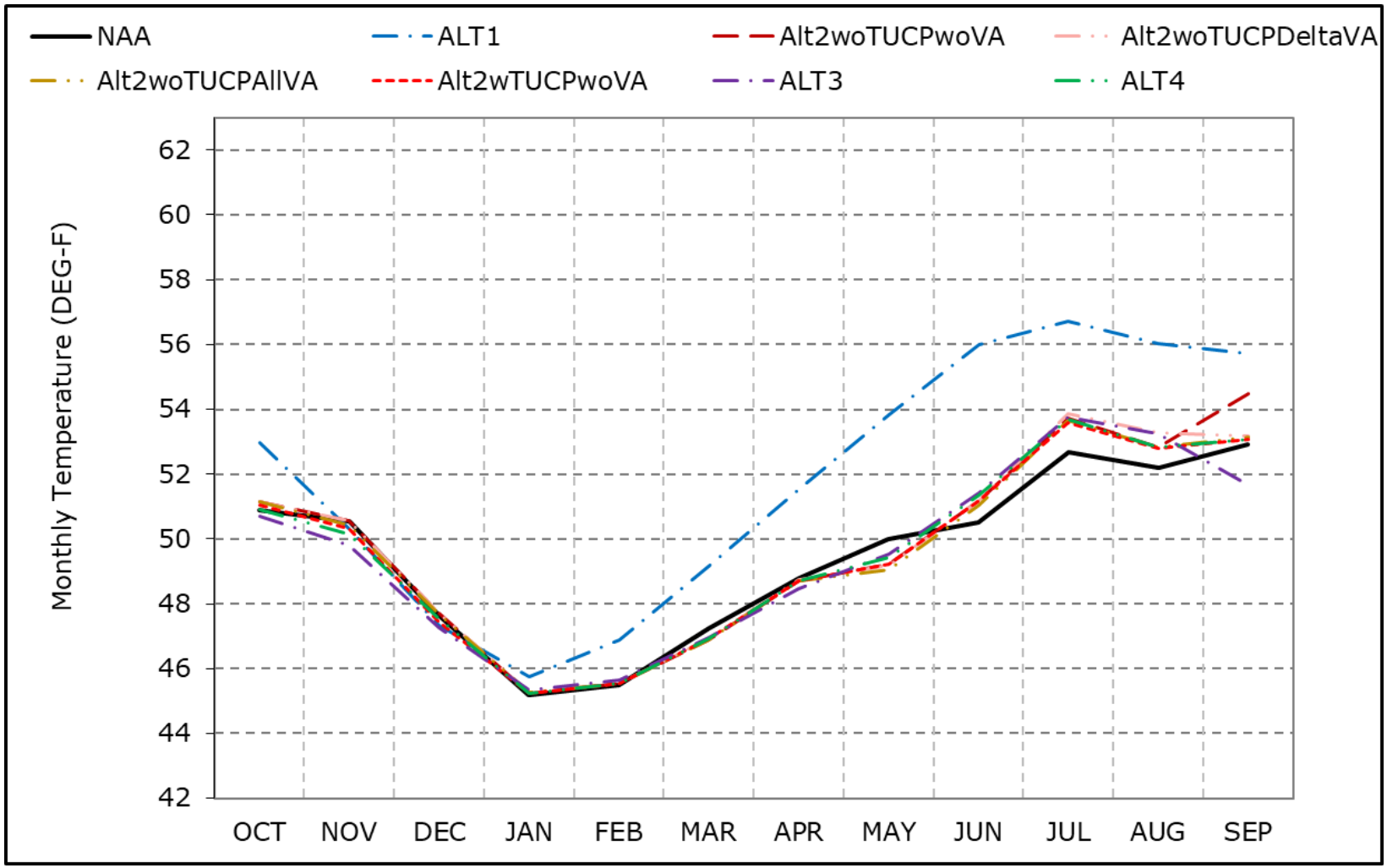
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-2. Clear Creek at Igo, Wet Year Average Temperature



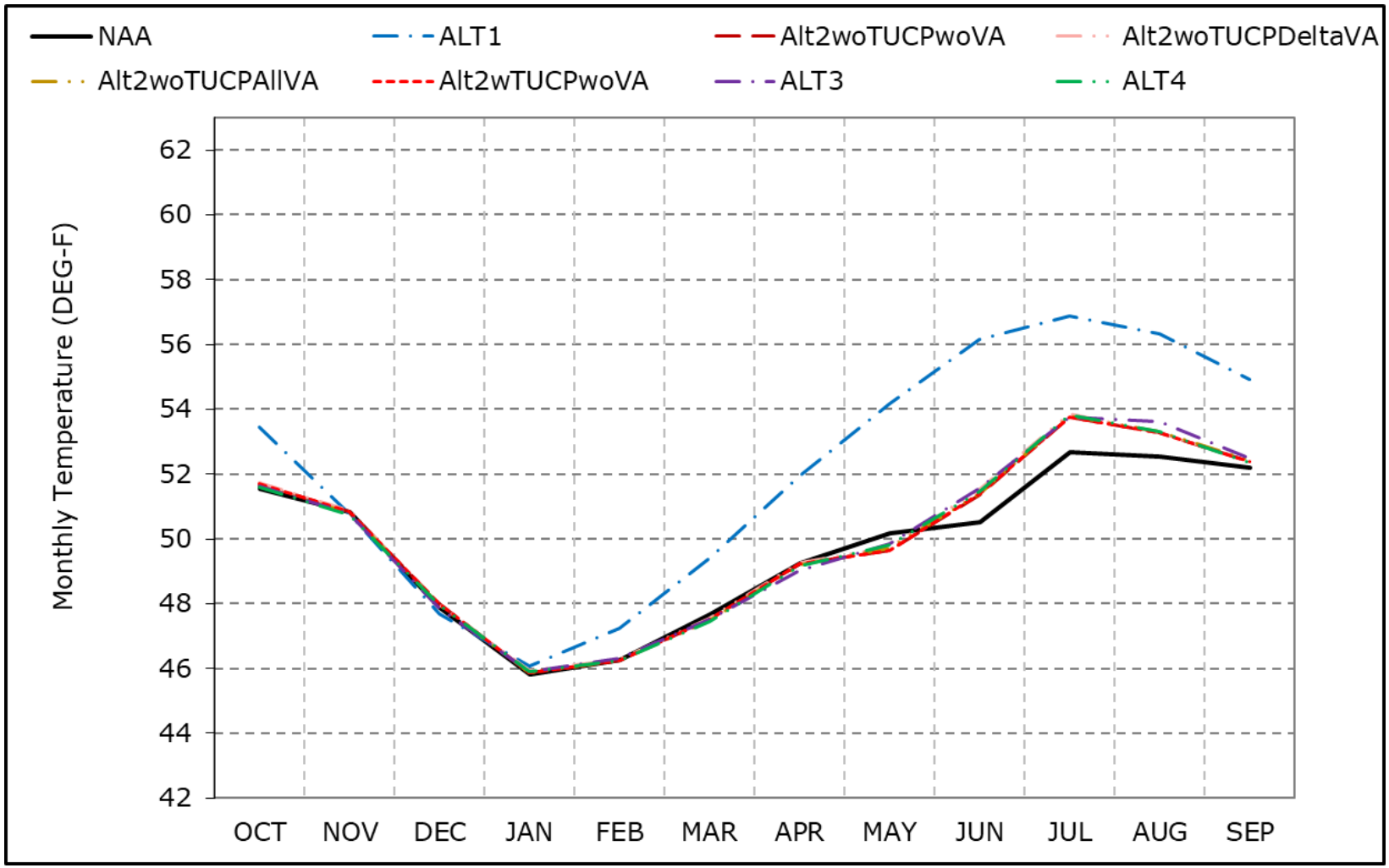
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-3. Clear Creek at Igo, Above Normal Year Average Temperature



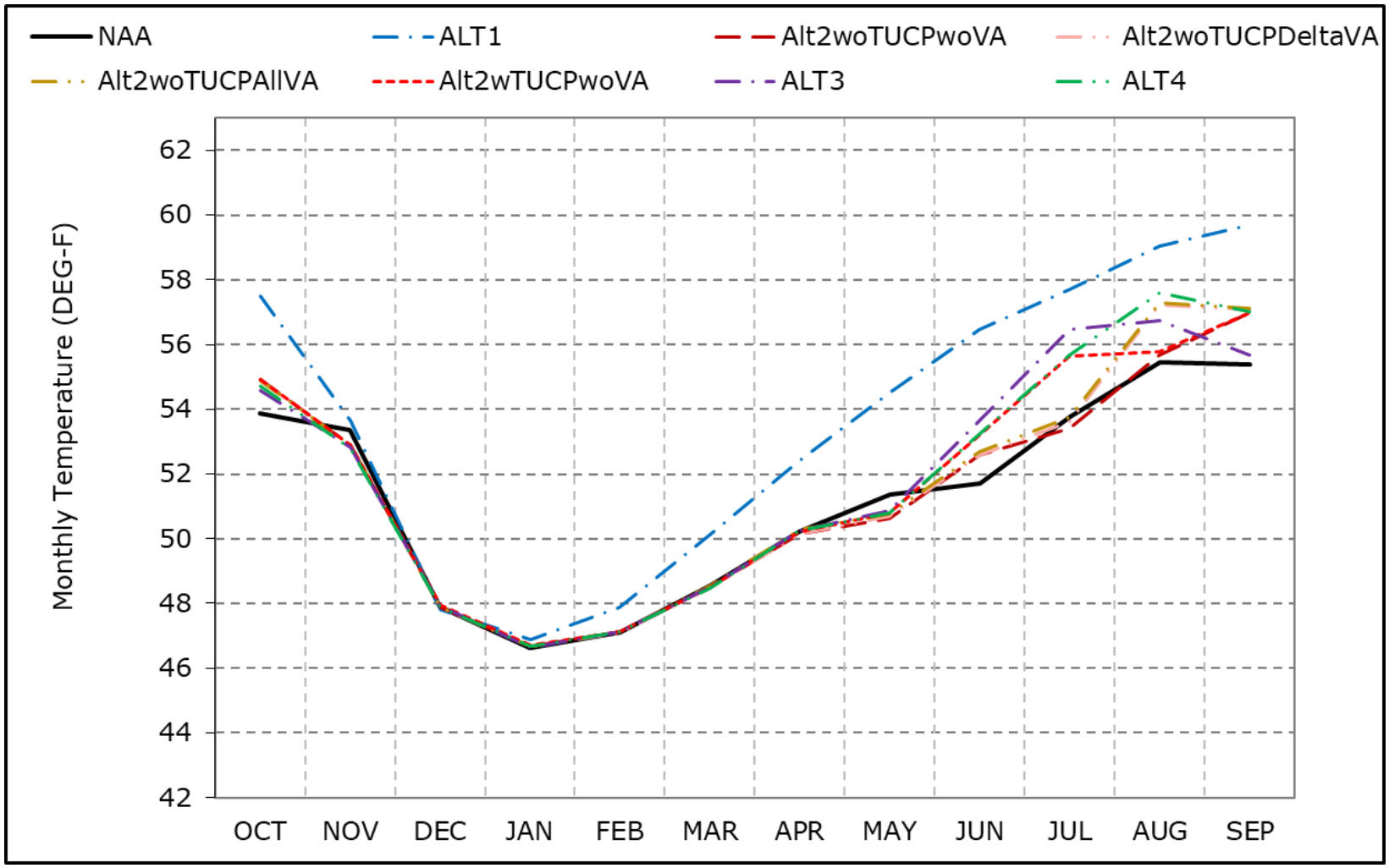
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-4. Clear Creek at Igo, Below Normal Year Average Temperature



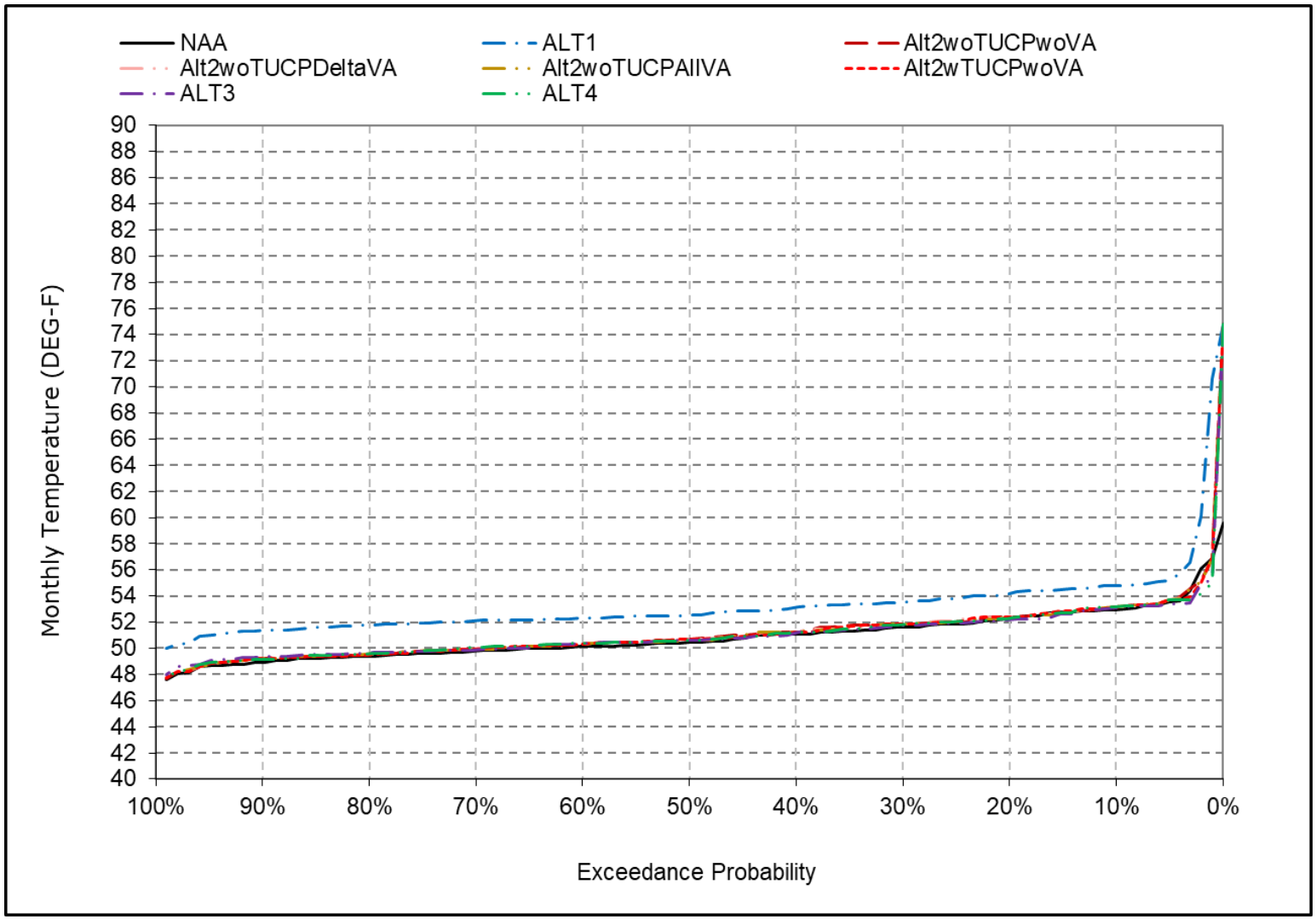
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-5. Clear Creek at Igo, Dry Year Average Temperature



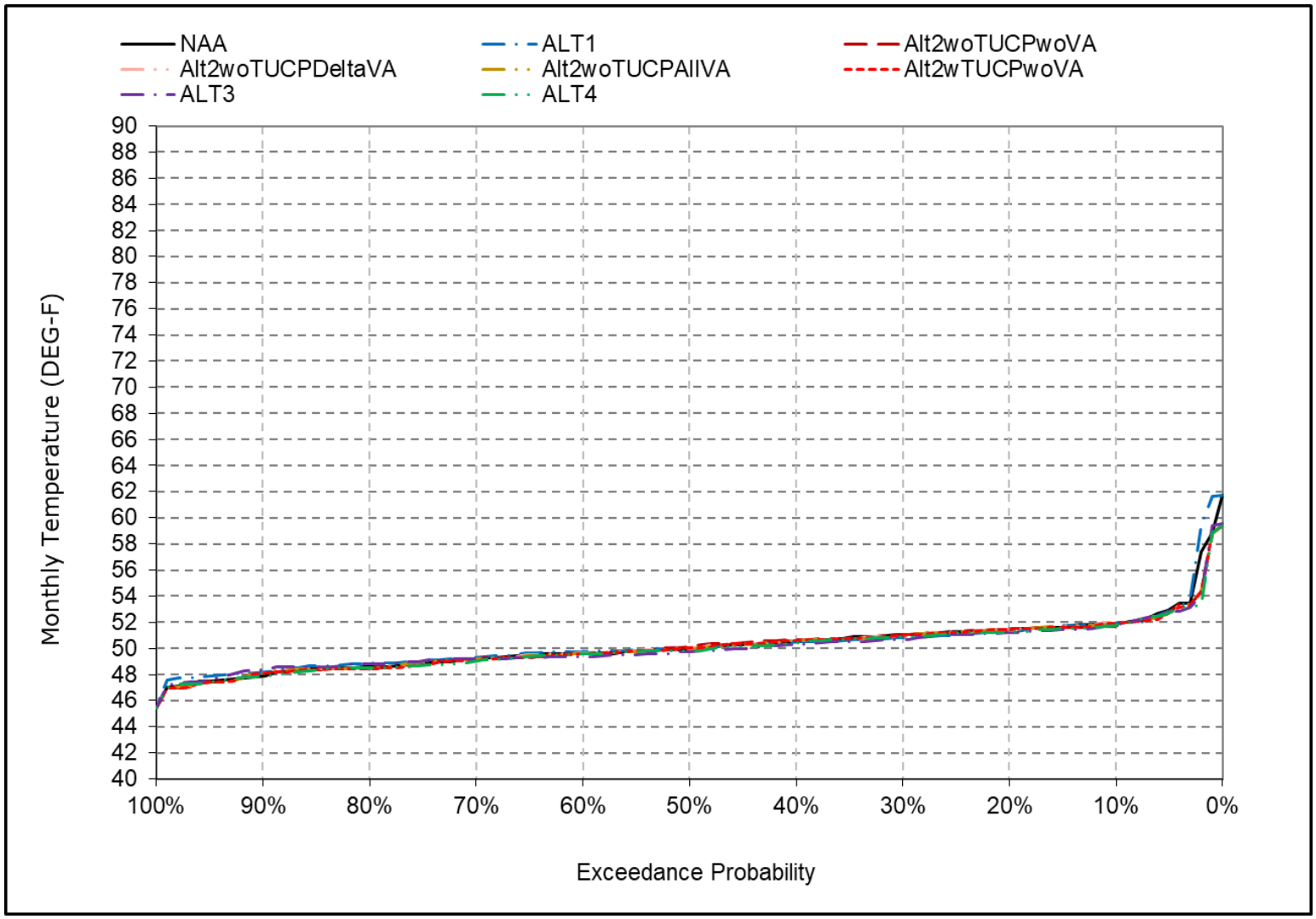
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-6. Clear Creek at Igo, Critical Year Average Temperature



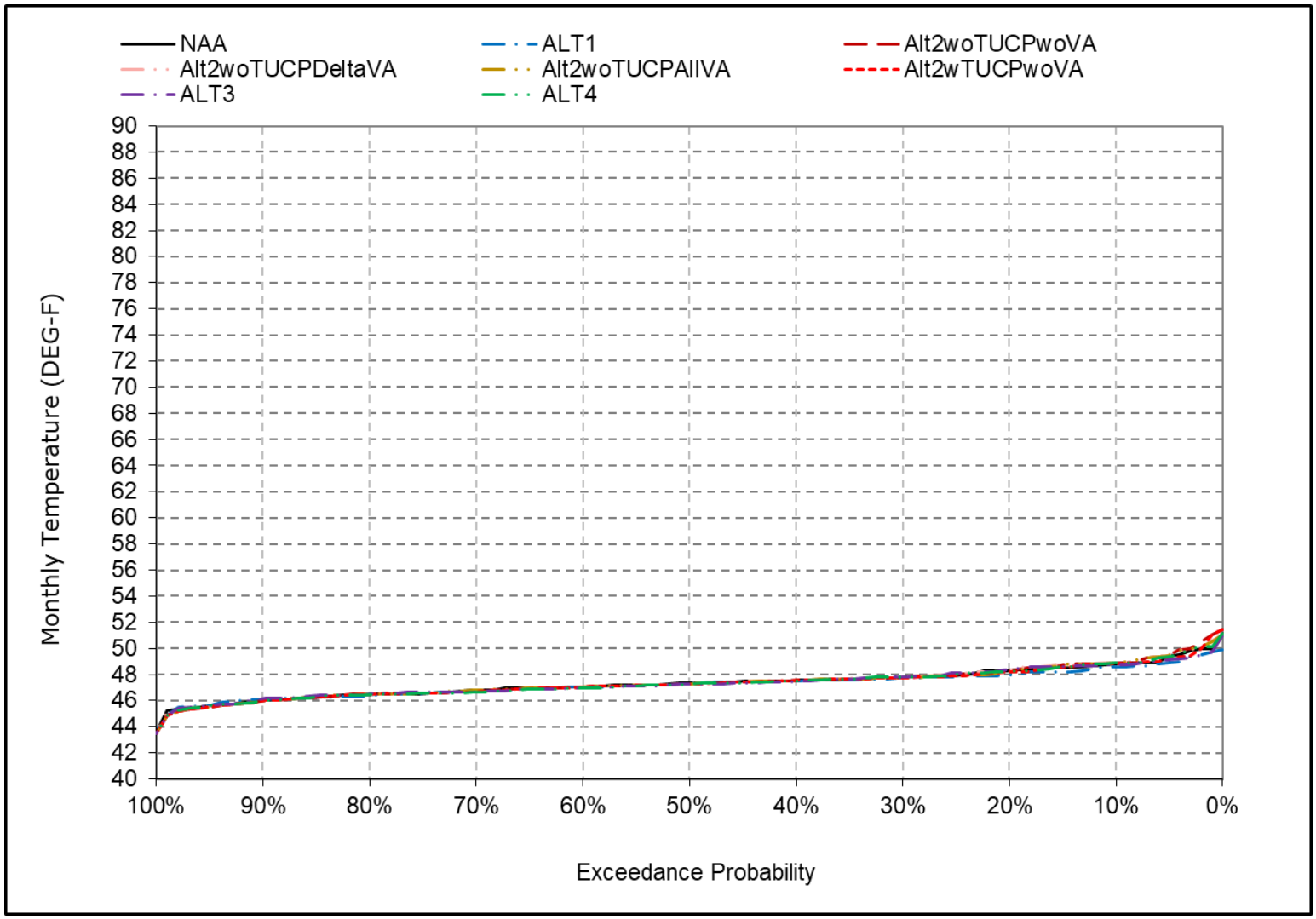
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-7. Clear Creek at Igo, October



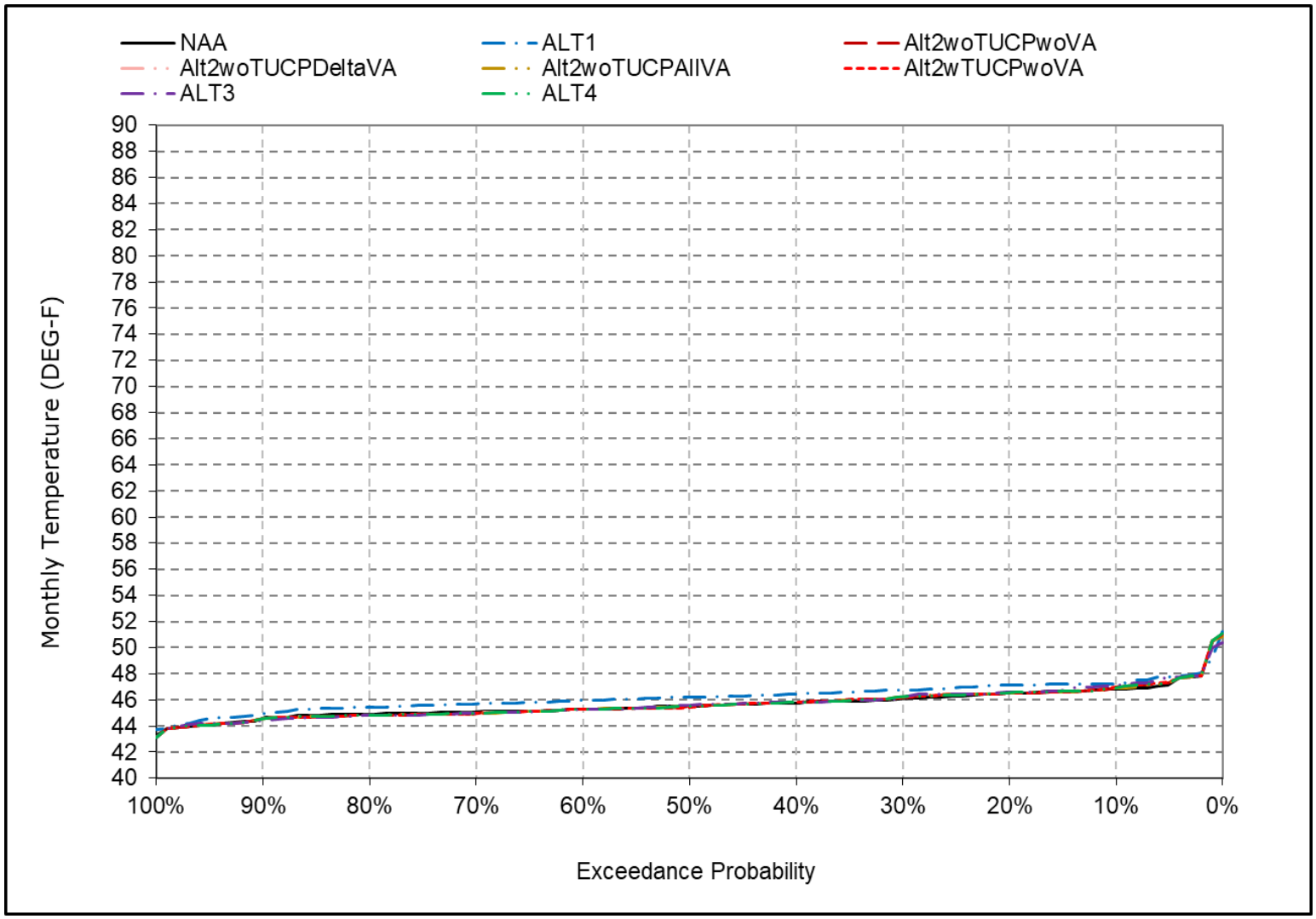
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-8. Clear Creek at Igo, November



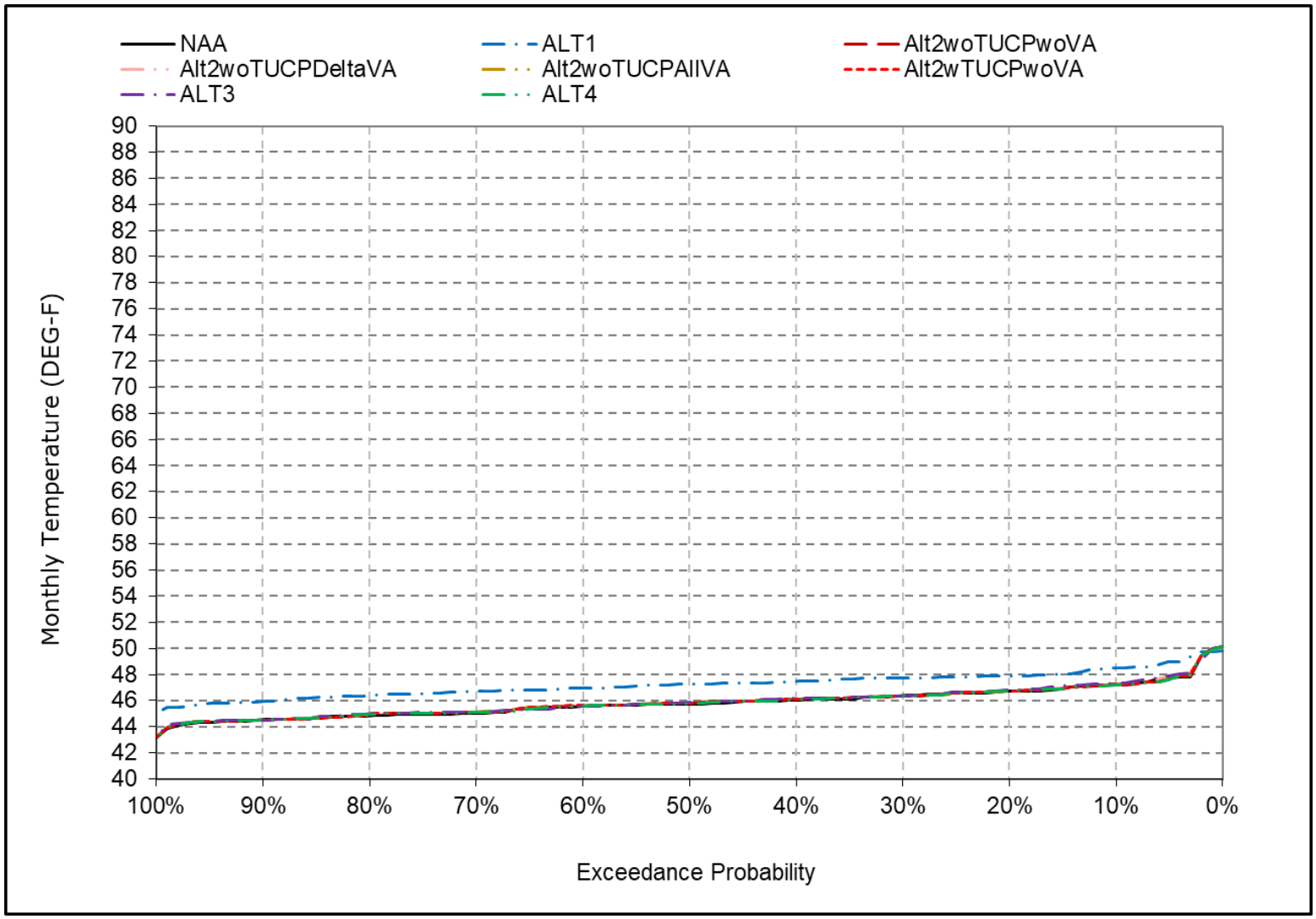
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-9. Clear Creek at Igo, December



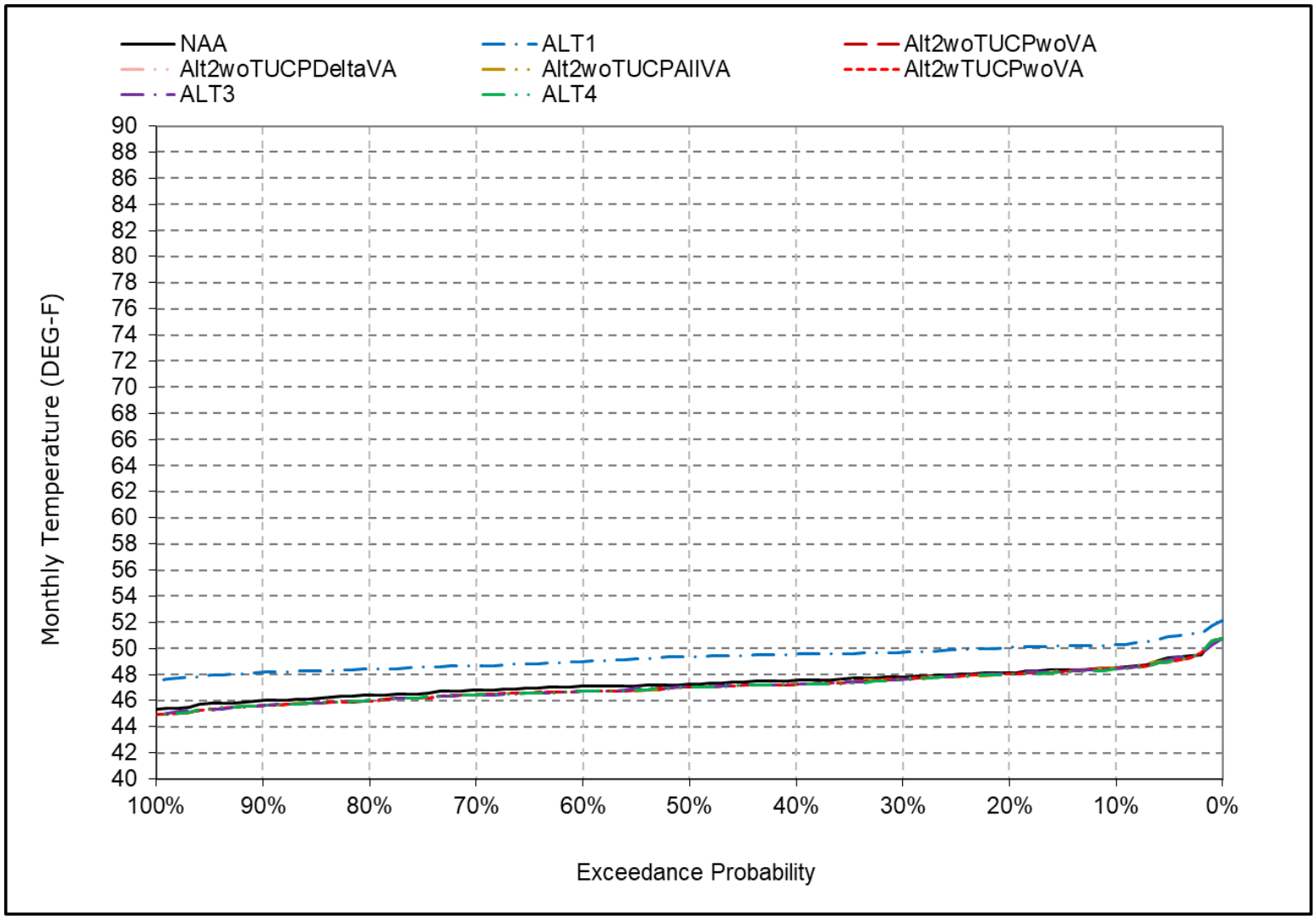
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-10. Clear Creek at Igo, January



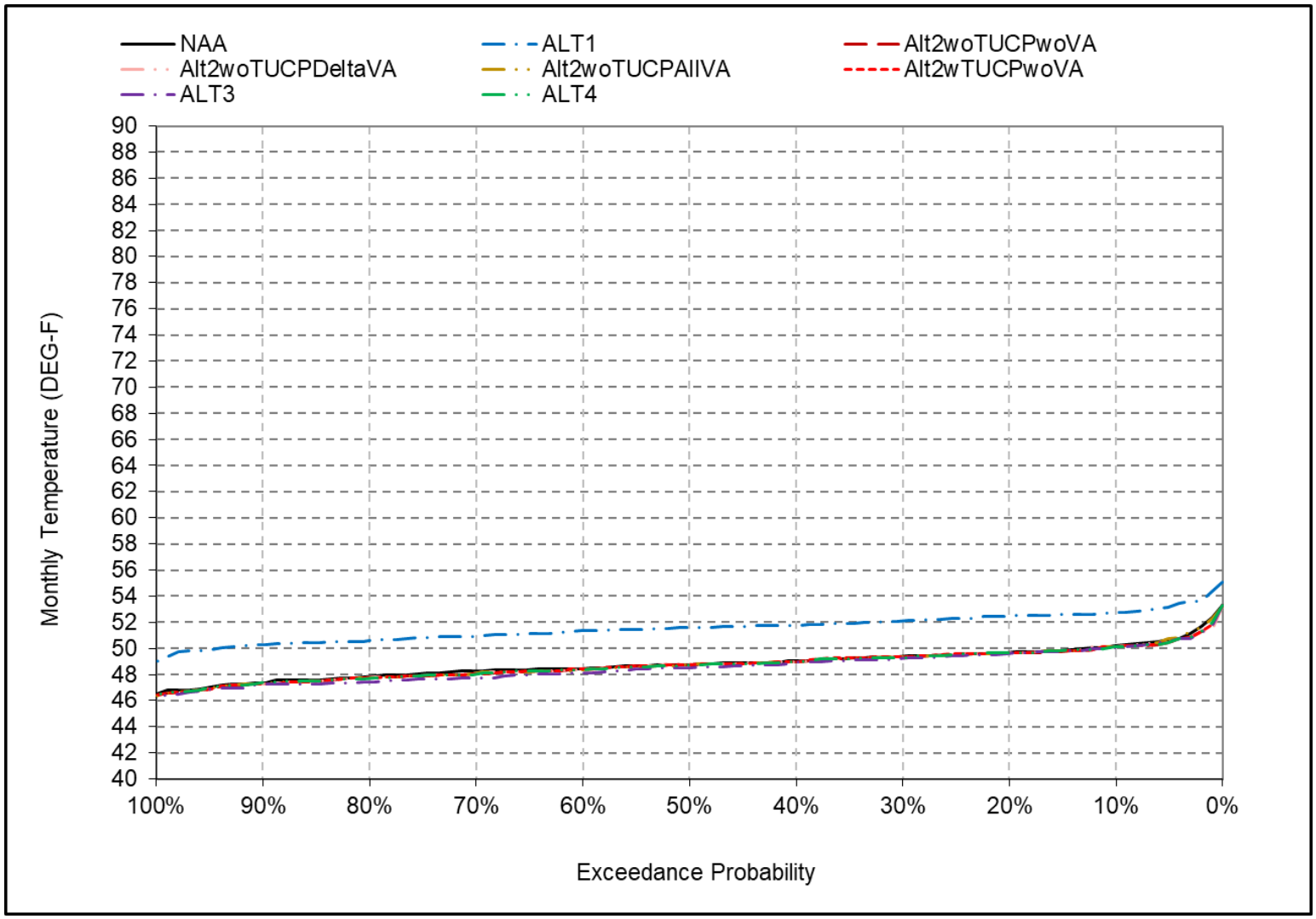
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-11. Clear Creek at Igo, February



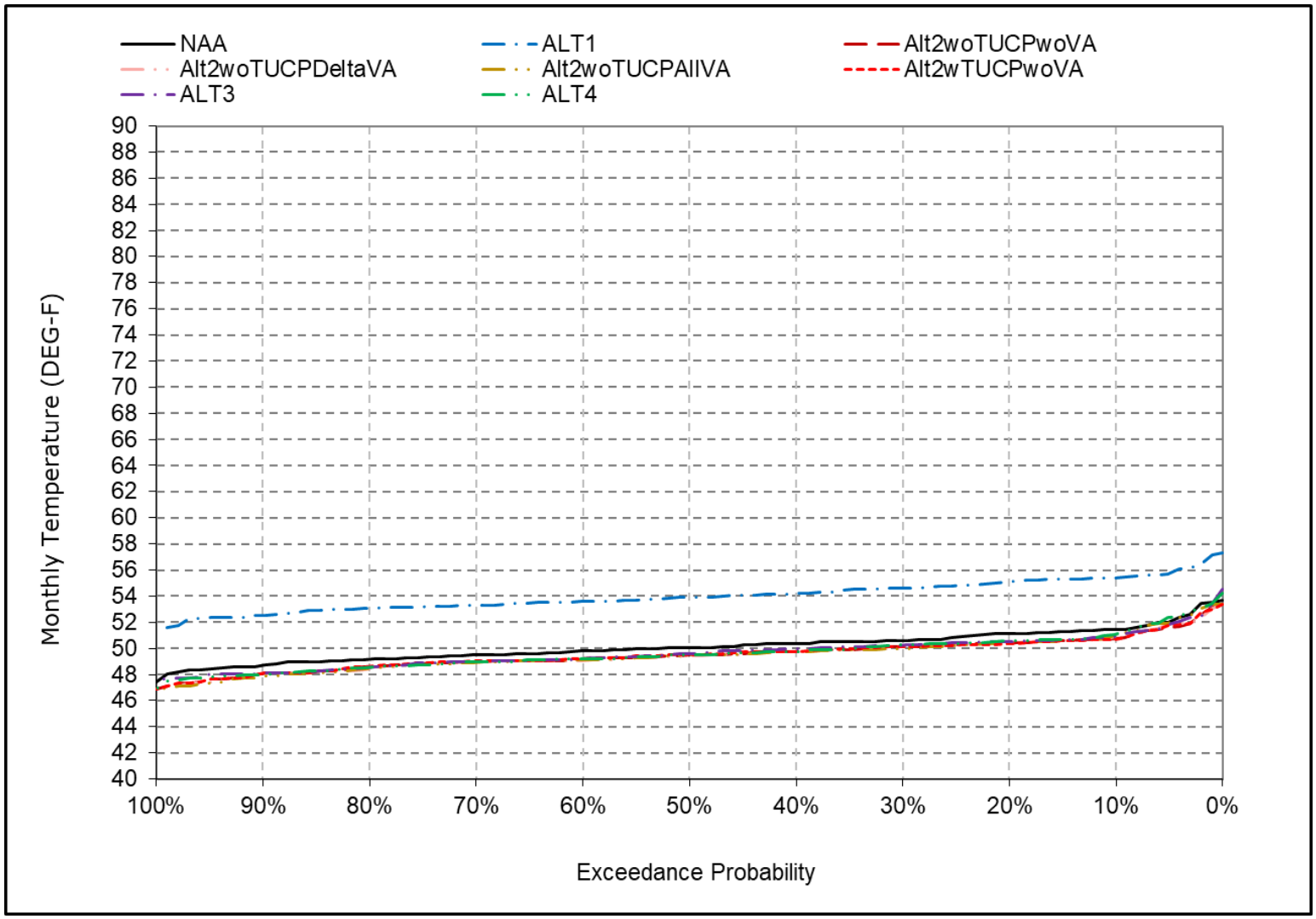
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-12. Clear Creek at Igo, March



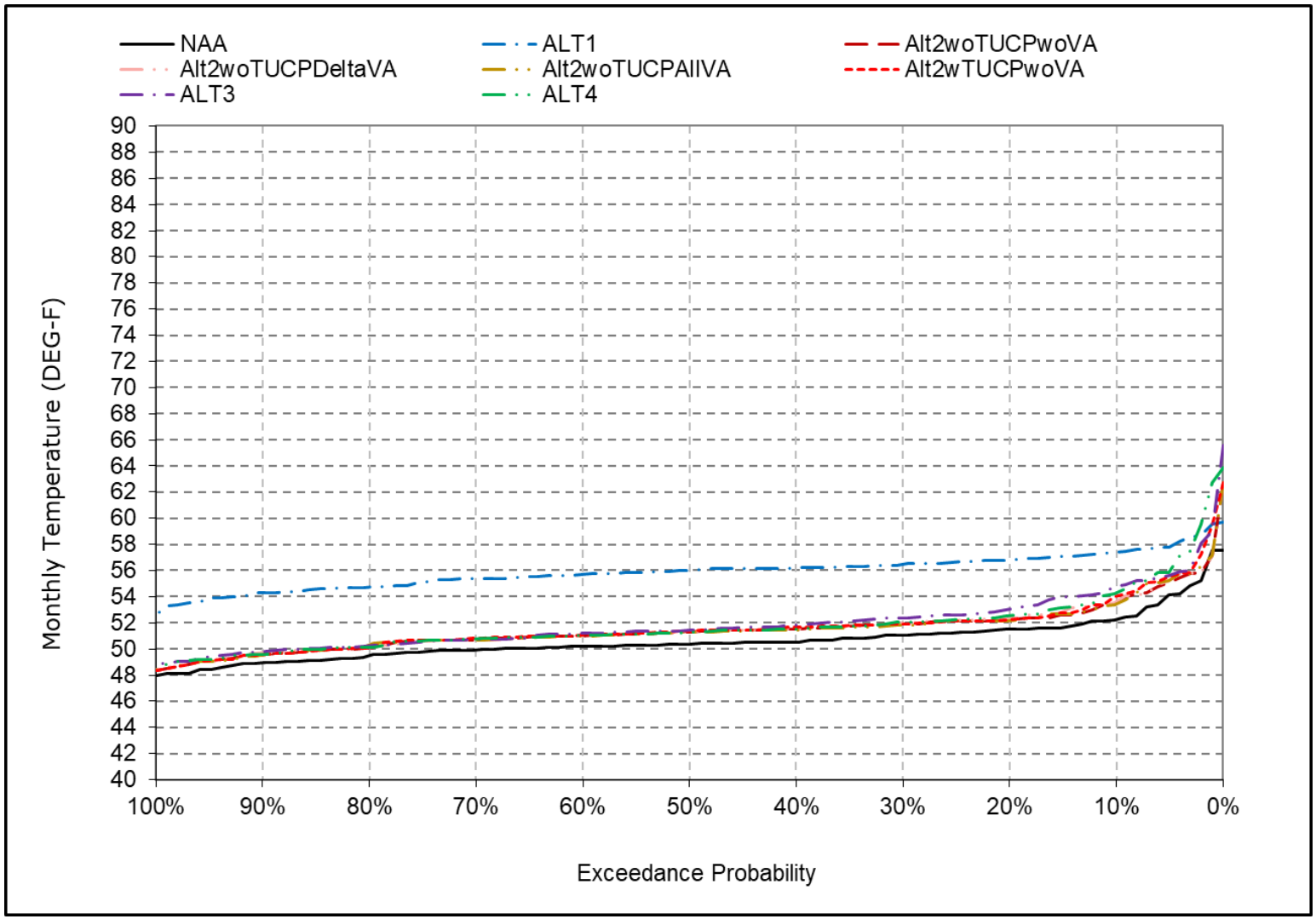
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-13. Clear Creek at Igo, April



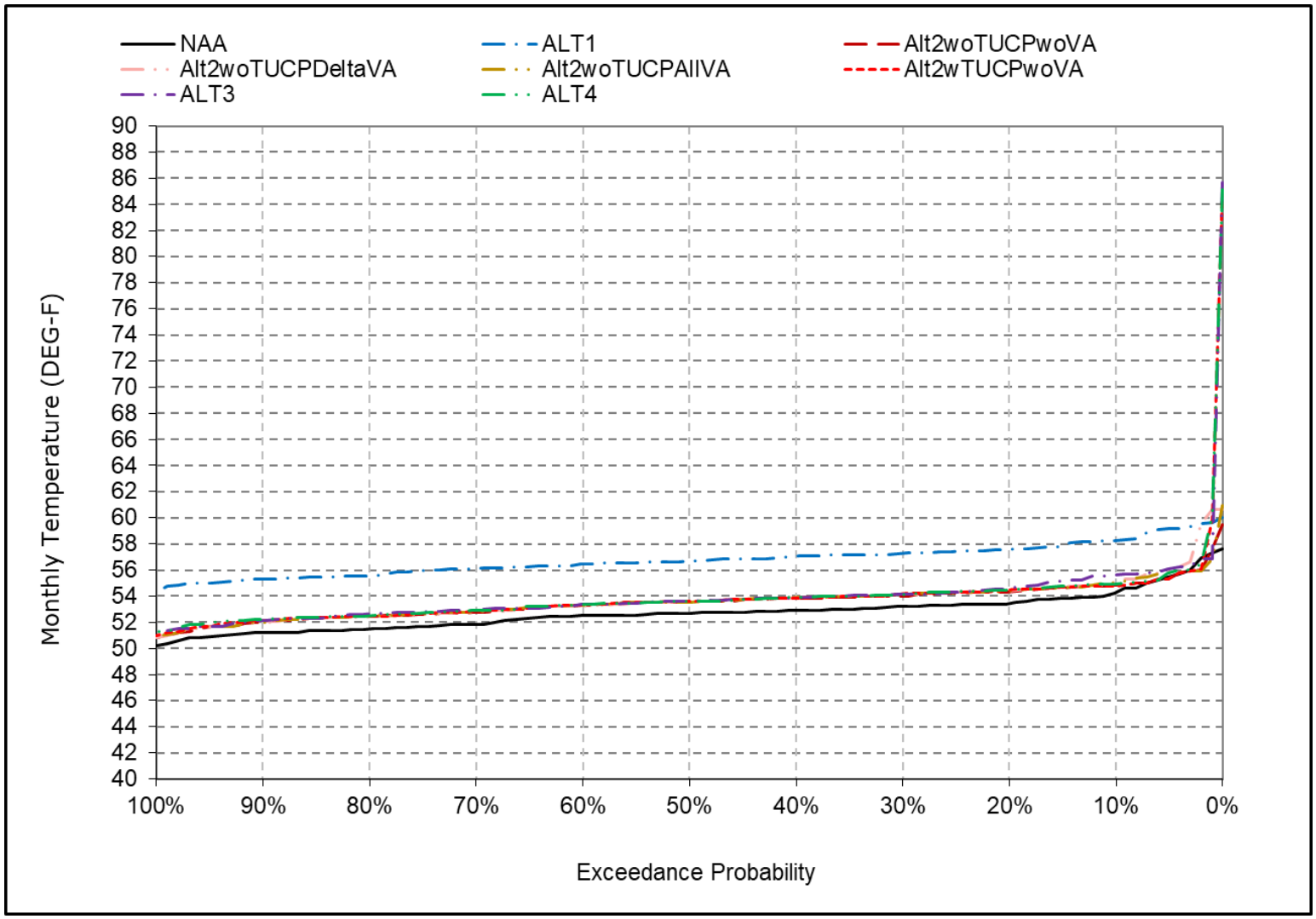
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-14. Clear Creek at Igo, May



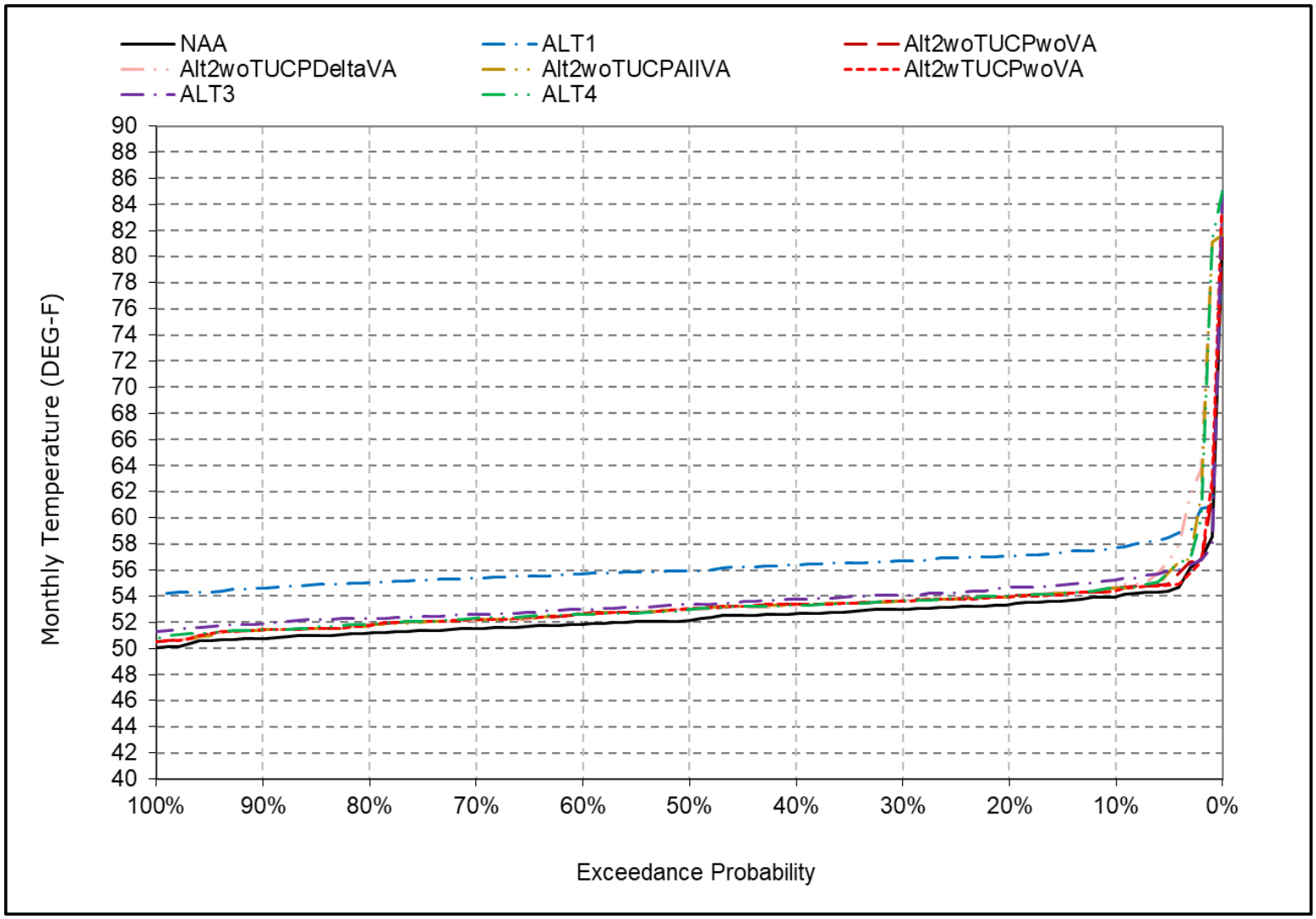
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-15. Clear Creek at Igo, June



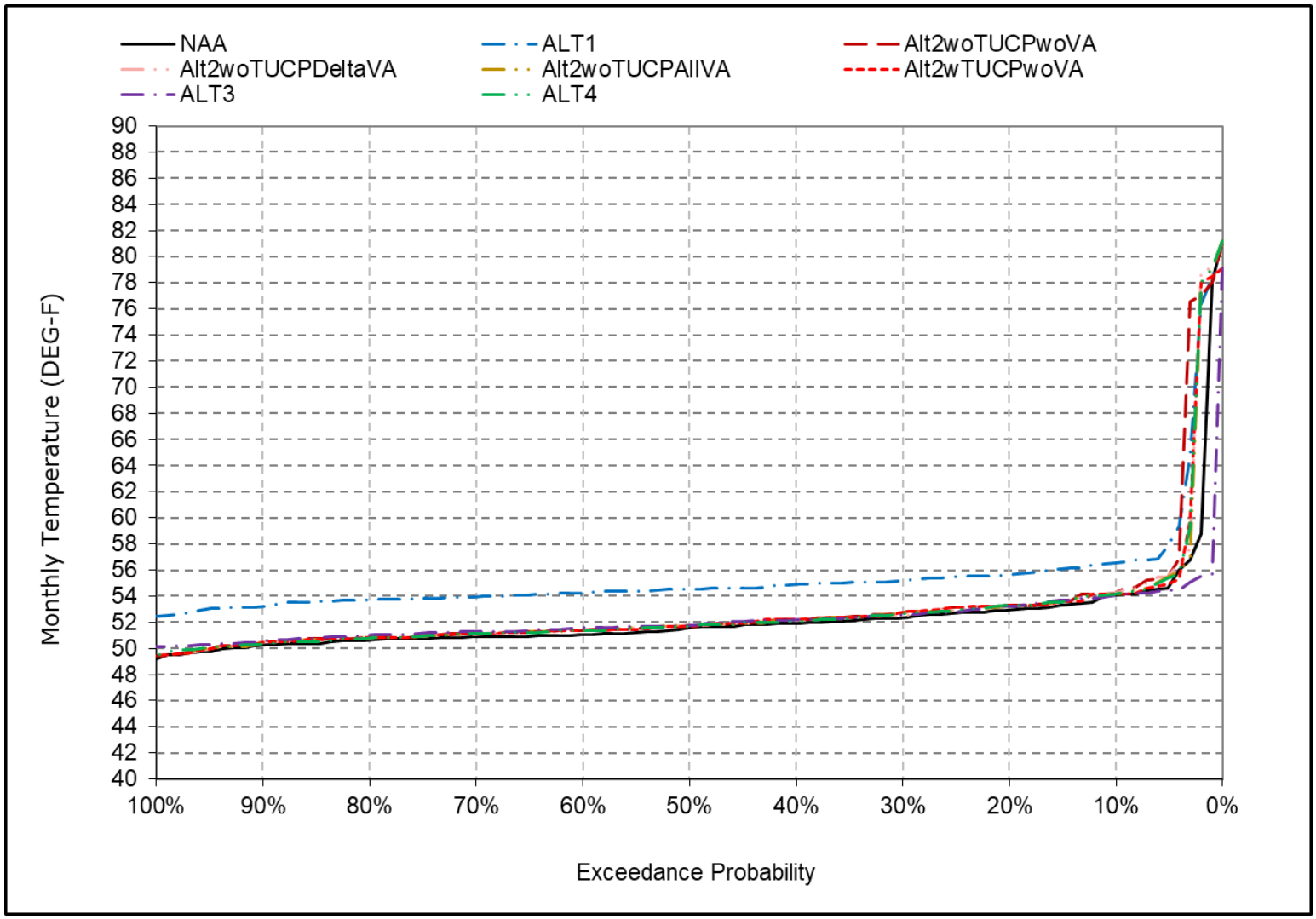
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-16. Clear Creek at Igo, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-17. Clear Creek at Igo, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-3-18. Clear Creek at Igo, September

Table F.2.11-4-1a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-1b. Clear Creek at Mouth, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	53	49	49	51	54	58	63	66	67	65	62
20% Exceedance	57	52	49	49	51	54	58	62	65	66	64	61
30% Exceedance	57	52	48	48	50	54	58	61	64	65	63	60
40% Exceedance	56.4	51.4	48.1	47.8	50.0	53.4	57.1	61.0	63.7	64.8	63.0	60.0
50% Exceedance	56.1	51.1	47.9	47.6	49.6	53.0	56.8	60.5	63.3	64.4	62.6	59.7
60% Exceedance	55.8	50.8	47.6	47.4	49.4	52.7	56.3	60.1	63.0	63.8	62.1	59.3
70% Exceedance	55.5	50.3	47.3	47.0	49.0	52.3	55.9	59.7	62.6	63.4	62.0	59.1
80% Exceedance	55.2	49.9	46.9	46.7	48.6	52.0	55.5	59.2	62.0	63.1	61.5	58.8
90% Exceedance	54.8	49.4	46.6	46.0	48.3	51.6	55.0	58.7	61.3	62.8	61.0	58.4
Full Simulation Period Average[a]	57	51	48	48	50	53	57	61	63	64	63	60
Wet Water Years (28%)	55	50	47	48	50	52	56	60	63	64	63	59
Above Normal Years (14%)	56	50	47	48	50	53	56	61	64	64	62	59
Below Normal Years (18%)	56	51	48	47	49	53	57	60	64	64	63	61
Dry Years (24%)	57	52	48	47	50	53	57	61	64	64	63	60
Critical (16%)	60	55	48	48	50	54	58	61	64	65	65	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-1c. Clear Creek at Mouth, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3.8	0.4	0.0	1.7	3.1	4.5	5.9	8.3	11.1	8.6	8.1	5.6
20% Exceedance	4	0	0	2	3	5	6	8	11	9	7	6
30% Exceedance	4.0	0.3	0.2	1.6	3.2	4.5	6.4	8.2	10.9	8.5	7.3	5.9
40% Exceedance	4	0	0	1	3	4	6	8	11	8	7	6
50% Exceedance	4	1	0	2	3	4	6	8	11	8	7	6
60% Exceedance	5	1	0	2	3	4	6	8	11	8	7	6
70% Exceedance	4	1	0	1	3	4	6	8	11	8	8	6
80% Exceedance	5	1	0	1	3	4	6	8	10	8	7	6
90% Exceedance	4.6	1.0	0.2	1.1	3.2	4.3	5.7	7.7	10.5	8.1	7.3	5.8
Full Simulation Period Average[a]	4.4	0.5	0.2	1.4	3.2	4.4	5.9	7.9	10.8	8.2	7.4	5.9
Wet Water Years (28%)	4.6	0.8	0.4	1.8	3.7	4.5	6.1	8.4	10.7	8.4	7.5	5.9
Above Normal Years (14%)	4.6	0.6	0.3	1.7	3.7	4.9	6.3	8.3	11.1	8.0	7.5	6.1
Below Normal Years (18%)	4.3	0.2	-0.1	1.5	3.3	4.5	6.1	8.0	11.1	8.3	7.5	5.5
Dry Years (24%)	4.0	0.4	0.0	1.1	2.6	4.1	6.0	8.1	11.2	8.3	7.3	5.5
Critical (16%)	5	0	0	1	2	4	5	7	10	8	7	7

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-2a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-2b. Clear Creek at Mouth, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	52	49	47	48	50	52	53	57	60	58	57
20% Exceedance	54	52	49	47	47	49	51	52	55	59	58	56
30% Exceedance	53	52	48	47	47	49	51	52	55	58	57	55
40% Exceedance	52.7	51.1	47.8	46.2	46.8	48.4	50.7	51.8	54.3	58.3	56.8	54.7
50% Exceedance	52.1	50.6	47.7	45.9	46.5	48.1	50.3	51.4	53.9	57.9	56.5	54.3
60% Exceedance	51.7	50.1	47.3	45.6	46.2	47.8	50.0	51.1	53.5	57.6	56.2	53.9
70% Exceedance	51.4	49.7	46.9	45.4	45.8	47.5	49.7	50.7	53.4	56.9	55.7	53.5
80% Exceedance	51.0	49.1	46.7	45.2	45.6	47.1	49.3	50.4	52.9	56.5	55.5	53.4
90% Exceedance	50.6	48.6	46.3	44.9	45.1	46.6	48.8	49.9	51.9	56.2	54.9	52.9
Full Simulation Period Average[a]	53	51	48	46	47	48	50	51	54	58	57	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	51	49	47	46	46	48	50	51	54	58	56	53
Below Normal Years (18%)	53	51	48	46	46	48	50	51	54	58	57	57
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	57	55
Critical (16%)	56	54	48	47	48	50	52	53	56	57	59	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-2c. Clear Creek at Mouth, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.2	0.1	0.0	0.0	-0.2	-0.2	-1.0	2.1	1.6	1.2	0.6
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	1	0
30% Exceedance	0.4	0.1	-0.1	0.0	-0.1	-0.5	-0.2	-1.1	1.5	1.8	1.2	0.5
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	1
50% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
60% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	1
70% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
80% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
90% Exceedance	0.4	0.2	-0.1	0.0	0.1	-0.7	-0.4	-1.1	1.1	1.6	1.1	0.3
Full Simulation Period Average[a]	0.4	-0.1	0.0	-0.1	0.1	-0.5	-0.3	-1.2	1.6	1.7	1.3	0.8
Wet Water Years (28%)	0.4	-0.1	-0.1	-0.2	0.2	-0.6	-0.3	-1.0	1.7	2.2	1.6	0.4
Above Normal Years (14%)	0.4	0.0	-0.2	-0.2	0.1	-0.7	-0.4	-1.3	1.5	1.6	1.3	0.4
Below Normal Years (18%)	0.4	0.0	0.0	-0.1	0.1	-0.6	-0.3	-1.2	1.3	2.1	1.4	1.7
Dry Years (24%)	0.3	0.0	0.0	-0.1	-0.1	-0.4	-0.3	-1.0	1.5	2.1	1.4	0.4
Critical (16%)	1	-1	0	0	0	0	0	-2	2	0	0	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-3a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-3b. Clear Creek at Mouth, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	53	49	47	48	50	52	53	57	60	58	57
20% Exceedance	54	52	49	47	47	49	51	52	56	59	58	56
30% Exceedance	53	51	48	47	47	49	51	52	55	59	57	55
40% Exceedance	52.7	51.1	47.8	46.2	46.8	48.4	50.7	51.7	54.3	58.3	56.8	54.6
50% Exceedance	52.0	50.6	47.7	46.0	46.5	48.1	50.3	51.3	53.9	58.0	56.4	54.3
60% Exceedance	51.7	50.1	47.3	45.6	46.2	47.8	50.0	51.1	53.5	57.6	56.2	53.9
70% Exceedance	51.4	49.7	47.0	45.4	45.8	47.5	49.7	50.7	53.3	57.0	55.7	53.5
80% Exceedance	51.1	49.0	46.7	45.3	45.6	47.1	49.3	50.4	52.9	56.6	55.5	53.4
90% Exceedance	50.6	48.6	46.2	44.9	45.1	46.6	48.9	49.8	52.0	56.2	54.8	52.9
Full Simulation Period Average[a]	53	51	48	46	47	48	50	51	54	58	57	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	51	49	47	46	46	48	50	51	54	58	56	53
Below Normal Years (18%)	53	51	48	46	46	48	50	51	54	58	57	55
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	57	55
Critical (16%)	56	54	48	47	48	50	52	53	56	57	60	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-3c. Clear Creek at Mouth, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.1	0.1	-0.1	0.0	-0.2	-0.2	-1.2	2.1	1.7	1.2	0.6
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	1	0
30% Exceedance	0.3	-0.2	0.0	0.0	-0.1	-0.5	-0.1	-1.2	1.6	1.9	1.2	0.3
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	1
50% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
60% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
70% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
80% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
90% Exceedance	0.4	0.1	-0.1	0.0	0.1	-0.6	-0.3	-1.2	1.2	1.6	1.1	0.3
Full Simulation Period Average[a]	0.4	-0.1	0.0	-0.1	0.1	-0.5	-0.3	-1.2	1.6	1.8	1.6	0.6
Wet Water Years (28%)	0.4	-0.1	0.0	-0.2	0.2	-0.6	-0.3	-1.1	1.8	2.4	1.7	0.5
Above Normal Years (14%)	0.4	0.0	-0.2	-0.2	0.2	-0.7	-0.4	-1.4	1.4	1.6	1.2	0.4
Below Normal Years (18%)	0.4	0.0	0.0	0.0	0.1	-0.6	-0.3	-1.3	1.3	2.2	1.8	0.4
Dry Years (24%)	0.3	0.0	0.0	0.0	0.0	-0.4	-0.2	-0.9	1.6	2.2	1.4	0.4
Critical (16%)	1	-1	0	0	0	0	0	-2	2	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-4a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-4b. Clear Creek at Mouth, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	53	49	47	48	50	52	53	56	60	58	57
20% Exceedance	54	52	49	47	47	49	51	52	55	59	58	56
30% Exceedance	53	51	48	47	47	49	51	52	55	59	57	55
40% Exceedance	52.7	51.0	47.8	46.2	46.8	48.4	50.7	51.7	54.2	58.3	56.8	54.6
50% Exceedance	52.0	50.6	47.7	46.0	46.5	48.1	50.3	51.4	54.0	57.9	56.4	54.2
60% Exceedance	51.7	50.1	47.3	45.6	46.2	47.8	50.0	51.1	53.5	57.6	56.2	53.9
70% Exceedance	51.3	49.7	47.1	45.3	45.8	47.5	49.7	50.7	53.3	57.0	55.7	53.5
80% Exceedance	51.1	49.1	46.7	45.2	45.6	47.1	49.3	50.4	53.0	56.7	55.5	53.4
90% Exceedance	50.6	48.6	46.3	44.9	45.1	46.6	48.9	49.8	52.0	56.2	54.8	52.8
Full Simulation Period Average[a]	53	51	48	46	47	48	50	51	54	58	57	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	51	49	47	46	46	48	50	51	54	58	56	53
Below Normal Years (18%)	53	51	48	46	46	48	50	51	54	58	57	55
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	57	55
Critical (16%)	56	54	48	47	48	50	52	53	56	57	60	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-4c. Clear Creek at Mouth, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.1	0.2	-0.1	0.0	-0.2	-0.2	-0.9	1.8	1.7	1.2	0.4
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	1	0
30% Exceedance	0.3	-0.2	-0.1	0.0	-0.1	-0.5	-0.2	-1.2	1.4	1.8	1.2	0.3
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
50% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
60% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	1
70% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
80% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
90% Exceedance	0.4	0.2	-0.1	0.0	0.1	-0.6	-0.3	-1.3	1.2	1.6	1.1	0.3
Full Simulation Period Average[a]	0.4	-0.1	0.0	-0.1	0.1	-0.5	-0.3	-1.2	1.6	1.7	1.5	0.6
Wet Water Years (28%)	0.4	-0.1	-0.1	-0.2	0.2	-0.6	-0.3	-1.0	1.8	2.2	1.5	0.4
Above Normal Years (14%)	0.4	0.0	-0.1	-0.2	0.1	-0.7	-0.4	-1.4	1.3	1.6	1.3	0.4
Below Normal Years (18%)	0.4	-0.2	0.0	-0.1	0.1	-0.6	-0.3	-1.4	1.2	2.0	1.4	0.4
Dry Years (24%)	0.3	-0.1	0.0	-0.1	-0.1	-0.5	-0.3	-0.9	1.5	2.1	1.4	0.4
Critical (16%)	1	-1	0	0	0	0	0	-1	2	0	2	2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-5a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-5b. Clear Creek at Mouth, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	52	49	47	48	50	52	53	57	60	58	56
20% Exceedance	54	52	48	47	47	49	51	52	55	59	58	56
30% Exceedance	53	52	48	47	47	49	51	52	55	59	57	55
40% Exceedance	52.5	51.1	47.8	46.2	46.8	48.4	50.7	51.8	54.3	58.3	56.8	54.6
50% Exceedance	52.1	50.6	47.7	45.9	46.5	48.1	50.3	51.5	54.0	58.0	56.4	54.3
60% Exceedance	51.7	50.1	47.3	45.6	46.2	47.8	50.0	51.1	53.5	57.6	56.2	53.8
70% Exceedance	51.4	49.6	47.0	45.4	45.8	47.5	49.7	50.8	53.4	57.0	55.7	53.6
80% Exceedance	51.0	49.0	46.7	45.2	45.6	47.1	49.3	50.5	52.9	56.6	55.5	53.4
90% Exceedance	50.6	48.6	46.3	44.9	45.1	46.6	48.8	49.9	51.9	56.3	55.0	52.8
Full Simulation Period Average[a]	53	51	48	46	47	48	50	52	54	58	57	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	51	49	47	46	46	48	50	51	54	58	56	53
Below Normal Years (18%)	52	51	48	46	46	48	50	51	54	58	57	55
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	57	55
Critical (16%)	56	54	48	47	48	50	52	53	57	59	58	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-5c. Clear Creek at Mouth, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.2	0.0	0.0	0.0	-0.2	-0.2	-1.0	2.4	1.6	1.0	0.2
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	1	0
30% Exceedance	0.3	-0.1	-0.2	0.0	-0.1	-0.5	-0.2	-1.1	1.6	1.9	1.1	0.5
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	1
50% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
60% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
70% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
80% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
90% Exceedance	0.4	0.2	-0.1	0.0	0.1	-0.6	-0.4	-1.1	1.1	1.6	1.2	0.3
Full Simulation Period Average[a]	0.4	-0.2	-0.1	-0.1	0.1	-0.5	-0.3	-1.1	1.7	2.0	1.2	0.6
Wet Water Years (28%)	0.4	-0.1	-0.1	-0.2	0.2	-0.6	-0.3	-1.0	1.7	2.2	1.6	0.5
Above Normal Years (14%)	0.4	0.0	-0.2	-0.2	0.1	-0.7	-0.4	-1.3	1.5	1.6	1.3	0.4
Below Normal Years (18%)	0.3	-0.3	-0.3	-0.1	0.1	-0.6	-0.3	-1.2	1.3	2.0	1.3	0.4
Dry Years (24%)	0.3	0.0	0.0	-0.1	-0.1	-0.4	-0.3	-1.0	1.5	2.1	1.4	0.4
Critical (16%)	0	-1	0	0	0	0	0	-1	3	2	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-6a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-6b. Clear Creek at Mouth, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	52	49	48	48	50	52	53	57	60	60	57
20% Exceedance	54	52	49	47	48	49	51	53	56	59	59	56
30% Exceedance	53	51	48	47	47	49	51	52	55	59	58	55
40% Exceedance	52.5	50.8	47.8	46.2	46.8	48.3	50.5	51.9	54.6	58.1	57.8	54.9
50% Exceedance	52.1	50.2	47.5	46.0	46.5	48.1	50.1	51.4	54.0	57.9	57.3	54.6
60% Exceedance	51.8	49.9	47.3	45.7	46.1	47.8	49.7	51.0	53.7	57.5	57.0	54.3
70% Exceedance	51.4	49.7	47.0	45.4	45.8	47.4	49.4	50.9	53.2	57.0	56.5	54.0
80% Exceedance	51.2	49.4	46.8	45.2	45.6	47.0	49.0	50.4	52.8	56.9	56.4	53.7
90% Exceedance	50.9	48.9	46.4	44.6	45.1	46.5	48.7	49.9	52.1	56.4	55.9	53.4
Full Simulation Period Average[a]	53	51	48	46	47	48	50	52	55	58	58	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	52	49	47	46	46	48	50	51	54	57	57	54
Below Normal Years (18%)	52	50	48	46	46	48	50	51	54	58	57	54
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	58	55
Critical (16%)	56	53	48	47	48	50	52	53	57	61	60	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-6c. Clear Creek at Mouth, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.4	-0.1	0.2	0.0	-0.2	-0.3	-1.1	2.7	2.2	2.5	0.5
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	2	1
30% Exceedance	0.3	-0.4	-0.1	0.0	0.0	-0.6	-0.3	-1.1	2.1	1.9	2.1	0.7
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	2	1
50% Exceedance	0	0	0	0	0	-1	-1	-1	2	2	2	1
60% Exceedance	0	0	0	0	0	-1	-1	-1	2	2	2	1
70% Exceedance	0	0	0	0	0	-1	-1	-1	1	2	2	1
80% Exceedance	0	0	0	0	0	-1	-1	-1	1	2	2	1
90% Exceedance	0.6	0.5	0.0	-0.3	0.1	-0.7	-0.5	-1.1	1.3	1.7	2.2	0.9
Full Simulation Period Average[a]	0.4	-0.2	-0.1	-0.1	0.1	-0.5	-0.5	-1.1	1.9	2.0	2.2	0.5
Wet Water Years (28%)	0.7	0.2	0.1	-0.2	0.2	-0.7	-0.6	-1.1	2.0	1.9	2.3	0.7
Above Normal Years (14%)	0.5	0.0	0.0	-0.2	0.1	-0.7	-0.6	-1.3	1.7	1.3	2.1	0.9
Below Normal Years (18%)	0.1	-0.8	-0.4	0.0	0.2	-0.6	-0.6	-1.0	1.4	1.9	2.2	-0.6
Dry Years (24%)	0.3	-0.1	-0.1	0.0	0.0	-0.4	-0.5	-0.9	1.6	1.9	2.1	0.7
Critical (16%)	0	-1	0	0	0	0	0	-1	3	3	2	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-7a. Clear Creek at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.4	52.7	49.1	47.4	48.0	49.9	52.4	54.2	54.6	58.1	57.1	56.1
20% Exceedance	53.4	52.0	48.6	47.0	47.5	49.5	51.7	53.7	53.6	57.0	56.4	55.2
30% Exceedance	52.9	51.6	48.1	46.6	47.1	49.2	51.2	53.2	53.3	56.7	56.0	54.6
40% Exceedance	52.3	51.1	47.9	46.3	46.7	49.0	50.8	52.9	52.7	56.3	55.5	54.1
50% Exceedance	52	50	48	46	46	49	51	52	52	56	55	54
60% Exceedance	51	50	47	46	46	48	50	52	52	56	55	53
70% Exceedance	51	50	47	46	46	48	50	52	52	55	54	53
80% Exceedance	51	49	47	45	45	48	50	52	52	55	54	53
90% Exceedance	50	48	46	45	45	47	49	51	51	55	54	53
Full Simulation Period Average[a]	52	51	48	46	47	49	51	53	53	56	56	55
Wet Water Years (28%)	51	49	47	46	46	48	50	52	52	56	55	54
Above Normal Years (14%)	51	49	47	46	46	48	50	53	52	56	54	53
Below Normal Years (18%)	52	51	48	46	46	49	51	52	52	56	55	55
Dry Years (24%)	52.7	51.3	48.2	46.3	47.0	49.0	51.2	52.6	52.4	56.1	55.5	54.4
Critical (16%)	56	54	48	47	48	50	52	54	54	57	58	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-7b. Clear Creek at Mouth, Alternative 4, Monthly Temperature (°F)

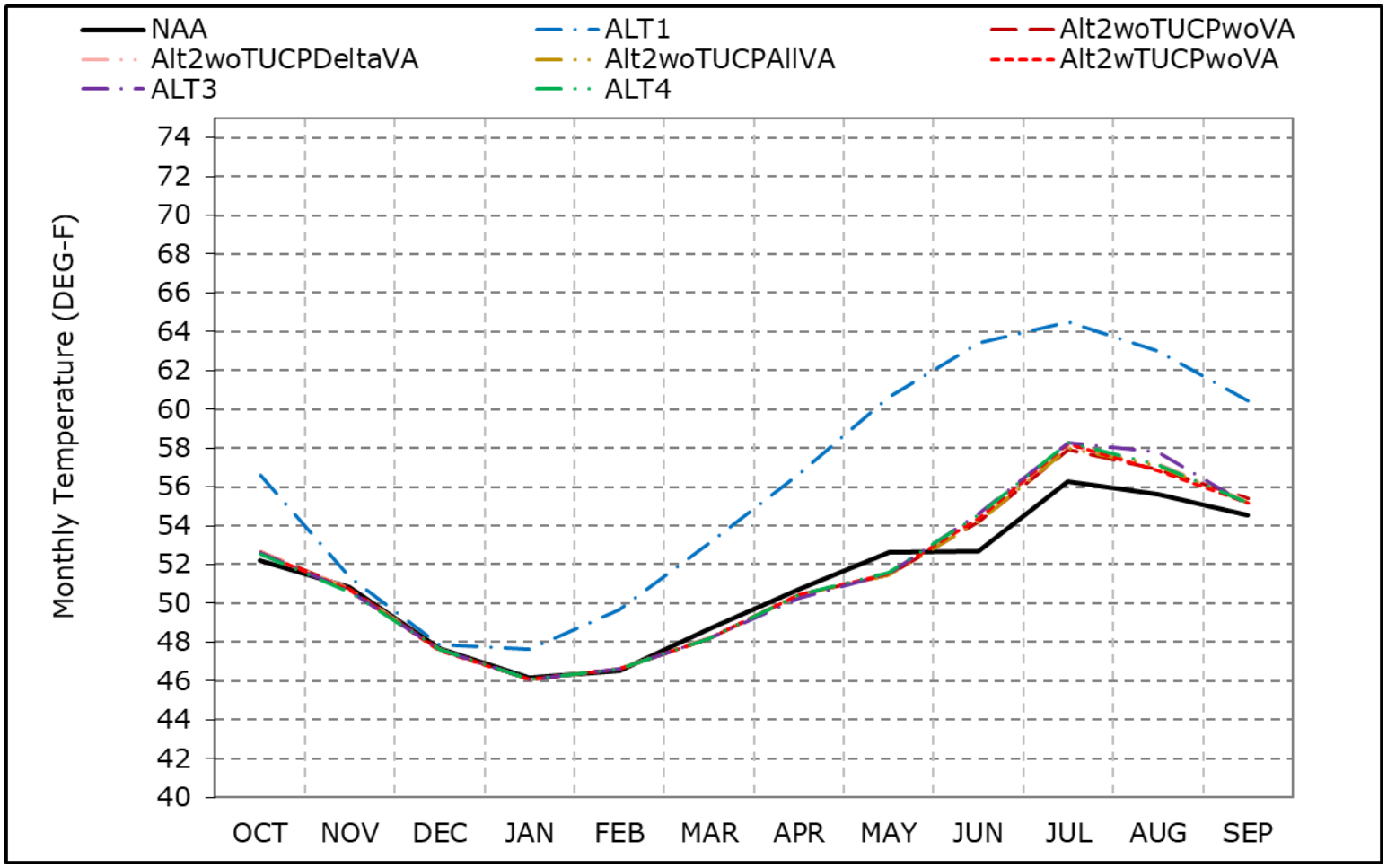
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	52	49	47	48	50	52	53	58	60	58	57
20% Exceedance	54	52	49	47	47	49	51	53	56	59	58	56
30% Exceedance	53	51	48	47	47	49	51	52	55	59	57	55
40% Exceedance	52.6	50.9	47.8	46.2	46.7	48.3	50.7	51.8	54.3	58.4	56.9	54.5
50% Exceedance	52.0	50.4	47.6	45.9	46.5	48.1	50.3	51.4	53.9	58.0	56.4	54.1
60% Exceedance	51.8	50.1	47.2	45.6	46.2	47.8	50.0	51.1	53.5	57.6	56.2	53.9
70% Exceedance	51.4	49.5	46.9	45.4	45.8	47.5	49.7	50.7	53.3	57.1	55.7	53.6
80% Exceedance	51.1	49.1	46.7	45.2	45.6	47.1	49.3	50.4	52.9	56.7	55.5	53.4
90% Exceedance	50.6	48.4	46.3	44.9	45.1	46.6	48.9	50.0	52.0	56.3	55.0	52.8
Full Simulation Period Average[a]	53	51	48	46	47	48	50	52	55	58	57	55
Wet Water Years (28%)	51	49	47	46	46	47	49	51	54	58	57	54
Above Normal Years (14%)	51	49	47	46	46	48	50	51	54	58	56	53
Below Normal Years (18%)	52	51	48	46	46	48	50	51	54	58	57	55
Dry Years (24%)	53	51	48	46	47	49	51	52	54	58	57	55
Critical (16%)	56	53	48	47	48	50	52	53	57	59	60	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-4-7c. Clear Creek at Mouth, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

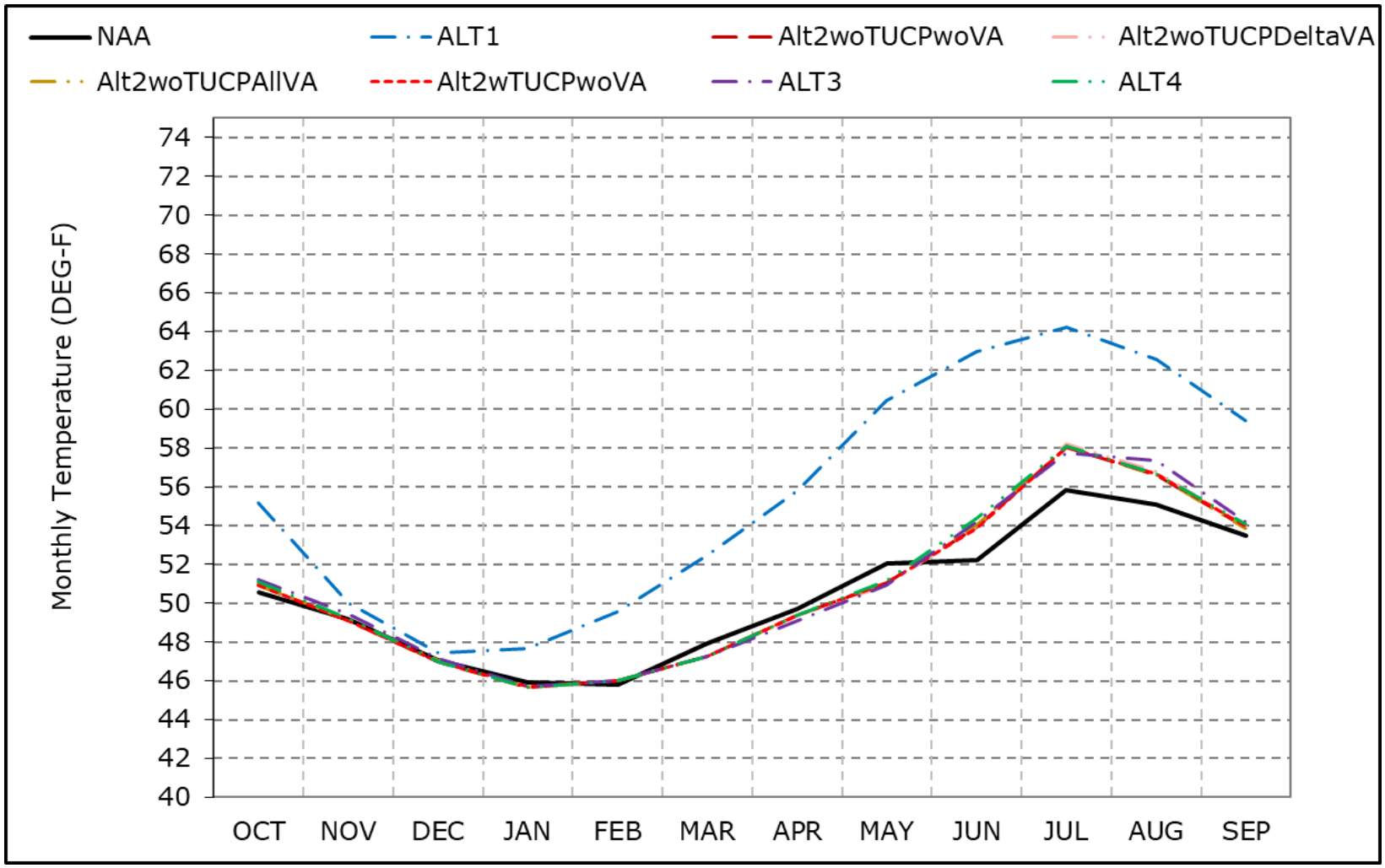
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	-0.3	0.0	0.1	0.0	-0.2	-0.1	-1.0	3.1	1.6	1.1	0.4
20% Exceedance	0	0	0	0	0	0	0	-1	2	2	1	0
30% Exceedance	0.3	-0.2	0.0	0.0	-0.1	-0.5	-0.2	-1.1	1.6	1.9	1.2	0.5
40% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
50% Exceedance	0	0	0	0	0	-1	0	-1	2	2	1	0
60% Exceedance	1	0	0	0	0	-1	0	-1	1	2	1	1
70% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
80% Exceedance	0	0	0	0	0	-1	0	-1	1	2	1	0
90% Exceedance	0.3	0.0	-0.1	0.0	0.1	-0.6	-0.3	-1.1	1.2	1.7	1.2	0.3
Full Simulation Period Average[a]	0.3	-0.3	-0.1	-0.1	0.1	-0.5	-0.3	-1.1	1.9	2.0	1.5	0.6
Wet Water Years (28%)	0.5	0.0	-0.1	-0.3	0.2	-0.6	-0.3	-0.9	2.2	2.3	1.6	0.6
Above Normal Years (14%)	0.4	-0.1	-0.2	-0.2	0.1	-0.7	-0.4	-1.4	1.3	1.6	1.3	0.4
Below Normal Years (18%)	0.2	-0.5	-0.1	-0.1	0.1	-0.6	-0.3	-1.0	1.5	2.1	1.4	0.4
Dry Years (24%)	0.2	-0.1	0.0	0.0	-0.1	-0.5	-0.3	-0.8	1.6	2.1	1.4	0.4
Critical (16%)	0	-1	0	0	0	0	0	-1	3	2	2	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



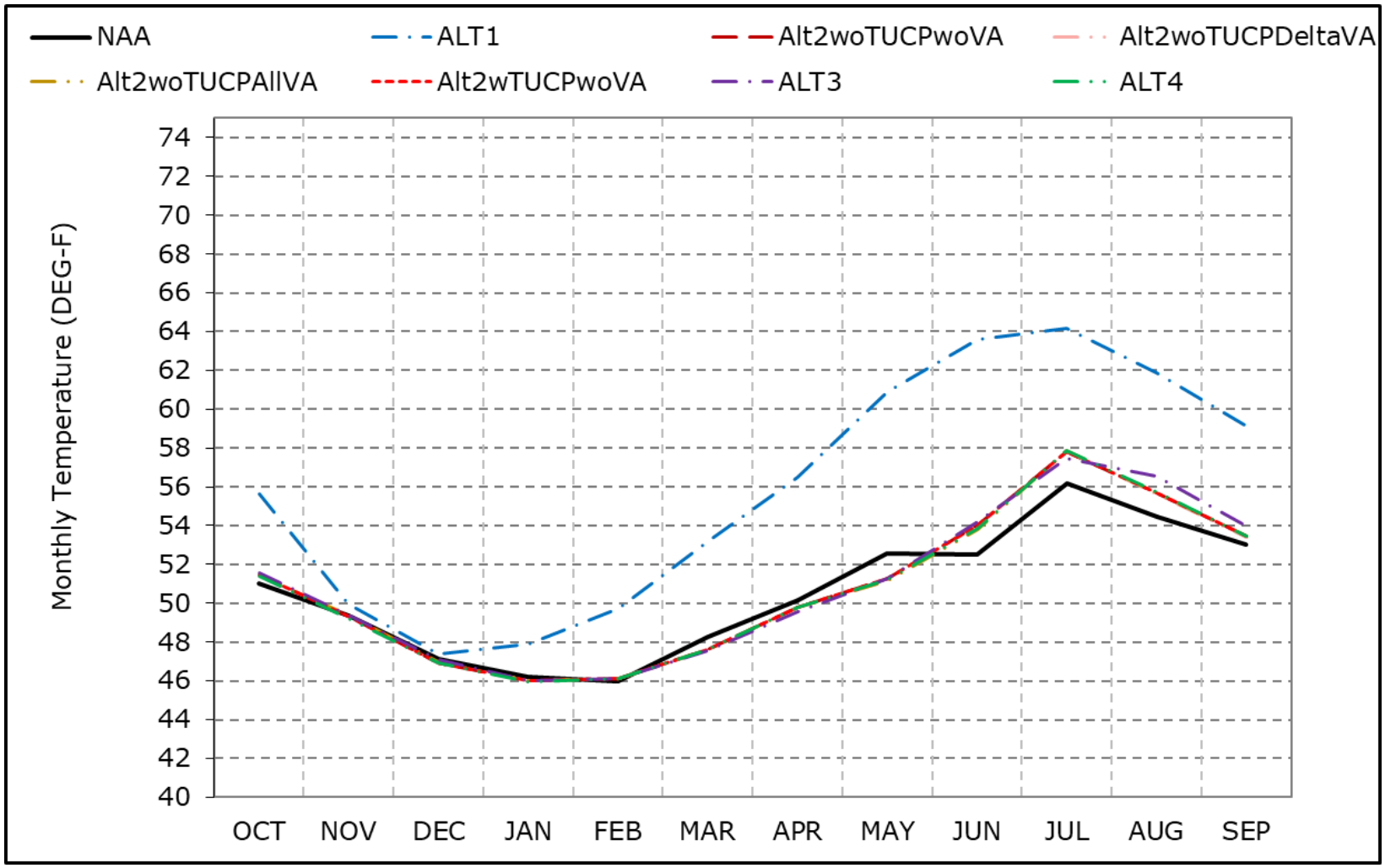
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-1. Clear Creek at Mouth, Long-Term Average Temperature



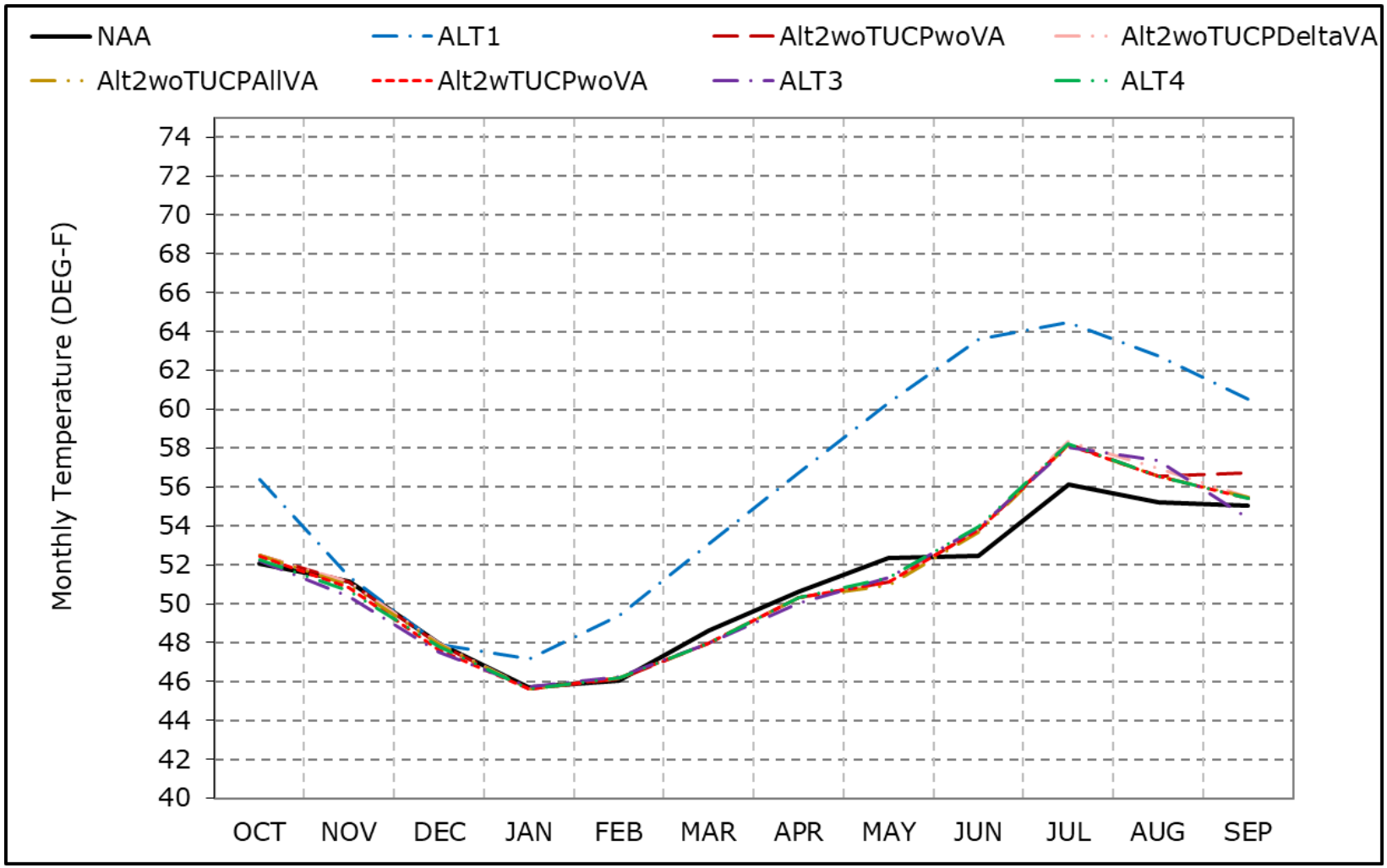
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-2. Clear Creek at Mouth, Wet Year Average Temperature



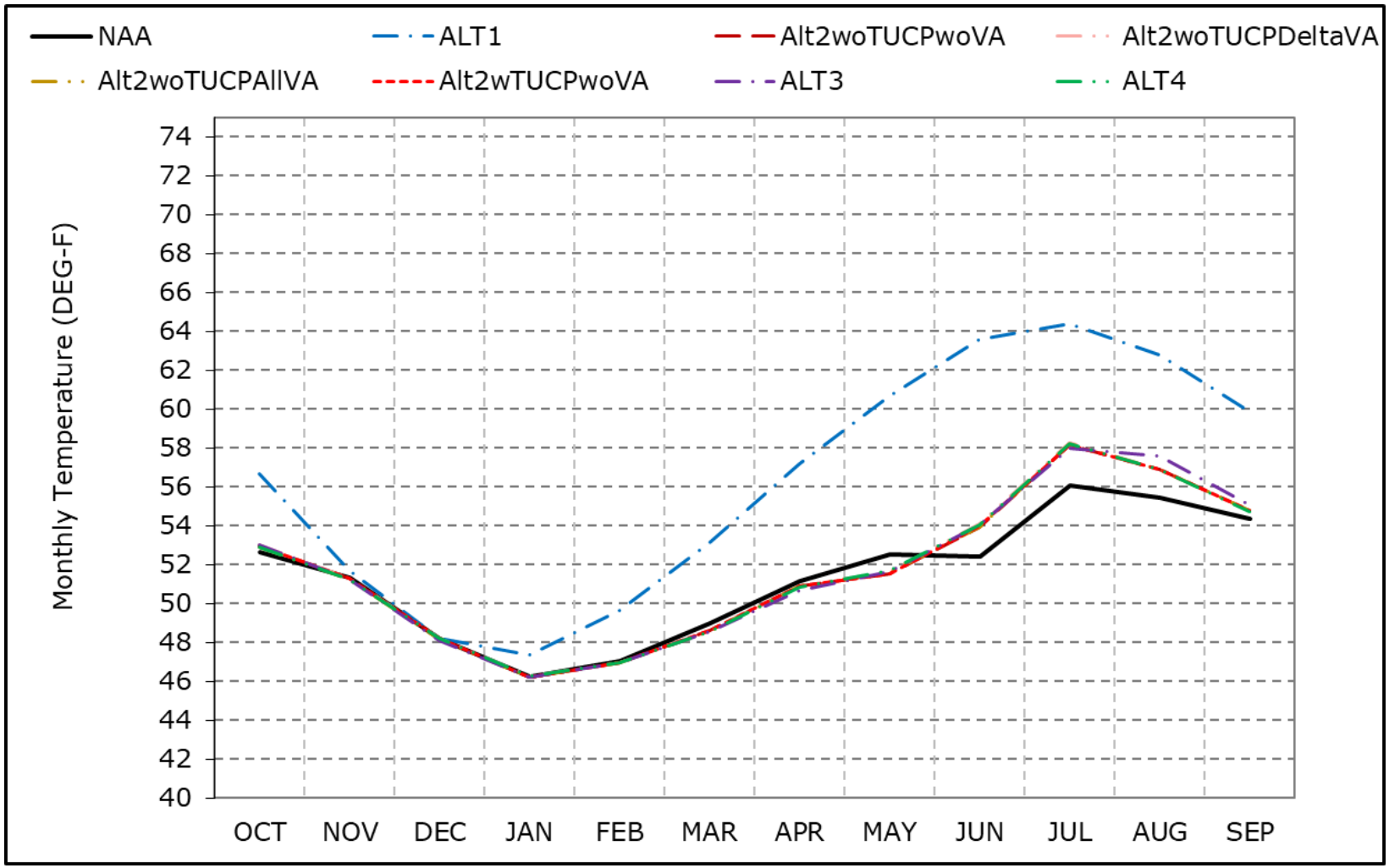
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-3. Clear Creek at Mouth, Above Normal Year Average Temperature



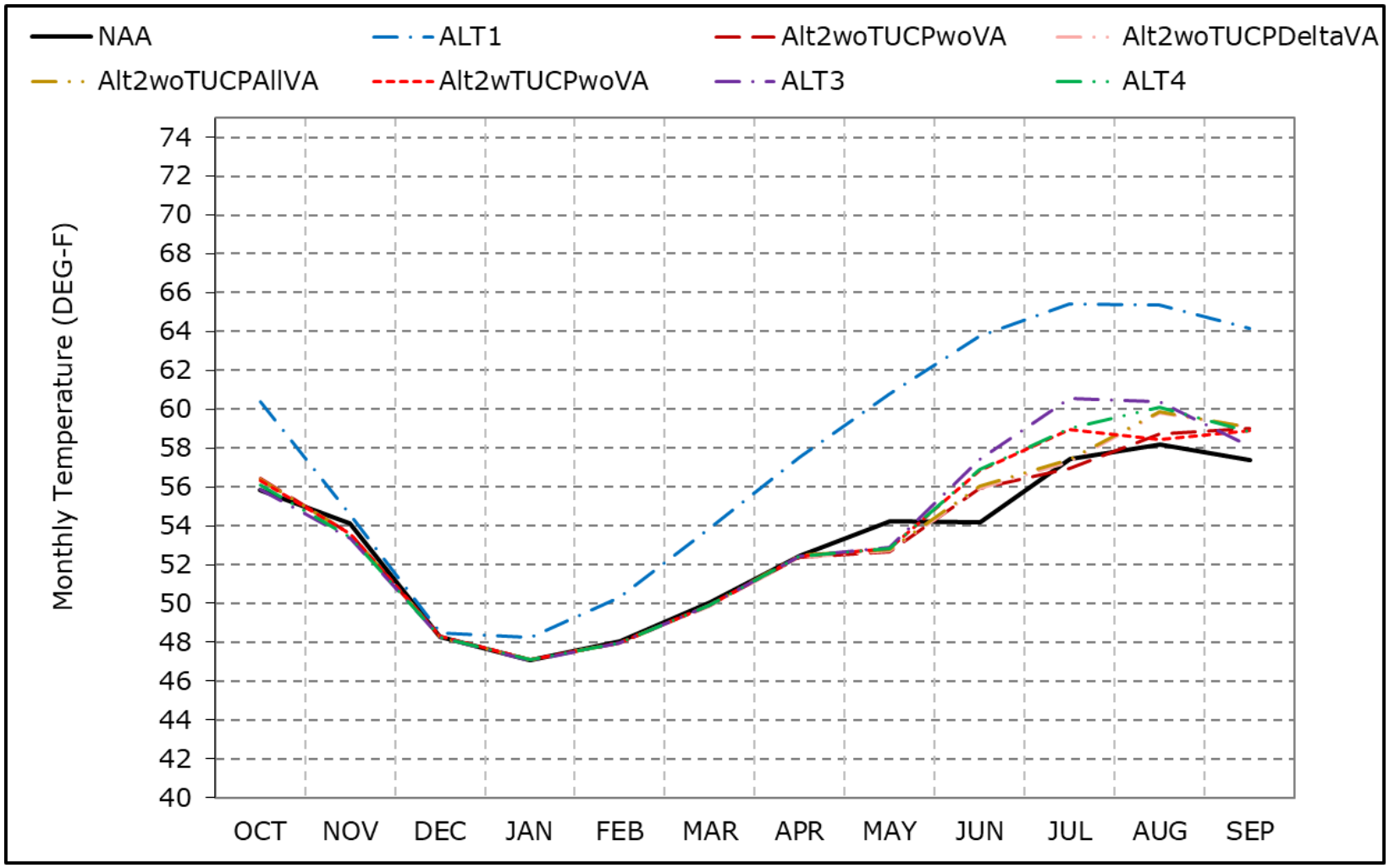
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-4. Clear Creek at Mouth, Below Normal Year Average Temperature



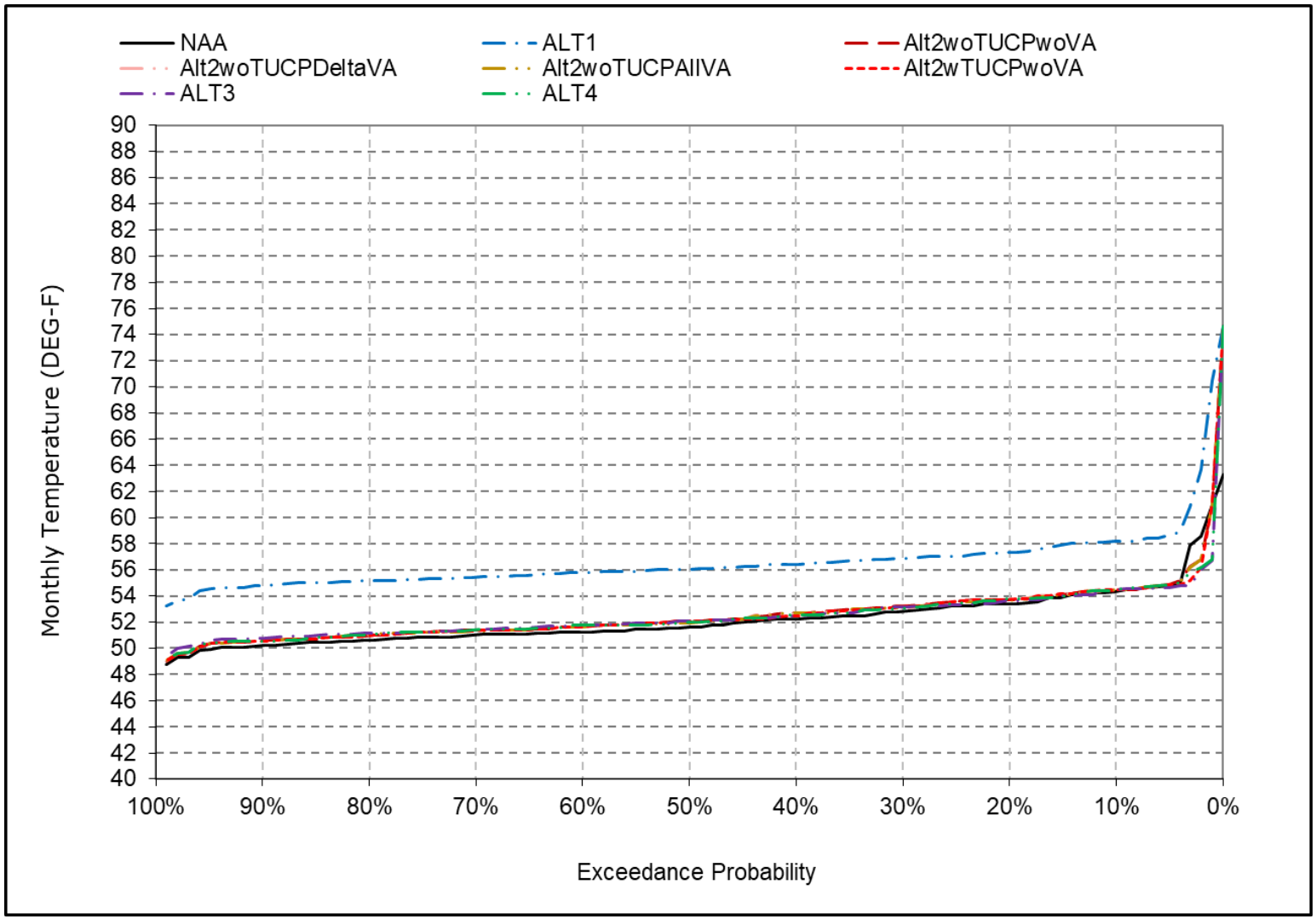
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-5. Clear Creek at Mouth, Dry Year Average Temperature



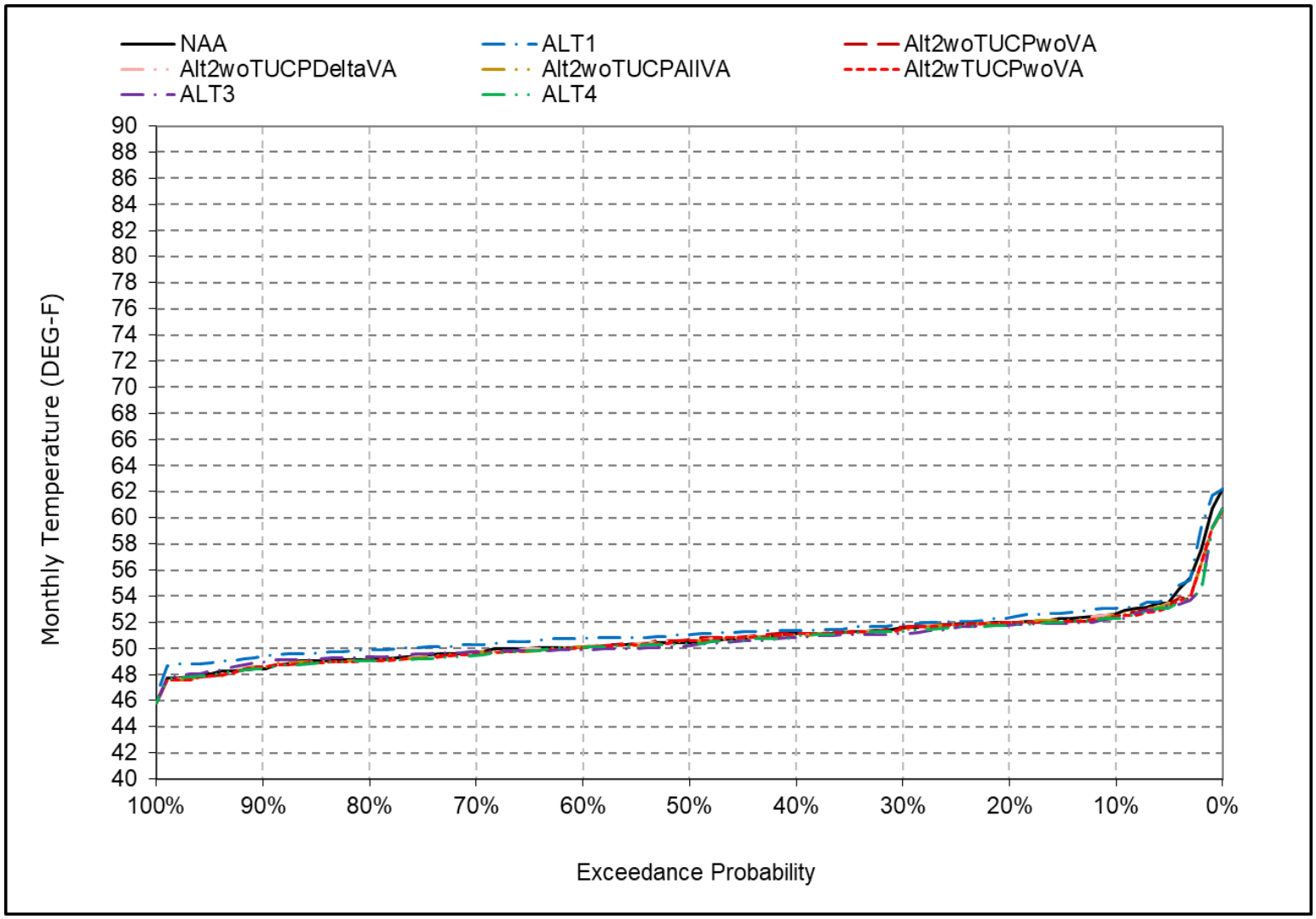
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-6. Clear Creek at Mouth, Critical Year Average Temperature



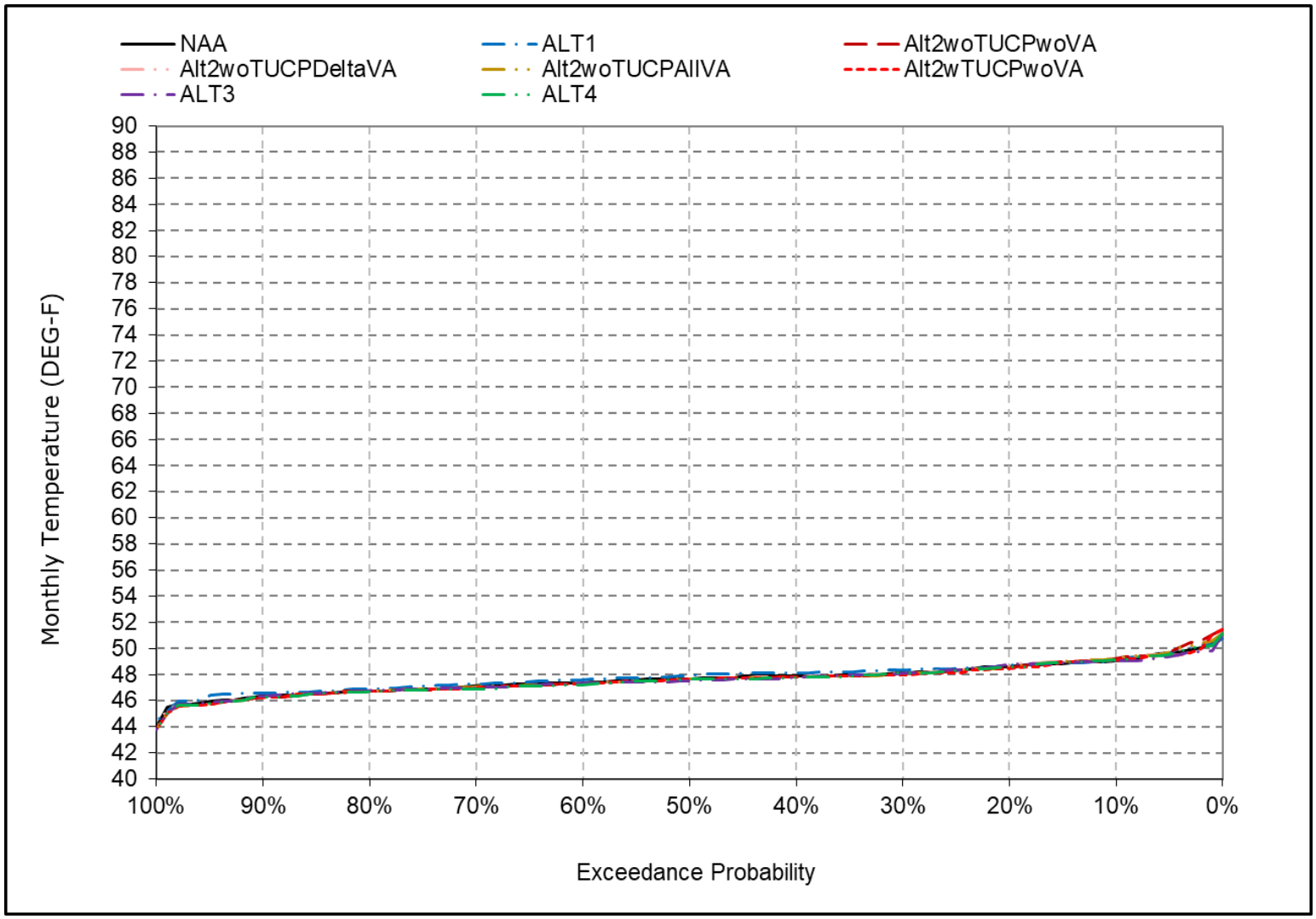
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-7. Clear Creek at Mouth, October



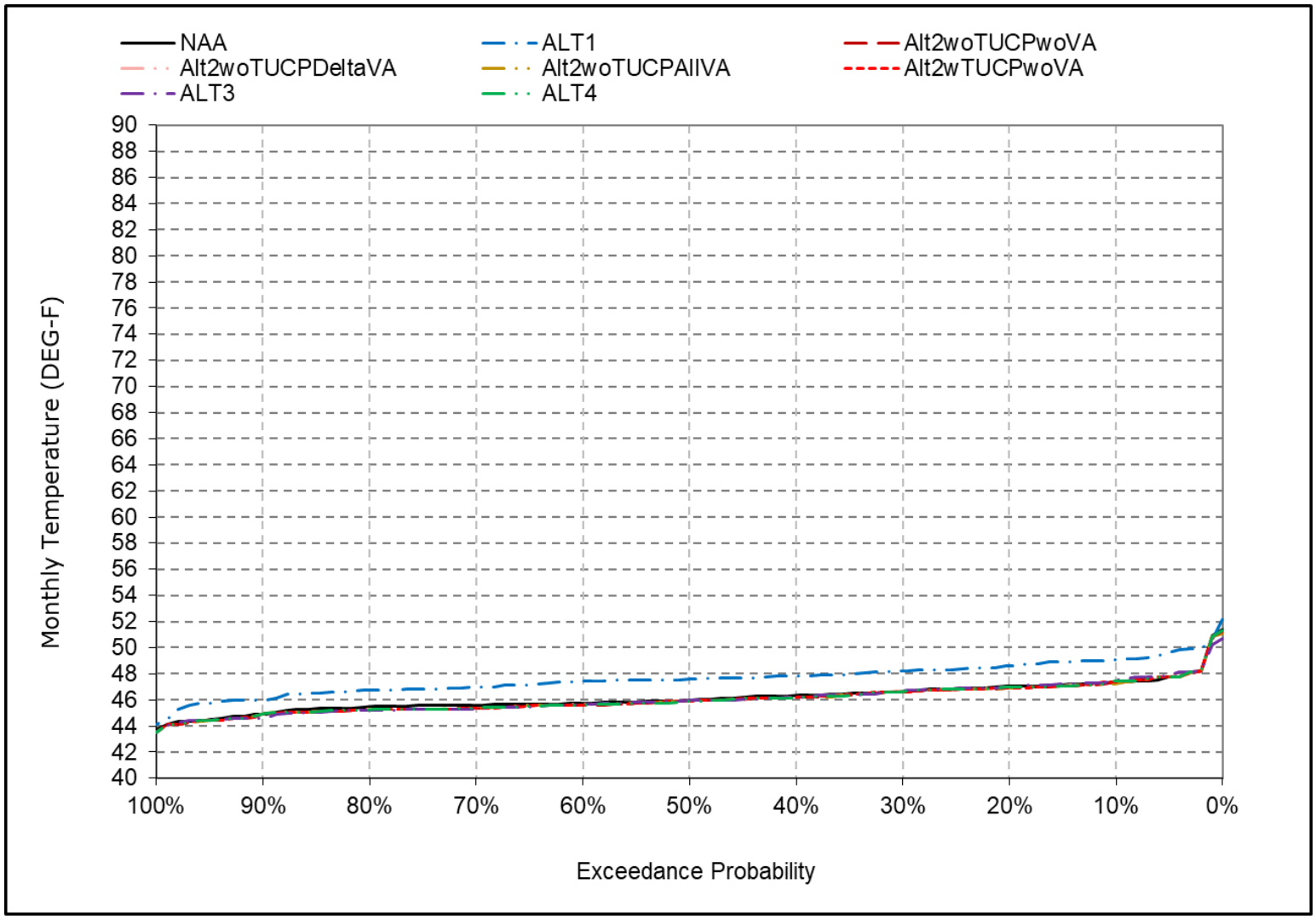
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-8. Clear Creek at Mouth, November



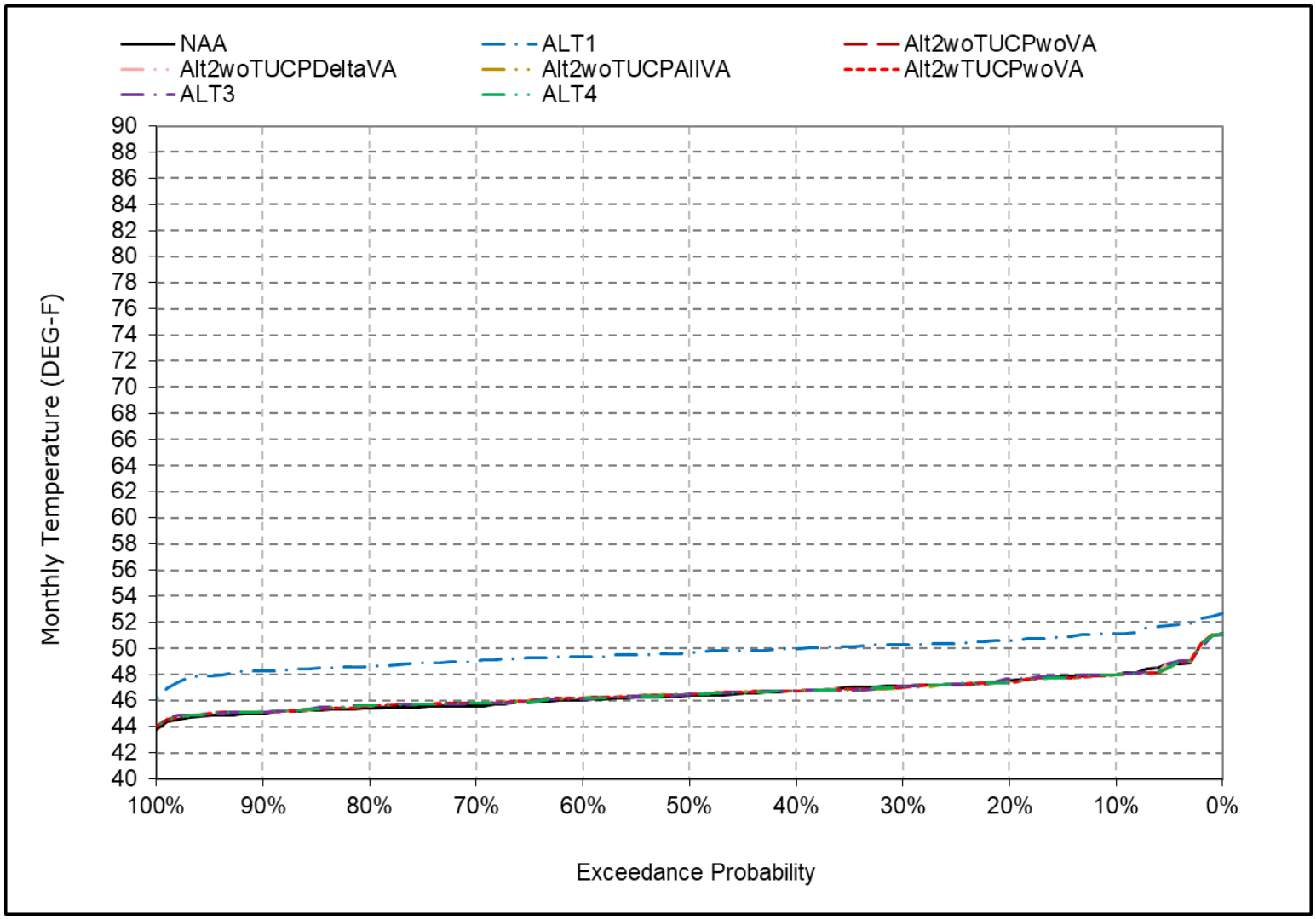
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-9. Clear Creek at Mouth, December



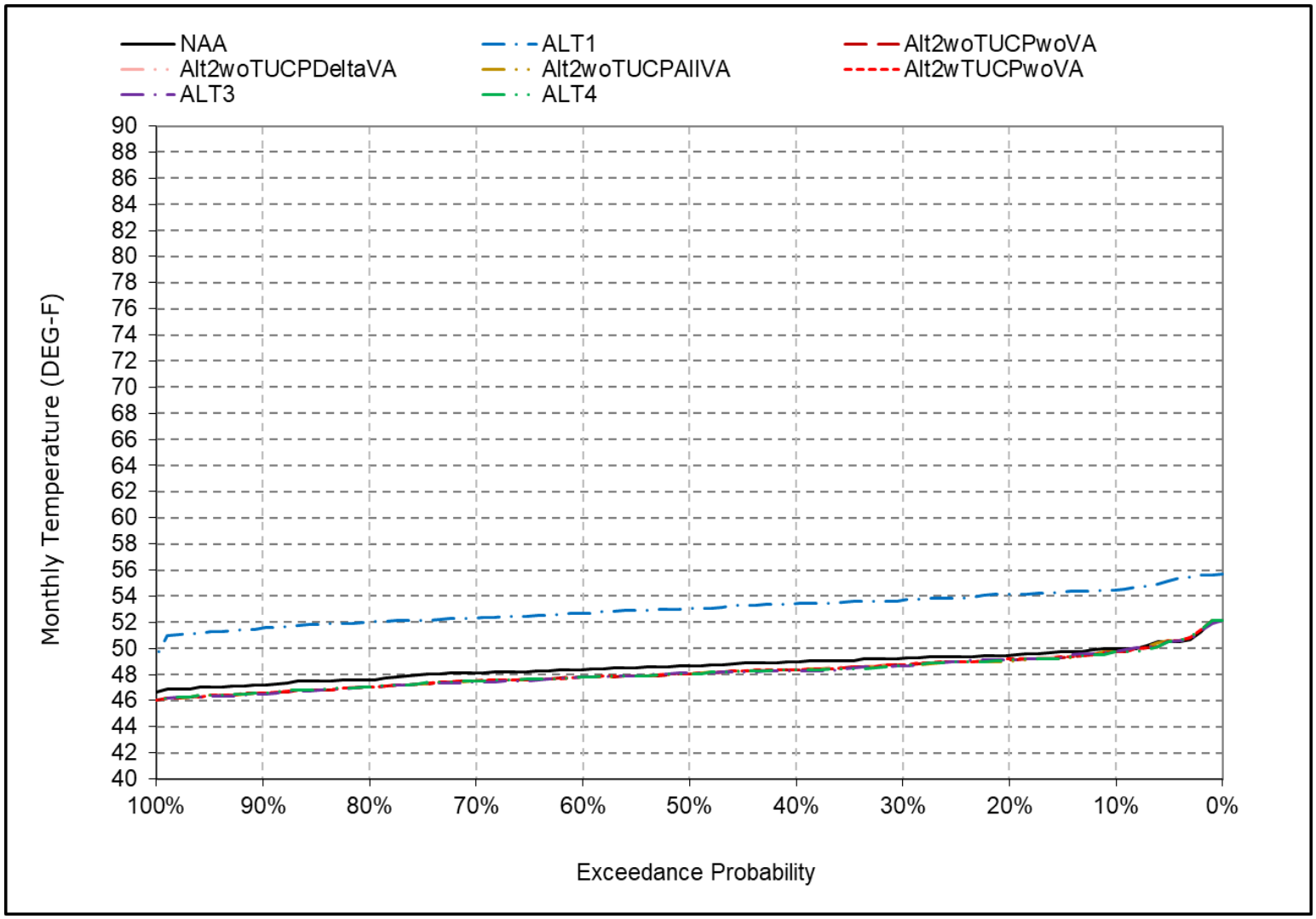
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-10. Clear Creek at Mouth, January



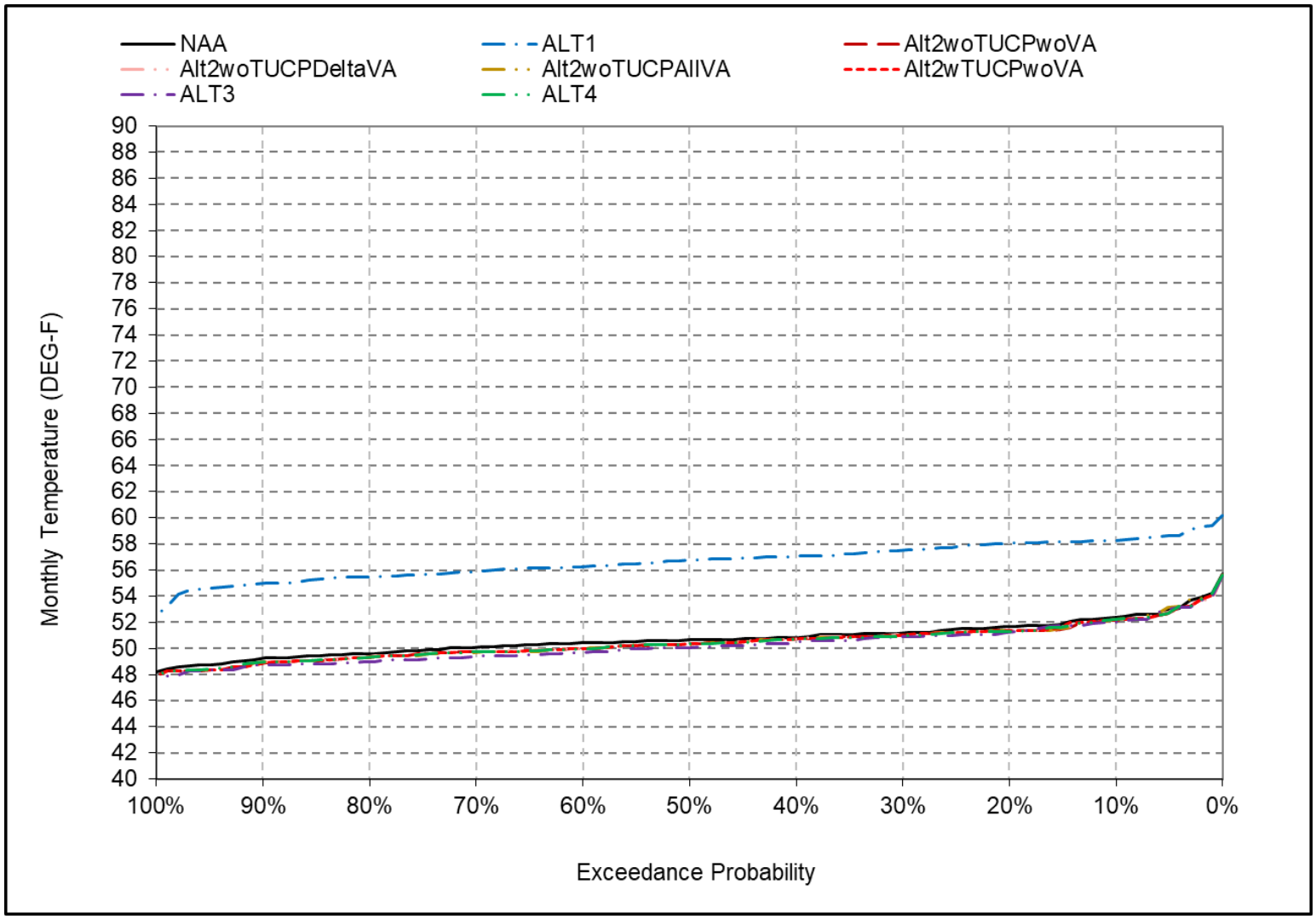
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-11. Clear Creek at Mouth, February



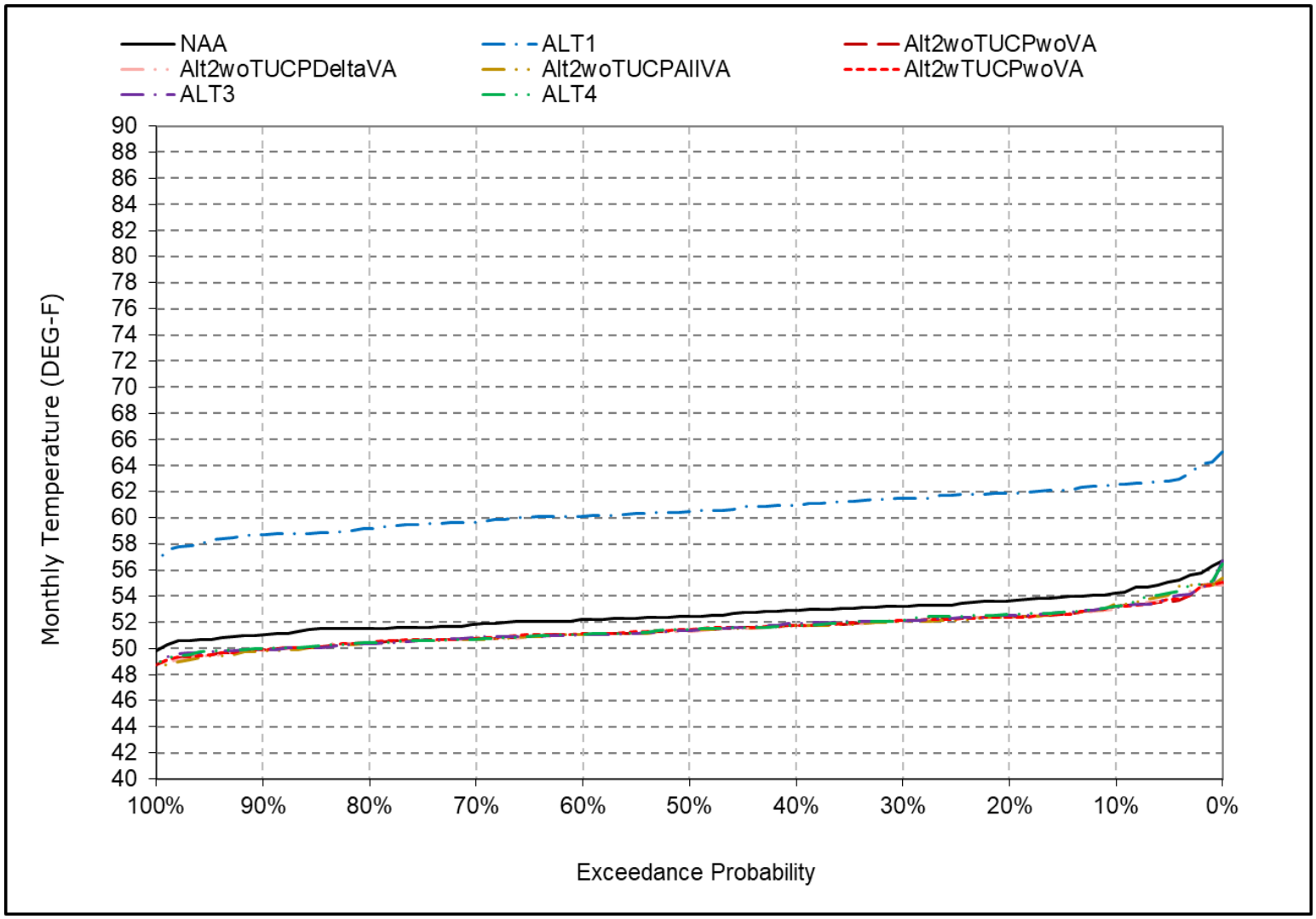
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-12. Clear Creek at Mouth, March



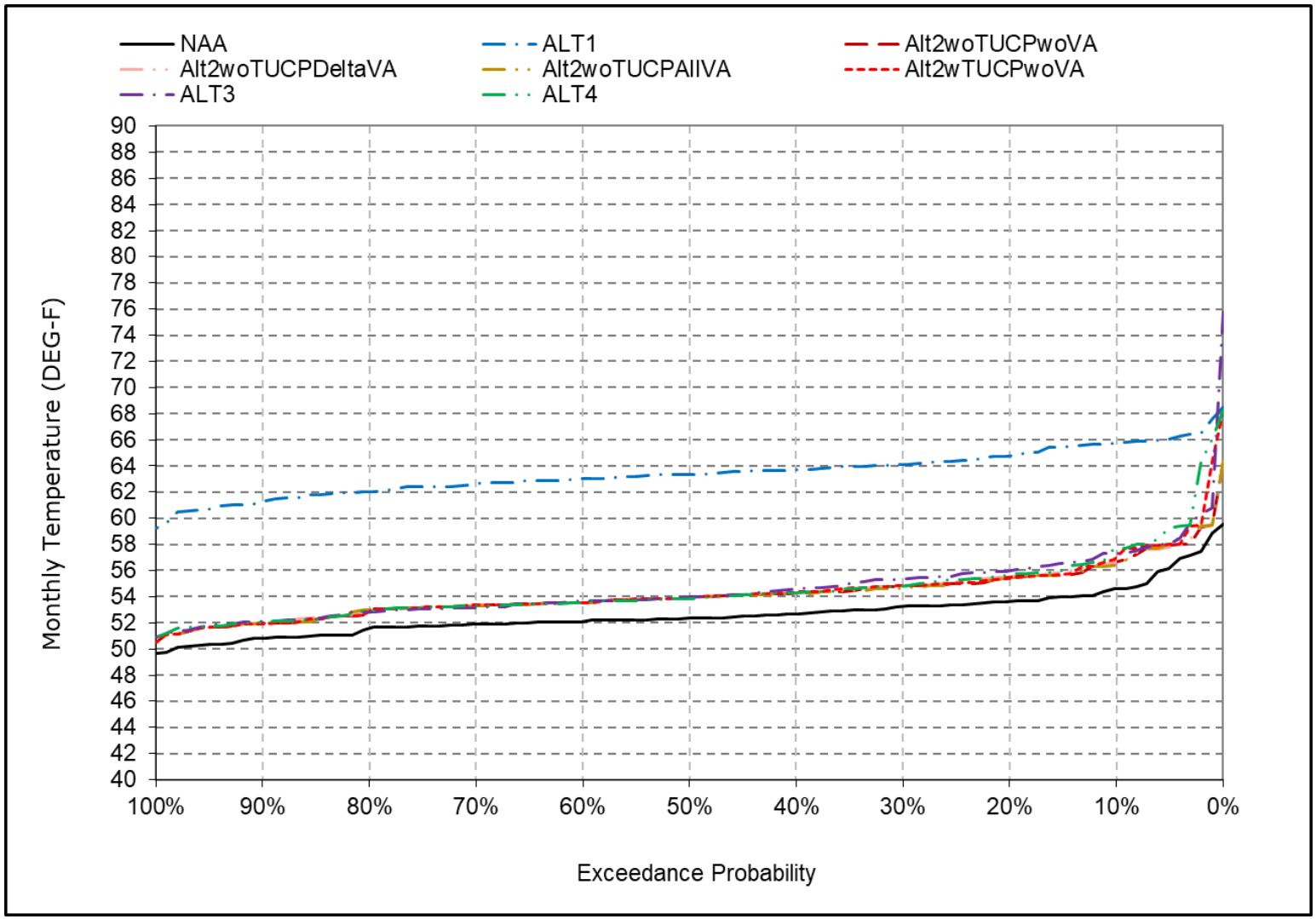
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-13. Clear Creek at Mouth, April



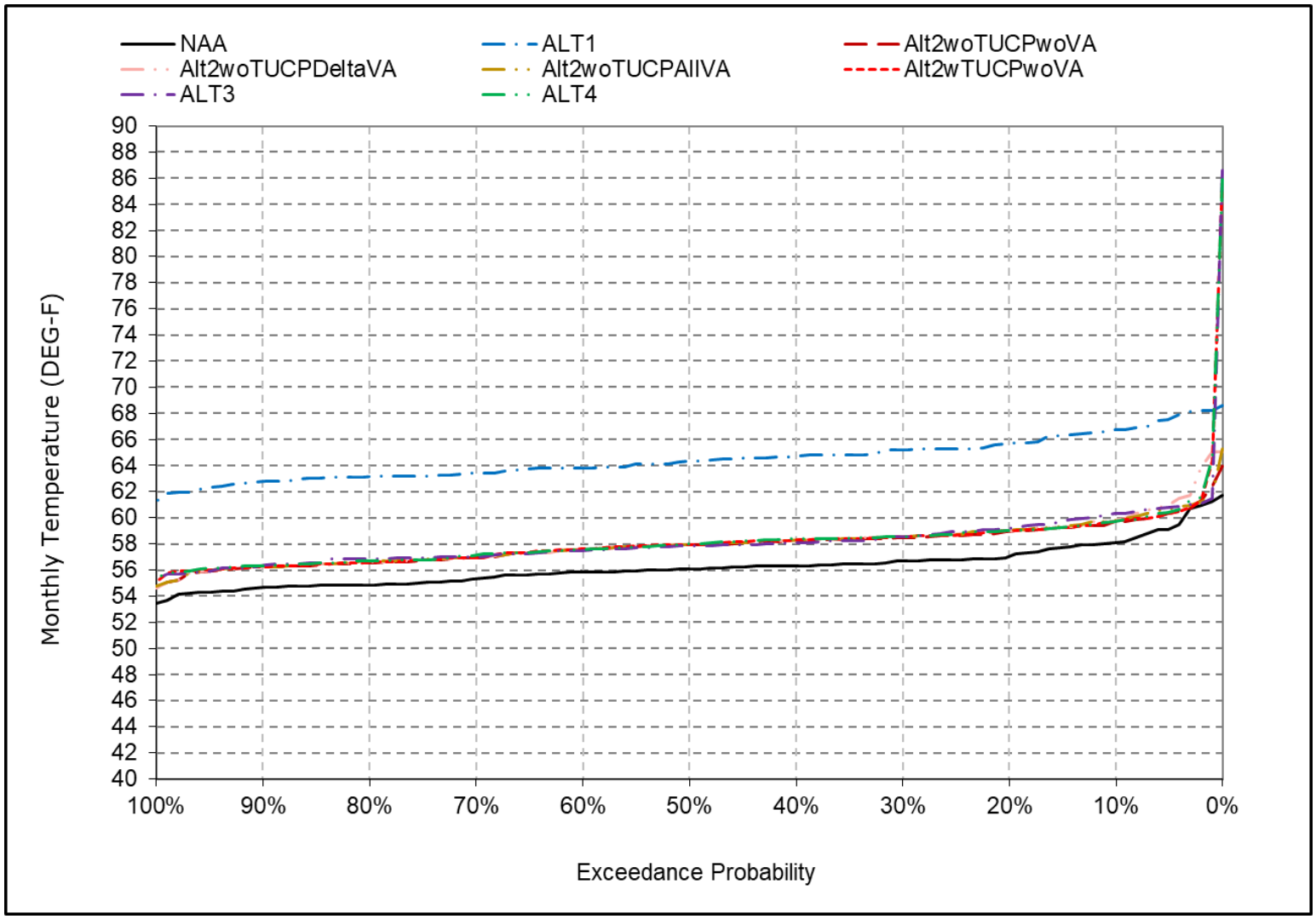
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-14. Clear Creek at Mouth, May



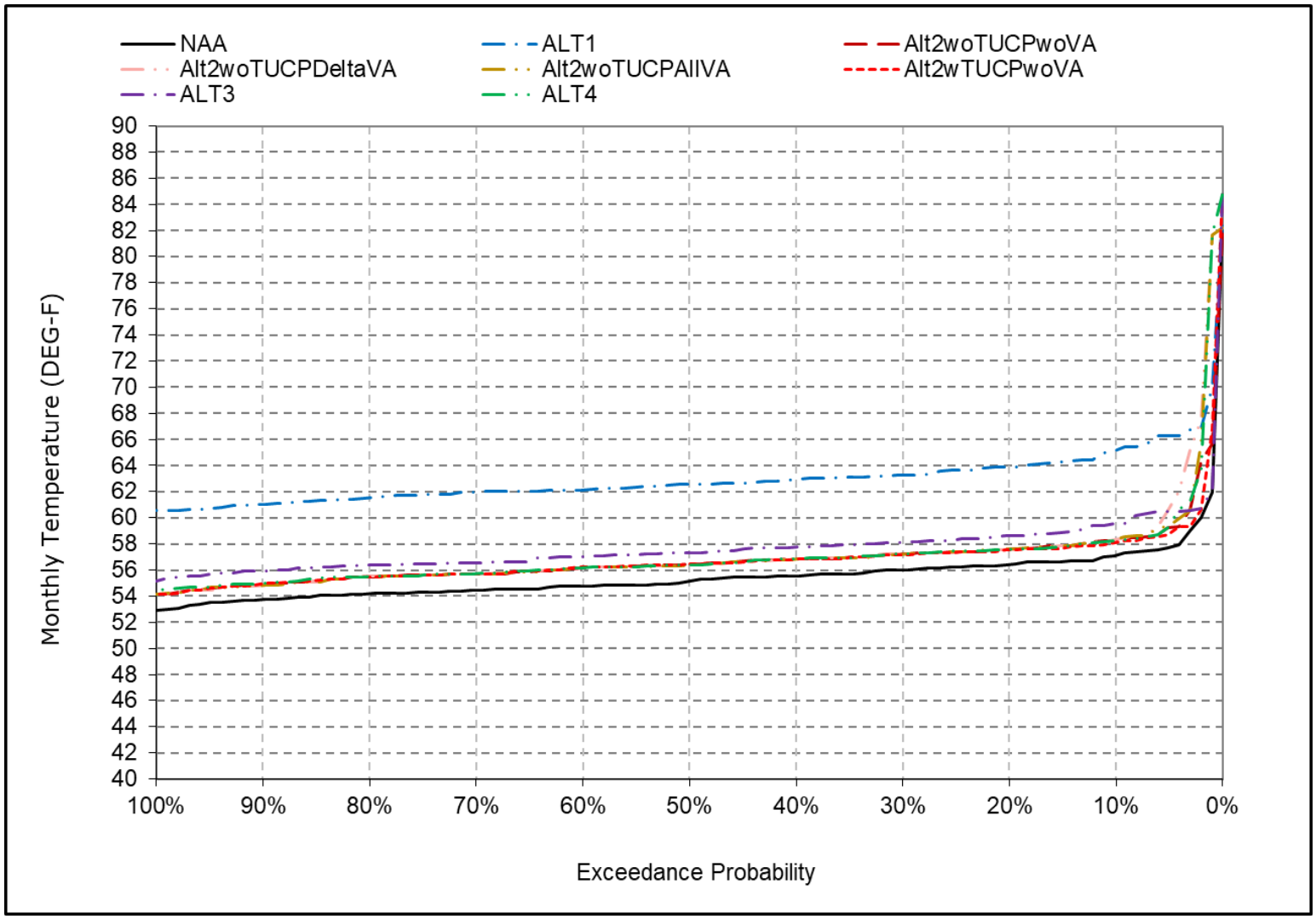
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-15. Clear Creek at Mouth, June



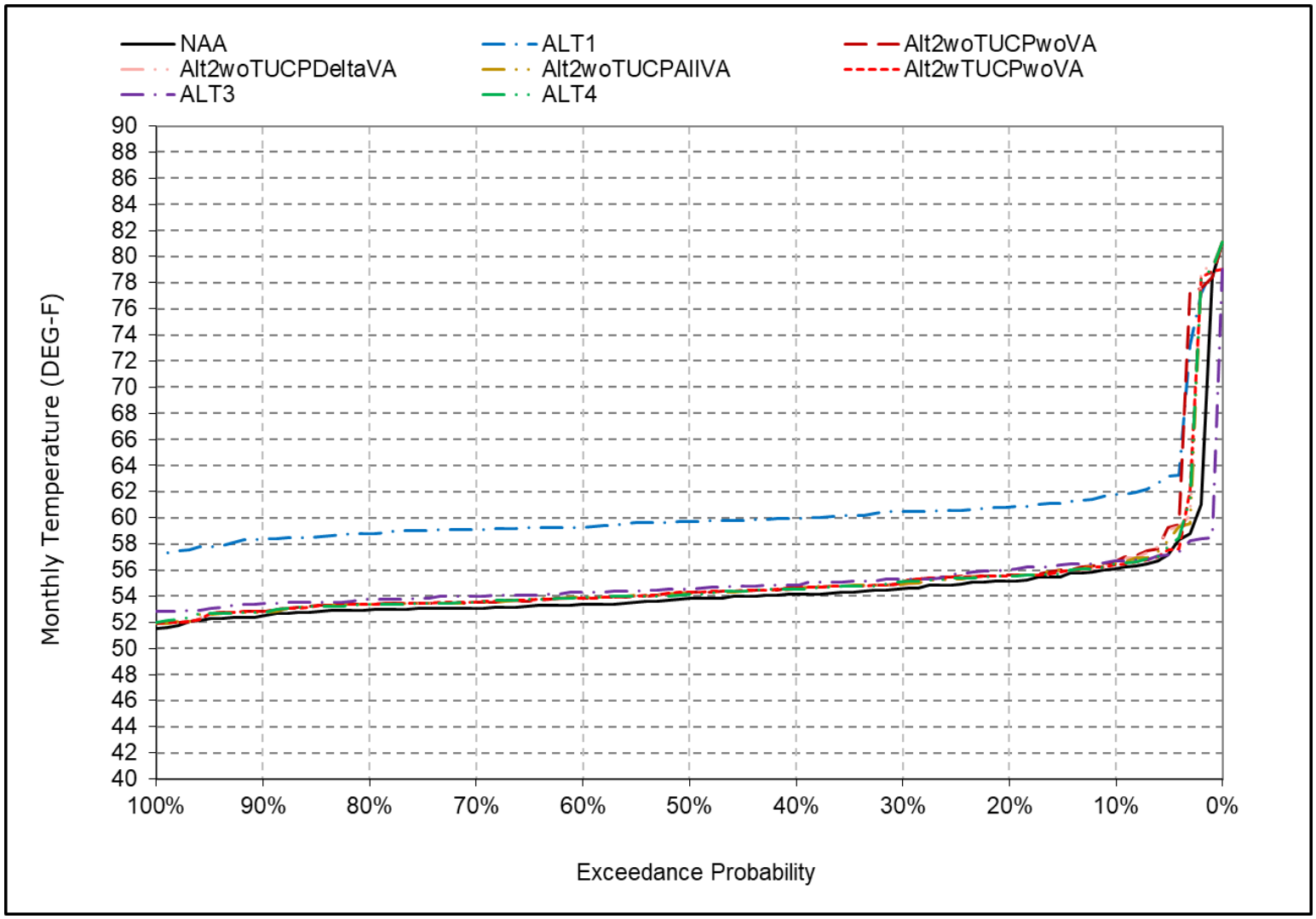
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-16. Clear Creek at Mouth, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-17. Clear Creek at Mouth, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-4-18. Clear Creek at Mouth, September

Table F.2.11-5-1a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-1b. Sacramento River below Keswick, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	56	54	51	50	52	53	53	53	54	54	55
20% Exceedance	54	55	54	50	49	51	53	53	53	53	54	54
30% Exceedance	54	55	53	50	49	51	52	52	52	53	53	53
40% Exceedance	53.8	55.1	52.9	48.9	48.2	50.3	52.0	52.1	52.1	52.4	52.8	53.2
50% Exceedance	53.6	54.9	52.5	48.6	47.9	49.9	51.9	51.9	51.8	52.1	52.6	52.7
60% Exceedance	53.4	54.7	51.7	48.2	47.5	49.5	51.7	51.7	51.3	51.9	52.4	52.3
70% Exceedance	53.3	54.5	51.3	47.4	47.2	48.9	51.5	51.4	51.1	51.5	52.0	52.1
80% Exceedance	53.0	54.2	50.7	46.8	46.6	48.4	51.1	51.1	50.7	51.2	51.6	51.9
90% Exceedance	52.8	53.9	50.0	46.2	45.3	47.7	50.8	50.6	50.2	50.9	51.3	51.6
Full Simulation Period Average[a]	54	55	52	49	48	50	52	52	52	52	53	54
Wet Water Years (28%)	53	54	52	47	47	49	51	51	51	52	52	52
Above Normal Years (14%)	53	54	52	48	47	50	52	51	51	52	52	52
Below Normal Years (18%)	53	55	52	49	48	50	52	52	52	52	53	53
Dry Years (24%)	54	55	52	49	49	50	52	52	52	52	53	53
Critical (16%)	59	56	52	49	49	50	52	53	53	54	57	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-1c. Sacramento River below Keswick, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.4	0.9	-0.5	-0.1	-0.2	-1.7	-2.7	-0.1	-0.1	0.0	0.0
20% Exceedance	0	1	1	0	0	0	-1	-3	0	0	0	0
30% Exceedance	1.3	2.1	1.0	-0.2	0.1	-0.1	-1.3	-2.7	0.2	0.5	1.1	1.0
40% Exceedance	1	2	1	0	0	0	-1	-3	0	0	1	1
50% Exceedance	1	2	1	0	0	0	-1	-3	0	0	0	0
60% Exceedance	1	2	0	0	0	0	-1	-2	-1	0	0	0
70% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
80% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
90% Exceedance	1.2	2.5	-0.2	-0.1	-0.3	0.1	-0.1	-1.7	-1.2	-0.1	-0.4	-0.2
Full Simulation Period Average[a]	0.9	1.8	0.7	-0.2	-0.1	0.0	-0.9	-2.4	-0.4	0.1	0.3	0.2
Wet Water Years (28%)	1.2	2.3	0.8	-0.2	-0.1	-0.1	-0.5	-2.8	-0.8	-0.2	0.0	0.2
Above Normal Years (14%)	0.8	2.2	1.1	-0.1	0.0	-0.1	-1.0	-3.4	-0.7	-0.1	-0.2	-0.2
Below Normal Years (18%)	1.1	2.1	0.6	-0.1	-0.1	-0.1	-1.3	-2.2	-0.1	0.3	0.4	0.4
Dry Years (24%)	0.8	1.8	0.6	-0.3	-0.2	0.2	-1.1	-2.3	-0.2	0.1	0.4	0.3
Critical (16%)	1	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-2a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-2b. Sacramento River below Keswick, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	53	52	50	52	55	55	53	53	53	55
20% Exceedance	54	55	52	51	50	51	54	54	52	52	52	53
30% Exceedance	53	54	52	51	49	51	54	54	52	52	52	52
40% Exceedance	52.3	53.0	52.1	49.7	48.7	50.4	53.3	53.4	51.6	51.8	51.9	52.0
50% Exceedance	52.2	52.8	51.8	49.2	48.2	49.9	52.7	53.1	51.5	51.7	51.7	51.8
60% Exceedance	52.2	52.4	51.6	48.6	47.7	49.6	52.3	52.8	51.4	51.6	51.7	51.7
70% Exceedance	52.0	52.1	51.3	48.1	47.4	49.1	52.0	52.6	51.3	51.4	51.6	51.6
80% Exceedance	51.8	51.9	51.0	47.3	46.9	48.7	51.3	52.5	51.1	51.3	51.5	51.6
90% Exceedance	51.5	51.3	50.6	46.5	45.7	47.8	51.0	51.9	50.9	51.0	51.4	51.4
Full Simulation Period Average[a]	53	53	52	49	48	50	53	53	52	52	53	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	51	51	52	52
Above Normal Years (14%)	52	52	51	49	48	50	53	53	51	52	52	52
Below Normal Years (18%)	53	53	52	49	49	50	53	53	52	52	52	52
Dry Years (24%)	53	53	52	50	49	50	53	53	52	52	52	52
Critical (16%)	59	56	51	50	49	50	52	53	52	53	56	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-2c. Sacramento River below Keswick, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.9	0.5	-0.6	0.5	0.3	0.0	0.2	-1.2	-0.9	-1.4	-1.2	0.2
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-1	-1
30% Exceedance	0.3	0.5	0.0	0.8	0.4	0.2	0.1	-1.3	-0.6	-0.4	-0.4	-0.3
40% Exceedance	0	0	0	1	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.1	0.3	0.2	0.1	0.2	0.2	-0.4	-0.5	0.1	-0.3	-0.4
Full Simulation Period Average[a]	0.1	0.2	0.1	0.4	0.3	0.1	0.0	-1.1	-0.6	-0.4	-0.4	-0.2
Wet Water Years (28%)	-0.3	0.2	0.5	0.3	0.2	0.1	0.1	-1.2	-0.5	-0.4	-0.3	-0.4
Above Normal Years (14%)	0.0	-0.1	0.1	0.4	0.2	0.1	0.2	-1.3	-0.5	-0.2	-0.4	-0.3
Below Normal Years (18%)	0.2	0.4	0.1	0.3	0.2	0.1	0.0	-1.3	-0.5	-0.2	-0.4	-0.4
Dry Years (24%)	0.1	0.2	0.1	0.5	0.3	0.3	0.0	-1.2	-0.5	-0.7	-0.7	-0.5
Critical (16%)	1	0	0	1	0	0	0	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-3a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-3b. Sacramento River below Keswick, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	53	52	50	52	55	55	53	53	54	55
20% Exceedance	54	55	52	51	50	51	54	54	52	52	52	53
30% Exceedance	53	54	52	51	49	51	54	54	52	52	52	52
40% Exceedance	52.4	53.0	52.1	49.8	48.7	50.4	53.3	53.3	51.7	51.8	51.8	52.0
50% Exceedance	52.3	52.8	51.7	49.2	48.2	50.0	52.8	53.1	51.6	51.7	51.7	51.9
60% Exceedance	52.2	52.3	51.5	48.6	47.8	49.6	52.3	52.8	51.4	51.6	51.7	51.7
70% Exceedance	52.0	52.1	51.3	48.1	47.5	49.1	52.0	52.6	51.3	51.4	51.6	51.7
80% Exceedance	51.8	51.7	51.0	47.3	46.9	48.5	51.3	52.5	51.2	51.3	51.5	51.6
90% Exceedance	51.4	51.2	50.5	46.5	45.6	47.6	50.7	51.8	51.0	51.1	51.4	51.4
Full Simulation Period Average[a]	53	53	52	49	48	50	53	53	52	52	53	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	51	51	52	52
Above Normal Years (14%)	52	52	51	49	48	50	53	53	51	52	52	52
Below Normal Years (18%)	53	53	52	49	49	50	53	53	52	52	52	52
Dry Years (24%)	53	53	52	50	49	50	53	53	52	52	52	52
Critical (16%)	59	55	51	50	49	50	52	53	52	53	56	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-3c. Sacramento River below Keswick, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.7	0.4	-0.7	0.5	0.3	0.1	0.2	-1.2	-0.9	-1.4	-0.9	0.2
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-1	-1
30% Exceedance	0.3	0.7	0.0	0.7	0.4	0.2	0.1	-1.4	-0.6	-0.3	-0.4	-0.2
40% Exceedance	0	0	0	1	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	-0.2	0.3	0.2	0.0	0.1	-0.1	-0.5	-0.5	0.1	-0.3	-0.3
Full Simulation Period Average[a]	0.1	0.2	0.1	0.4	0.3	0.1	0.0	-1.1	-0.6	-0.4	-0.3	-0.2
Wet Water Years (28%)	-0.3	0.1	0.4	0.3	0.2	0.1	0.1	-1.2	-0.5	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.1	0.4	0.3	0.1	0.2	-1.3	-0.5	-0.2	-0.4	-0.3
Below Normal Years (18%)	0.4	0.4	0.0	0.4	0.3	0.1	0.0	-1.3	-0.5	-0.2	-0.4	-0.5
Dry Years (24%)	0.2	0.2	0.1	0.6	0.3	0.3	0.0	-1.3	-0.4	-0.6	-0.7	-0.4
Critical (16%)	0	0	0	1	0	0	0	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-4a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-4b. Sacramento River below Keswick, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	55	53	52	50	52	55	55	53	53	54	55
20% Exceedance	53	55	52	51	50	51	54	54	52	52	52	53
30% Exceedance	53	54	52	50	49	51	54	54	52	52	52	52
40% Exceedance	52.4	53.0	52.1	49.5	48.7	50.4	53.2	53.3	51.6	51.7	51.8	52.0
50% Exceedance	52.2	52.7	51.8	49.2	48.2	50.0	52.7	53.1	51.5	51.7	51.7	51.9
60% Exceedance	52.1	52.4	51.6	48.6	47.8	49.7	52.3	52.8	51.4	51.6	51.7	51.7
70% Exceedance	52.0	52.0	51.3	48.1	47.4	49.2	52.0	52.7	51.3	51.5	51.6	51.6
80% Exceedance	51.8	51.7	51.0	47.3	46.8	48.6	51.5	52.4	51.2	51.3	51.5	51.6
90% Exceedance	51.5	51.1	50.5	46.4	45.6	47.7	50.9	51.9	51.0	51.0	51.4	51.4
Full Simulation Period Average[a]	53	53	52	49	48	50	53	53	52	52	53	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	51	51	52	52
Above Normal Years (14%)	52	52	51	49	47	50	53	53	51	52	52	52
Below Normal Years (18%)	52	53	52	49	49	51	53	53	52	52	52	52
Dry Years (24%)	53	53	52	50	49	51	54	53	52	52	52	52
Critical (16%)	59	56	51	50	49	50	52	53	52	53	56	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-4c. Sacramento River below Keswick, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2.5	0.3	-0.6	0.4	0.2	0.0	-0.1	-1.2	-0.9	-1.4	-0.9	0.6
20% Exceedance	-1	1	0	1	0	0	0	-1	-1	-1	-1	-1
30% Exceedance	0.1	0.4	0.0	0.6	0.4	0.3	0.0	-1.4	-0.6	-0.4	-0.4	-0.3
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.3	0.3	0.1	0.1	0.1	0.1	-0.4	-0.5	0.1	-0.4	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.4	0.3	0.2	0.0	-1.1	-0.6	-0.4	-0.3	-0.1
Wet Water Years (28%)	-0.3	0.1	0.5	0.3	0.2	0.1	0.1	-1.2	-0.5	-0.4	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.2	0.4	0.2	0.0	0.2	-1.2	-0.6	-0.2	-0.4	-0.2
Below Normal Years (18%)	0.1	0.3	0.0	0.3	0.3	0.1	-0.1	-1.3	-0.6	-0.1	-0.4	-0.4
Dry Years (24%)	0.0	0.1	0.1	0.5	0.3	0.4	0.1	-1.2	-0.5	-0.6	-0.7	-0.5
Critical (16%)	1	0	0	1	0	0	0	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-5a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-5b. Sacramento River below Keswick, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	56	53	52	50	52	55	54	53	53	53	54
20% Exceedance	54	55	52	51	50	51	54	54	52	52	52	53
30% Exceedance	53	54	52	51	49	51	54	54	52	52	52	52
40% Exceedance	52.4	53.0	52.1	49.7	48.8	50.5	53.2	53.3	51.7	51.7	51.9	52.0
50% Exceedance	52.2	52.6	51.8	49.2	48.3	50.1	52.7	53.1	51.5	51.6	51.7	51.8
60% Exceedance	52.1	52.4	51.7	48.6	47.8	49.8	52.2	52.8	51.4	51.6	51.7	51.7
70% Exceedance	52.0	52.0	51.5	48.2	47.5	49.3	52.0	52.7	51.3	51.4	51.6	51.6
80% Exceedance	51.8	51.8	51.2	47.5	47.1	48.9	51.4	52.4	51.2	51.3	51.5	51.6
90% Exceedance	51.5	51.2	50.7	47.1	46.2	48.0	51.0	51.9	51.0	51.0	51.4	51.4
Full Simulation Period Average[a]	53	53	52	49	48	50	53	53	52	52	52	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	51	51	52	52
Above Normal Years (14%)	52	52	51	49	48	50	53	53	51	52	52	52
Below Normal Years (18%)	52	53	52	49	49	51	53	53	52	52	52	52
Dry Years (24%)	53	53	52	50	49	51	53	53	52	52	52	52
Critical (16%)	58	56	52	50	50	51	52	53	53	53	54	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-5c. Sacramento River below Keswick, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.0	0.5	-0.6	0.5	0.4	0.1	0.2	-1.5	-1.0	-1.4	-1.5	-0.3
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-1	-1
30% Exceedance	0.3	0.5	0.0	0.8	0.5	0.2	0.1	-1.4	-0.6	-0.4	-0.4	-0.4
40% Exceedance	0	0	0	1	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	1	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.2	0.4	0.8	0.7	0.4	0.2	-0.4	-0.5	0.1	-0.3	-0.4
Full Simulation Period Average[a]	-0.1	0.2	0.2	0.5	0.4	0.3	0.0	-1.2	-0.6	-0.5	-0.8	-0.7
Wet Water Years (28%)	-0.3	0.1	0.5	0.3	0.2	0.1	0.1	-1.2	-0.5	-0.3	-0.4	-0.3
Above Normal Years (14%)	0.0	-0.1	0.1	0.4	0.3	0.3	0.2	-1.3	-0.5	-0.2	-0.4	-0.3
Below Normal Years (18%)	0.0	0.2	0.0	0.6	0.5	0.3	-0.1	-1.3	-0.6	-0.2	-0.5	-0.5
Dry Years (24%)	0.1	0.1	0.1	0.5	0.3	0.4	0.1	-1.2	-0.5	-0.7	-0.7	-0.4
Critical (16%)	0	0	0	1	1	0	0	-1	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-6a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-6b. Sacramento River below Keswick, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	56	53	52	51	52	54	54	53	53	53	54
20% Exceedance	53	54	53	51	50	51	54	54	52	52	52	53
30% Exceedance	53	53	52	50	49	51	53	53	52	52	52	52
40% Exceedance	52.4	52.9	52.1	49.9	48.9	50.7	52.9	53.2	51.9	52.0	52.1	52.2
50% Exceedance	52.3	52.8	51.8	49.1	48.4	50.3	52.5	53.0	51.9	51.9	52.0	52.1
60% Exceedance	52.2	52.6	51.6	48.5	47.7	49.9	52.0	52.8	51.8	51.8	52.0	52.0
70% Exceedance	52.0	52.4	51.3	48.1	47.4	49.4	51.8	52.6	51.7	51.7	51.9	51.9
80% Exceedance	51.9	52.2	50.9	47.6	47.0	48.9	51.6	52.1	51.5	51.6	51.8	51.8
90% Exceedance	51.6	51.4	50.5	46.9	46.1	47.9	51.2	51.5	51.4	51.4	51.7	51.7
Full Simulation Period Average[a]	53	53	52	49	48	50	53	53	52	52	52	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	52	52	52	52
Above Normal Years (14%)	52	52	51	49	47	50	53	53	52	52	52	52
Below Normal Years (18%)	52	53	52	49	49	51	53	53	52	52	52	52
Dry Years (24%)	53	53	52	50	49	51	53	53	52	52	52	52
Critical (16%)	57	56	52	51	50	51	52	52	52	53	54	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-6c. Sacramento River below Keswick, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.0	0.7	-0.3	0.2	0.5	0.4	-1.0	-2.0	-1.0	-1.5	-1.5	-0.3
20% Exceedance	-1	0	0	1	0	1	0	-2	-1	-1	-1	-1
30% Exceedance	0.1	0.1	0.2	0.5	0.4	0.3	-0.2	-1.5	-0.3	-0.2	-0.3	-0.1
40% Exceedance	0	0	0	1	0	0	0	-2	0	0	0	0
50% Exceedance	0	0	0	0	0	1	0	-2	0	0	0	0
60% Exceedance	0	0	0	0	0	1	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	1	0	1	0	-1	0	0	0	0
90% Exceedance	0.0	0.0	0.3	0.6	0.6	0.4	0.3	-0.8	0.0	0.4	-0.1	0.0
Full Simulation Period Average[a]	-0.2	0.2	0.2	0.4	0.3	0.4	-0.3	-1.4	-0.3	-0.3	-0.6	-0.6
Wet Water Years (28%)	-0.1	0.1	0.2	0.1	0.1	0.0	0.0	-1.1	0.0	-0.1	0.0	0.0
Above Normal Years (14%)	0.0	0.2	0.2	0.1	0.1	0.1	-0.1	-1.4	0.0	0.0	-0.1	0.0
Below Normal Years (18%)	-0.2	0.0	-0.1	0.6	0.5	0.4	-0.2	-1.2	-0.4	0.0	-0.4	-0.4
Dry Years (24%)	0.1	0.2	0.0	0.4	0.2	0.8	-0.3	-2.0	-0.3	-0.5	-0.5	-0.3
Critical (16%)	-1	0	1	1	1	1	-1	-1	-1	-1	-2	-3

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-7a. Sacramento River below Keswick, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54.9	55.2	53.2	51.5	50.0	51.8	55.0	55.8	53.5	54.3	54.4	54.5
20% Exceedance	54.1	54.0	52.6	50.6	49.5	50.9	54.1	55.2	53.0	53.0	53.8	54.2
30% Exceedance	52.6	53.2	52.3	49.8	49.0	50.7	53.5	55.0	52.3	52.3	52.4	52.5
40% Exceedance	52.4	52.8	51.8	49.2	48.5	50.2	53.1	54.8	52.1	52.1	52.1	52.3
50% Exceedance	52	53	52	49	48	50	53	54	52	52	52	52
60% Exceedance	52	53	51	48	48	49	52	54	52	52	52	52
70% Exceedance	52	52	51	48	47	49	52	54	52	52	52	52
80% Exceedance	52	52	51	47	47	48	51	53	52	52	52	52
90% Exceedance	52	51	50	46	46	48	51	52	51	51	52	52
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	51	48	47	49	52	54	52	52	52	52
Above Normal Years (14%)	52	52	51	48	47	50	53	54	52	52	52	52
Below Normal Years (18%)	52	53	52	49	48	50	53	54	52	52	52	52
Dry Years (24%)	52.8	53.0	51.8	49.8	48.9	50.1	53.4	54.5	52.1	52.4	52.7	52.7
Critical (16%)	58	55	52	49	49	50	53	54	54	54	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-7b. Sacramento River below Keswick, Alternative 4, Monthly Temperature (°F)

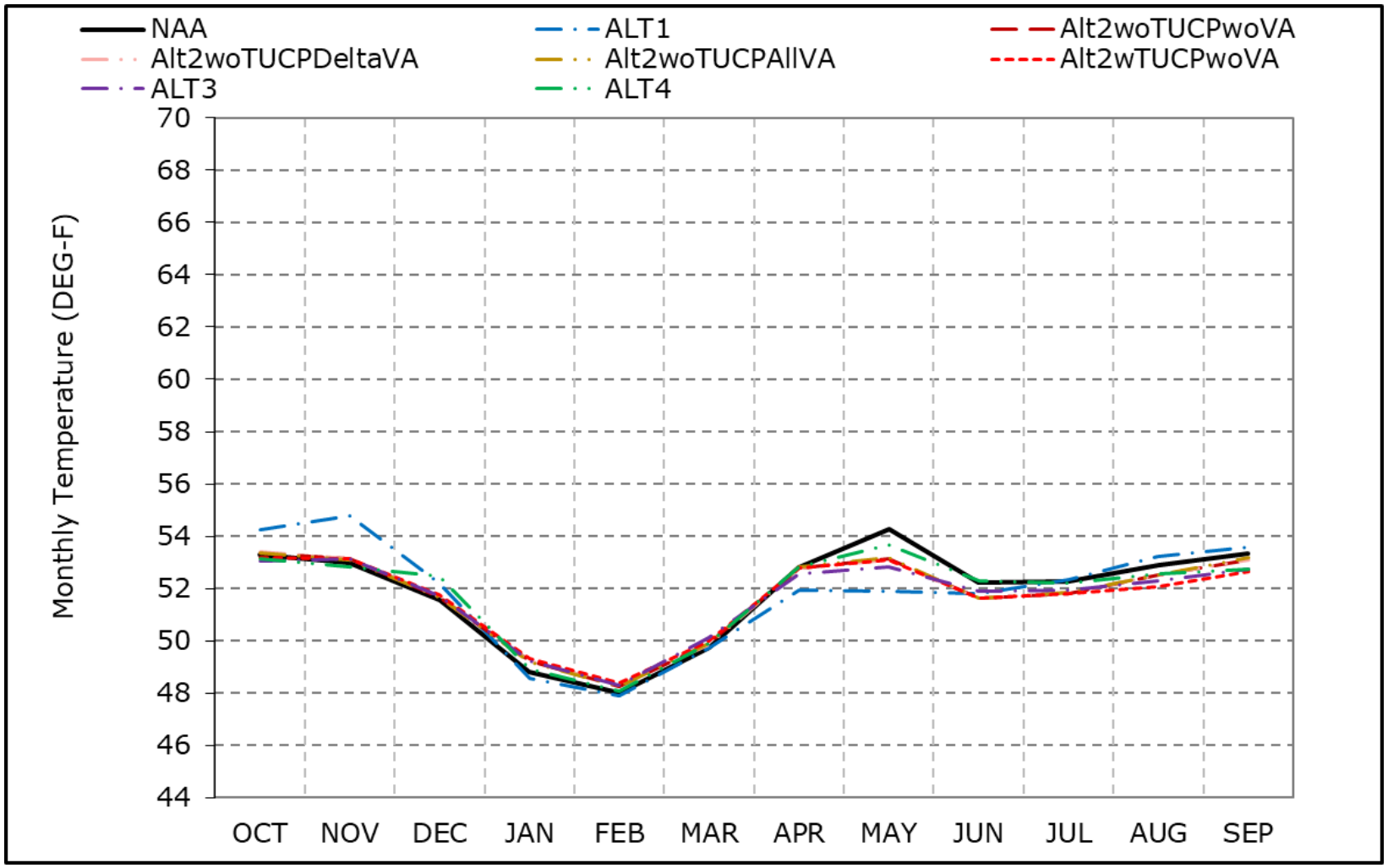
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	52	50	52	55	55	54	54	54	54
20% Exceedance	54	54	54	51	50	51	54	55	53	53	53	53
30% Exceedance	53	53	54	50	49	51	54	54	53	52	52	52
40% Exceedance	52.4	52.8	53.0	49.4	48.4	50.4	53.2	53.9	52.1	52.1	52.2	52.2
50% Exceedance	52.3	52.6	52.4	48.8	48.0	50.2	52.7	53.5	51.9	52.0	52.1	52.1
60% Exceedance	52.2	52.5	52.2	48.3	47.5	49.5	52.3	53.3	51.8	51.9	52.0	52.0
70% Exceedance	52.1	52.0	51.8	47.8	47.3	49.0	52.0	53.0	51.7	51.8	51.9	51.9
80% Exceedance	52.0	51.6	51.1	47.2	46.8	48.6	51.5	52.7	51.6	51.6	51.9	51.8
90% Exceedance	51.8	51.2	50.5	46.7	45.8	47.6	50.9	52.2	51.4	51.1	51.8	51.7
Full Simulation Period Average[a]	53	53	52	49	48	50	53	54	52	52	53	53
Wet Water Years (28%)	52	52	52	48	47	49	52	53	52	52	52	52
Above Normal Years (14%)	52	52	52	49	47	50	53	53	52	52	52	52
Below Normal Years (18%)	52	52	52	49	49	51	53	54	52	52	52	52
Dry Years (24%)	53	53	53	50	49	50	53	54	52	52	52	52
Critical (16%)	57	55	53	50	49	51	53	54	54	54	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-5-7c. Sacramento River below Keswick, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

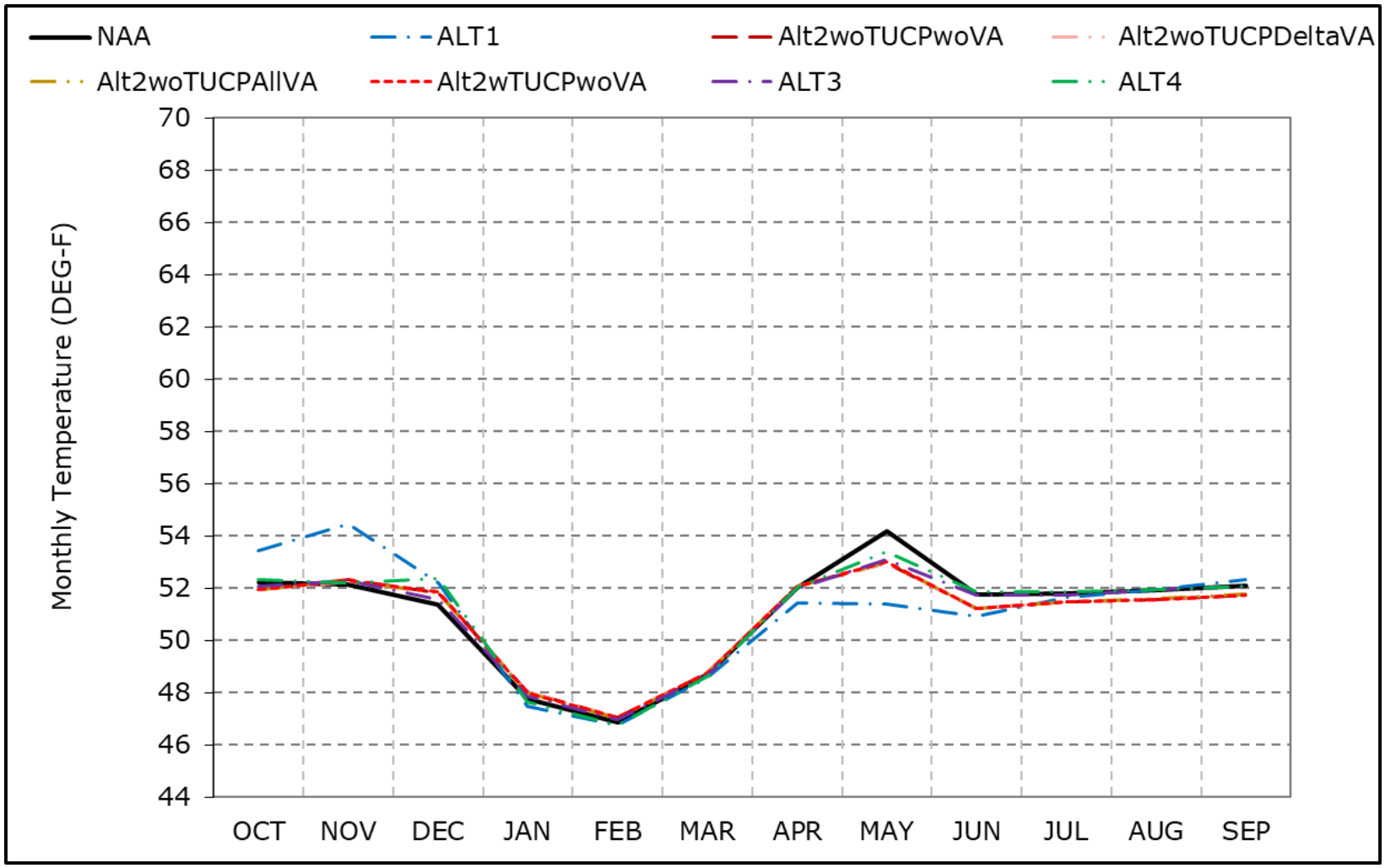
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.3	0.1	1.1	0.1	0.2	0.3	0.1	-0.4	0.2	-0.2	-0.3	-0.2
20% Exceedance	0	0	1	0	0	0	0	0	0	0	-1	-2
30% Exceedance	0.1	-0.2	1.3	0.1	0.0	0.1	0.1	-0.6	0.3	-0.1	0.0	-0.2
40% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.2	-0.2	0.3	0.4	0.2	0.1	0.1	-0.1	-0.1	0.1	0.1	-0.1
Full Simulation Period Average[a]	-0.1	-0.1	0.9	0.1	0.1	0.1	0.0	-0.6	0.1	0.0	-0.3	-0.6
Wet Water Years (28%)	0.1	0.0	1.0	-0.1	-0.1	-0.1	0.0	-0.8	0.1	0.0	0.0	0.0
Above Normal Years (14%)	0.1	0.0	0.9	0.1	0.0	0.0	0.1	-0.9	0.2	0.0	0.0	0.0
Below Normal Years (18%)	0.0	-0.4	0.8	0.2	0.2	0.2	-0.2	-0.7	0.1	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.4	0.9	0.1	0.1	0.3	0.0	-0.3	0.0	-0.3	-0.4	-0.5
Critical (16%)	-1	0	1	0	0	0	0	0	0	0	-1	-3

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



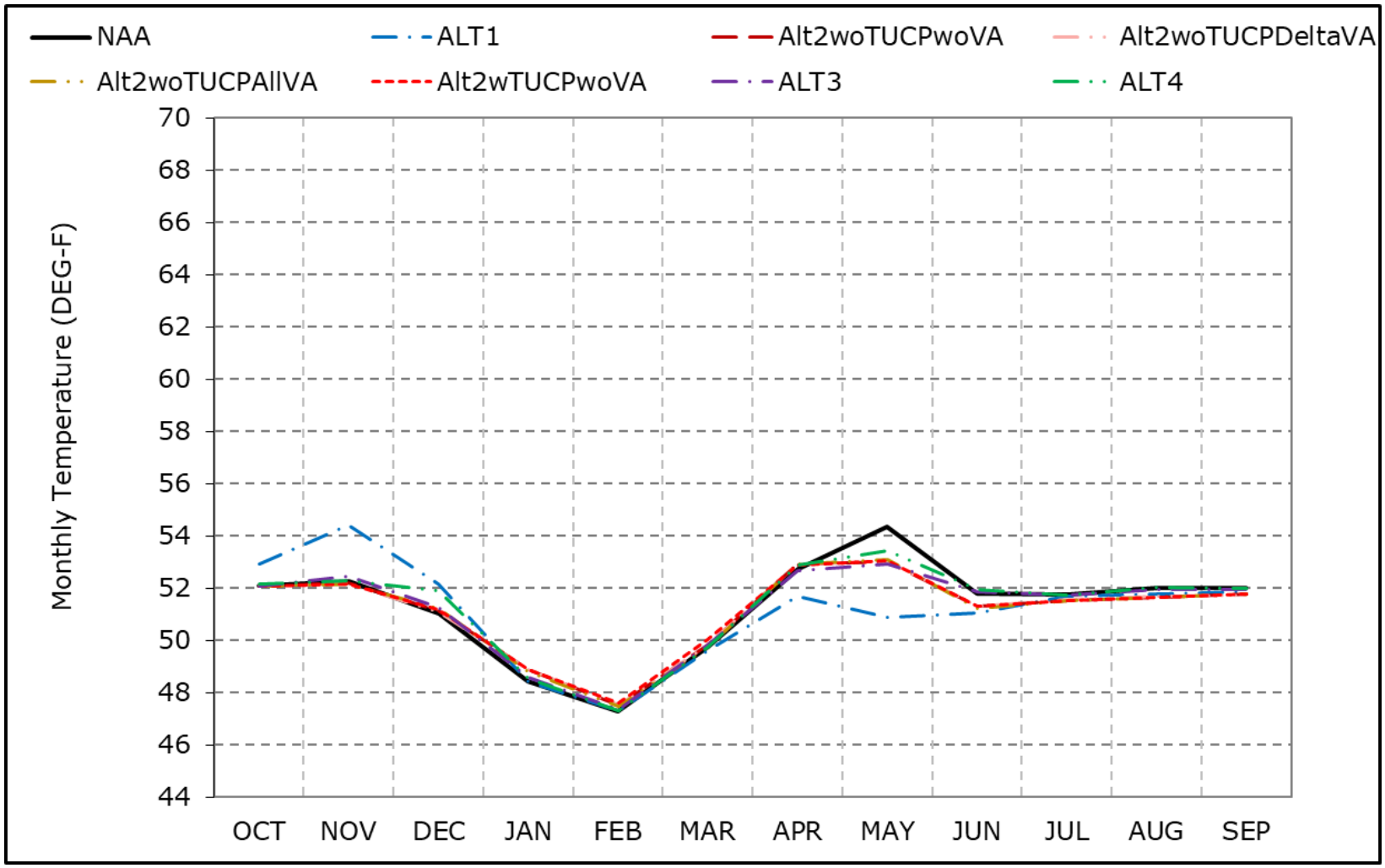
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-1. Sacramento River below Keswick, Long-Term Average Temperature



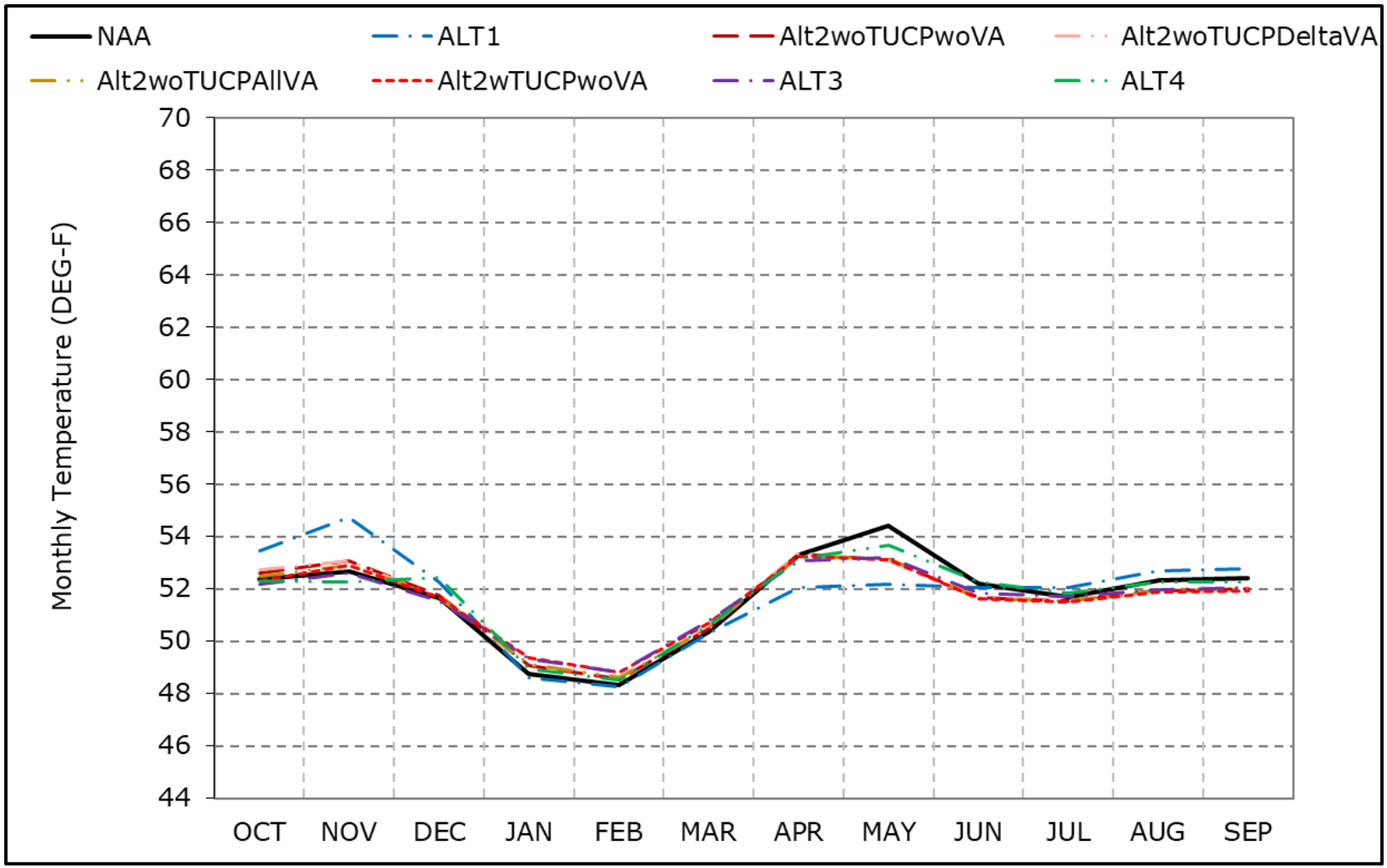
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-2. Sacramento River below Keswick, Wet Year Average Temperature



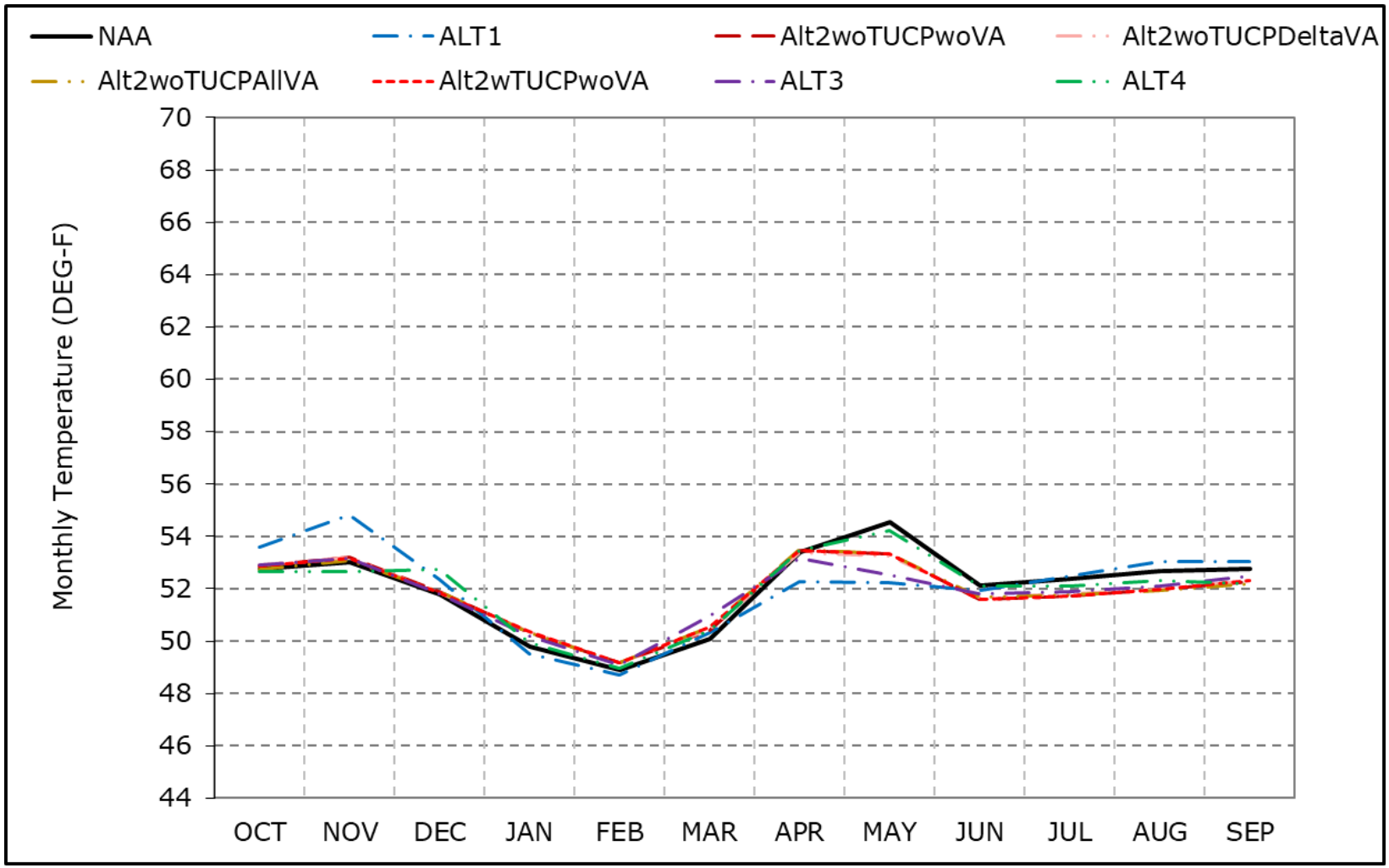
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-3. Sacramento River below Keswick, Above Normal Year Average Temperature



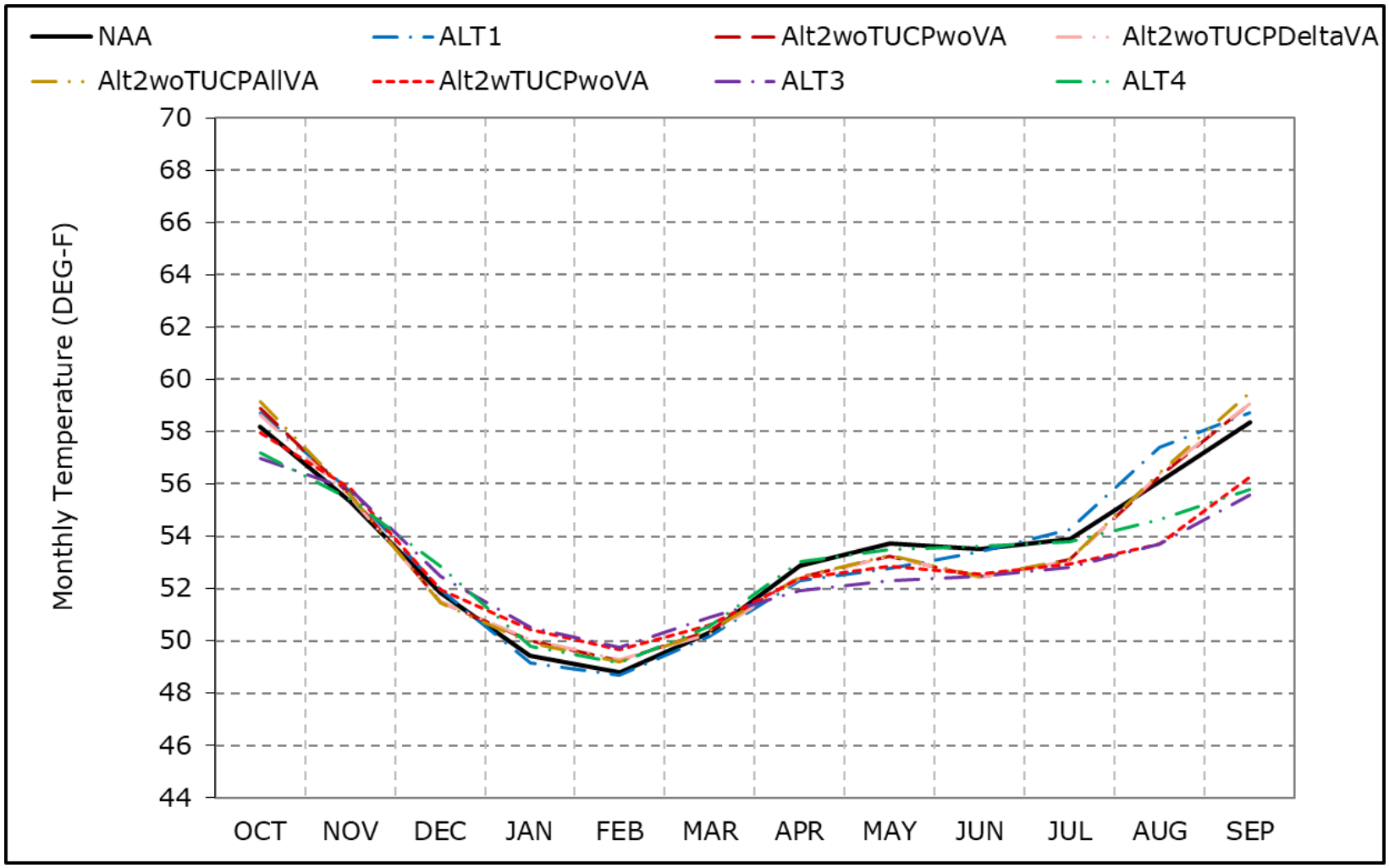
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-4. Sacramento River below Keswick, Below Normal Year Average Temperature



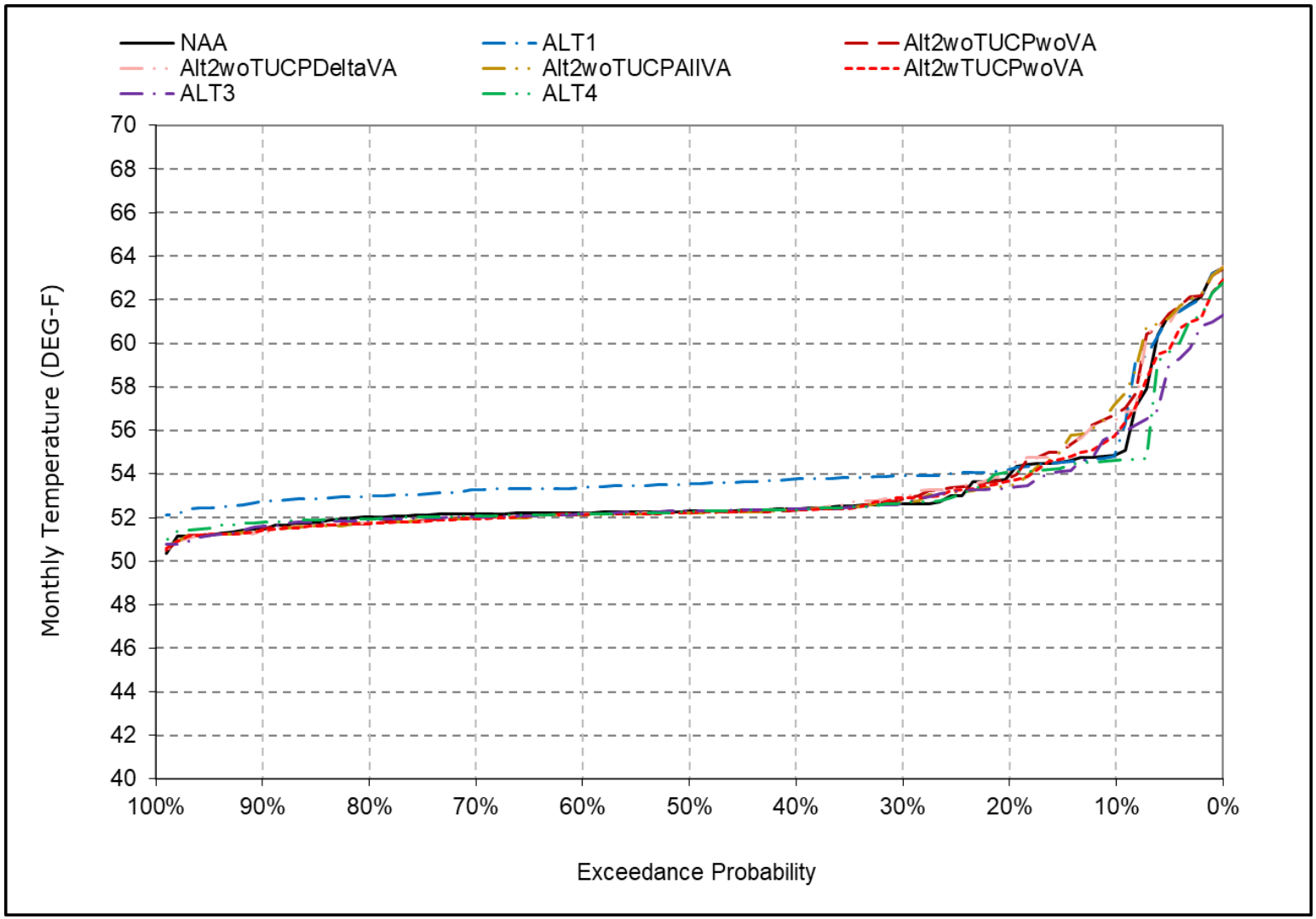
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-5. Sacramento River below Keswick, Dry Year Average Temperature



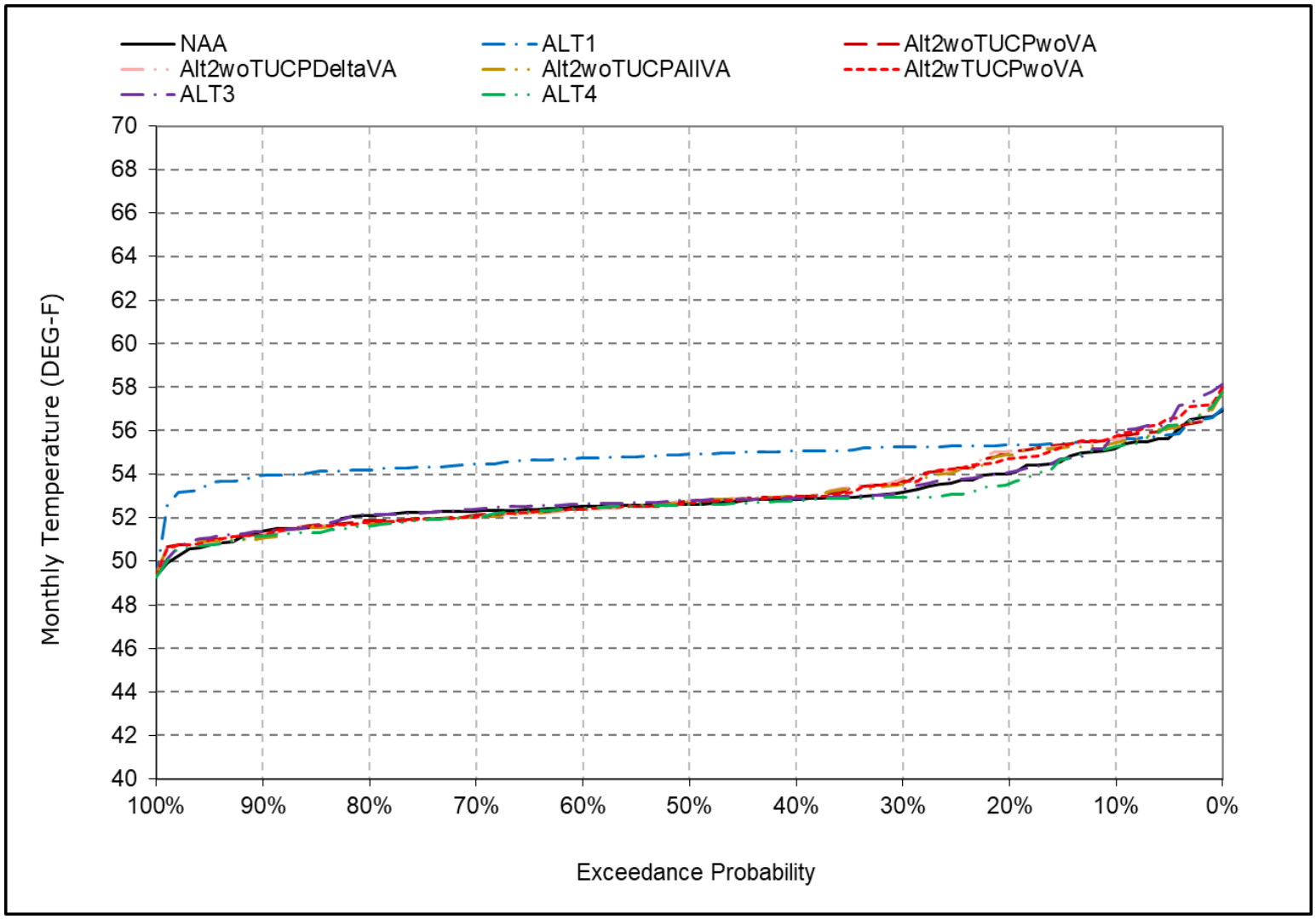
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-6. Sacramento River below Keswick, Critical Year Average Temperature



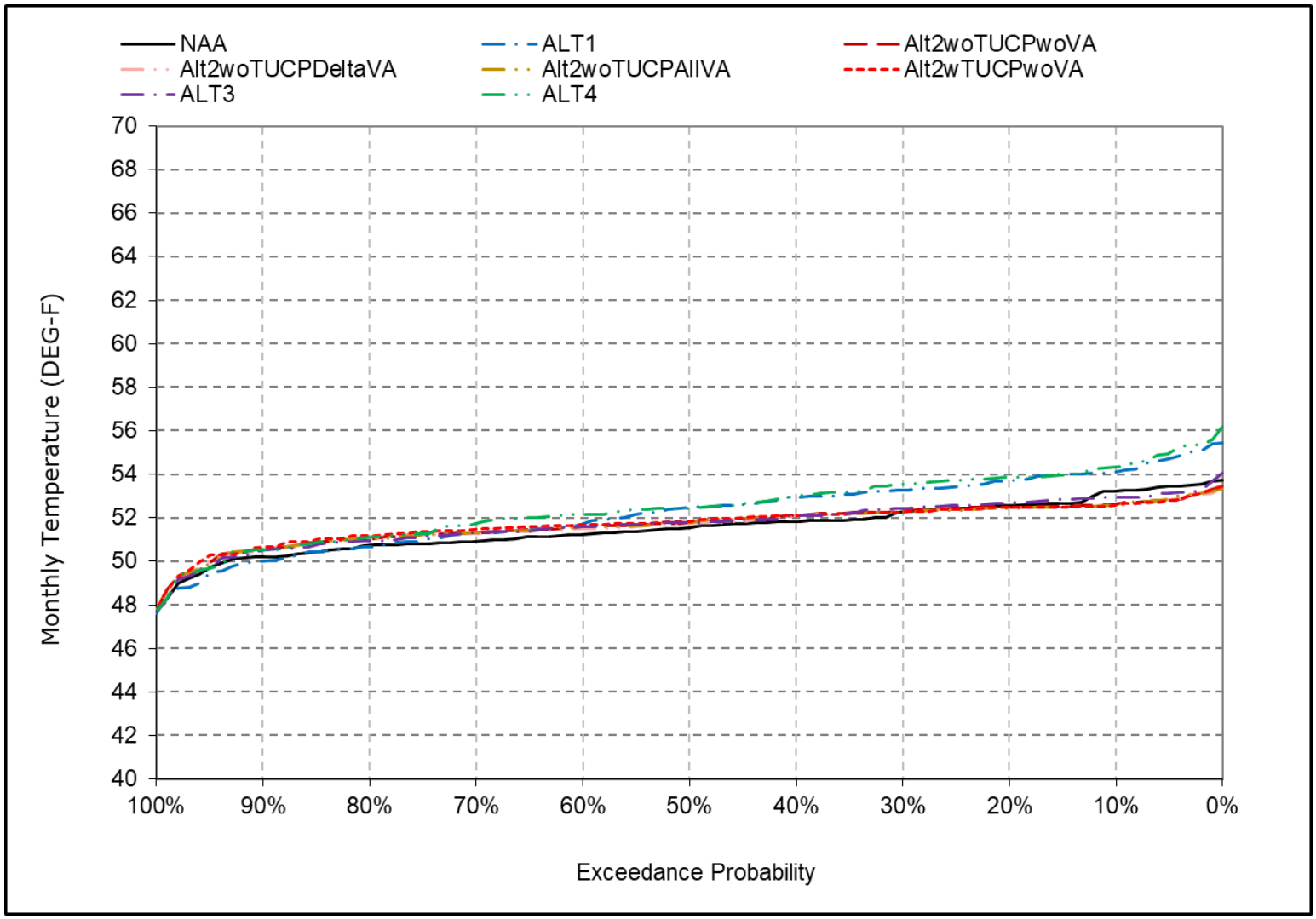
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-7. Sacramento River below Keswick, October



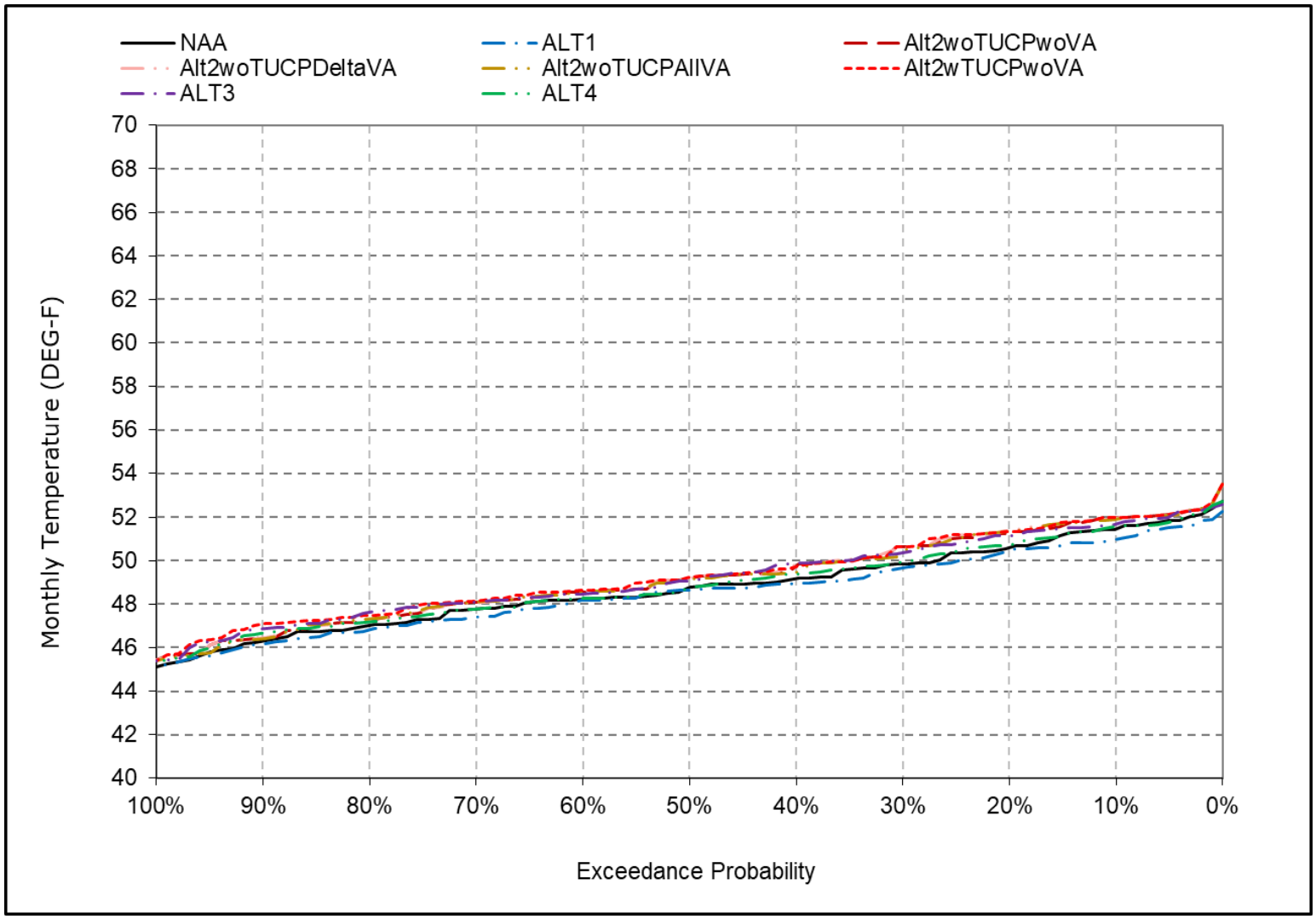
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-8. Sacramento River below Keswick, November



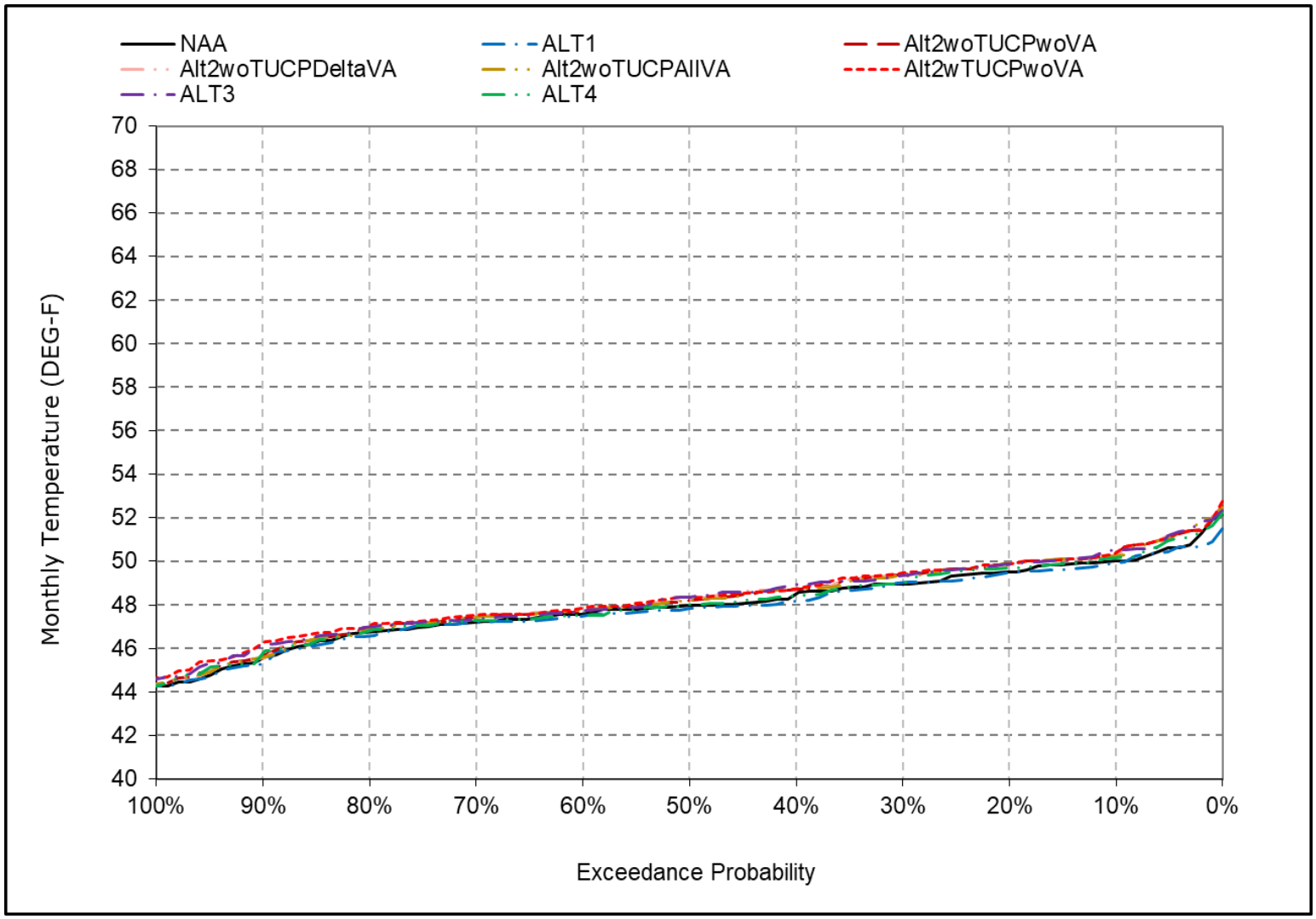
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-9. Sacramento River below Keswick, December



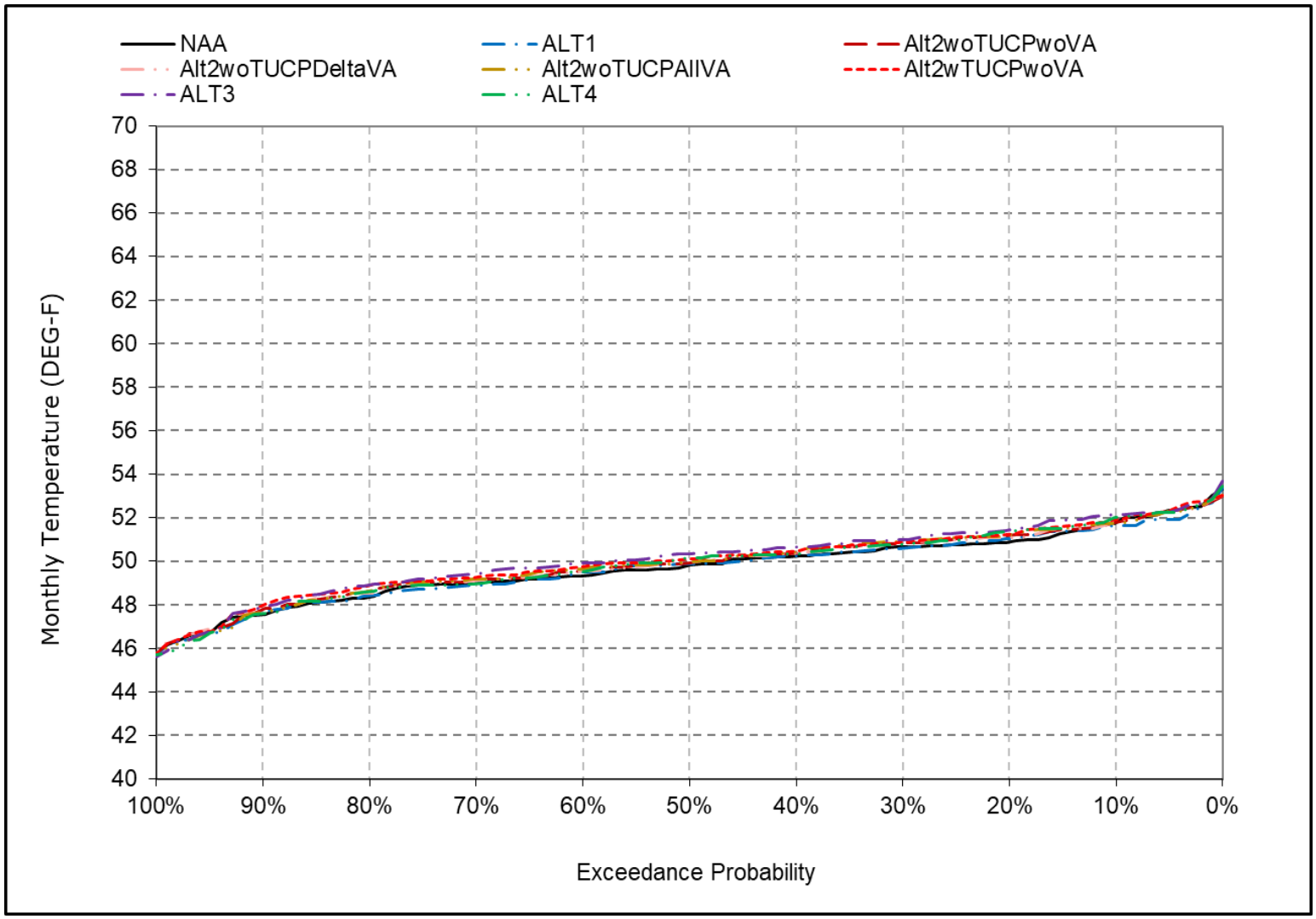
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-10. Sacramento River below Keswick, January



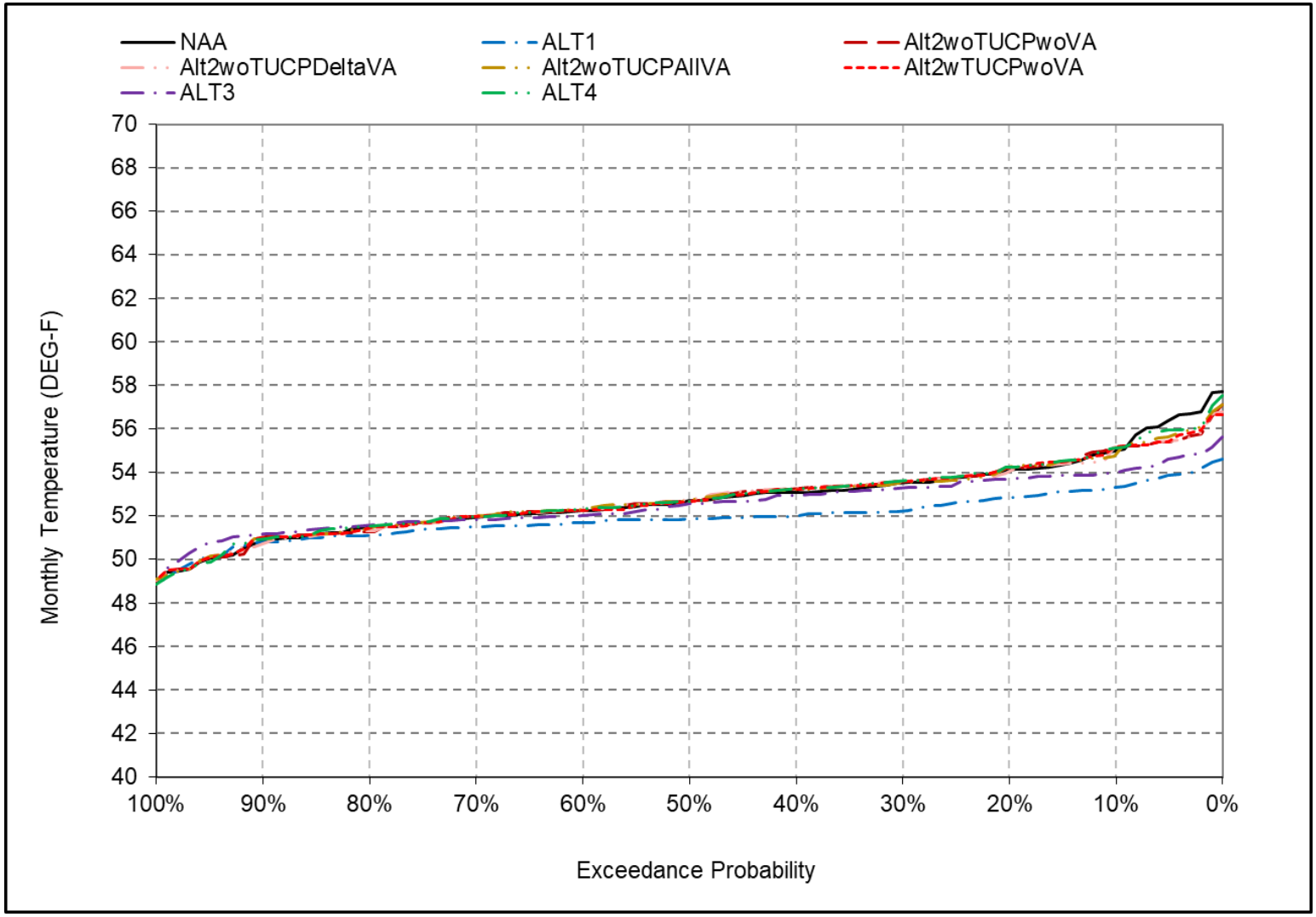
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-11. Sacramento River below Keswick, February



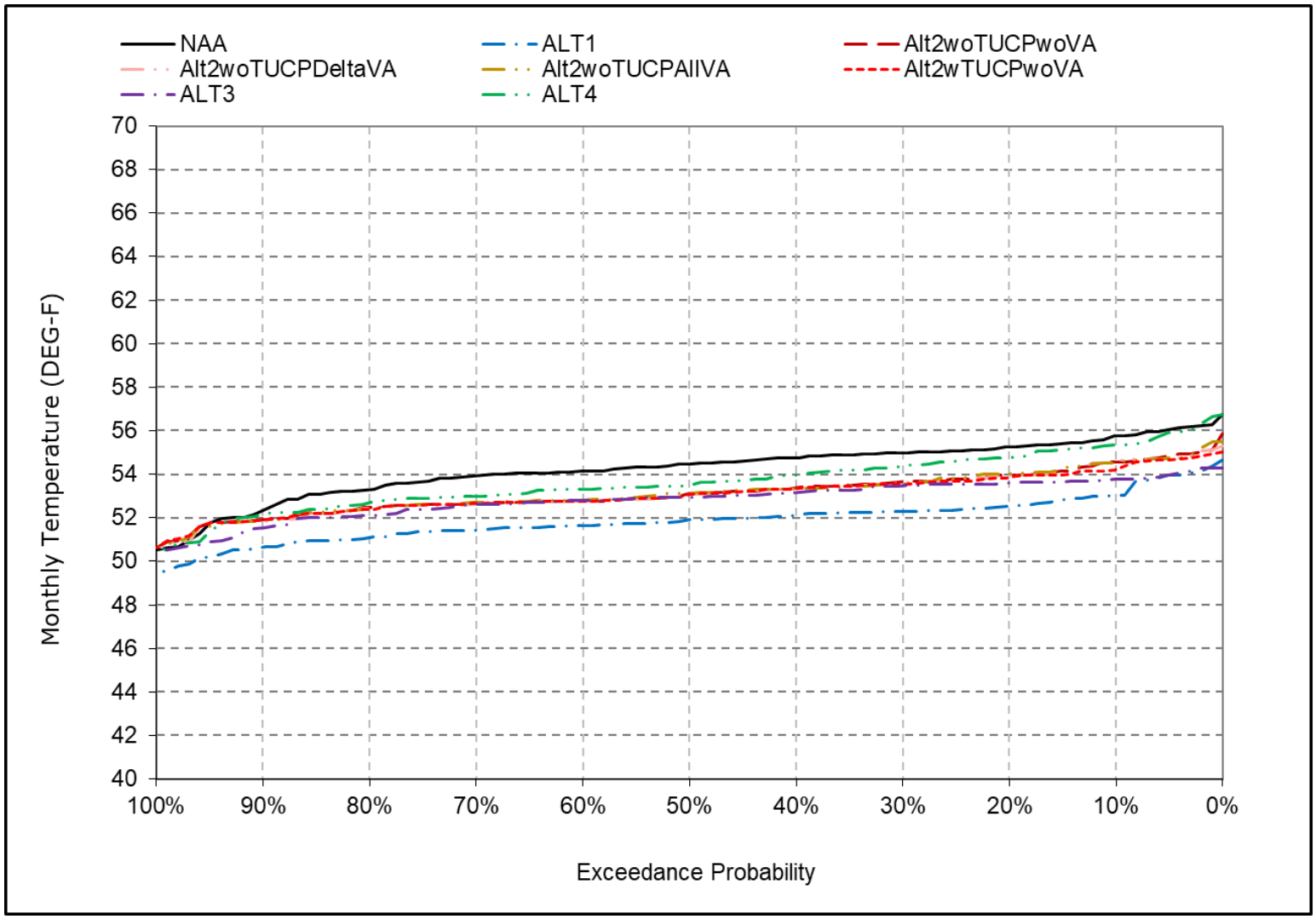
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-12. Sacramento River below Keswick, March



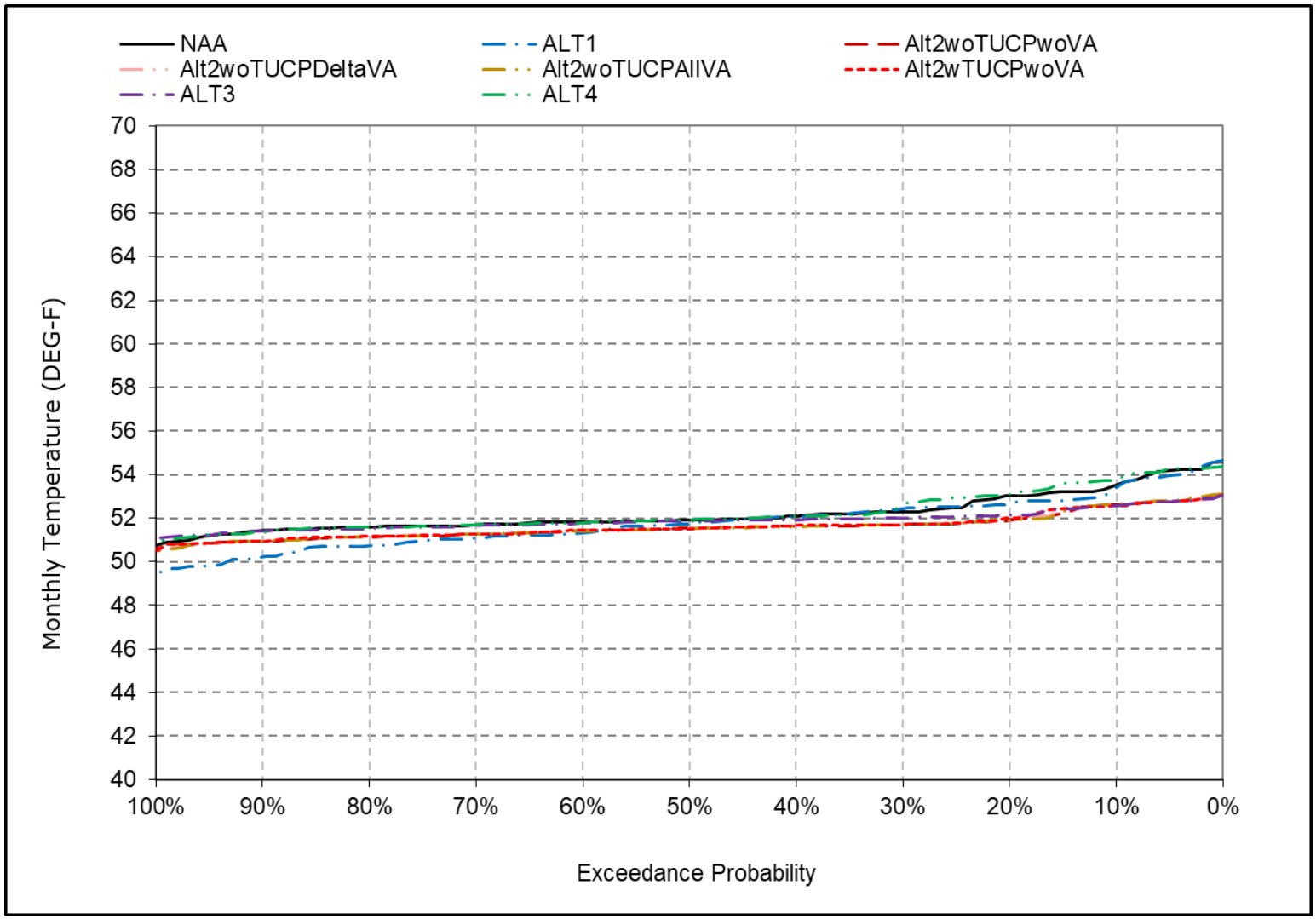
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-13. Sacramento River below Keswick, April



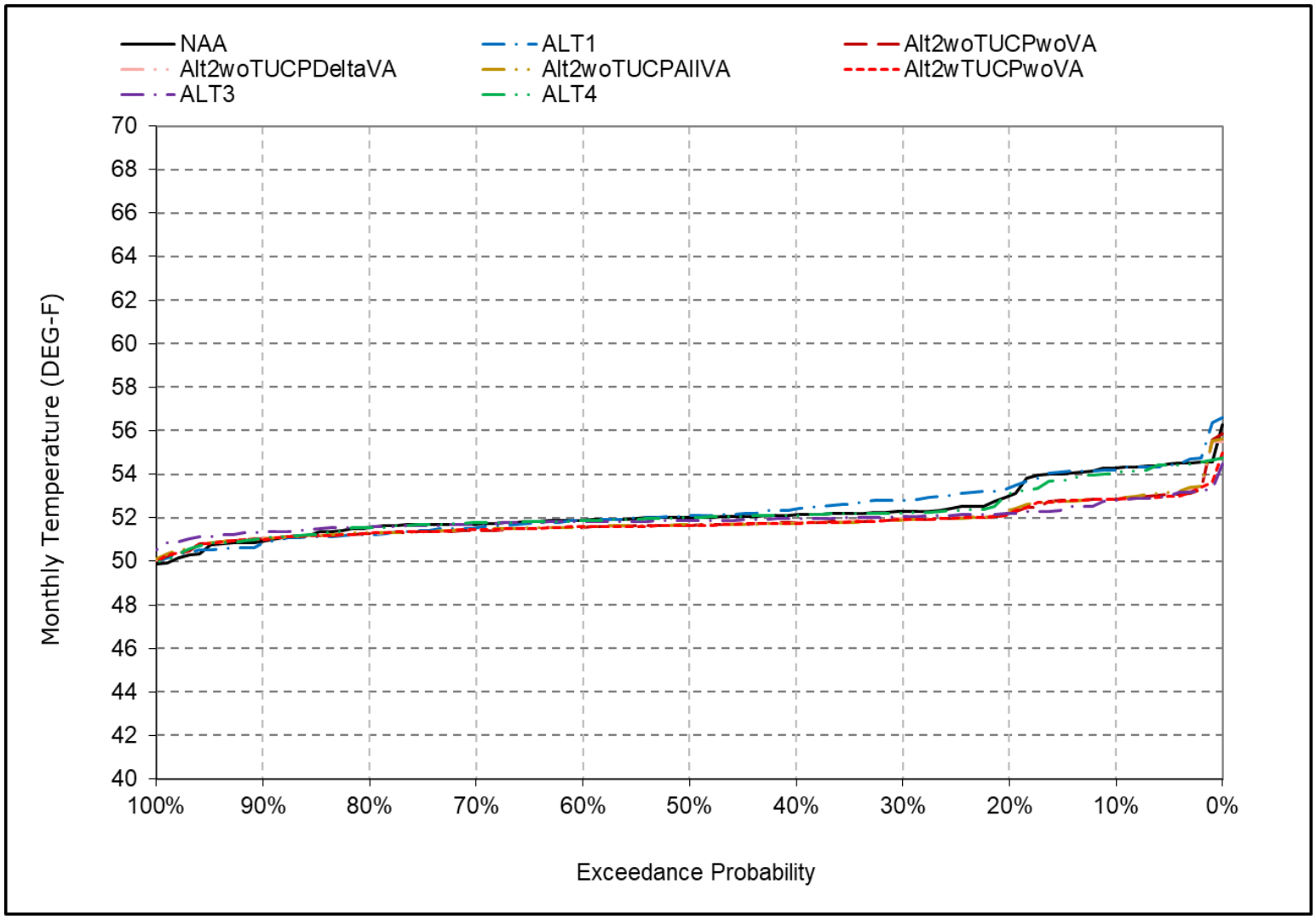
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-14. Sacramento River below Keswick, May



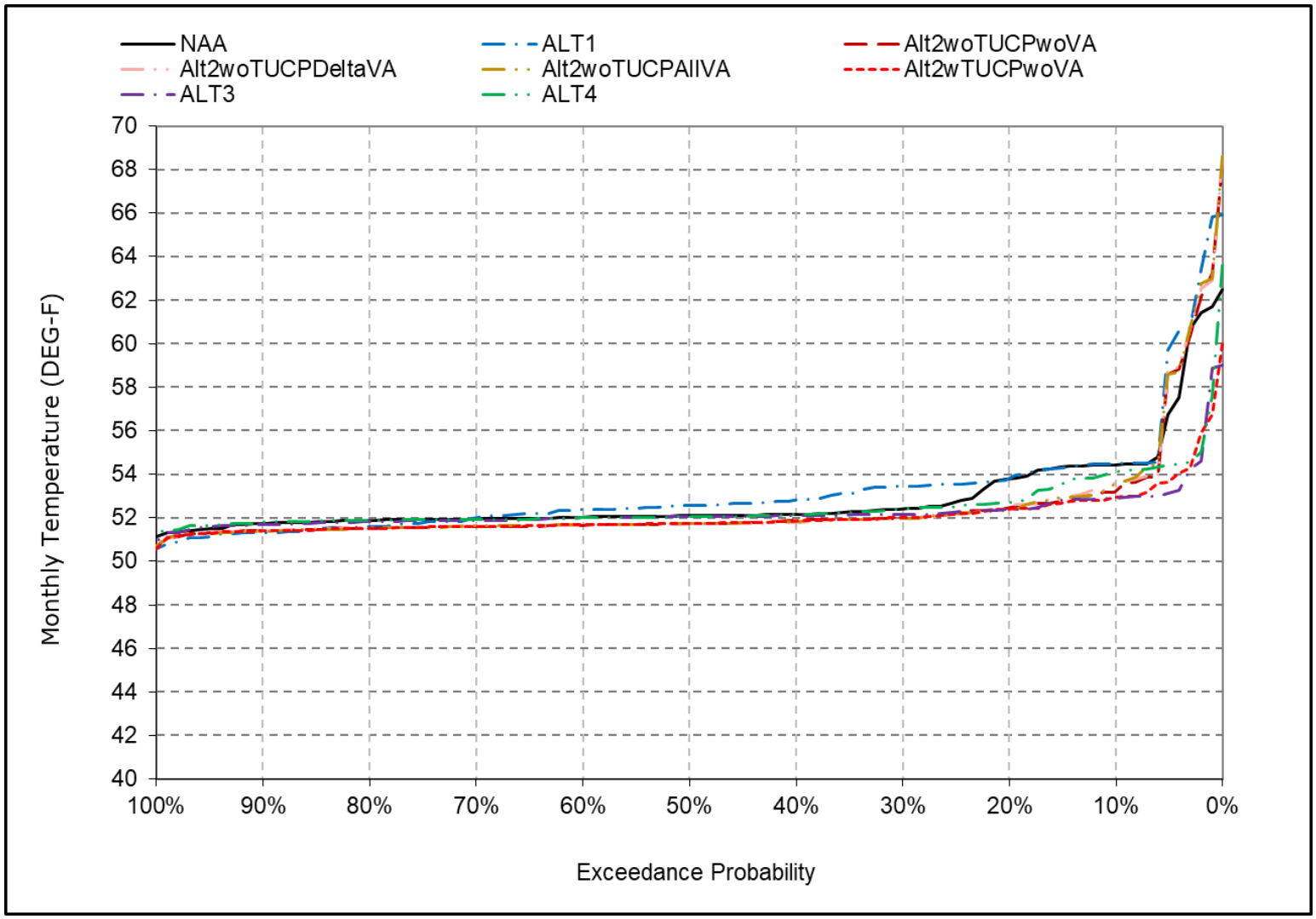
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-15. Sacramento River below Keswick, June



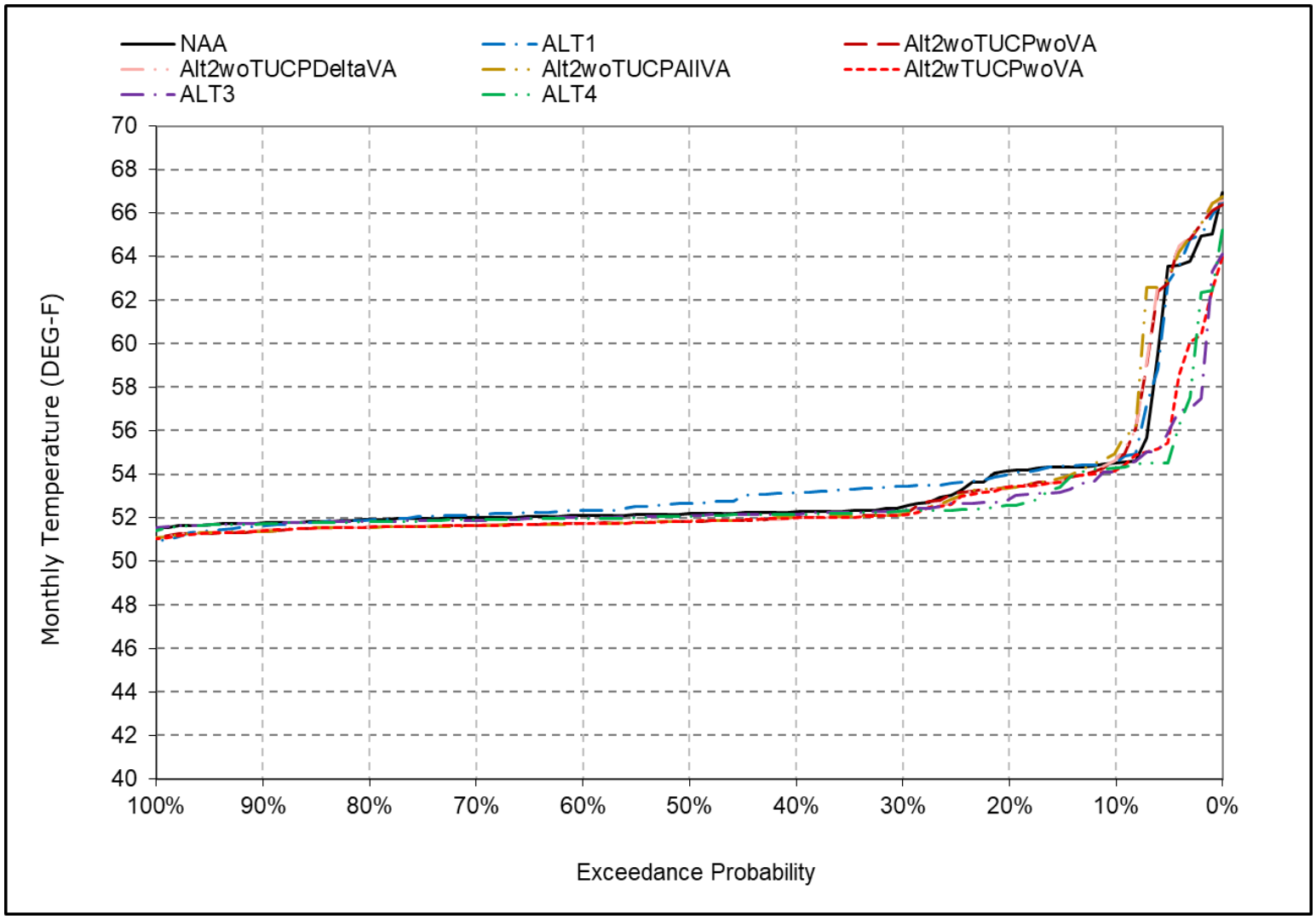
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-16. Sacramento River below Keswick, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-17. Sacramento River below Keswick, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-5-18. Sacramento River below Keswick, September

Table F.2.11-6-1a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-1b. Sacramento River at Clear Creek, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	56	54	51	51	53	55	55	55	56	56	56
20% Exceedance	55	55	53	51	50	52	55	54	54	55	55	56
30% Exceedance	55	55	53	50	50	52	54	54	54	54	55	55
40% Exceedance	54.5	55.2	52.7	49.2	49.1	51.6	53.8	53.7	53.5	53.6	54.0	54.1
50% Exceedance	54.2	55.1	52.2	48.8	48.5	51.1	53.6	53.5	53.1	53.4	53.8	53.9
60% Exceedance	54.1	54.8	51.7	48.3	48.1	50.5	53.3	53.2	52.9	53.0	53.7	53.7
70% Exceedance	54.0	54.6	51.2	47.6	47.6	49.9	53.1	52.8	52.7	52.8	53.3	53.5
80% Exceedance	53.8	54.4	50.7	47.2	47.1	49.5	52.6	52.6	52.5	52.5	53.0	53.2
90% Exceedance	53.6	54.0	50.1	46.7	46.0	48.3	52.1	52.2	52.1	52.3	52.8	53.0
Full Simulation Period Average[a]	55	55	52	49	49	51	54	54	53	54	55	55
Wet Water Years (28%)	54	55	52	48	47	49	53	53	53	53	53	54
Above Normal Years (14%)	54	54	52	49	48	51	54	53	53	53	53	53
Below Normal Years (18%)	54	55	52	49	49	52	54	54	54	53	54	54
Dry Years (24%)	55	55	52	50	49	52	54	54	53	54	54	55
Critical (16%)	59	56	52	50	50	52	54	54	55	56	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-1c. Sacramento River at Clear Creek, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.4	1.1	-0.3	0.1	0.2	-1.6	-2.3	-0.1	0.0	0.0	0.1
20% Exceedance	0	1	1	0	0	0	-1	-2	0	0	0	0
30% Exceedance	1.2	2.0	1.0	0.0	0.0	0.2	-1.0	-2.2	0.0	0.6	0.9	0.8
40% Exceedance	1	2	1	0	0	0	-1	-2	0	0	1	0
50% Exceedance	1	2	1	0	0	0	-1	-2	0	0	1	1
60% Exceedance	1	2	1	0	0	0	0	-2	0	0	0	0
70% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
80% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
90% Exceedance	1.0	2.3	-0.1	-0.2	-0.1	0.0	0.2	-1.7	-1.0	0.2	-0.3	0.0
Full Simulation Period Average[a]	0.9	1.7	0.7	-0.1	0.0	0.1	-0.6	-2.1	-0.4	0.1	0.4	0.3
Wet Water Years (28%)	1.2	2.2	0.9	-0.2	0.0	0.0	-0.3	-2.5	-0.8	-0.1	0.1	0.3
Above Normal Years (14%)	0.9	2.1	1.1	0.0	0.1	0.0	-0.6	-3.2	-0.8	0.0	-0.1	0.1
Below Normal Years (18%)	1.1	1.9	0.6	0.0	0.1	0.1	-1.0	-2.0	-0.2	0.4	0.4	0.2
Dry Years (24%)	0.8	1.7	0.6	-0.1	0.0	0.3	-0.9	-2.0	-0.2	0.1	0.4	0.3
Critical (16%)	1	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-2a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-2b. Sacramento River at Clear Creek, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	52	52	51	53	56	56	54	54	55	56
20% Exceedance	55	55	52	51	50	52	56	55	54	54	54	55
30% Exceedance	54	54	52	51	50	52	55	55	53	53	53	54
40% Exceedance	53.1	53.1	51.8	49.6	49.2	51.5	54.7	54.8	53.1	53.0	53.1	53.2
50% Exceedance	53.0	52.8	51.6	49.1	48.8	51.2	54.1	54.5	53.0	52.9	53.0	53.0
60% Exceedance	52.9	52.6	51.3	48.6	48.3	50.6	53.6	54.3	53.0	52.9	52.9	52.9
70% Exceedance	52.8	52.3	51.1	48.2	47.8	50.1	53.0	54.0	52.9	52.8	52.9	52.9
80% Exceedance	52.7	52.1	50.9	47.5	47.1	49.5	52.6	53.7	52.8	52.7	52.8	52.8
90% Exceedance	52.5	51.6	50.5	46.9	46.2	48.4	52.1	53.3	52.7	52.2	52.8	52.8
Full Simulation Period Average[a]	54	53	51	49	49	51	54	55	53	53	54	54
Wet Water Years (28%)	53	52	52	48	47	49	53	55	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	55	53	53	53	53
Below Normal Years (18%)	54	53	52	49	49	52	55	54	53	53	53	53
Dry Years (24%)	54	53	52	50	50	52	55	55	53	53	53	54
Critical (16%)	60	56	51	50	50	52	54	55	54	55	58	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-2c. Sacramento River at Clear Creek, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.7	0.5	-0.4	0.2	0.5	-0.1	-0.2	-1.1	-0.9	-1.3	-0.7	0.4
20% Exceedance	0	1	0	0	0	0	0	-1	-1	-1	-1	-1
30% Exceedance	0.2	0.6	0.0	0.7	0.3	0.0	-0.2	-1.1	-0.4	-0.4	-0.4	0.1
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.1	0.4	0.0	0.1	0.1	0.1	-0.6	-0.4	0.2	-0.3	-0.3
Full Simulation Period Average[a]	0.1	0.2	0.1	0.3	0.2	0.0	-0.1	-1.0	-0.5	-0.4	-0.3	-0.2
Wet Water Years (28%)	-0.3	0.1	0.4	0.2	0.2	0.0	0.0	-1.1	-0.5	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.4	0.2	0.0	0.1	-1.2	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.2	0.3	0.0	0.2	0.3	0.0	0.0	-1.2	-0.5	-0.1	-0.4	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.4	0.2	0.2	0.0	-1.1	-0.4	-0.6	-0.7	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-3a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-3b. Sacramento River at Clear Creek, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	52	52	51	53	56	56	54	54	55	56
20% Exceedance	55	55	52	51	50	52	55	56	54	54	54	55
30% Exceedance	54	54	52	51	50	52	55	55	53	53	53	54
40% Exceedance	53.3	53.1	51.8	49.6	49.3	51.5	54.7	54.8	53.1	53.0	53.1	53.2
50% Exceedance	53.0	52.9	51.5	49.1	48.9	51.1	54.2	54.5	53.0	52.9	53.0	53.0
60% Exceedance	52.9	52.6	51.3	48.6	48.3	50.5	53.7	54.2	53.0	52.9	52.9	52.9
70% Exceedance	52.8	52.3	51.1	48.2	47.8	50.1	53.0	54.0	52.9	52.8	52.9	52.9
80% Exceedance	52.6	52.1	50.9	47.5	47.2	49.5	52.6	53.7	52.8	52.7	52.8	52.8
90% Exceedance	52.5	51.5	50.6	46.9	46.1	48.4	52.0	53.2	52.7	52.2	52.8	52.8
Full Simulation Period Average[a]	54	53	51	49	49	51	54	55	53	53	54	54
Wet Water Years (28%)	53	52	52	48	47	49	53	55	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	55	53	53	53	53
Below Normal Years (18%)	54	53	51	49	49	52	55	54	53	53	53	53
Dry Years (24%)	54	53	52	50	50	52	55	55	53	53	53	54
Critical (16%)	59	56	51	50	50	52	54	55	54	55	58	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-3c. Sacramento River at Clear Creek, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.4	0.4	-0.5	0.2	0.4	0.0	-0.5	-1.1	-0.9	-1.3	-0.7	0.4
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-2	-1
30% Exceedance	0.1	0.7	0.0	0.7	0.3	0.0	-0.2	-1.2	-0.4	-0.4	-0.5	-0.3
40% Exceedance	0	0	0	1	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.2	0.4	0.1	0.0	0.1	0.0	-0.7	-0.4	0.2	-0.2	-0.3
Full Simulation Period Average[a]	0.1	0.1	0.1	0.3	0.3	0.0	-0.1	-1.0	-0.5	-0.4	-0.3	-0.2
Wet Water Years (28%)	-0.2	0.1	0.4	0.2	0.2	0.1	0.0	-1.1	-0.5	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.4	0.3	0.0	0.1	-1.2	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.3	0.4	0.0	0.2	0.3	0.0	0.0	-1.2	-0.5	-0.1	-0.4	-0.5
Dry Years (24%)	0.1	0.2	0.0	0.4	0.2	0.2	0.0	-1.2	-0.4	-0.5	-0.7	-0.4
Critical (16%)	0	0	0	0	0	0	-1	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-4a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-4b. Sacramento River at Clear Creek, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	52	52	51	53	56	56	54	55	55	57
20% Exceedance	55	55	52	51	50	52	55	56	54	54	54	55
30% Exceedance	54	54	52	50	50	52	55	55	53	53	53	54
40% Exceedance	53.2	53.1	51.8	49.6	49.2	51.5	54.5	54.9	53.1	53.0	53.1	53.1
50% Exceedance	53.0	52.9	51.5	49.0	48.8	51.2	54.0	54.5	53.0	52.9	53.0	53.0
60% Exceedance	52.9	52.6	51.4	48.6	48.3	50.6	53.5	54.3	53.0	52.9	53.0	52.9
70% Exceedance	52.8	52.2	51.1	48.3	47.8	50.1	53.1	54.0	52.9	52.8	52.9	52.9
80% Exceedance	52.7	52.0	50.9	47.5	47.1	49.5	52.5	53.7	52.8	52.7	52.9	52.8
90% Exceedance	52.5	51.6	50.6	46.8	46.1	48.4	52.1	53.4	52.8	52.3	52.8	52.8
Full Simulation Period Average[a]	54	53	51	49	49	51	54	55	53	53	54	54
Wet Water Years (28%)	53	52	52	48	47	49	53	55	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	55	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	54	54	53	53	53	53
Dry Years (24%)	54	53	52	50	50	52	55	55	53	53	53	54
Critical (16%)	60	56	51	50	50	52	54	55	54	55	58	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-4c. Sacramento River at Clear Creek, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2.0	0.3	-0.5	0.2	0.4	0.0	-0.5	-1.1	-0.9	-1.2	-0.6	0.7
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-2	-1
30% Exceedance	-0.1	0.5	0.0	0.5	0.2	0.1	-0.3	-1.2	-0.4	-0.4	-0.4	-0.2
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.2	0.4	-0.1	0.0	0.1	0.2	-0.6	-0.3	0.2	-0.3	-0.3
Full Simulation Period Average[a]	0.1	0.1	0.1	0.3	0.2	0.1	-0.1	-1.0	-0.5	-0.4	-0.3	-0.1
Wet Water Years (28%)	-0.3	0.1	0.4	0.2	0.2	0.0	0.0	-1.1	-0.5	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.1	0.3	0.2	0.0	0.0	-1.2	-0.4	-0.2	-0.3	-0.2
Below Normal Years (18%)	0.1	0.2	0.0	0.2	0.3	0.0	-0.2	-1.2	-0.4	-0.1	-0.3	-0.5
Dry Years (24%)	0.0	0.0	0.0	0.4	0.2	0.3	0.1	-1.0	-0.3	-0.5	-0.7	-0.5
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-5a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-5b. Sacramento River at Clear Creek, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	52	52	51	53	56	56	54	55	54	56
20% Exceedance	55	55	52	51	51	52	56	55	54	54	54	55
30% Exceedance	54	54	52	51	50	52	55	55	53	53	53	54
40% Exceedance	53.1	53.1	51.9	49.7	49.3	51.6	54.6	54.8	53.1	53.0	53.1	53.1
50% Exceedance	53.0	52.8	51.6	49.1	48.9	51.4	54.1	54.5	53.0	52.9	53.0	53.0
60% Exceedance	52.8	52.6	51.4	48.6	48.4	50.8	53.7	54.3	53.0	52.9	52.9	52.9
70% Exceedance	52.7	52.3	51.2	48.3	47.9	50.2	53.2	54.0	52.9	52.8	52.9	52.9
80% Exceedance	52.7	52.1	50.9	47.7	47.5	49.6	52.7	53.7	52.8	52.7	52.8	52.9
90% Exceedance	52.5	51.6	50.7	47.2	46.6	48.5	52.1	53.4	52.7	52.2	52.8	52.8
Full Simulation Period Average[a]	54	53	52	49	49	51	54	55	53	53	53	54
Wet Water Years (28%)	53	52	52	48	47	49	53	55	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	55	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	54	53	53	53	53
Dry Years (24%)	54	53	52	50	50	52	55	55	53	53	53	54
Critical (16%)	59	56	52	51	50	52	54	55	54	55	55	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-5c. Sacramento River at Clear Creek, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.6	0.6	-0.4	0.2	0.5	0.0	-0.3	-1.4	-0.8	-1.2	-1.5	-0.1
20% Exceedance	0	0	0	1	0	0	0	-1	-1	-1	-2	-1
30% Exceedance	0.2	0.5	0.0	0.8	0.4	0.1	-0.1	-1.2	-0.4	-0.4	-0.5	-0.2
40% Exceedance	0	0	0	1	0	0	0	-1	-1	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.1	0.5	0.4	0.5	0.2	0.2	-0.5	-0.3	0.2	-0.3	-0.3
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.4	0.3	0.2	-0.1	-1.1	-0.5	-0.4	-0.7	-0.6
Wet Water Years (28%)	-0.3	0.1	0.4	0.2	0.2	0.0	0.0	-1.1	-0.5	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.3	0.3	0.2	0.1	-1.2	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.0	0.2	0.0	0.4	0.4	0.2	-0.1	-1.2	-0.5	-0.2	-0.4	-0.5
Dry Years (24%)	0.1	0.1	0.0	0.4	0.2	0.3	0.0	-1.1	-0.4	-0.6	-0.6	-0.4
Critical (16%)	0	0	0	1	1	0	0	-1	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-6a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-6b. Sacramento River at Clear Creek, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	53	52	51	53	56	55	55	54	54	56
20% Exceedance	55	54	52	51	50	53	55	55	54	54	54	54
30% Exceedance	54	54	52	50	50	52	55	55	54	53	53	54
40% Exceedance	53.1	53.1	51.8	49.8	49.4	51.9	54.4	54.6	53.6	53.3	53.3	53.5
50% Exceedance	53.0	52.9	51.6	49.0	48.8	51.4	54.1	54.4	53.5	53.2	53.3	53.4
60% Exceedance	53.0	52.8	51.4	48.5	48.2	51.0	53.8	54.2	53.4	53.1	53.2	53.3
70% Exceedance	52.9	52.6	51.2	48.2	47.8	50.3	53.2	54.0	53.4	53.0	53.2	53.2
80% Exceedance	52.9	52.3	50.8	47.8	47.3	49.6	52.8	53.7	53.3	52.9	53.1	53.1
90% Exceedance	52.6	51.8	50.4	47.0	46.4	48.4	52.3	53.1	53.2	52.6	52.9	53.1
Full Simulation Period Average[a]	54	53	51	49	49	51	54	54	54	53	54	54
Wet Water Years (28%)	53	53	51	48	47	49	53	54	54	53	53	53
Above Normal Years (14%)	53	53	51	49	48	51	54	54	54	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	54	54	53	53	54
Dry Years (24%)	54	53	52	50	50	52	55	54	53	53	53	54
Critical (16%)	58	56	52	51	50	52	54	54	54	55	55	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-6c. Sacramento River at Clear Creek, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.8	0.6	-0.3	0.1	0.3	0.1	-1.1	-1.9	-0.7	-1.3	-1.5	-0.2
20% Exceedance	-1	0	0	0	0	0	0	-2	0	-1	-1	-1
30% Exceedance	0.0	0.2	0.1	0.6	0.1	0.4	-0.3	-1.6	0.0	-0.1	-0.4	0.0
40% Exceedance	0	0	0	1	0	0	0	-2	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-2	0	0	0	0
60% Exceedance	0	0	0	0	0	1	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	1	0	0	0	-1	0	0	0	0
90% Exceedance	0.0	0.1	0.3	0.2	0.3	0.1	0.3	-0.8	0.1	0.6	-0.1	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.1	0.3	0.3	0.2	-0.2	-1.4	-0.1	-0.2	-0.6	-0.5
Wet Water Years (28%)	-0.1	0.1	0.1	0.1	0.1	-0.1	-0.1	-1.4	0.3	0.0	0.1	0.1
Above Normal Years (14%)	0.0	0.2	0.1	0.1	0.1	0.0	-0.2	-1.6	0.4	0.1	0.0	0.1
Below Normal Years (18%)	-0.1	-0.1	-0.2	0.4	0.4	0.2	-0.2	-1.1	-0.2	0.1	-0.4	-0.4
Dry Years (24%)	0.1	0.1	0.0	0.2	0.1	0.6	0.0	-1.8	-0.2	-0.5	-0.7	-0.2
Critical (16%)	-1	0	1	1	1	0	-1	-1	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-7a. Sacramento River at Clear Creek, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.0	55.2	52.8	51.6	50.6	53.1	56.7	57.3	55.2	55.7	55.9	55.9
20% Exceedance	55.0	54.3	52.2	50.7	50.1	52.2	55.5	56.8	54.4	54.7	55.5	55.6
30% Exceedance	53.7	53.3	52.0	49.9	49.7	51.8	55.1	56.4	53.8	53.5	53.8	54.0
40% Exceedance	53.2	53.0	51.7	49.1	49.1	51.5	54.6	56.1	53.6	53.4	53.4	53.7
50% Exceedance	53	53	51	49	48	51	54	56	53	53	53	53
60% Exceedance	53	53	51	48	48	50	54	56	53	53	53	53
70% Exceedance	53	52	51	48	48	50	53	55	53	53	53	53
80% Exceedance	53	52	51	47	47	49	53	55	53	53	53	53
90% Exceedance	53	52	50	47	46	48	52	54	53	52	53	53
Full Simulation Period Average[a]	54	53	51	49	49	51	54	56	54	54	54	55
Wet Water Years (28%)	53	52	51	48	47	49	53	56	53	53	53	53
Above Normal Years (14%)	53	52	51	49	48	51	54	56	53	53	53	53
Below Normal Years (18%)	53	53	51	49	49	52	55	56	54	53	54	54
Dry Years (24%)	53.8	53.3	51.6	49.8	49.5	51.4	54.7	55.8	53.5	53.6	54.1	54.3
Critical (16%)	59	55	52	50	50	52	55	55	55	55	57	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-7b. Sacramento River at Clear Creek, Alternative 4, Monthly Temperature (°F)

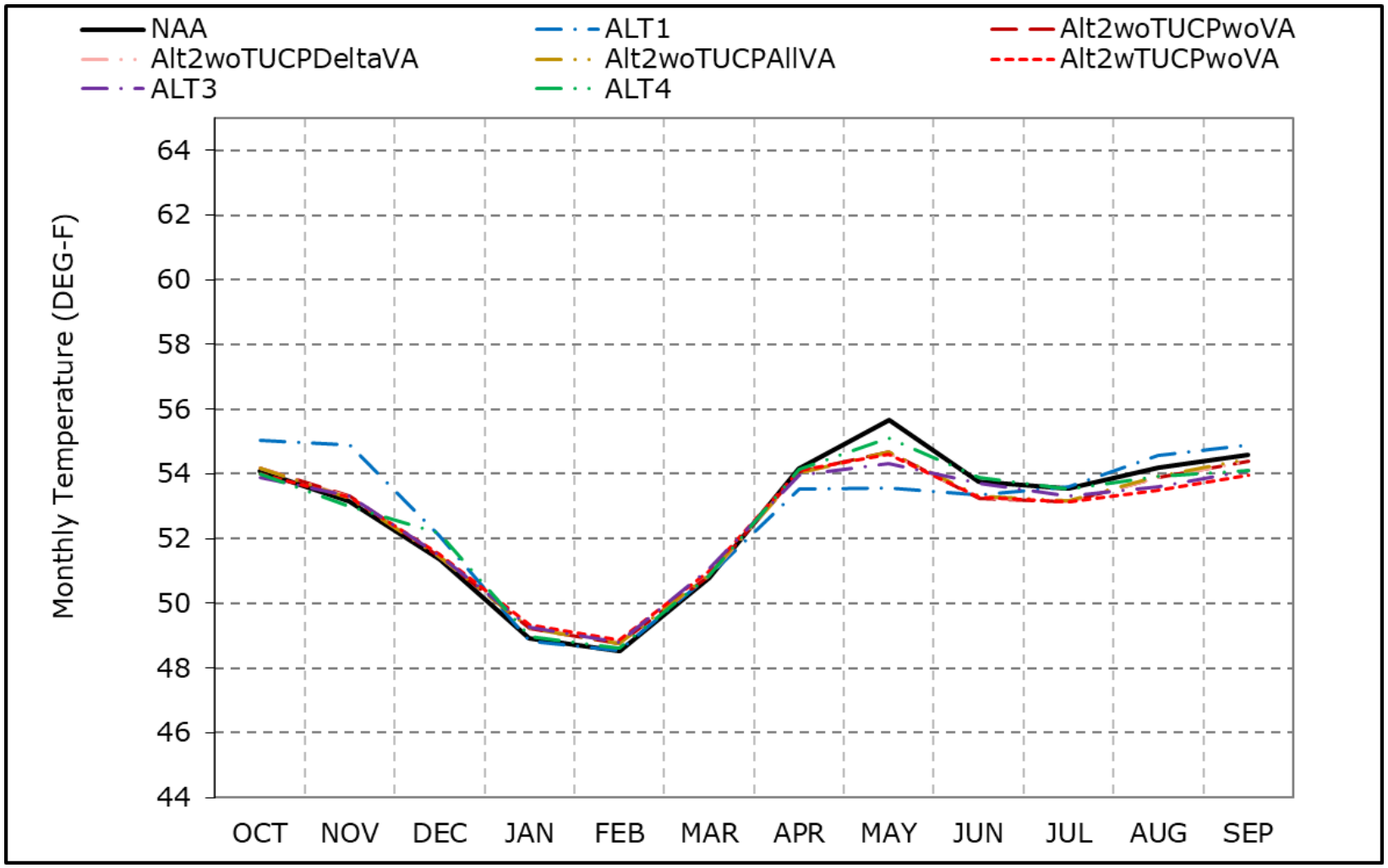
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	53	57	57	56	56	56	56
20% Exceedance	55	54	53	51	50	53	56	56	55	54	54	54
30% Exceedance	53	53	53	50	50	52	55	56	54	53	54	54
40% Exceedance	53.1	52.9	52.5	49.4	49.0	51.6	54.6	55.4	53.6	53.4	53.5	53.5
50% Exceedance	53.1	52.8	52.0	48.6	48.6	51.3	54.1	54.9	53.5	53.3	53.4	53.3
60% Exceedance	53.0	52.7	51.9	48.4	48.2	50.5	53.6	54.7	53.4	53.2	53.3	53.3
70% Exceedance	53.0	52.3	51.5	48.0	47.7	50.0	53.4	54.5	53.3	53.0	53.2	53.2
80% Exceedance	52.9	51.9	51.0	47.3	47.0	49.5	52.7	54.0	53.2	52.7	53.2	53.2
90% Exceedance	52.8	51.5	50.5	46.9	46.2	48.2	52.1	53.5	53.1	52.2	53.1	53.1
Full Simulation Period Average[a]	54	53	52	49	49	51	54	55	54	54	54	54
Wet Water Years (28%)	53	52	52	48	47	49	53	55	54	53	53	53
Above Normal Years (14%)	53	52	52	49	48	50	54	55	54	53	53	53
Below Normal Years (18%)	53	53	52	49	49	52	54	55	54	53	54	54
Dry Years (24%)	54	53	52	50	50	52	55	56	54	53	54	54
Critical (16%)	58	55	53	50	50	52	55	55	55	56	56	57

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-6-7c. Sacramento River at Clear Creek, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

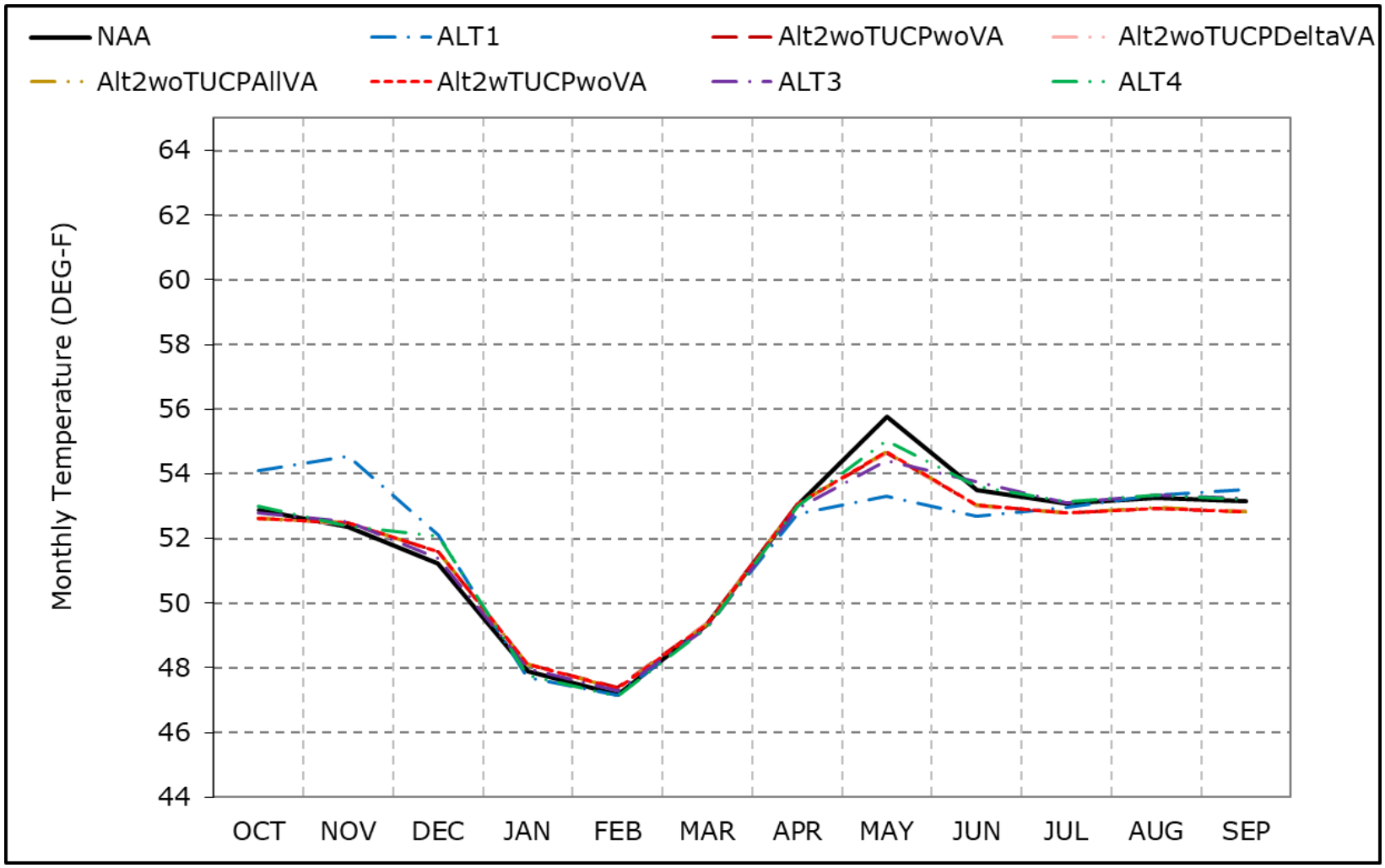
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.5	-0.1	1.1	-0.1	0.2	-0.1	-0.1	-0.3	0.4	0.0	-0.2	0.0
20% Exceedance	0	-1	1	0	0	0	0	0	0	0	-1	-2
30% Exceedance	-0.3	-0.2	1.0	0.1	0.1	0.1	0.1	-0.4	0.4	0.0	-0.1	-0.3
40% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.2	-0.2	0.4	0.1	0.1	0.0	0.2	-0.4	0.0	0.1	0.1	0.1
Full Simulation Period Average[a]	-0.1	-0.1	0.8	0.0	0.1	0.1	0.0	-0.5	0.1	0.0	-0.3	-0.5
Wet Water Years (28%)	0.1	0.0	0.9	-0.1	-0.1	-0.1	0.0	-0.7	0.1	0.0	0.1	0.1
Above Normal Years (14%)	0.2	0.0	0.7	0.0	0.0	-0.1	0.1	-0.9	0.1	0.0	0.1	0.2
Below Normal Years (18%)	0.0	-0.4	0.6	0.1	0.2	0.1	-0.2	-0.7	0.1	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.3	0.8	0.0	0.0	0.1	0.0	-0.3	0.0	-0.2	-0.3	-0.5
Critical (16%)	-1	0	1	0	0	0	0	0	0	0	-1	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



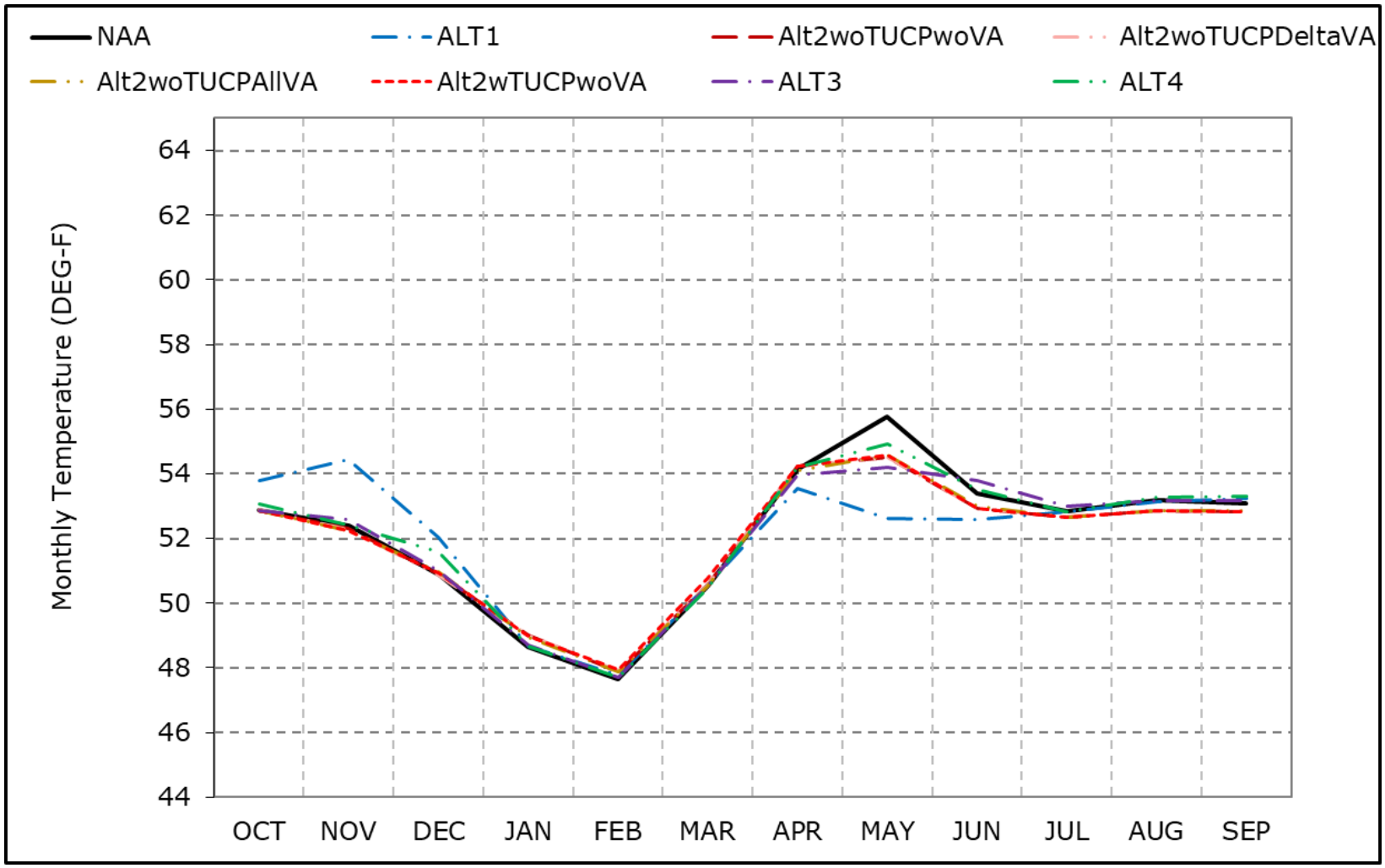
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-1. Sacramento River at Clear Creek, Long-Term Average Temperature



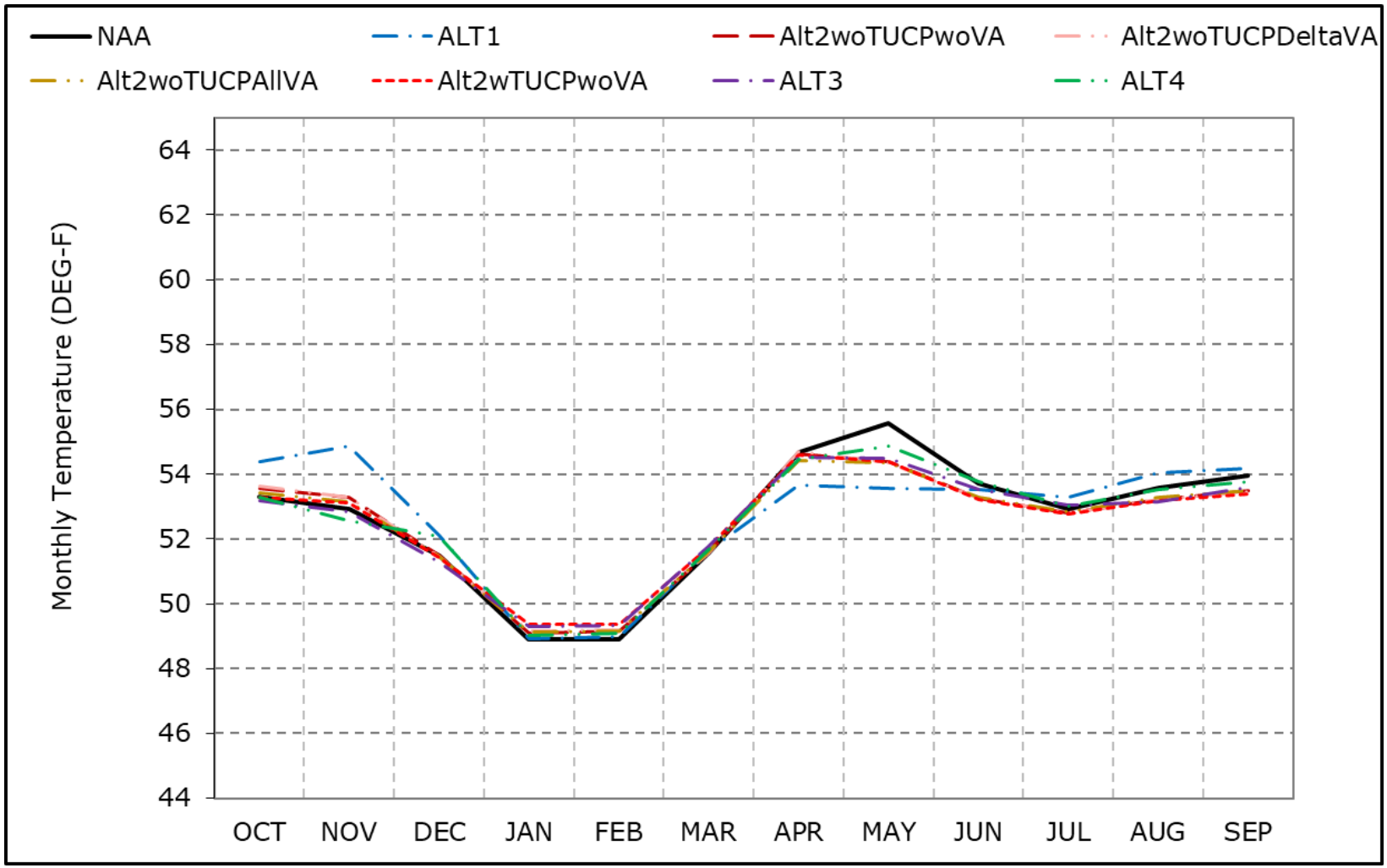
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-2. Sacramento River at Clear Creek, Wet Year Average Temperature



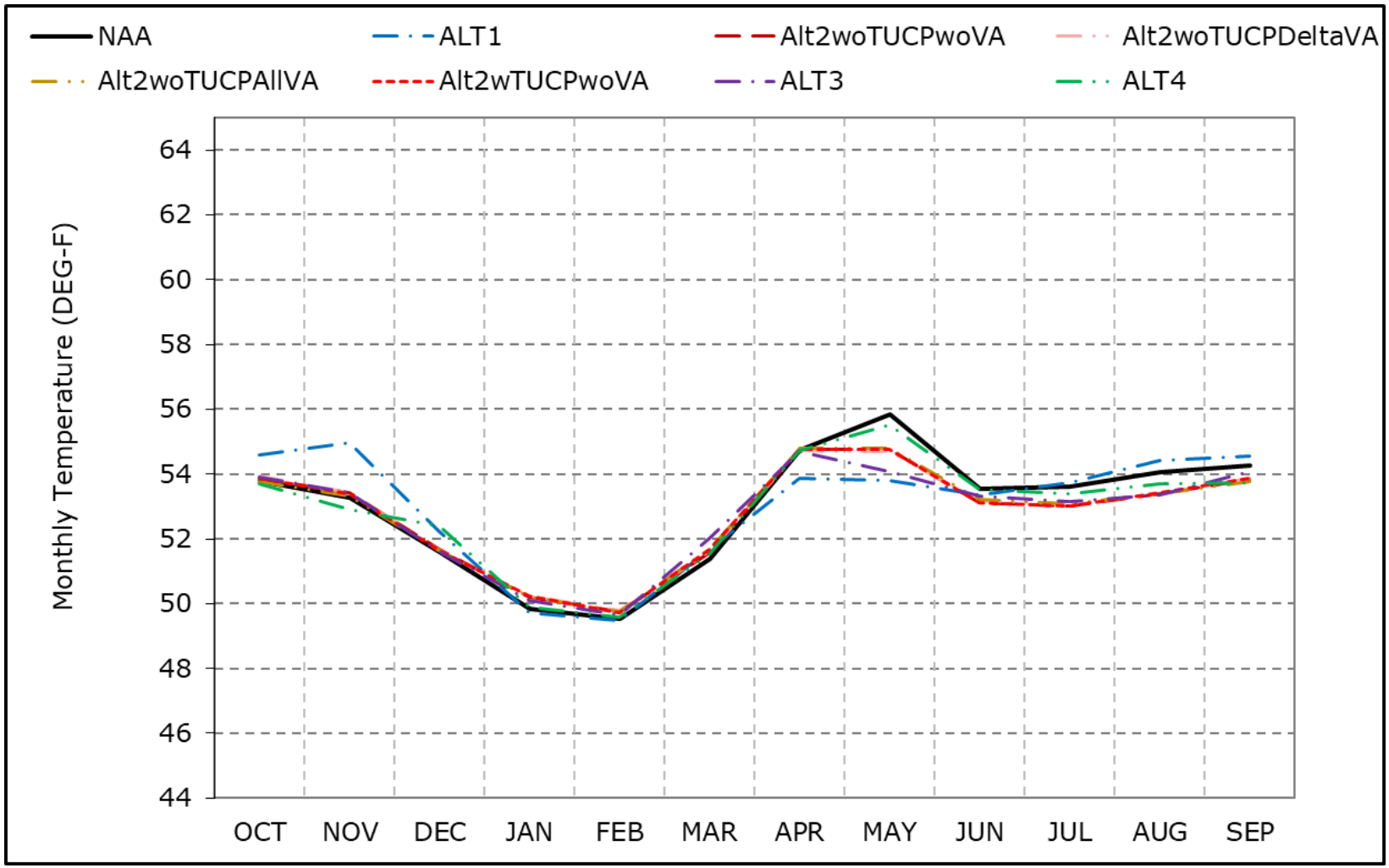
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-3. Sacramento River at Clear Creek, Above Normal Year Average Temperature



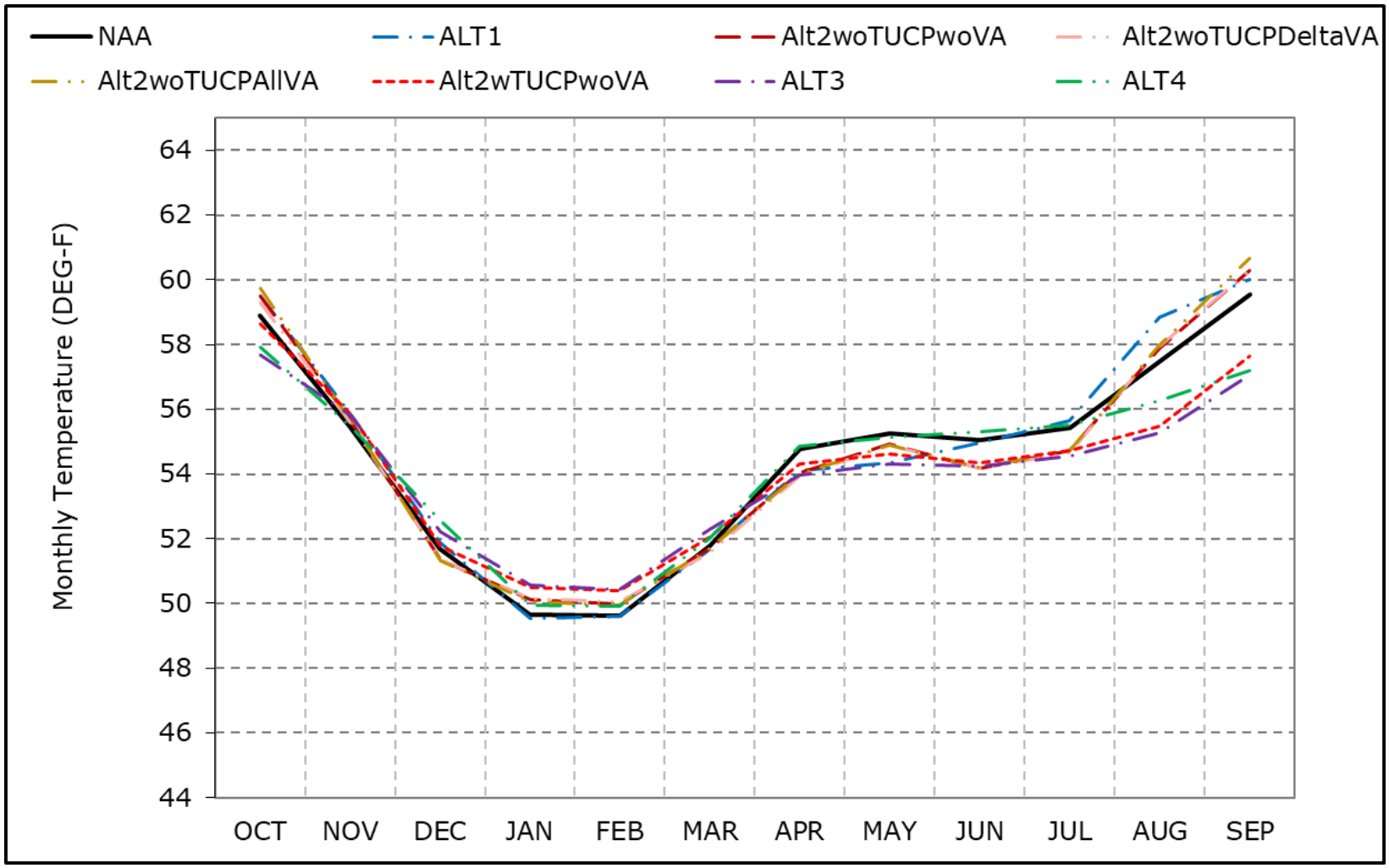
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-4. Sacramento River at Clear Creek, Below Normal Year Average Temperature



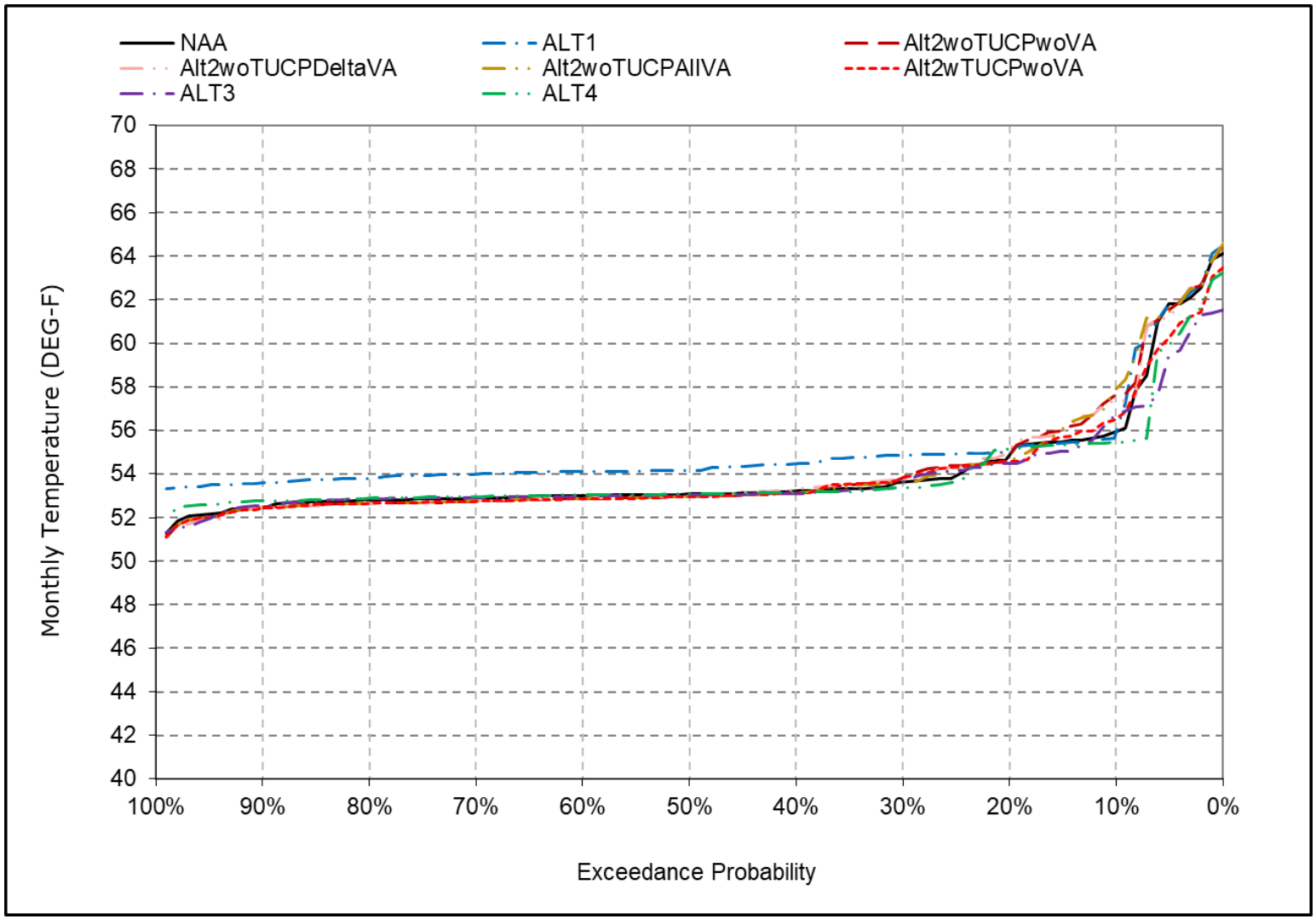
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-5. Sacramento River at Clear Creek, Dry Year Average Temperature



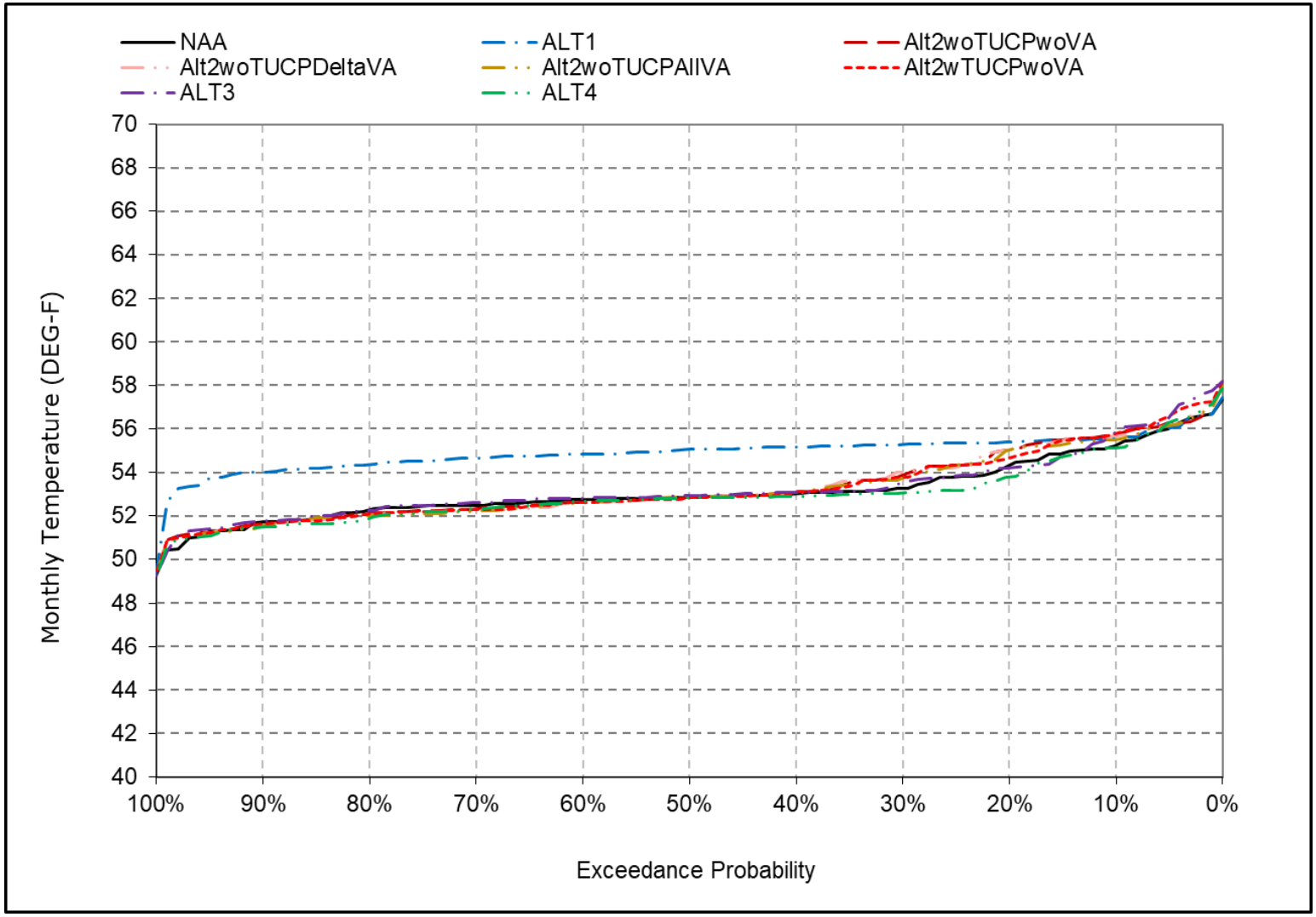
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-6. Sacramento River at Clear Creek, Critical Year Average Temperature



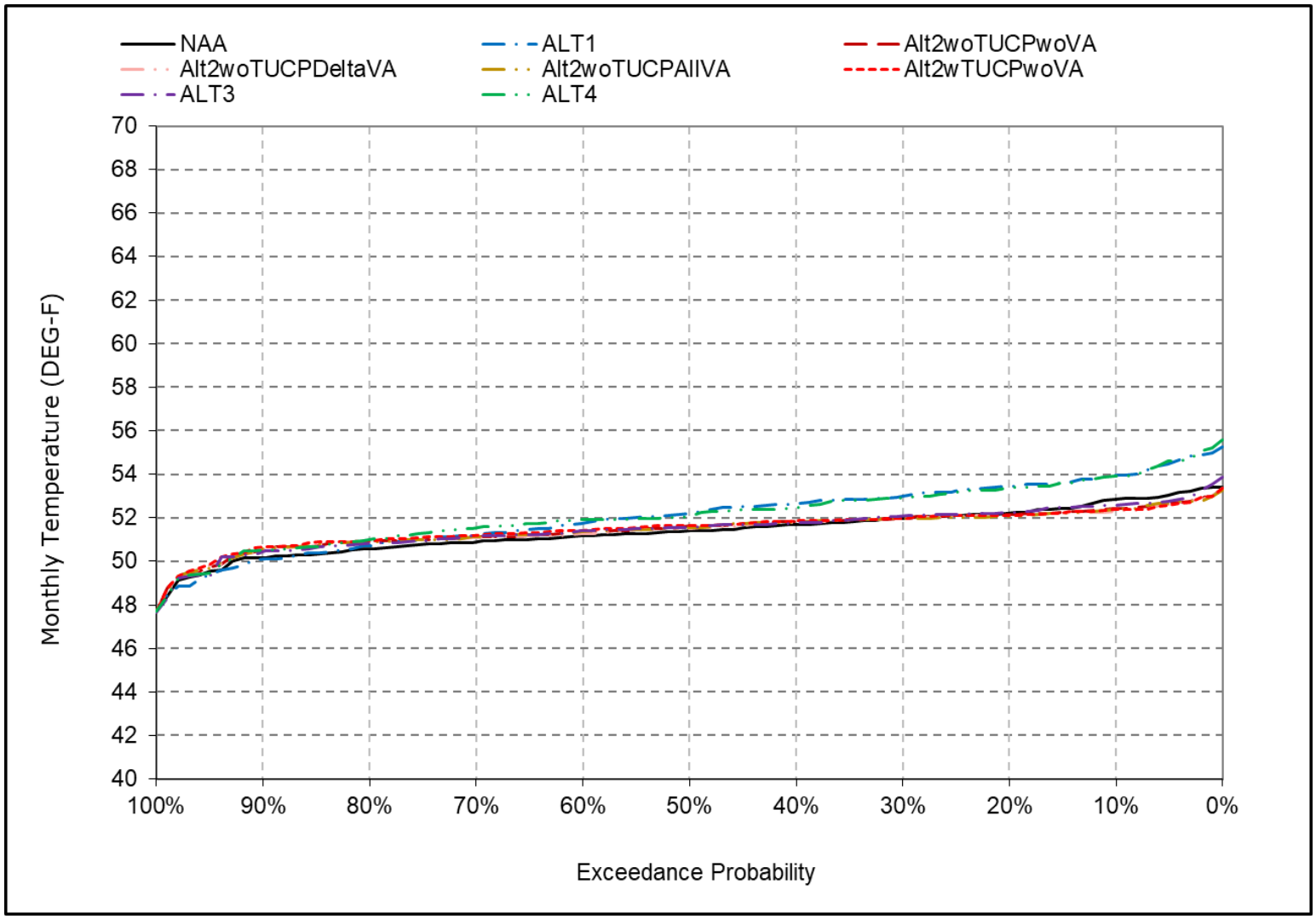
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-7. Sacramento River at Clear Creek, October



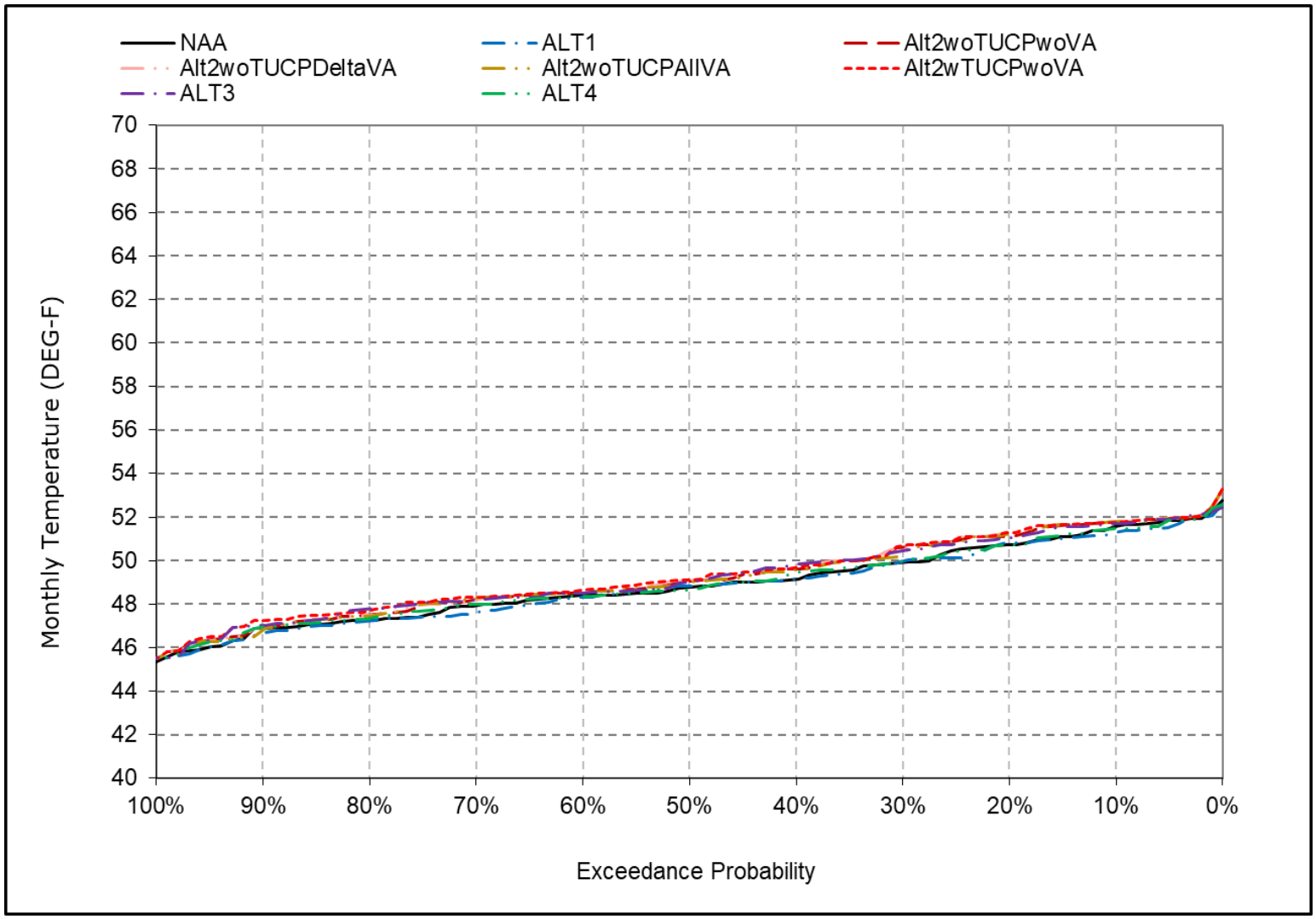
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-8. Sacramento River at Clear Creek, November



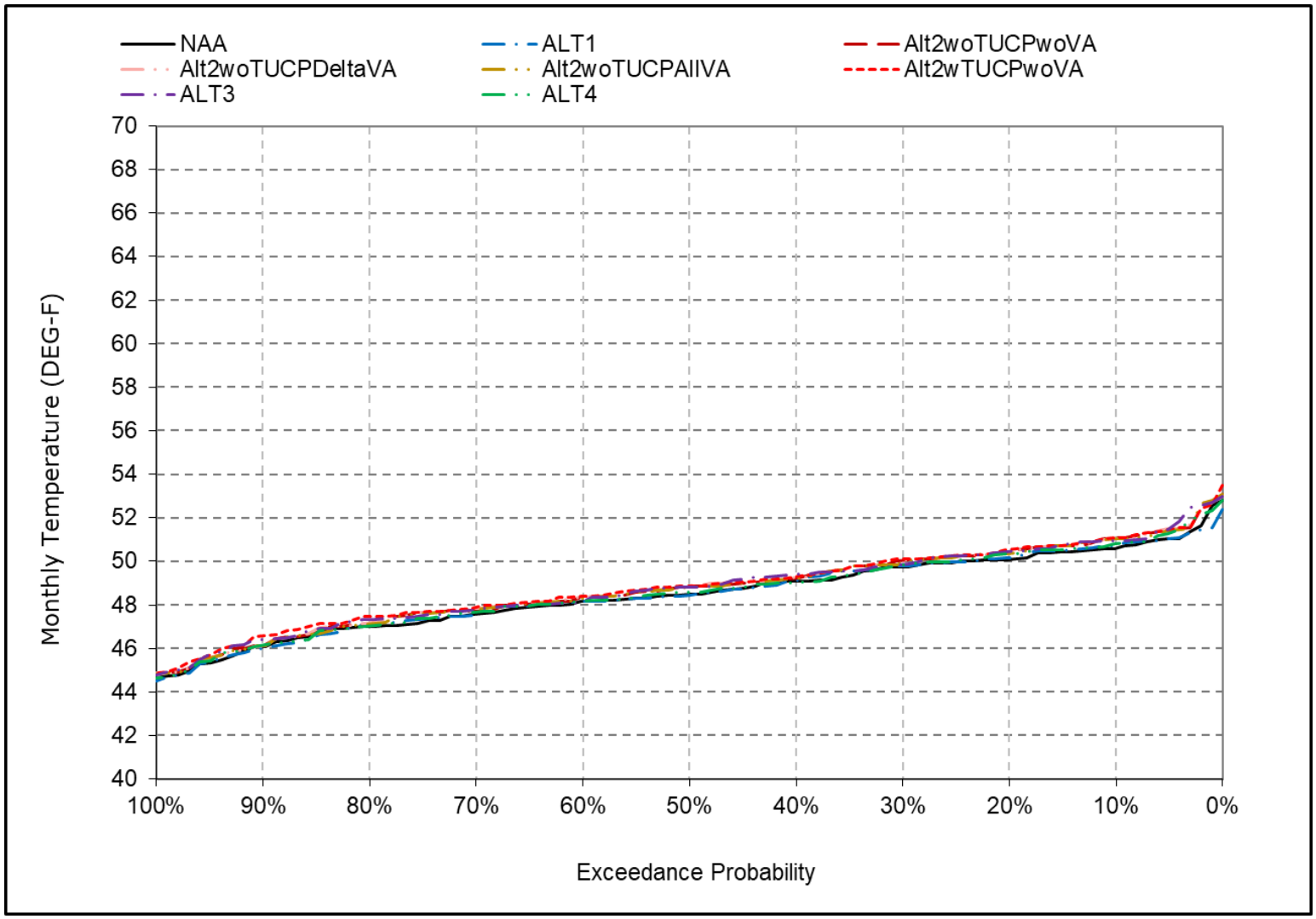
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-9. Sacramento River at Clear Creek, December



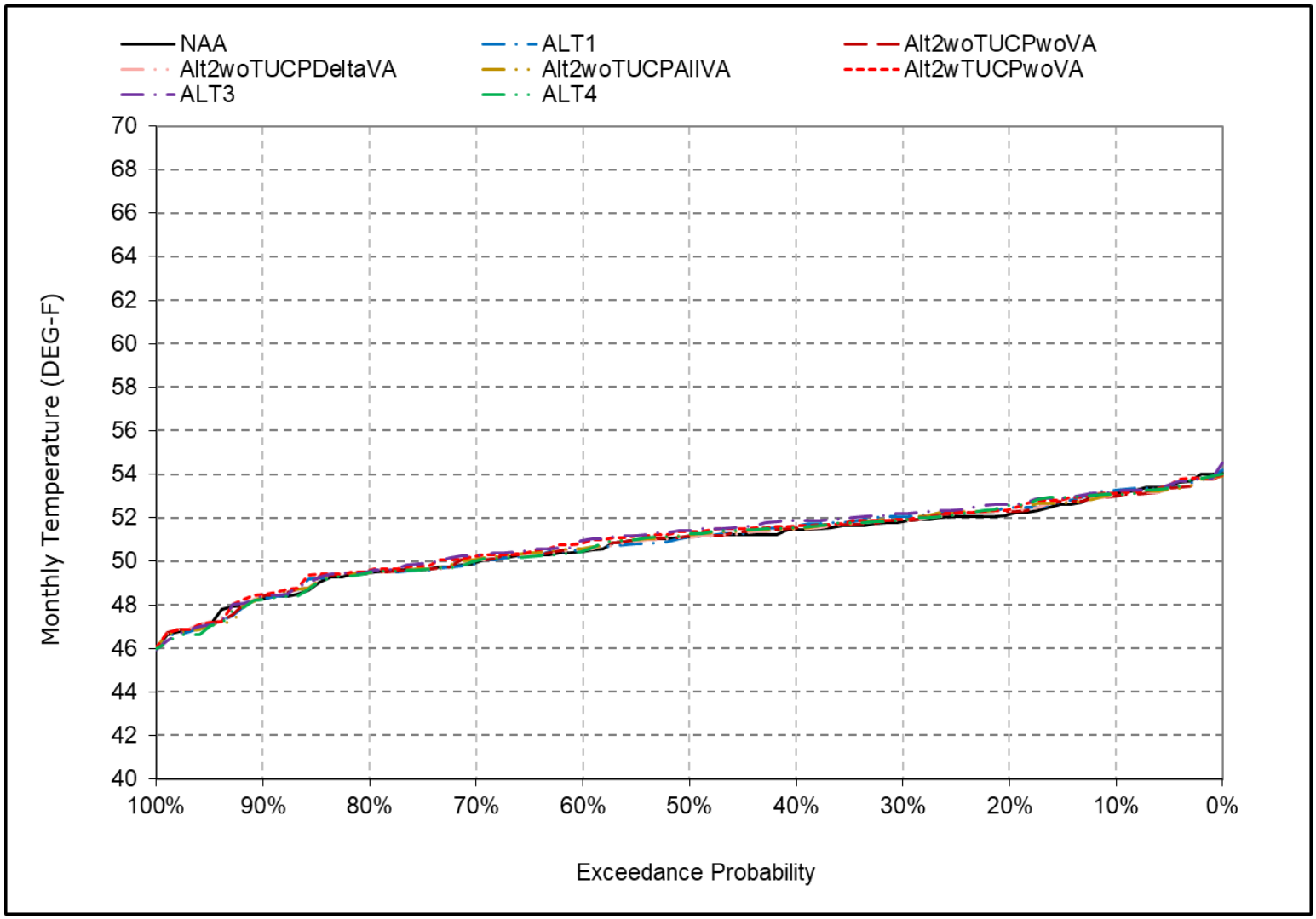
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-10. Sacramento River at Clear Creek, January



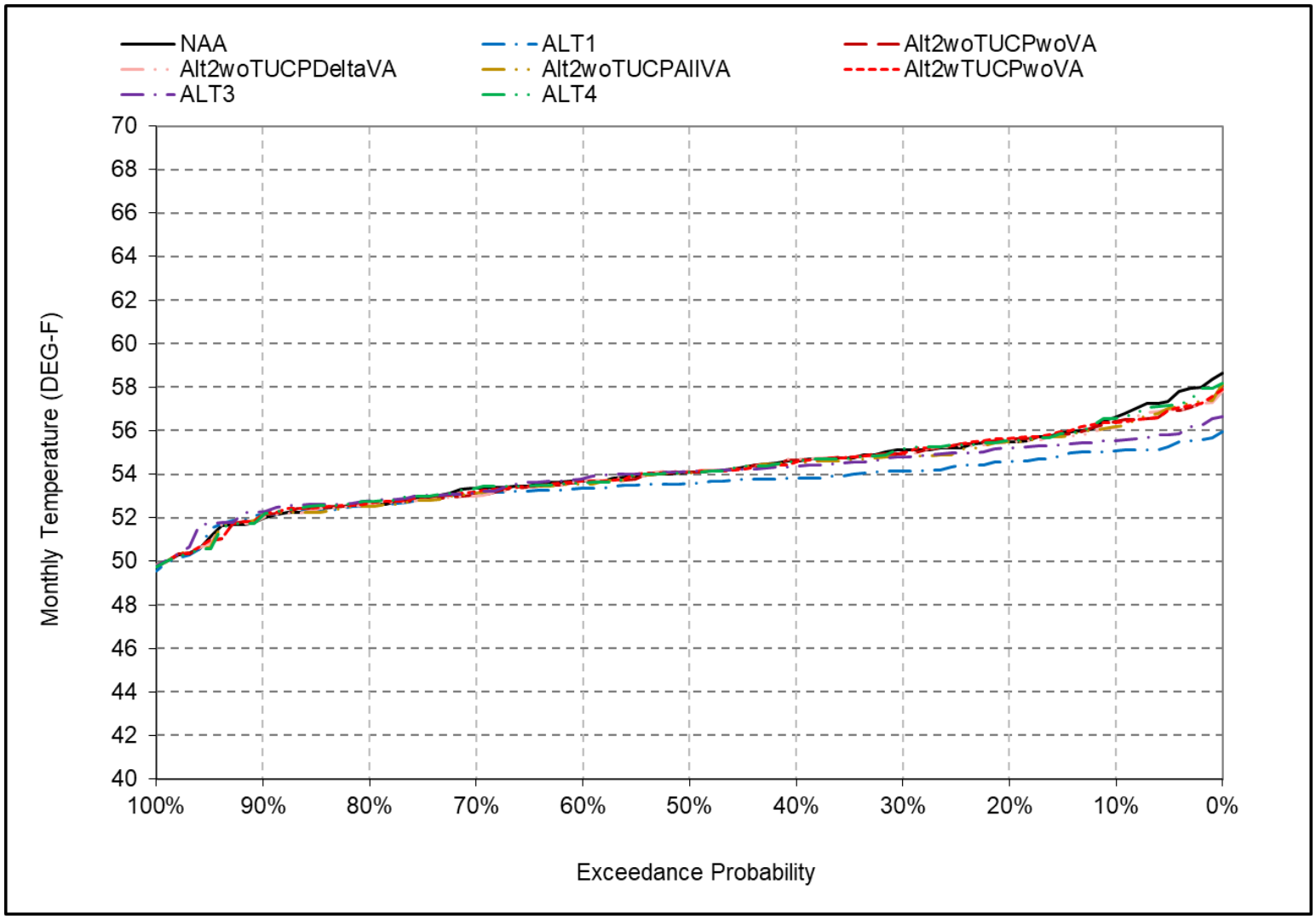
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-11. Sacramento River at Clear Creek, February



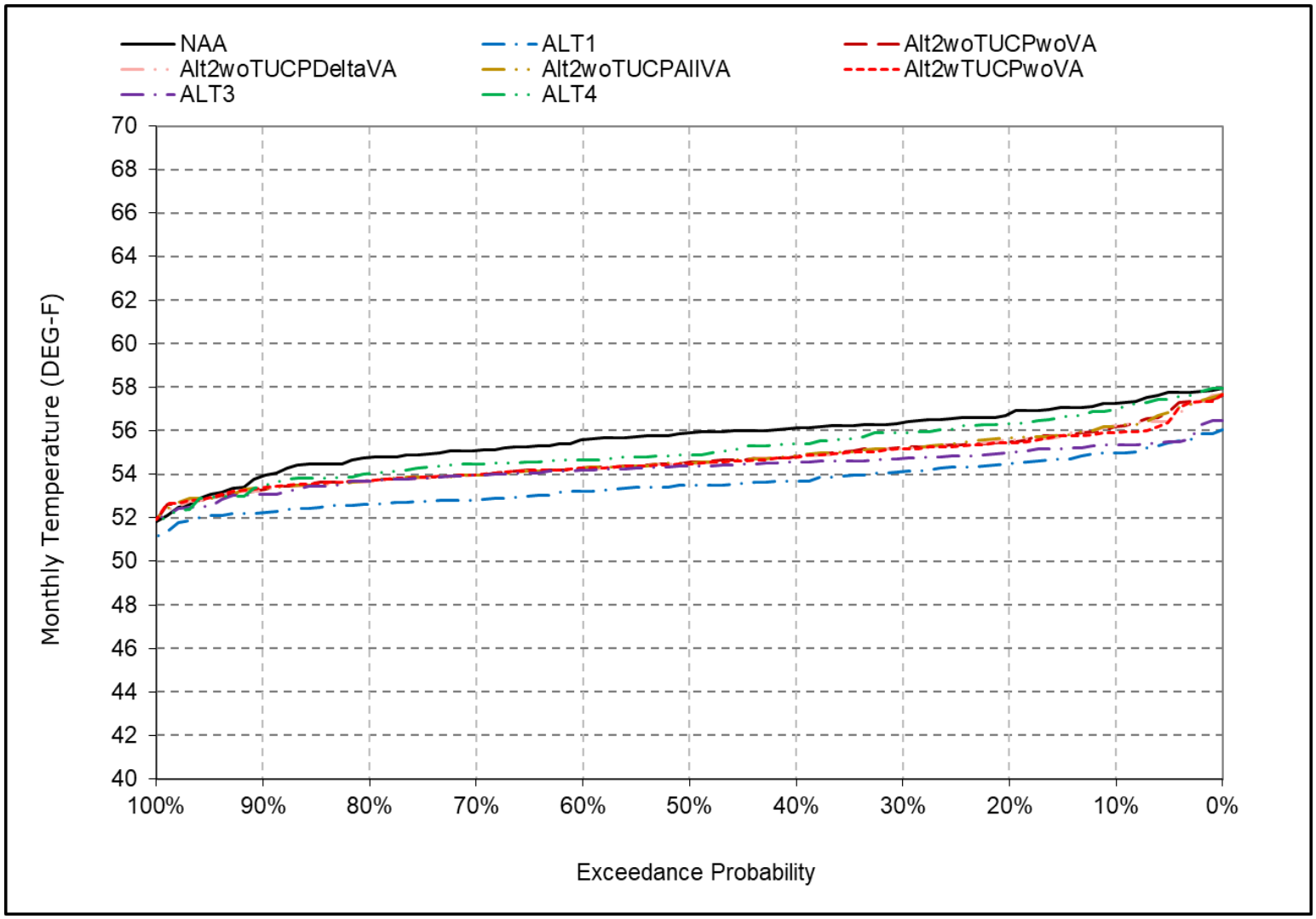
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-12. Sacramento River at Clear Creek, March



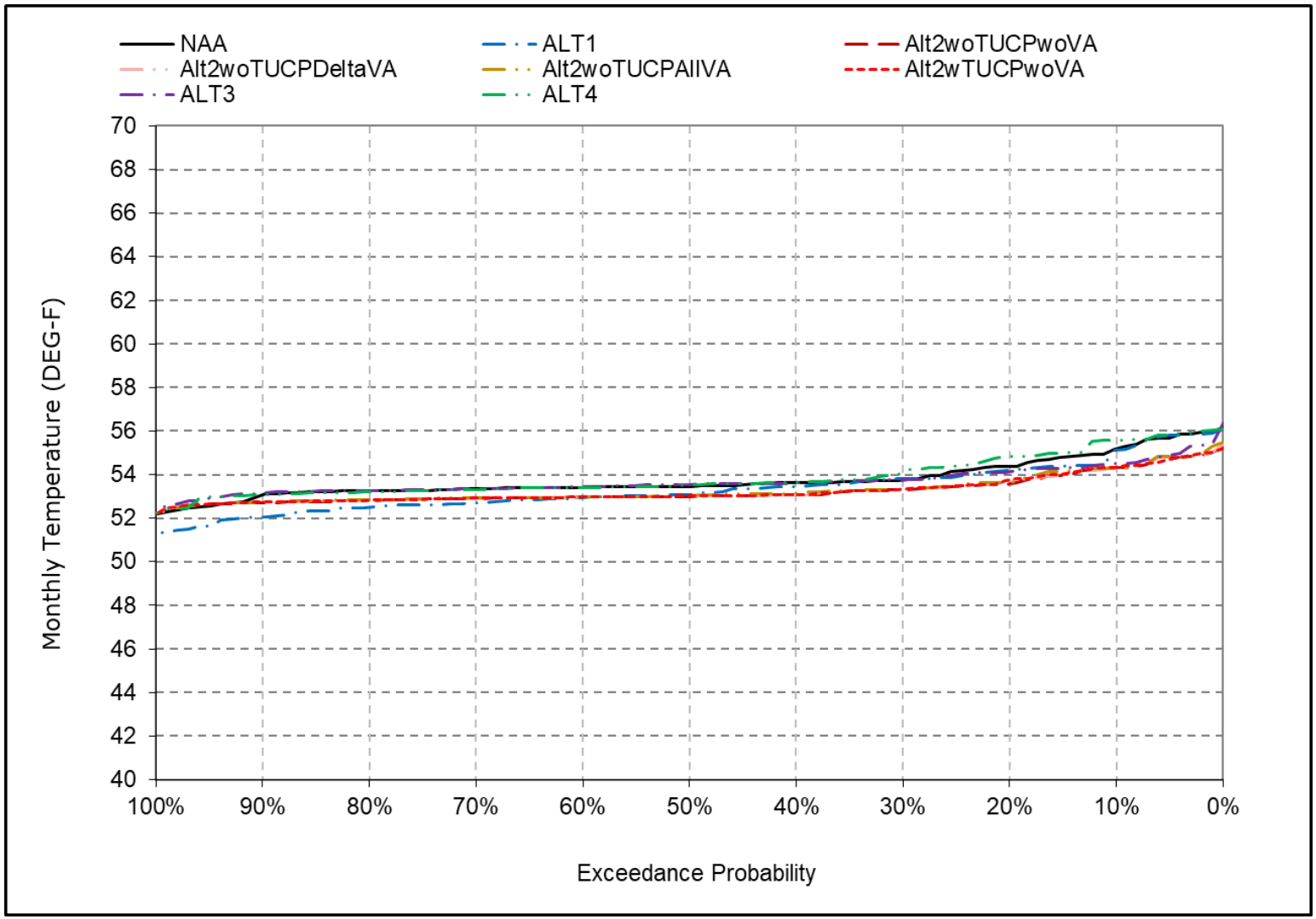
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-13. Sacramento River at Clear Creek, April



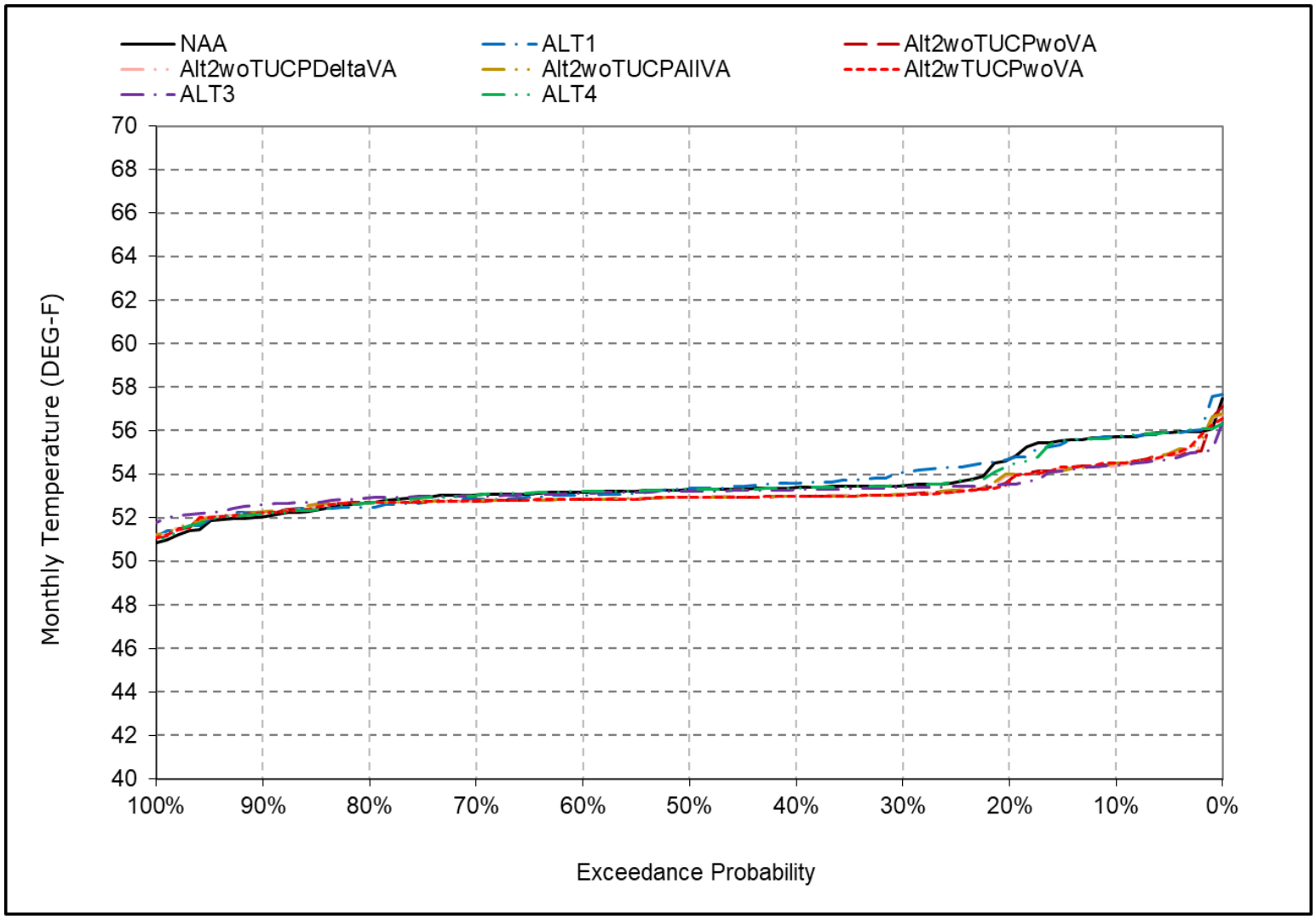
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-14. Sacramento River at Clear Creek, May



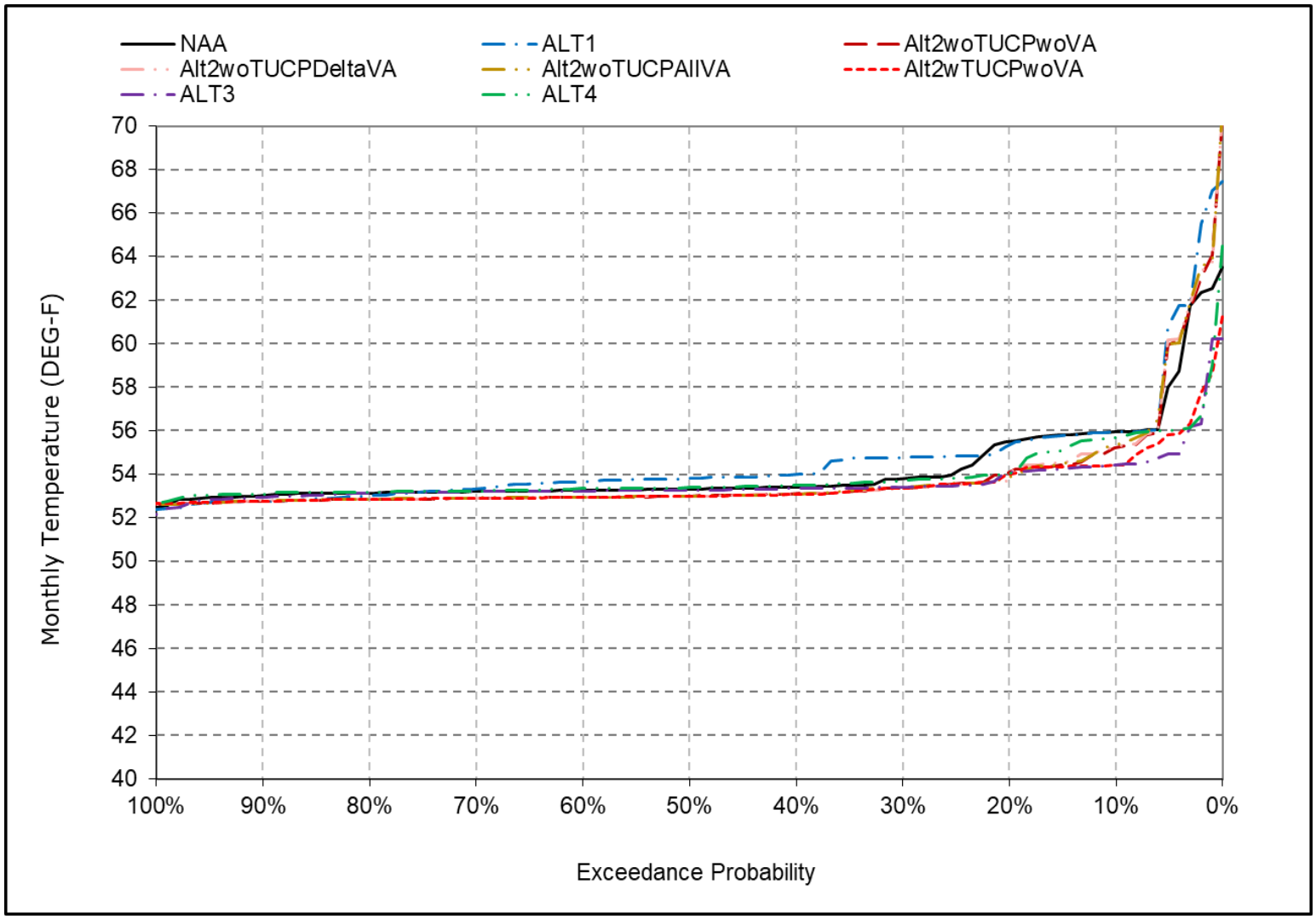
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-15. Sacramento River at Clear Creek, June



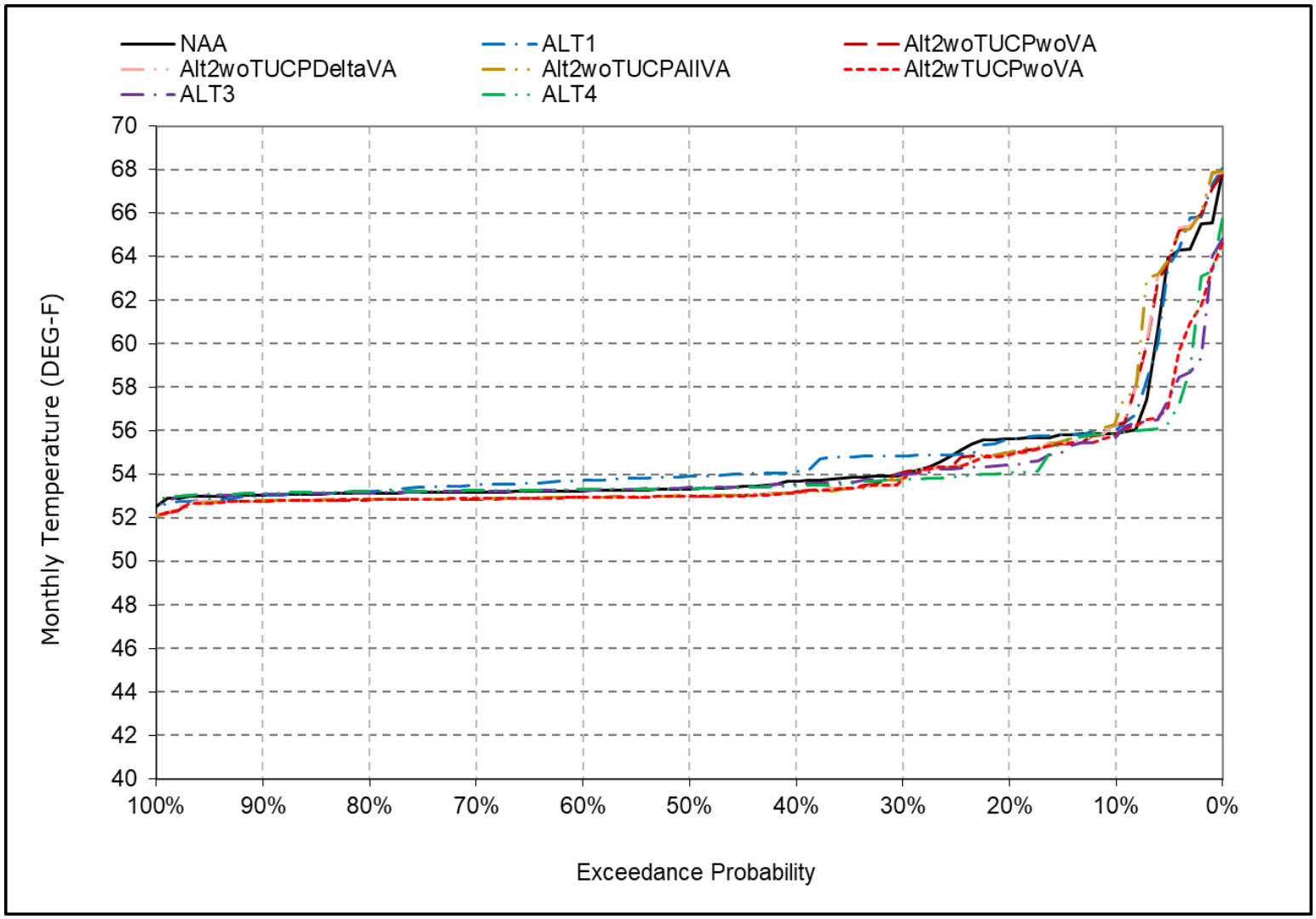
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-16. Sacramento River at Clear Creek, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-17. Sacramento River at Clear Creek, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-6-18. Sacramento River at Clear Creek, September

Table F.2.11-7-1a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-1b. Sacramento River at Balls Ferry, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	55	53	51	51	54	56	57	57	57	57	57
20% Exceedance	56	55	53	50	50	53	56	56	56	56	56	57
30% Exceedance	56	55	52	49	50	53	55	56	55	55	56	56
40% Exceedance	55.1	55.0	51.7	48.7	49.1	52.1	55.0	55.2	54.9	54.7	55.1	55.1
50% Exceedance	54.9	54.7	51.0	48.2	48.7	51.7	54.8	54.9	54.7	54.5	54.9	54.8
60% Exceedance	54.7	54.5	50.5	47.8	48.3	51.1	54.6	54.8	54.4	54.2	54.8	54.8
70% Exceedance	54.6	54.3	50.2	47.5	47.9	50.7	54.3	54.4	54.2	53.9	54.5	54.6
80% Exceedance	54.4	54.1	49.7	47.1	47.2	49.9	53.6	54.2	54.0	53.7	54.1	54.2
90% Exceedance	54.3	53.7	49.0	46.5	46.4	48.6	53.1	53.9	53.7	53.3	53.9	54.1
Full Simulation Period Average[a]	56	55	51	48	49	51	55	55	55	55	56	56
Wet Water Years (28%)	55	54	51	47	47	50	54	55	55	54	55	54
Above Normal Years (14%)	54	54	51	48	48	51	55	54	54	54	54	54
Below Normal Years (18%)	55	55	51	48	49	52	55	55	55	54	55	55
Dry Years (24%)	55	55	51	49	49	52	55	55	55	55	55	56
Critical (16%)	60	56	51	49	50	52	55	56	56	57	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-1c. Sacramento River at Balls Ferry, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.3	1.1	-0.1	0.1	0.2	-1.2	-1.9	0.0	0.0	0.0	0.1
20% Exceedance	0	1	1	0	0	0	-1	-2	0	0	0	0
30% Exceedance	1.1	1.7	1.1	-0.1	0.1	0.1	-0.9	-2.1	-0.7	0.2	0.8	0.6
40% Exceedance	1	2	1	0	0	0	-1	-2	-1	0	0	0
50% Exceedance	1	2	1	0	0	0	-1	-2	0	0	0	0
60% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	1
70% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
80% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
90% Exceedance	1.1	2.1	-0.1	-0.1	-0.1	0.0	0.2	-1.3	-0.5	0.3	0.0	0.2
Full Simulation Period Average[a]	0.9	1.6	0.6	-0.1	0.0	0.0	-0.5	-1.9	-0.5	0.1	0.4	0.3
Wet Water Years (28%)	1.1	2.0	0.8	-0.1	0.0	0.0	-0.2	-2.2	-0.8	-0.1	0.1	0.4
Above Normal Years (14%)	0.8	1.8	1.2	0.1	0.1	0.0	-0.3	-2.9	-0.9	0.0	0.0	0.3
Below Normal Years (18%)	1.0	1.7	0.5	0.0	0.1	0.0	-0.8	-1.9	-0.3	0.4	0.5	0.1
Dry Years (24%)	0.7	1.5	0.5	-0.1	0.0	0.2	-0.7	-1.9	-0.2	0.1	0.3	0.3
Critical (16%)	1	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-2a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-2b. Sacramento River at Balls Ferry, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	52	51	51	53	57	58	56	56	57	57
20% Exceedance	56	55	52	50	50	53	57	57	55	55	55	56
30% Exceedance	55	54	51	50	50	52	56	57	55	54	55	55
40% Exceedance	54.0	53.1	50.9	49.2	49.4	52.1	55.8	56.3	54.9	54.2	54.3	54.5
50% Exceedance	53.8	52.8	50.7	48.4	48.9	51.8	55.0	56.1	54.7	54.1	54.1	54.1
60% Exceedance	53.6	52.6	50.4	48.2	48.5	51.1	54.7	55.8	54.5	53.9	54.0	53.9
70% Exceedance	53.5	52.3	50.0	47.8	47.9	50.7	54.2	55.5	54.3	53.8	53.9	53.8
80% Exceedance	53.3	52.1	49.8	47.3	47.3	49.9	53.7	55.1	54.1	53.6	53.9	53.8
90% Exceedance	53.2	51.6	49.0	46.6	46.7	48.8	53.1	54.7	53.9	53.2	53.8	53.6
Full Simulation Period Average[a]	55	53	51	49	49	51	55	56	55	54	55	55
Wet Water Years (28%)	53	52	51	48	48	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	56	55	54	54	54
Below Normal Years (18%)	54	53	50	49	49	52	56	56	55	54	54	55
Dry Years (24%)	55	53	51	50	50	52	56	56	54	54	55	55
Critical (16%)	60	55	50	50	50	53	55	56	56	56	59	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-2c. Sacramento River at Balls Ferry, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.4	0.4	-0.3	0.5	0.3	0.0	-0.3	-1.0	-0.6	-1.1	-0.6	0.2
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.3	0.5	0.2	0.4	0.2	-0.1	-0.1	-1.0	-0.6	-0.4	-0.5	-0.1
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.0	-0.1	0.1	0.2	0.2	0.2	-0.5	-0.3	0.2	-0.2	-0.2
Full Simulation Period Average[a]	0.1	0.1	0.1	0.3	0.2	0.0	-0.1	-0.9	-0.5	-0.4	-0.3	-0.2
Wet Water Years (28%)	-0.3	0.1	0.4	0.2	0.2	0.0	0.0	-1.0	-0.4	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.3	0.2	0.0	0.1	-1.1	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.2	0.3	0.1	0.2	0.2	0.0	0.0	-1.1	-0.4	-0.1	-0.3	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.3	0.2	0.1	0.0	-0.9	-0.4	-0.5	-0.6	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-3a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-3b. Sacramento River at Balls Ferry, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	52	51	51	54	57	58	56	56	57	57
20% Exceedance	56	55	52	51	50	53	57	57	55	55	55	56
30% Exceedance	55	54	51	50	50	52	56	57	55	54	55	55
40% Exceedance	54.1	53.1	50.8	49.2	49.4	52.0	55.7	56.3	55.0	54.2	54.3	54.5
50% Exceedance	53.8	52.8	50.6	48.4	49.0	51.8	55.0	56.1	54.7	54.1	54.1	54.1
60% Exceedance	53.6	52.6	50.4	48.2	48.6	51.1	54.6	55.8	54.4	53.9	54.0	53.9
70% Exceedance	53.5	52.3	50.0	47.8	48.0	50.6	54.2	55.4	54.3	53.8	53.9	53.9
80% Exceedance	53.3	52.1	49.8	47.2	47.3	49.9	53.6	55.0	54.1	53.6	53.9	53.8
90% Exceedance	53.1	51.5	49.0	46.7	46.6	48.8	52.8	54.8	53.9	53.2	53.7	53.7
Full Simulation Period Average[a]	55	53	51	49	49	51	55	56	55	54	55	55
Wet Water Years (28%)	53	52	51	48	48	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	56	55	54	54	54
Below Normal Years (18%)	54	53	50	49	49	52	56	56	55	54	54	55
Dry Years (24%)	55	53	51	50	50	52	56	56	55	54	55	55
Critical (16%)	60	55	50	50	50	52	55	56	56	56	59	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-3c. Sacramento River at Balls Ferry, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.9	0.5	-0.3	0.4	0.3	0.1	-0.4	-1.1	-0.5	-1.1	-0.6	0.4
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-2	0
30% Exceedance	0.1	0.4	0.1	0.4	0.2	-0.1	-0.1	-1.1	-0.6	-0.3	-0.5	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.1	-0.1	0.1	0.1	0.2	0.0	-0.4	-0.3	0.2	-0.3	-0.2
Full Simulation Period Average[a]	0.1	0.1	0.1	0.3	0.2	0.0	-0.1	-0.9	-0.5	-0.4	-0.2	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.2	0.1	0.0	-1.0	-0.4	-0.3	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.3	0.2	0.0	0.1	-1.1	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.3	0.3	0.0	0.2	0.2	0.0	0.0	-1.1	-0.5	-0.1	-0.3	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.4	0.2	0.2	0.0	-1.0	-0.3	-0.5	-0.6	-0.4
Critical (16%)	0	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-4a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-4b. Sacramento River at Balls Ferry, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	52	51	51	53	57	58	56	56	57	58
20% Exceedance	56	55	52	50	50	53	57	57	56	55	55	56
30% Exceedance	55	54	51	50	50	52	56	57	55	55	55	55
40% Exceedance	54.0	53.1	50.9	49.2	49.3	52.1	55.6	56.4	55.0	54.3	54.3	54.4
50% Exceedance	53.7	52.9	50.6	48.4	48.9	51.8	55.1	56.1	54.8	54.1	54.2	54.1
60% Exceedance	53.6	52.6	50.4	48.2	48.5	51.2	54.7	55.8	54.5	53.9	54.1	53.9
70% Exceedance	53.5	52.3	50.1	47.9	48.0	50.7	54.1	55.4	54.4	53.8	54.0	53.9
80% Exceedance	53.3	52.1	49.7	47.2	47.3	49.9	53.6	55.0	54.2	53.6	53.9	53.8
90% Exceedance	53.1	51.5	49.0	46.6	46.7	48.8	53.1	54.7	53.9	53.2	53.8	53.6
Full Simulation Period Average[a]	55	53	51	49	49	51	55	56	55	54	55	55
Wet Water Years (28%)	53	52	51	48	48	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	56	55	54	54	54
Below Normal Years (18%)	54	53	50	49	49	52	55	56	55	54	54	55
Dry Years (24%)	55	53	51	50	50	52	56	56	55	54	55	55
Critical (16%)	60	55	50	50	50	52	55	56	56	56	59	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-4c. Sacramento River at Balls Ferry, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.7	0.3	-0.3	0.5	0.3	0.0	-0.5	-1.0	-0.5	-1.1	-0.6	0.5
20% Exceedance	0	1	0	1	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.0	0.3	0.1	0.4	0.1	0.1	-0.3	-1.2	-0.6	-0.3	-0.5	-0.3
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.2	-0.1	0.1	0.2	0.1	0.2	-0.4	-0.3	0.2	-0.2	-0.2
Full Simulation Period Average[a]	0.1	0.1	0.1	0.3	0.2	0.0	-0.2	-0.9	-0.4	-0.3	-0.2	-0.1
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.2	0.0	0.0	-1.0	-0.4	-0.3	-0.3	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.1	0.3	0.2	0.0	-0.1	-1.1	-0.3	-0.2	-0.3	-0.2
Below Normal Years (18%)	0.1	0.2	0.0	0.2	0.2	0.0	-0.3	-1.1	-0.3	0.0	-0.3	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.3	0.2	0.2	0.1	-0.9	-0.2	-0.5	-0.6	-0.5
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-5a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-5b. Sacramento River at Balls Ferry, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	52	51	51	54	58	57	56	56	56	57
20% Exceedance	56	54	52	50	50	53	57	57	56	55	55	56
30% Exceedance	55	54	51	50	50	53	56	57	55	54	54	55
40% Exceedance	54.1	53.1	50.9	49.2	49.4	52.2	55.8	56.3	54.9	54.2	54.2	54.3
50% Exceedance	53.7	52.8	50.7	48.4	49.0	51.9	55.2	56.1	54.7	54.1	54.1	54.0
60% Exceedance	53.5	52.5	50.4	48.2	48.6	51.5	54.7	55.8	54.5	53.9	54.0	53.9
70% Exceedance	53.4	52.3	50.1	47.9	48.0	50.7	54.4	55.5	54.3	53.8	53.9	53.8
80% Exceedance	53.3	52.0	49.9	47.3	47.5	49.9	53.7	55.2	54.1	53.6	53.9	53.8
90% Exceedance	53.2	51.6	49.1	47.0	46.7	48.8	53.1	54.7	53.9	53.2	53.8	53.6
Full Simulation Period Average[a]	55	53	51	49	49	52	55	56	55	54	55	55
Wet Water Years (28%)	53	52	51	48	48	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	56	55	54	54	54
Below Normal Years (18%)	54	53	50	49	49	52	56	56	55	54	54	55
Dry Years (24%)	55	53	51	50	50	52	56	56	54	54	55	55
Critical (16%)	59	56	50	50	51	53	56	56	56	56	57	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-5c. Sacramento River at Balls Ferry, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.5	-0.3	0.6	0.3	0.2	-0.1	-1.4	-0.6	-1.0	-1.3	-0.1
20% Exceedance	0	0	0	1	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.2	0.4	0.1	0.5	0.2	0.1	-0.1	-1.2	-0.6	-0.4	-0.5	-0.3
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	-0.1	0.1	0.4	0.2	0.2	0.3	-0.4	-0.3	0.2	-0.2	-0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.4	0.3	0.1	-0.1	-0.9	-0.5	-0.3	-0.6	-0.6
Wet Water Years (28%)	-0.2	0.1	0.4	0.2	0.2	0.0	0.0	-1.0	-0.4	-0.3	-0.3	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.3	0.2	0.1	-1.0	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.0	0.2	0.0	0.3	0.4	0.1	-0.1	-1.1	-0.5	-0.1	-0.4	-0.6
Dry Years (24%)	0.1	0.1	0.1	0.4	0.2	0.2	0.0	-1.0	-0.4	-0.5	-0.6	-0.4
Critical (16%)	0	0	0	1	1	0	0	0	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-6a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-6b. Sacramento River at Balls Ferry, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	56	52	51	51	54	57	57	56	56	56	57
20% Exceedance	55	54	51	50	50	53	56	56	56	55	55	56
30% Exceedance	55	53	51	50	50	53	56	56	56	55	55	55
40% Exceedance	53.9	53.1	50.9	49.2	49.4	52.4	55.9	56.0	55.5	54.5	54.4	54.9
50% Exceedance	53.8	52.9	50.7	48.4	49.0	51.9	55.5	55.8	55.3	54.3	54.4	54.6
60% Exceedance	53.7	52.8	50.5	48.1	48.4	51.5	55.0	55.7	55.1	54.2	54.2	54.4
70% Exceedance	53.6	52.5	50.3	47.8	48.0	50.7	54.4	55.3	54.8	54.0	54.1	54.3
80% Exceedance	53.4	52.3	49.9	47.4	47.4	49.8	53.8	55.0	54.5	53.8	54.0	54.1
90% Exceedance	53.3	51.8	49.3	46.9	46.6	48.7	53.2	54.4	54.3	53.5	53.8	53.9
Full Simulation Period Average[a]	55	53	51	49	49	52	55	56	55	54	55	55
Wet Water Years (28%)	53	53	51	48	47	50	54	56	56	54	55	54
Above Normal Years (14%)	54	53	50	48	48	51	55	56	56	54	54	54
Below Normal Years (18%)	54	53	50	49	49	52	56	56	55	54	54	55
Dry Years (24%)	55	53	51	49	50	53	56	56	55	54	54	55
Critical (16%)	58	56	51	50	51	53	55	56	56	56	56	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-6c. Sacramento River at Balls Ferry, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.5	-0.1	0.5	0.1	0.4	-0.9	-1.7	-0.2	-1.1	-1.2	-0.2
20% Exceedance	0	0	0	1	0	0	0	-2	0	-1	-1	-1
30% Exceedance	0.1	-0.1	0.0	0.3	0.1	0.4	-0.2	-1.6	-0.2	0.0	-0.5	-0.2
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.1	0.1	0.2	0.3	0.1	0.0	0.3	-0.7	0.0	0.5	-0.1	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.2	0.3	0.2	0.2	-0.1	-1.3	0.1	-0.1	-0.6	-0.4
Wet Water Years (28%)	-0.1	0.1	0.2	0.1	0.1	-0.1	-0.1	-1.5	0.5	0.0	0.1	0.2
Above Normal Years (14%)	0.0	0.2	0.3	0.1	0.1	0.0	-0.2	-1.7	0.7	0.3	0.0	0.1
Below Normal Years (18%)	-0.1	-0.1	0.0	0.3	0.3	0.2	0.0	-0.9	-0.1	0.2	-0.5	-0.3
Dry Years (24%)	0.1	0.2	0.1	0.2	0.1	0.5	0.2	-1.5	-0.2	-0.4	-0.8	-0.1
Critical (16%)	-1	0	0	1	1	0	-1	-1	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-7a. Sacramento River at Balls Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56.8	55.2	52.1	50.6	50.8	53.5	57.6	58.9	56.7	56.9	57.1	57.1
20% Exceedance	55.8	54.1	51.5	49.8	50.0	52.9	56.8	58.3	56.1	56.0	56.6	56.7
30% Exceedance	54.5	53.4	51.2	49.4	49.6	52.4	56.3	57.8	55.9	54.8	55.0	55.3
40% Exceedance	54.1	53.1	50.8	48.8	49.1	52.1	55.8	57.4	55.4	54.6	54.6	54.9
50% Exceedance	54	53	50	48	49	52	55	57	55	54	54	54
60% Exceedance	54	53	50	48	48	51	55	57	55	54	54	54
70% Exceedance	54	52	50	48	48	51	55	57	55	54	54	54
80% Exceedance	53	52	50	47	47	50	54	56	55	54	54	54
90% Exceedance	53	52	49	47	46	49	53	55	54	53	54	54
Full Simulation Period Average[a]	55	53	50	48	49	51	55	57	55	55	55	56
Wet Water Years (28%)	53	52	51	48	47	50	54	57	55	54	54	54
Above Normal Years (14%)	54	52	50	48	48	51	55	57	55	54	54	54
Below Normal Years (18%)	54	53	50	48	49	52	56	57	55	54	55	55
Dry Years (24%)	54.6	53.2	50.8	49.2	49.4	52.0	55.8	57.1	54.8	54.6	55.1	55.4
Critical (16%)	59	55	50	49	50	53	56	57	56	57	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-7b. Sacramento River at Balls Ferry, Alternative 4, Monthly Temperature (°F)

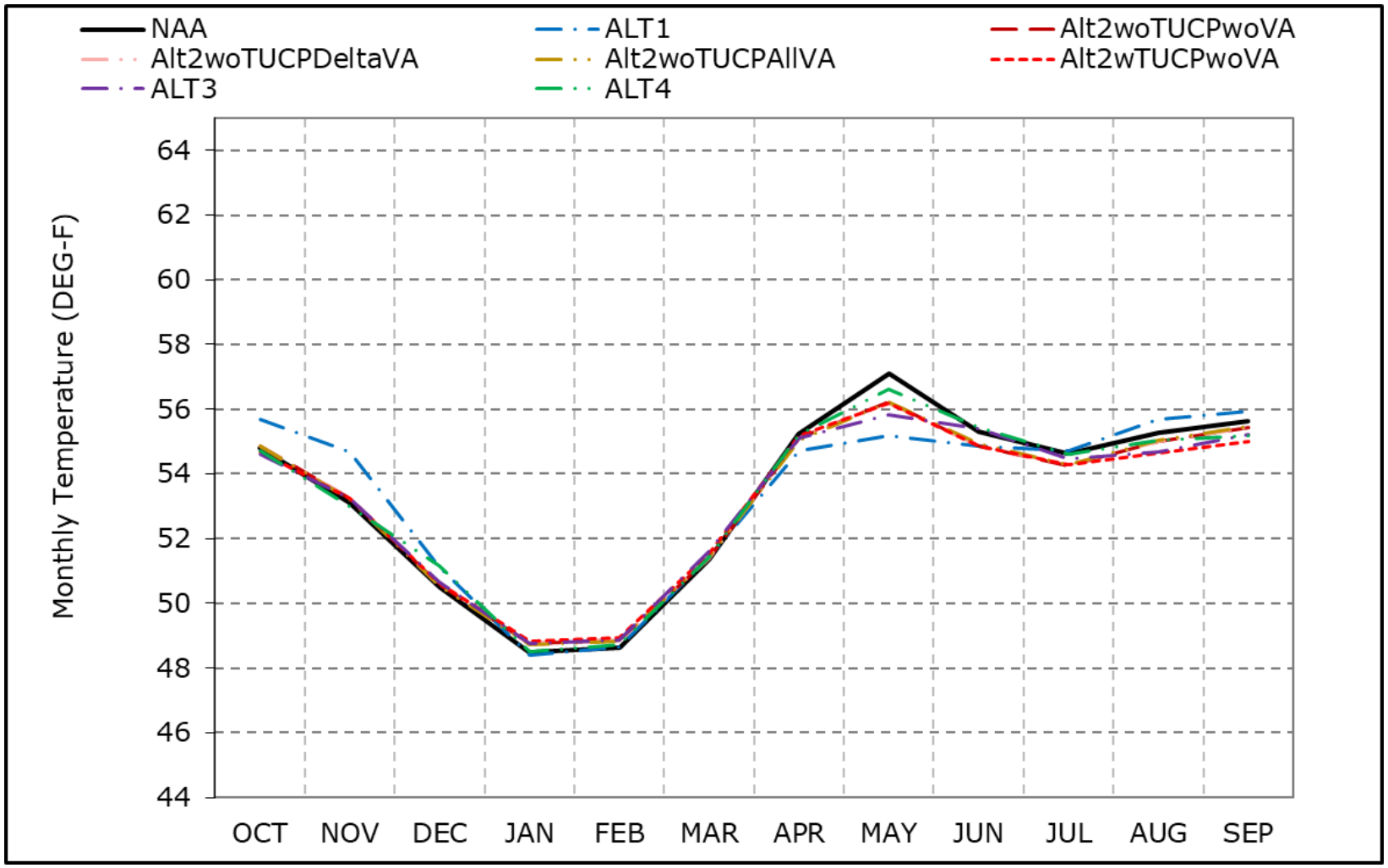
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	54	57	59	57	57	57	57
20% Exceedance	56	54	53	50	50	53	57	58	56	56	55	55
30% Exceedance	54	53	52	50	50	53	56	57	56	55	55	55
40% Exceedance	54.0	52.9	51.5	48.9	49.2	52.1	55.7	57.0	55.5	54.6	54.6	54.6
50% Exceedance	53.9	52.7	51.1	48.2	48.8	51.8	55.2	56.4	55.2	54.4	54.5	54.5
60% Exceedance	53.7	52.6	50.7	47.9	48.4	51.1	54.7	56.1	55.0	54.2	54.4	54.4
70% Exceedance	53.7	52.2	50.3	47.6	47.8	50.6	54.3	55.8	54.7	54.0	54.3	54.3
80% Exceedance	53.5	51.9	50.0	47.1	47.1	49.8	53.8	55.4	54.5	53.6	54.2	54.2
90% Exceedance	53.4	51.6	49.3	46.7	46.4	48.6	53.0	54.9	54.2	53.1	54.1	54.1
Full Simulation Period Average[a]	55	53	51	49	49	51	55	57	55	55	55	55
Wet Water Years (28%)	54	52	51	47	47	50	54	57	56	54	54	54
Above Normal Years (14%)	54	52	51	48	48	51	55	56	55	54	54	54
Below Normal Years (18%)	54	53	51	48	49	52	56	56	55	54	55	55
Dry Years (24%)	55	53	51	49	49	52	56	57	55	54	55	55
Critical (16%)	58	55	51	50	50	53	56	57	57	57	57	58

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-7-7c. Sacramento River at Balls Ferry, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

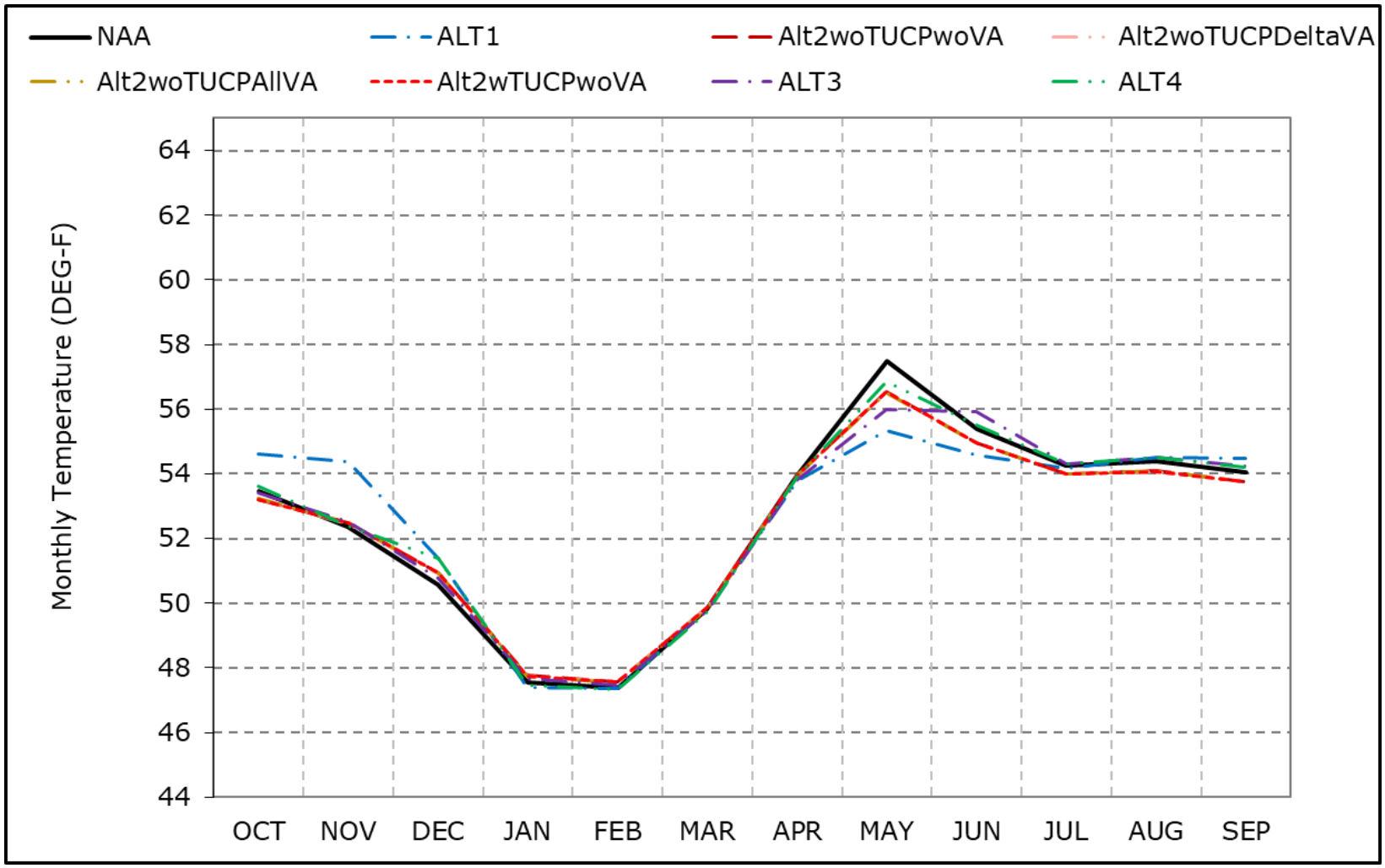
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.6	-0.1	1.2	-0.1	0.2	0.3	-0.3	-0.3	0.4	0.1	-0.2	-0.1
20% Exceedance	0	0	1	0	0	0	0	-1	0	0	-1	-1
30% Exceedance	-0.1	-0.2	0.9	0.2	-0.1	0.1	0.0	-0.4	0.1	0.1	-0.2	-0.4
40% Exceedance	0	0	1	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	1	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.2	-0.1	0.2	0.2	-0.1	0.0	0.1	-0.3	0.0	0.1	0.1	0.2
Full Simulation Period Average[a]	-0.1	-0.1	0.7	0.0	0.1	0.0	0.0	-0.5	0.1	0.0	-0.2	-0.4
Wet Water Years (28%)	0.2	0.0	0.8	-0.1	-0.1	-0.1	0.0	-0.6	0.1	0.0	0.1	0.1
Above Normal Years (14%)	0.2	0.0	0.7	0.0	0.0	-0.1	0.0	-0.7	0.1	0.0	0.1	0.4
Below Normal Years (18%)	0.0	-0.3	0.5	0.1	0.2	0.1	-0.2	-0.6	0.0	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.3	0.7	0.0	0.0	0.1	0.0	-0.3	0.0	-0.2	-0.3	-0.5
Critical (16%)	-1	0	1	0	0	0	0	0	0	0	-1	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



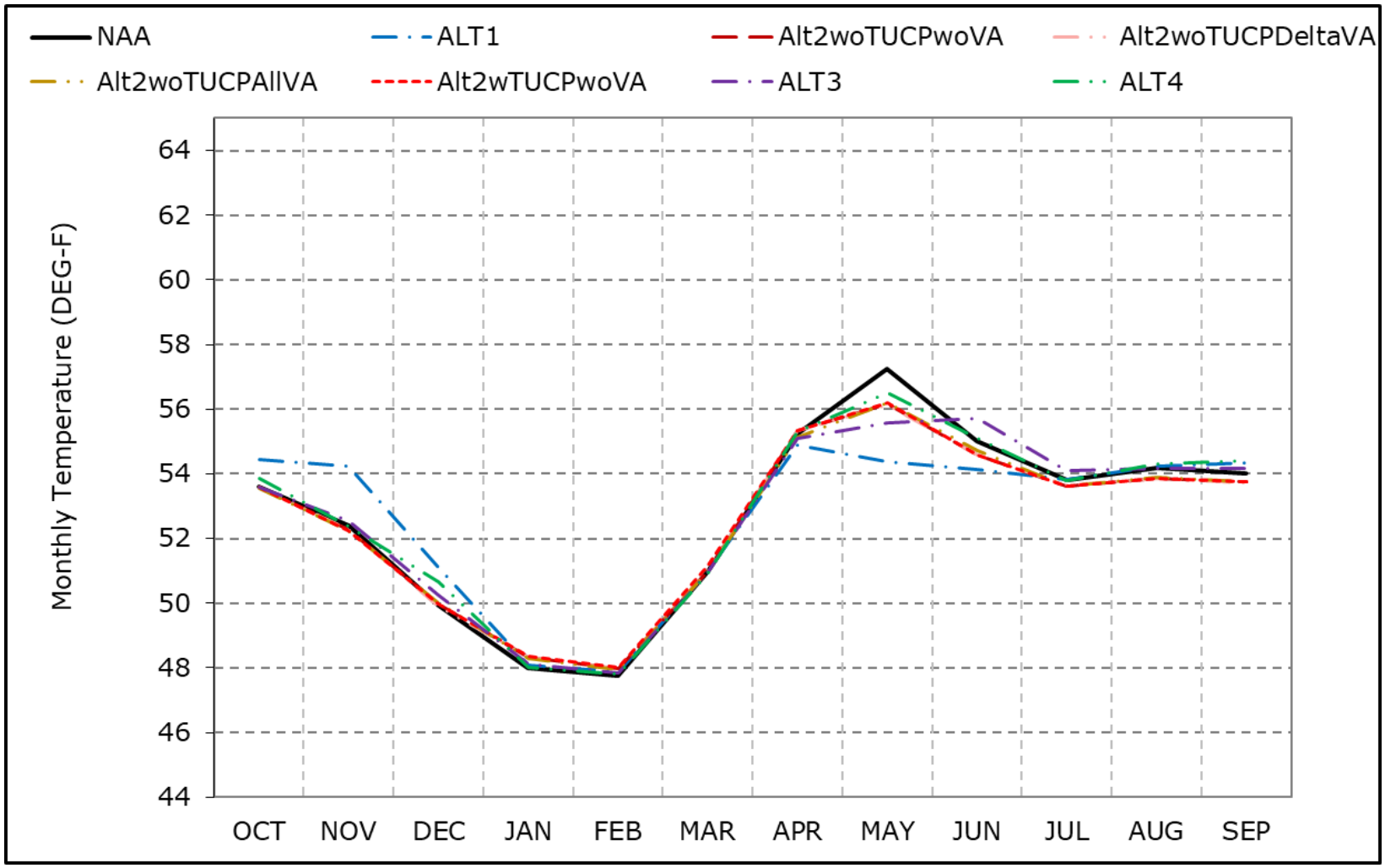
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-1. Sacramento River at Balls Ferry, Long-Term Average Temperature



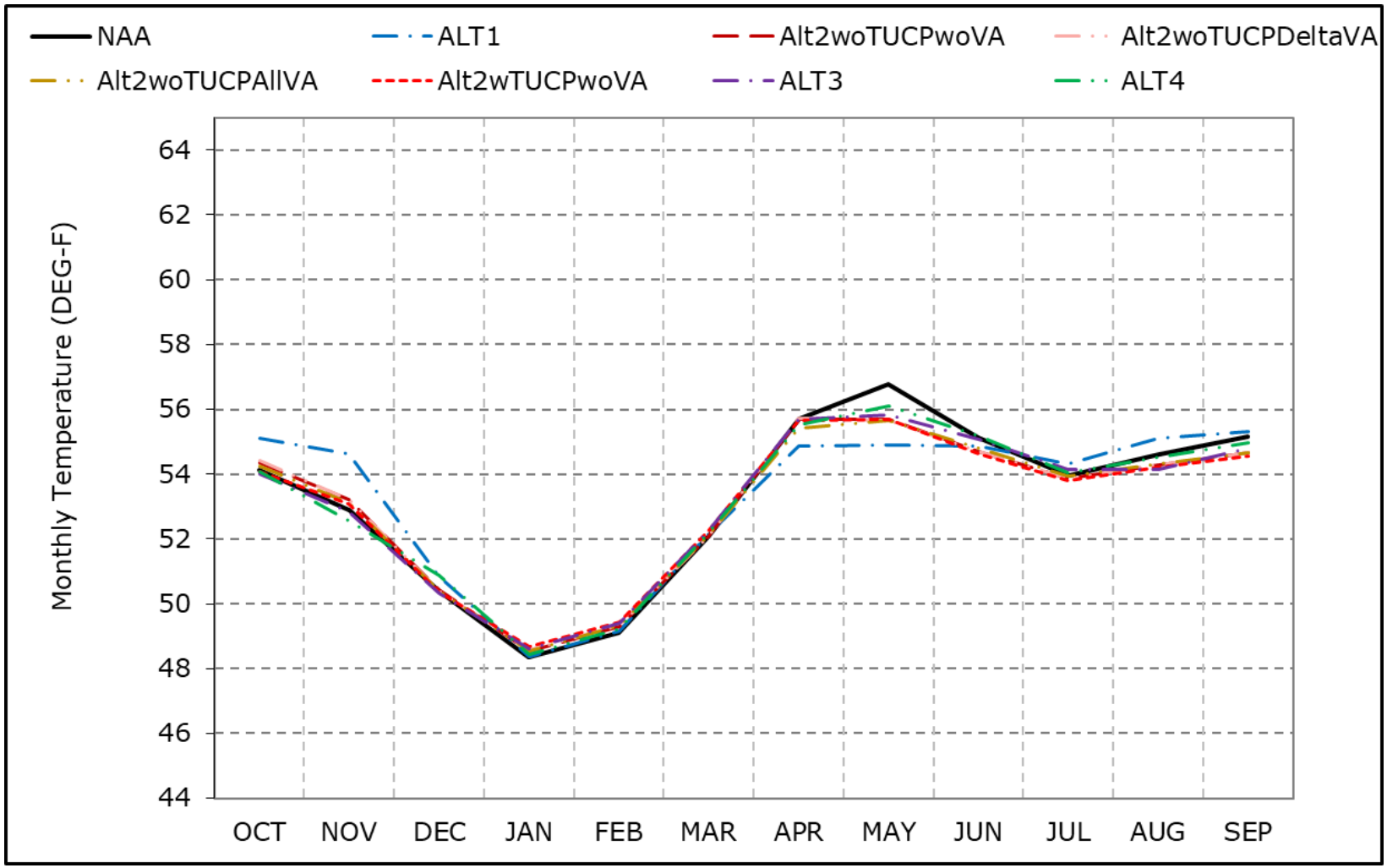
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-2. Sacramento River at Balls Ferry, Wet Year Average Temperature



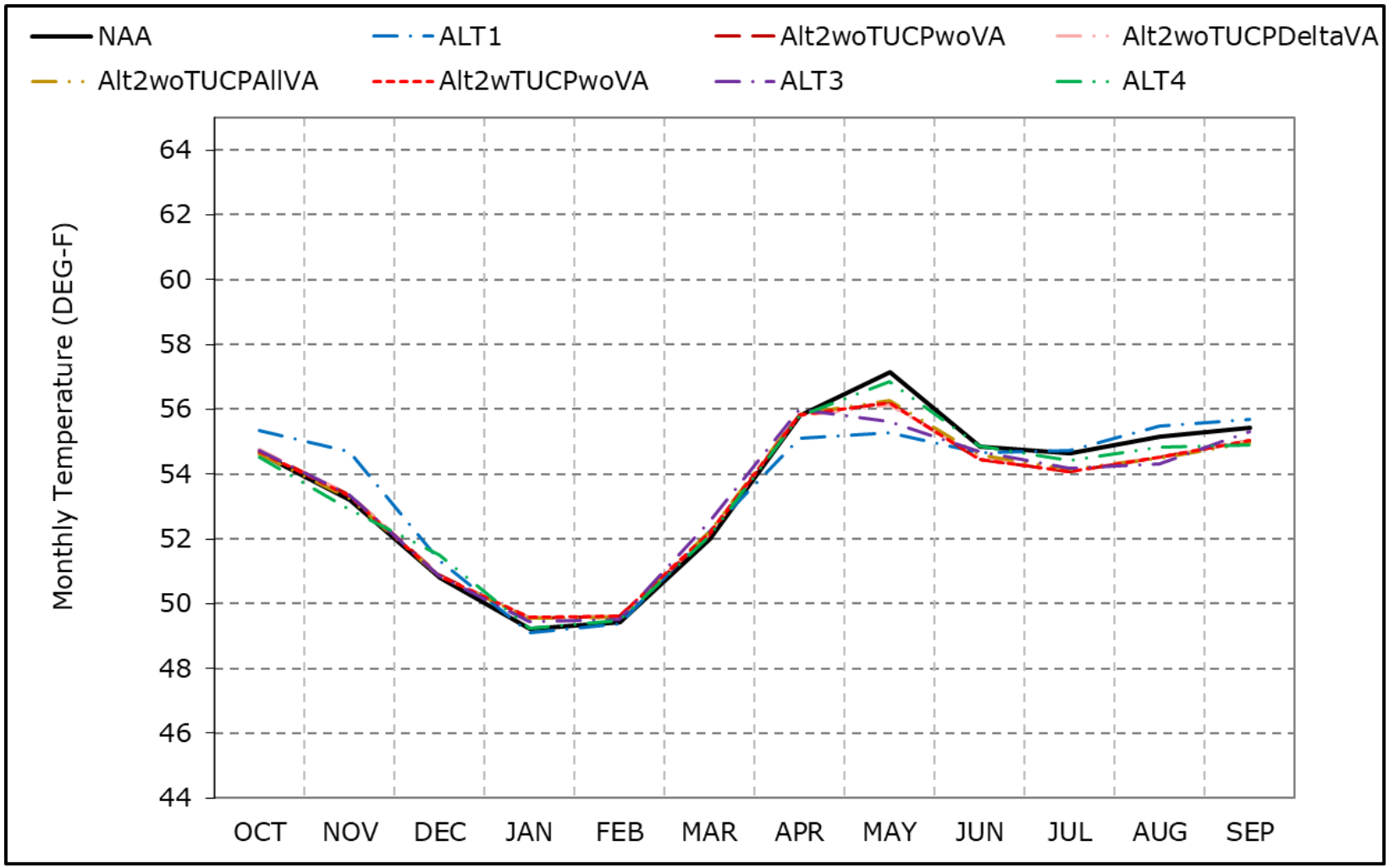
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-3. Sacramento River at Balls Ferry, Above Normal Year Average Temperature



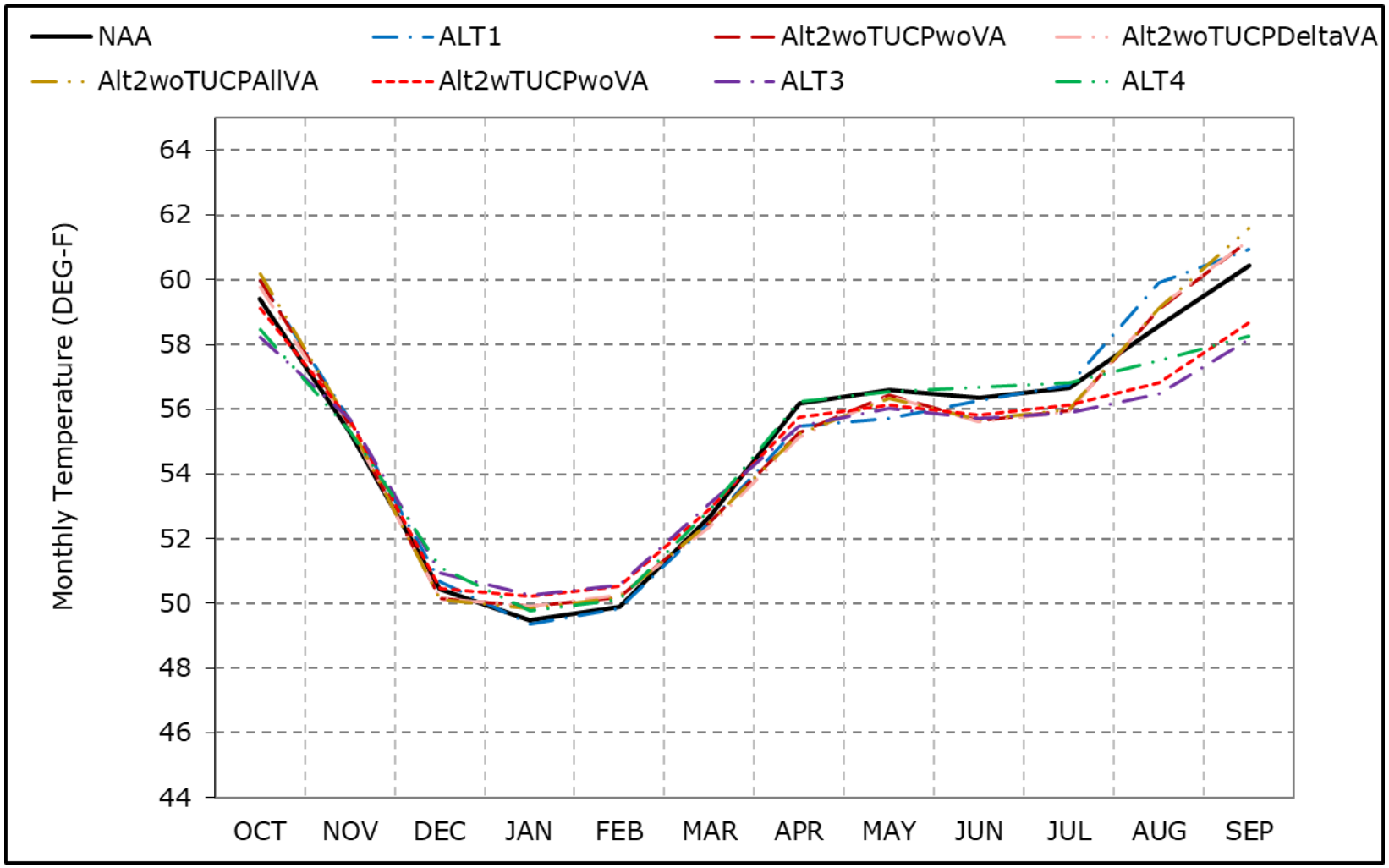
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-4. Sacramento River at Balls Ferry, Below Normal Year Average Temperature



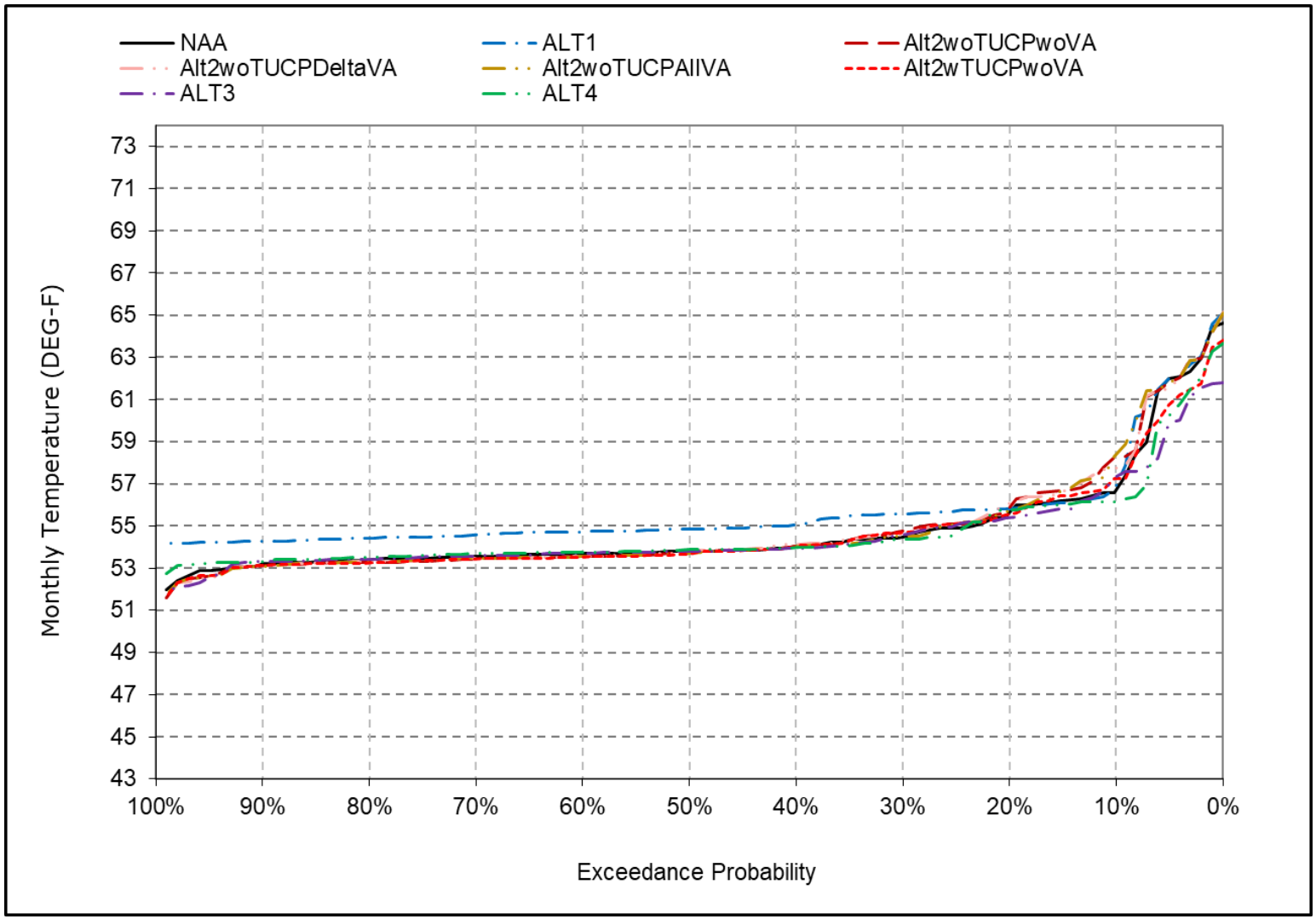
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-5. Sacramento River at Balls Ferry, Dry Year Average Temperature



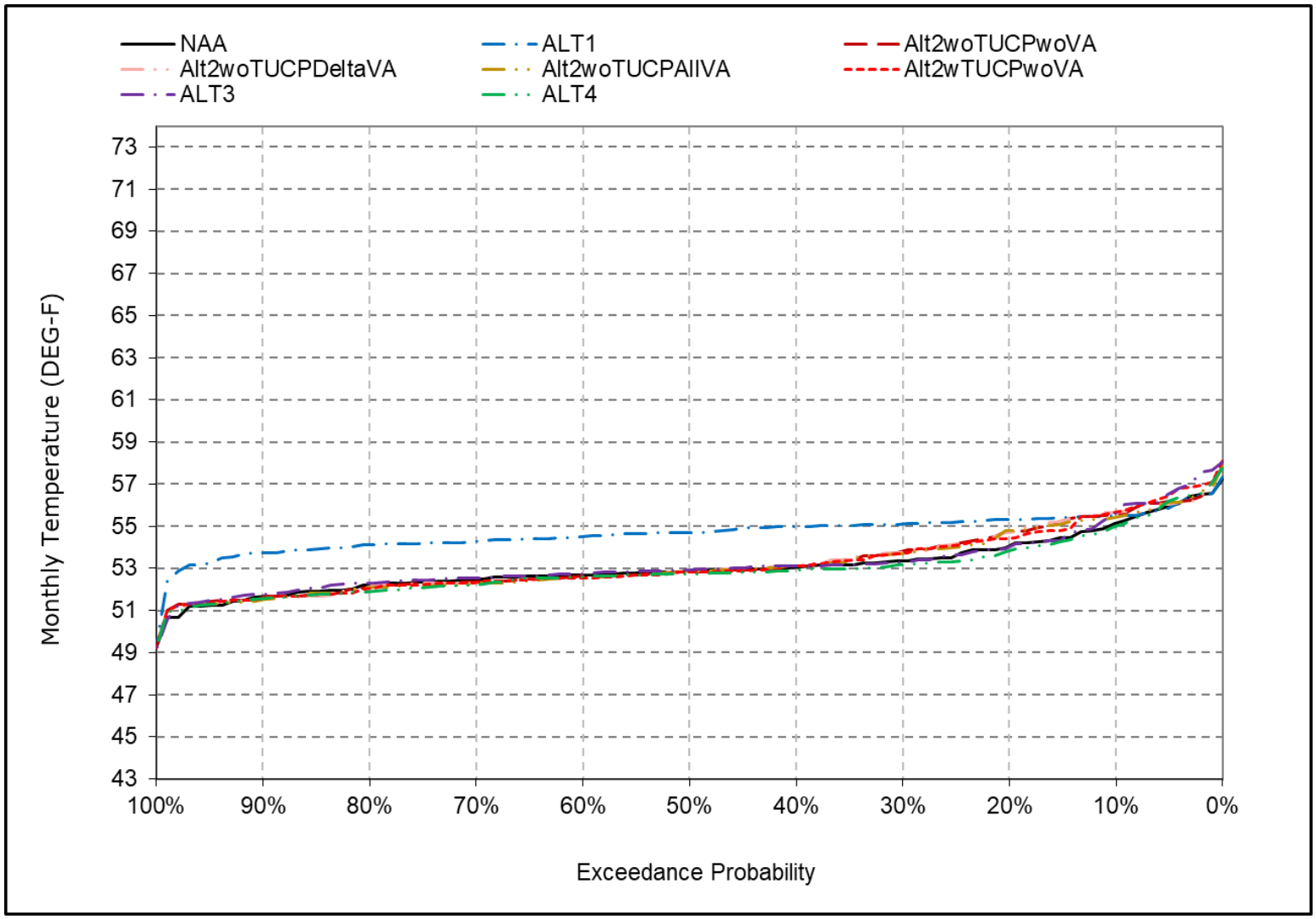
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-6. Sacramento River at Balls Ferry, Critical Year Average Temperature



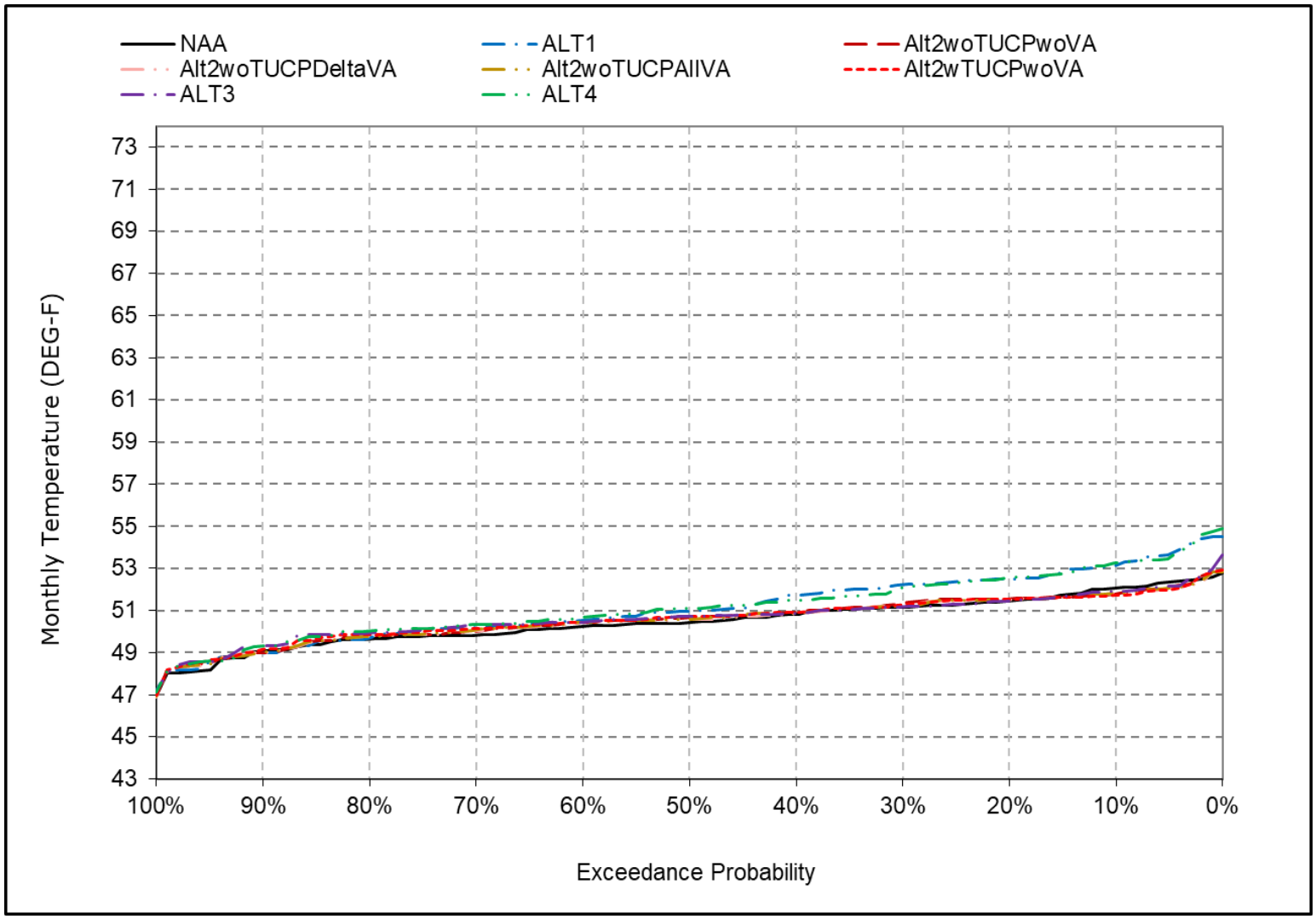
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-7. Sacramento River at Balls Ferry, October



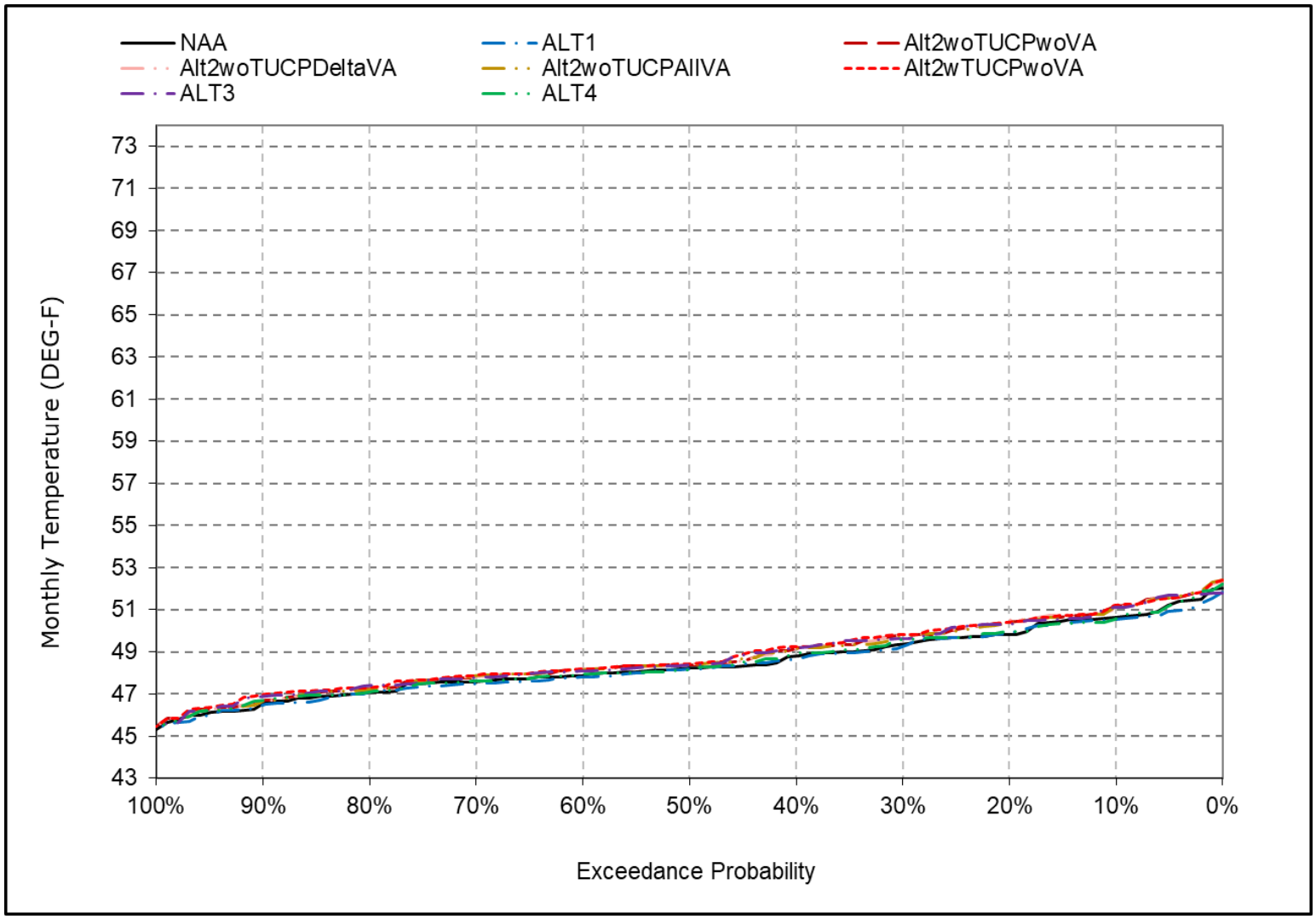
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-8. Sacramento River at Balls Ferry, November



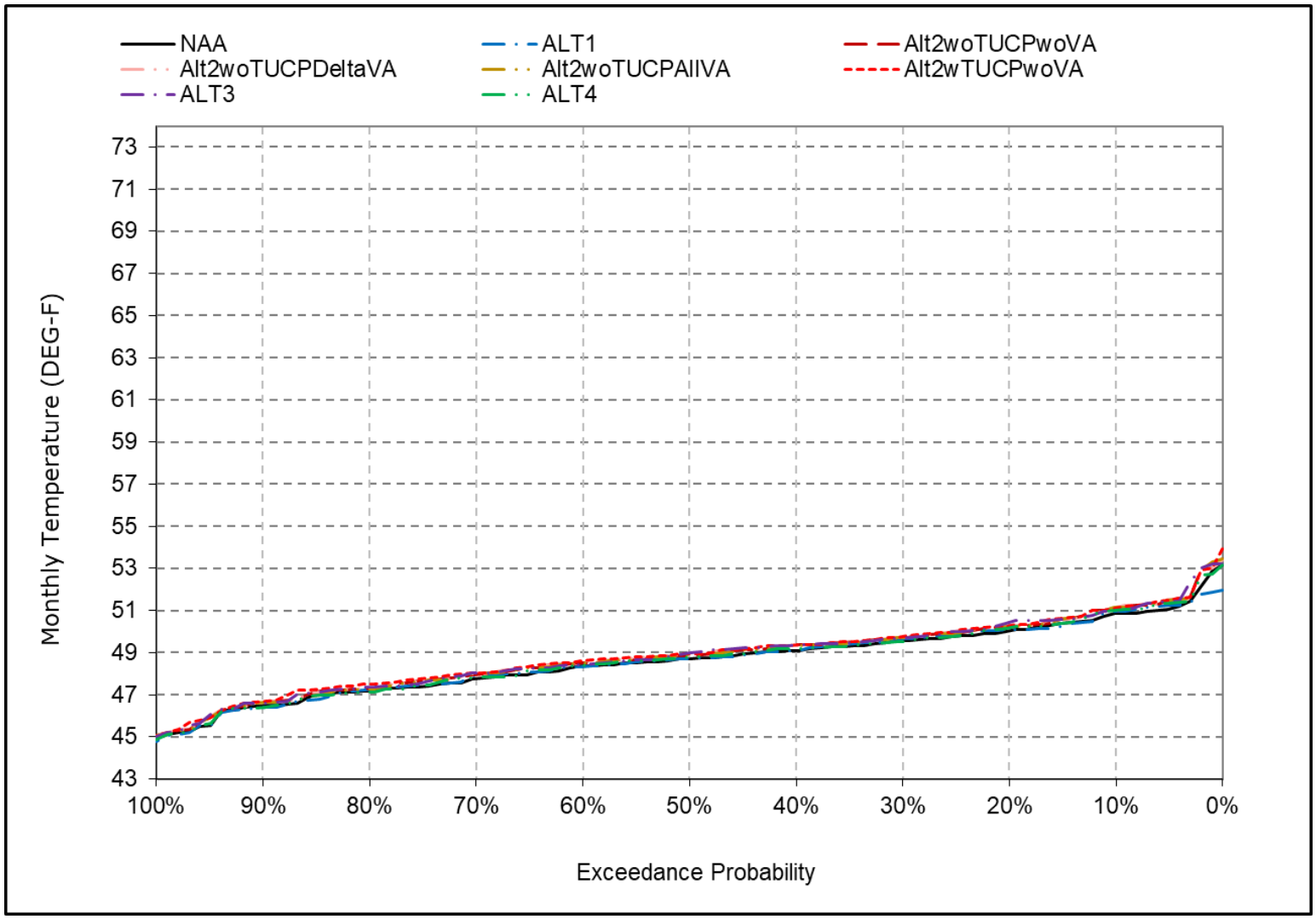
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-9. Sacramento River at Balls Ferry, December



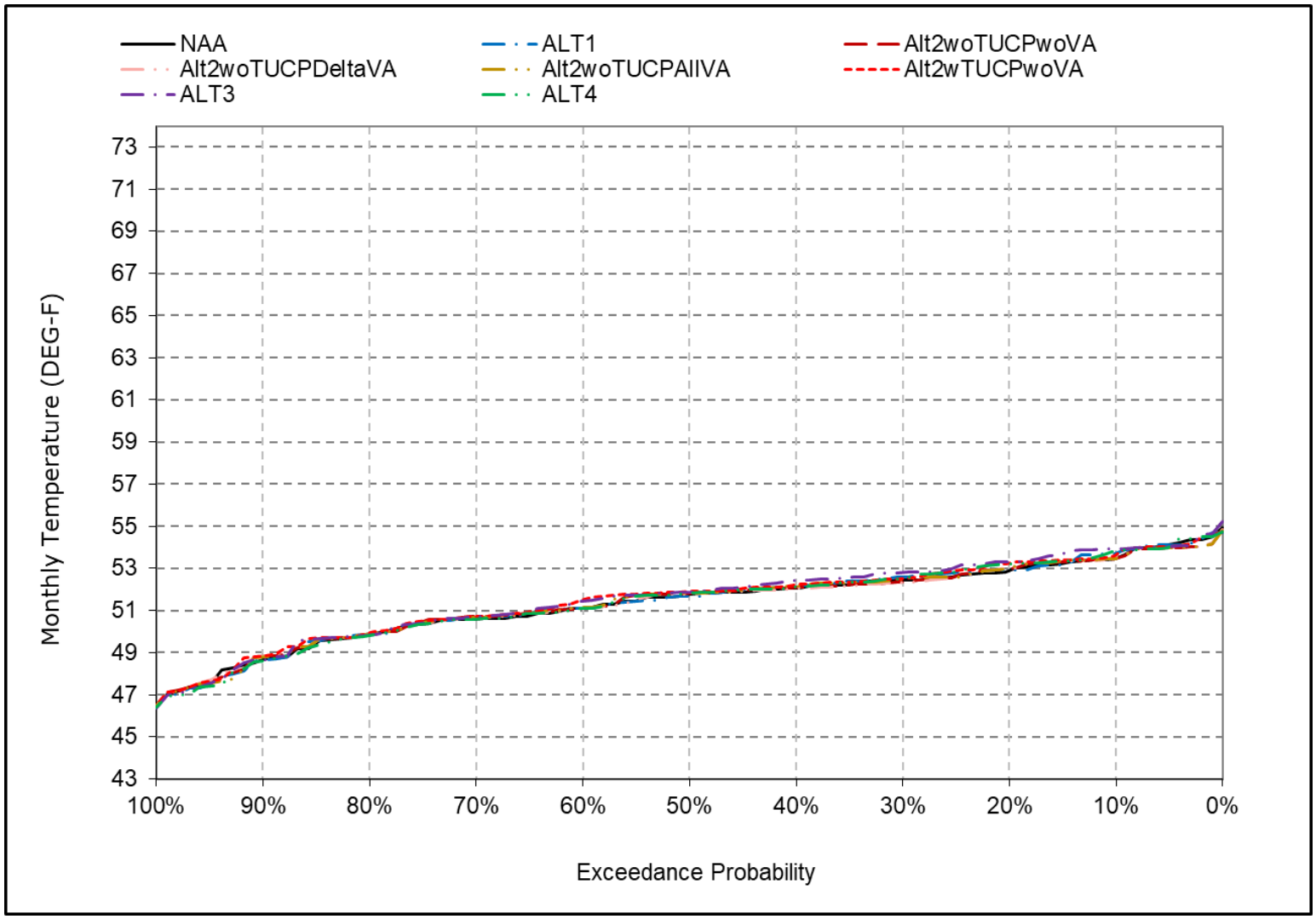
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-10. Sacramento River at Balls Ferry, January



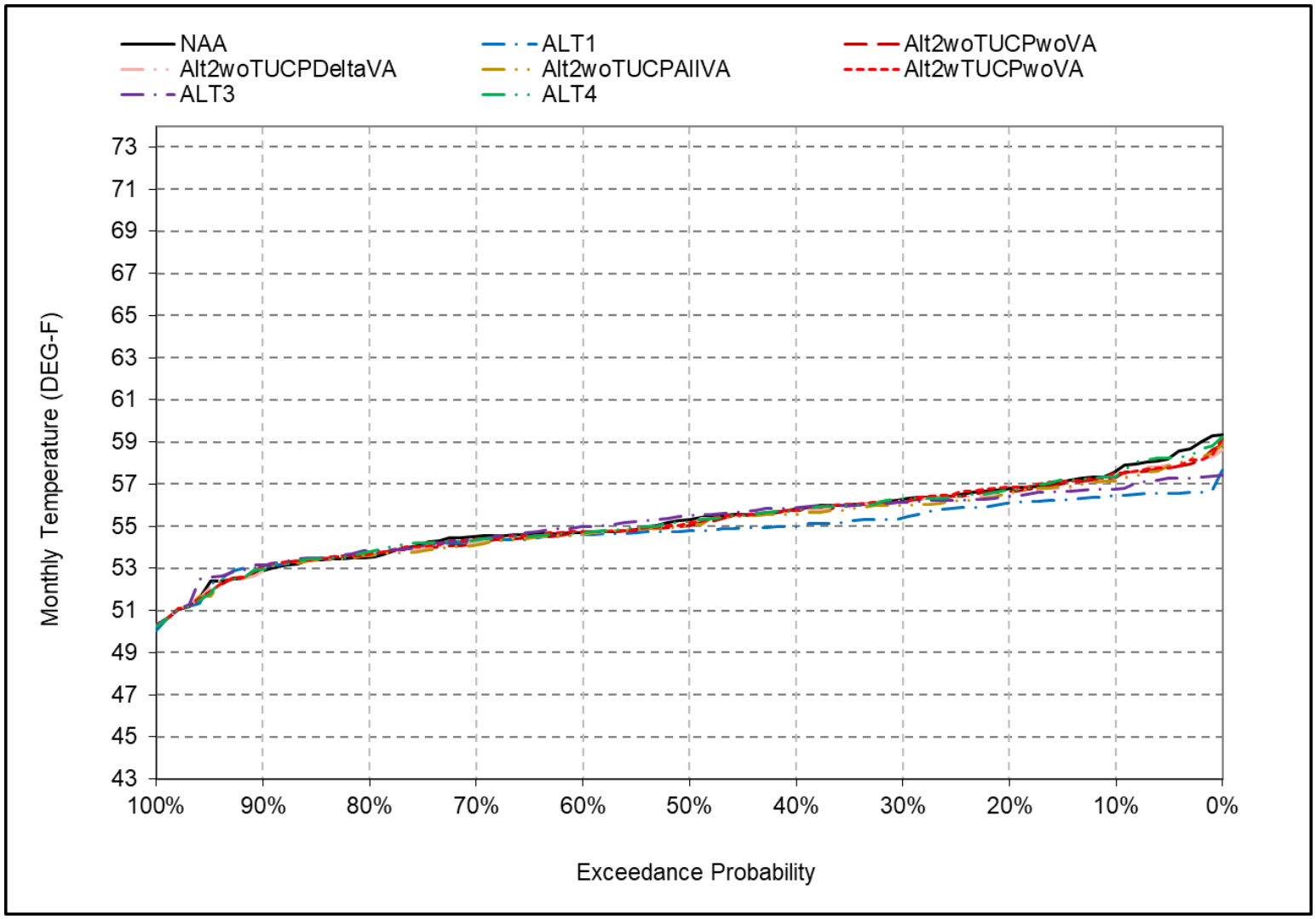
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-11. Sacramento River at Balls Ferry, February



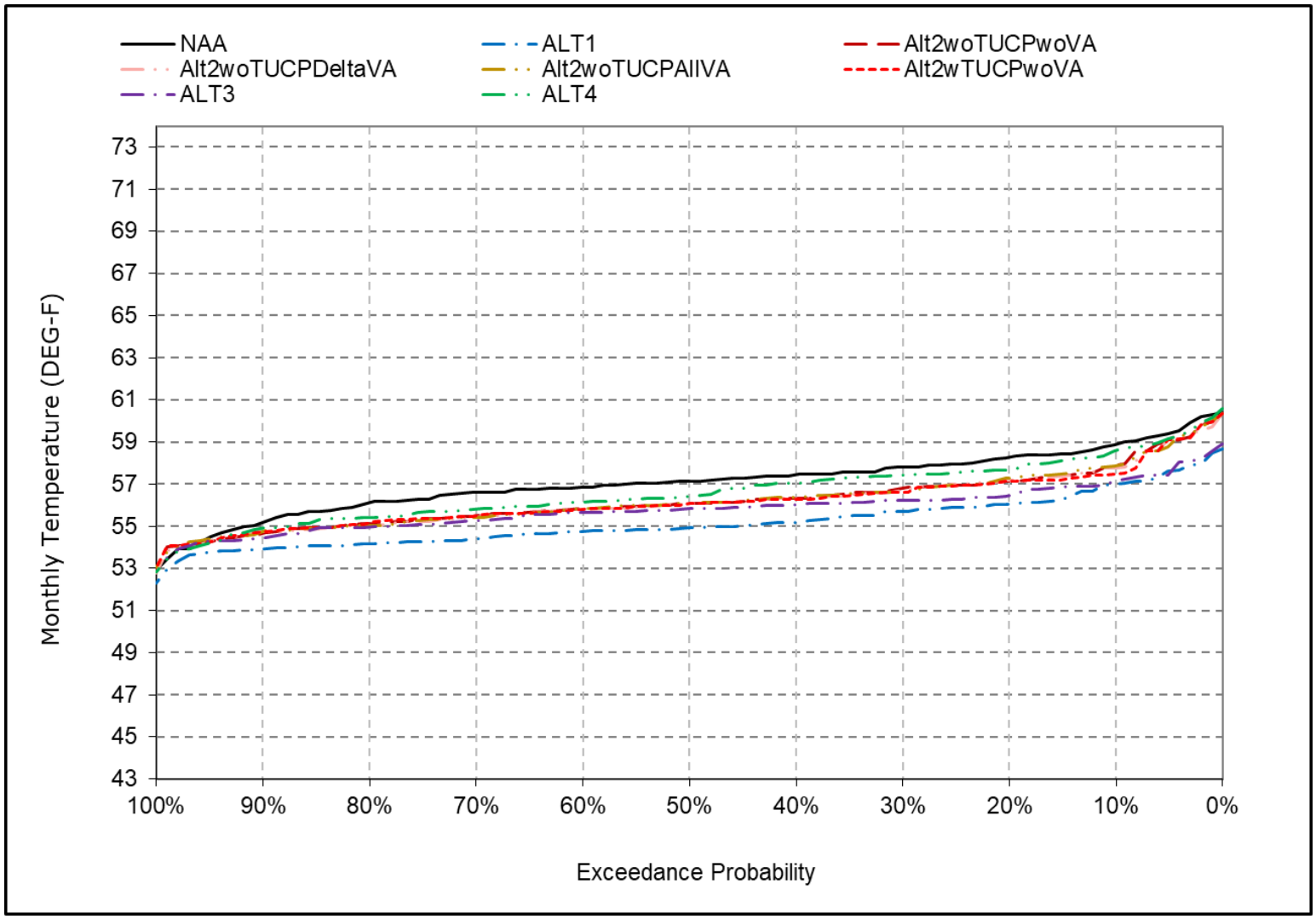
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-12. Sacramento River at Balls Ferry, March



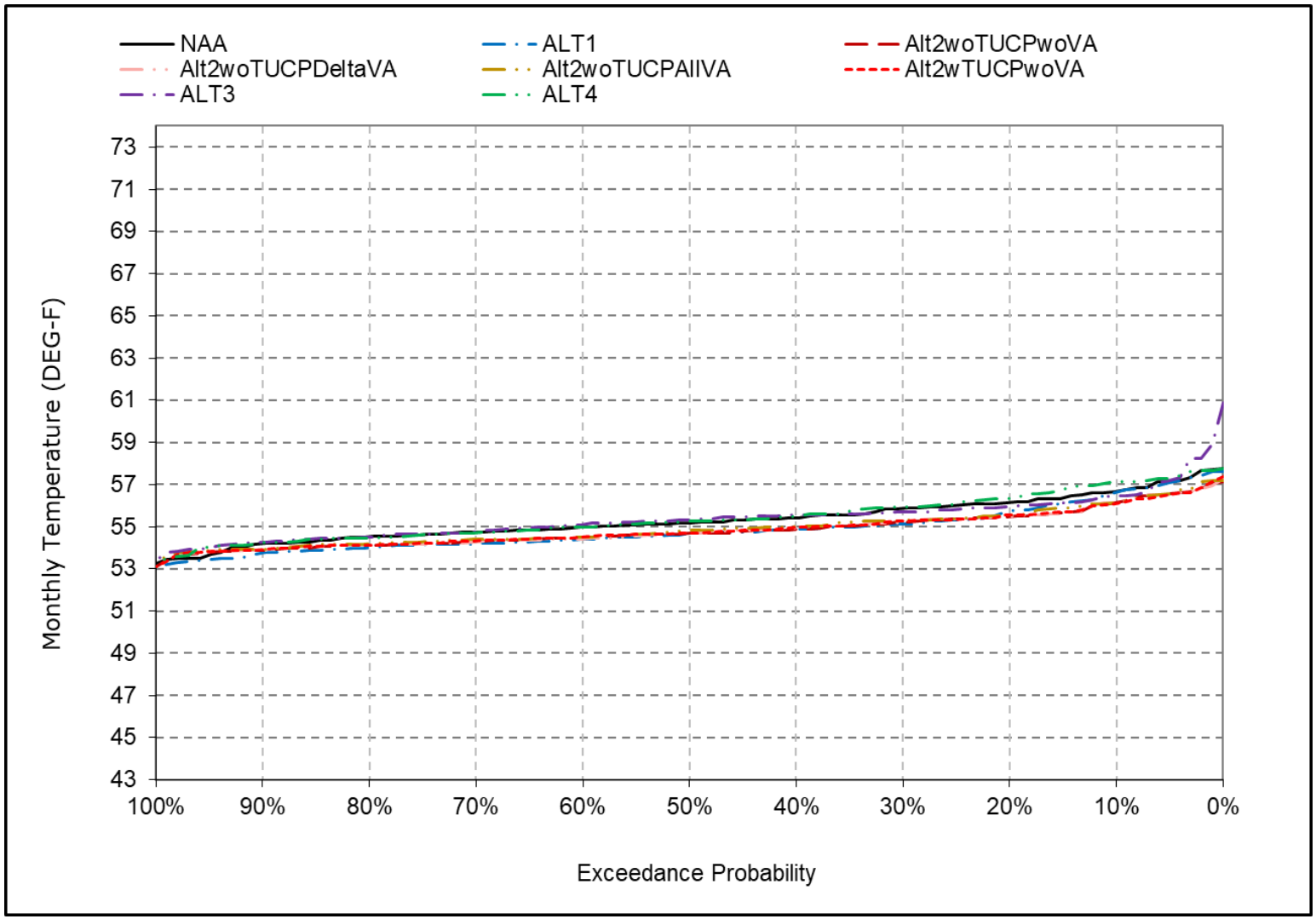
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-13. Sacramento River at Balls Ferry, April



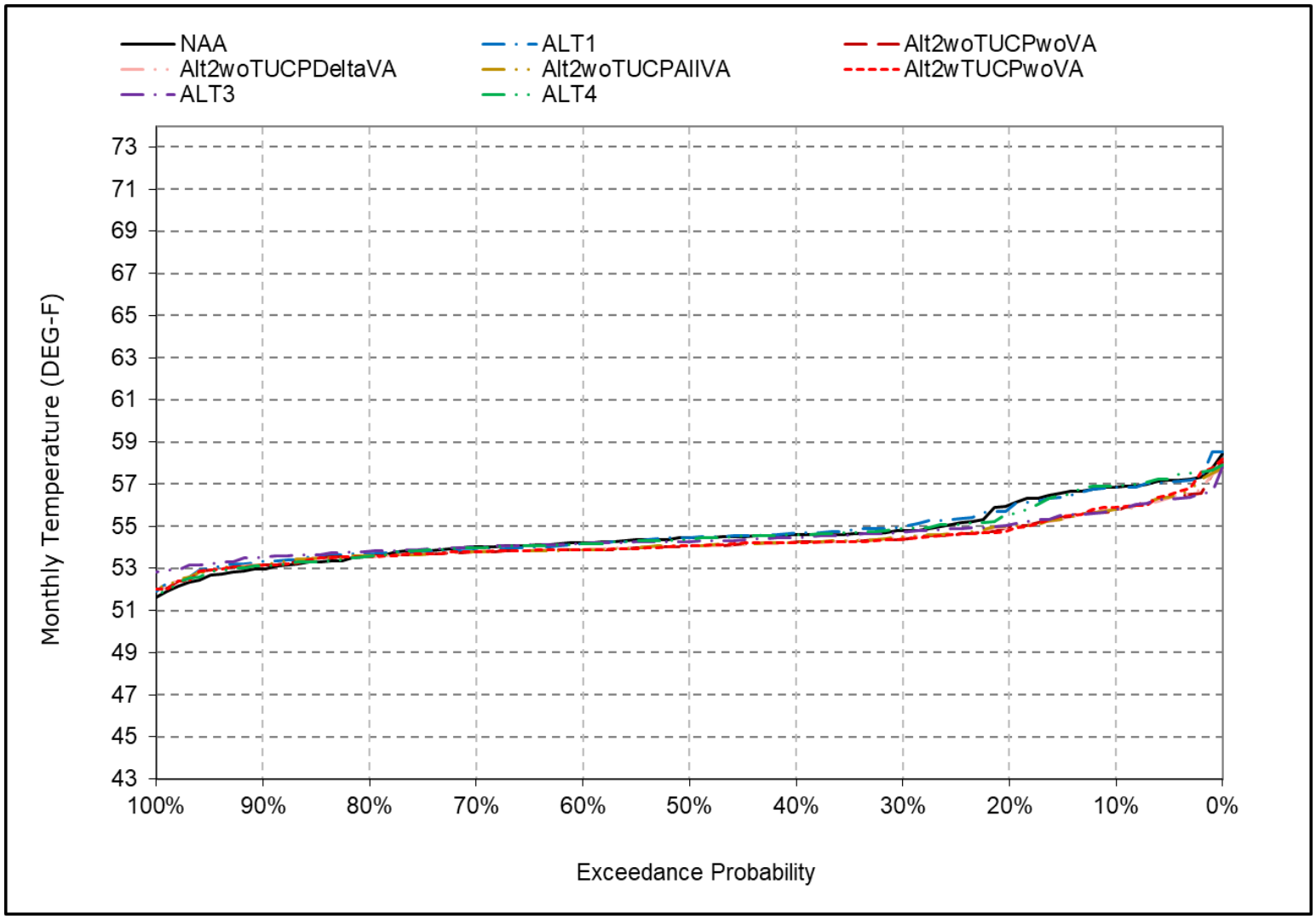
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-14. Sacramento River at Balls Ferry, May



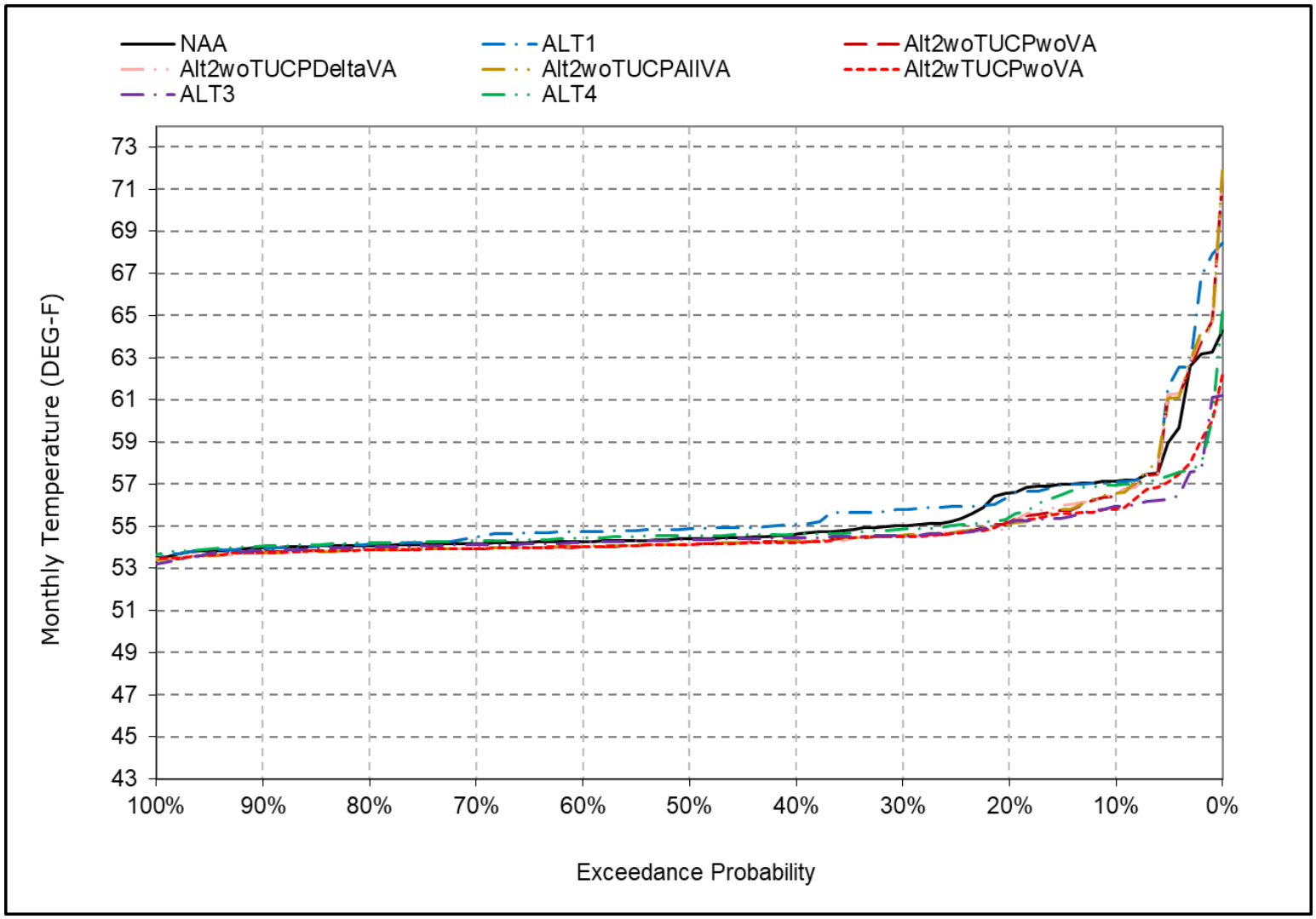
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-15. Sacramento River at Balls Ferry, June



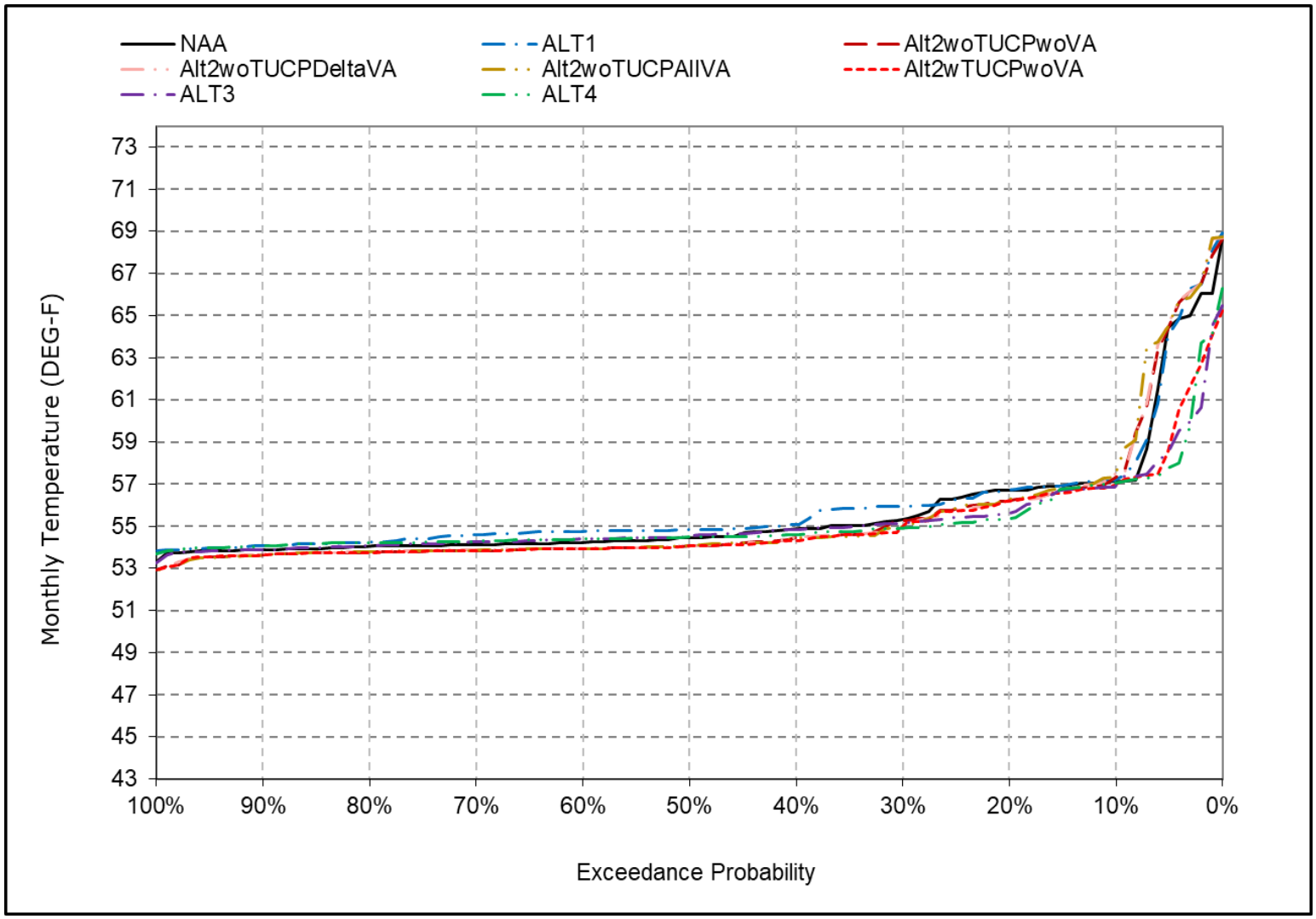
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-16. Sacramento River at Balls Ferry, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-17. Sacramento River at Balls Ferry, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-7-18. Sacramento River at Balls Ferry, September

Table F.2.11-8-1a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-1b. Sacramento River at Jellys Ferry, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	53	50	51	54	58	58	58	58	58	59
20% Exceedance	57	55	52	49	50	54	57	57	58	57	58	58
30% Exceedance	56	55	51	49	49	53	56	57	57	56	57	57
40% Exceedance	55.9	54.7	50.6	48.1	49.1	52.6	56.1	56.7	56.5	56.0	56.4	56.5
50% Exceedance	55.6	54.4	50.1	47.8	48.9	52.2	55.9	56.4	56.2	55.7	56.1	56.1
60% Exceedance	55.4	54.1	49.6	47.4	48.3	51.8	55.6	56.1	55.8	55.2	55.9	55.9
70% Exceedance	55.2	53.8	49.2	47.1	47.8	51.1	55.2	55.9	55.5	55.0	55.7	55.7
80% Exceedance	55.1	53.6	48.9	46.7	47.4	50.3	54.7	55.7	55.3	54.7	55.3	55.4
90% Exceedance	55.0	53.2	48.1	46.4	46.8	48.8	54.0	55.4	55.1	54.3	55.2	55.3
Full Simulation Period Average[a]	56	54	50	48	49	52	56	57	56	56	57	57
Wet Water Years (28%)	55	54	51	47	48	50	55	57	57	55	56	56
Above Normal Years (14%)	55	54	50	48	48	51	56	56	56	55	55	56
Below Normal Years (18%)	56	54	50	48	49	53	56	56	56	55	56	57
Dry Years (24%)	56	54	51	49	49	53	56	57	56	56	57	57
Critical (16%)	60	55	50	49	50	53	57	57	58	58	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-1c. Sacramento River at Jellys Ferry, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.5	1.2	-0.1	0.1	-0.1	-1.0	-1.7	-0.4	-0.1	-0.1	0.2
20% Exceedance	0	2	1	0	0	0	-1	-2	-1	0	0	0
30% Exceedance	0.9	1.6	0.8	0.0	-0.1	0.1	-0.8	-1.9	-0.7	0.1	0.5	0.1
40% Exceedance	1	2	1	0	0	0	-1	-2	-1	0	1	0
50% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
60% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
70% Exceedance	1	1	0	0	0	0	0	-2	0	0	0	0
80% Exceedance	1	2	0	0	0	0	0	-2	0	0	0	0
90% Exceedance	1.1	1.7	0.1	0.0	-0.1	-0.2	0.3	-1.3	-0.1	0.4	0.2	0.4
Full Simulation Period Average[a]	0.8	1.3	0.5	-0.1	0.0	0.0	-0.4	-1.7	-0.5	0.1	0.5	0.3
Wet Water Years (28%)	1.0	1.7	0.7	-0.1	0.0	0.0	-0.1	-1.8	-0.8	-0.1	0.2	0.5
Above Normal Years (14%)	0.8	1.6	1.0	0.1	0.1	0.0	-0.2	-2.5	-0.9	0.0	0.2	0.5
Below Normal Years (18%)	0.9	1.4	0.3	0.0	0.1	0.0	-0.7	-1.7	-0.3	0.4	0.6	0.0
Dry Years (24%)	0.6	1.3	0.5	-0.1	0.0	0.2	-0.6	-1.7	-0.2	0.1	0.3	0.2
Critical (16%)	1	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-2a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-2b. Sacramento River at Jellys Ferry, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	50	51	54	58	59	58	57	58	59
20% Exceedance	57	54	51	50	50	53	58	59	58	56	57	58
30% Exceedance	56	53	51	49	50	53	57	58	57	56	56	57
40% Exceedance	55.0	53.0	50.1	48.5	49.2	52.6	56.7	57.9	56.6	55.5	55.6	55.9
50% Exceedance	54.6	52.7	49.8	48.0	49.0	52.2	56.2	57.5	56.3	55.3	55.4	55.4
60% Exceedance	54.4	52.5	49.6	47.6	48.4	51.8	55.6	57.2	55.9	55.0	55.3	55.2
70% Exceedance	54.2	52.3	49.2	47.2	47.9	51.1	55.1	56.9	55.6	54.8	55.1	55.0
80% Exceedance	54.0	52.0	48.7	46.9	47.5	50.2	54.7	56.5	55.3	54.6	55.0	54.8
90% Exceedance	53.7	51.5	48.1	46.5	46.9	49.1	53.8	55.9	55.0	54.1	54.8	54.6
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	56	55	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	58	57	55	55	55
Above Normal Years (14%)	54	52	49	48	48	51	56	58	56	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	57	56	55	56	56
Dry Years (24%)	56	53	50	49	49	53	57	58	56	55	56	56
Critical (16%)	60	55	49	50	50	53	56	58	57	57	60	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-2c. Sacramento River at Jellys Ferry, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.0	0.7	0.0	0.3	0.2	-0.1	-0.3	-0.8	-0.4	-0.9	-0.5	0.3
20% Exceedance	0	1	0	0	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.2	0.2	0.1	0.3	0.1	-0.1	-0.1	-0.8	-0.6	-0.2	-0.7	-0.6
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.0	0.1	0.1	0.1	0.1	0.0	-0.8	-0.2	0.1	-0.2	-0.3
Full Simulation Period Average[a]	0.1	0.1	0.1	0.2	0.2	0.0	-0.1	-0.7	-0.4	-0.3	-0.2	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.3	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.2	0.0	0.1	-0.9	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.2	0.3	0.1	0.1	0.2	0.0	0.0	-0.9	-0.4	0.0	-0.3	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.3	0.1	0.1	0.0	-0.8	-0.4	-0.5	-0.6	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-3a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-3b. Sacramento River at Jellys Ferry, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	51	50	51	54	58	59	58	57	58	59
20% Exceedance	57	54	51	50	50	53	58	59	58	56	57	58
30% Exceedance	56	53	50	49	50	53	57	58	57	56	56	56
40% Exceedance	55.1	53.1	50.1	48.4	49.2	52.5	56.7	57.8	56.6	55.5	55.6	55.9
50% Exceedance	54.6	52.7	49.7	48.0	49.0	52.2	56.0	57.5	56.3	55.3	55.3	55.4
60% Exceedance	54.4	52.5	49.6	47.6	48.5	51.7	55.6	57.1	55.9	55.0	55.3	55.2
70% Exceedance	54.2	52.3	49.2	47.3	47.9	51.1	55.1	56.9	55.6	54.8	55.1	55.0
80% Exceedance	54.0	52.0	48.7	46.9	47.5	50.3	54.7	56.4	55.3	54.6	55.0	54.9
90% Exceedance	53.7	51.5	48.0	46.5	46.9	49.1	53.6	55.9	55.0	54.1	54.8	54.6
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	56	55	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	58	57	55	55	55
Above Normal Years (14%)	54	52	49	48	48	51	56	58	56	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	57	56	55	55	56
Dry Years (24%)	56	53	50	49	49	53	57	57	56	55	56	56
Critical (16%)	60	55	49	50	50	53	56	58	57	57	60	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-3c. Sacramento River at Jellys Ferry, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.6	-0.1	0.2	0.2	-0.1	-0.6	-0.9	-0.4	-0.9	-0.5	0.3
20% Exceedance	0	1	0	0	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.3	0.1	0.0	0.3	0.1	-0.1	-0.1	-0.9	-0.5	-0.2	-0.7	-0.7
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.0	0.1	0.1	0.1	0.1	-0.2	-0.7	-0.2	0.1	-0.2	-0.2
Full Simulation Period Average[a]	0.1	0.1	0.1	0.2	0.2	0.0	-0.2	-0.8	-0.4	-0.3	-0.2	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.3	-0.3
Above Normal Years (14%)	0.0	-0.1	0.0	0.3	0.2	0.0	0.1	-0.9	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.2	0.3	0.0	0.2	0.2	0.0	0.0	-1.0	-0.4	0.0	-0.3	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.3	0.1	0.1	0.0	-0.9	-0.3	-0.4	-0.6	-0.4
Critical (16%)	0	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-4a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-4b. Sacramento River at Jellys Ferry, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	50	51	54	58	59	58	57	58	60
20% Exceedance	57	54	51	50	50	53	57	59	58	56	57	58
30% Exceedance	56	53	50	49	50	53	57	58	57	56	56	56
40% Exceedance	54.9	53.0	50.1	48.6	49.2	52.6	56.5	57.9	56.8	55.6	55.6	55.8
50% Exceedance	54.6	52.8	49.8	48.0	48.9	52.2	56.0	57.6	56.5	55.3	55.4	55.4
60% Exceedance	54.3	52.4	49.6	47.6	48.4	51.8	55.6	57.2	56.1	54.9	55.3	55.2
70% Exceedance	54.2	52.3	49.2	47.2	47.9	51.1	55.1	56.8	55.8	54.8	55.1	55.0
80% Exceedance	54.0	52.0	48.7	46.9	47.5	50.2	54.5	56.4	55.4	54.6	55.0	54.8
90% Exceedance	53.7	51.5	48.0	46.5	46.9	49.1	53.8	56.0	55.1	54.1	54.8	54.6
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	55	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	58	57	55	55	55
Above Normal Years (14%)	54	52	49	48	48	51	56	58	56	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	56	57	56	55	56	56
Dry Years (24%)	56	53	50	49	49	53	57	58	56	55	56	56
Critical (16%)	60	55	49	50	50	53	56	58	57	57	60	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-4c. Sacramento River at Jellys Ferry, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1.1	0.6	0.0	0.3	0.2	-0.1	-0.5	-0.7	-0.3	-0.9	-0.6	0.8
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.2	0.2	0.0	0.3	0.0	0.0	-0.2	-1.0	-0.5	-0.1	-0.6	-0.7
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.0	0.0	0.1	0.1	0.1	0.0	-0.7	-0.1	0.2	-0.2	-0.3
Full Simulation Period Average[a]	0.1	0.1	0.1	0.2	0.2	0.0	-0.2	-0.7	-0.3	-0.3	-0.2	-0.1
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.2	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.9	-0.1	-0.2	-0.2	-0.3
Below Normal Years (18%)	0.1	0.2	0.0	0.1	0.2	0.0	-0.3	-1.0	-0.2	0.0	-0.2	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.2	0.1	-0.7	-0.2	-0.4	-0.6	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-5a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-5b. Sacramento River at Jellys Ferry, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	51	50	51	54	58	59	58	57	57	58
20% Exceedance	57	54	51	50	50	54	58	58	58	56	57	58
30% Exceedance	56	53	51	49	50	53	57	58	57	56	56	57
40% Exceedance	55.0	53.0	50.1	48.6	49.2	52.7	56.9	57.8	56.6	55.5	55.6	55.8
50% Exceedance	54.6	52.7	49.8	48.0	49.0	52.4	56.2	57.5	56.3	55.2	55.4	55.4
60% Exceedance	54.3	52.5	49.6	47.6	48.5	51.9	55.7	57.2	56.0	55.0	55.3	55.2
70% Exceedance	54.2	52.3	49.3	47.3	48.0	51.1	55.3	56.9	55.7	54.8	55.1	55.0
80% Exceedance	54.0	51.9	48.8	47.0	47.6	50.2	54.6	56.5	55.3	54.6	55.0	54.8
90% Exceedance	53.7	51.5	48.0	46.8	46.9	49.2	53.8	55.9	55.1	54.1	54.8	54.6
Full Simulation Period Average[a]	55	53	50	48	49	52	56	58	56	55	56	56
Wet Water Years (28%)	54	52	50	47	48	50	55	58	57	55	55	55
Above Normal Years (14%)	54	52	49	48	48	51	56	58	56	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	57	56	55	55	56
Dry Years (24%)	56	53	50	49	49	53	57	58	56	55	56	56
Critical (16%)	60	55	50	50	51	54	57	58	57	58	58	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-5c. Sacramento River at Jellys Ferry, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.2	0.6	-0.2	0.3	0.3	0.0	-0.1	-0.9	-0.6	-0.7	-1.0	-0.3
20% Exceedance	0	1	0	0	0	0	0	-1	-1	-1	-1	0
30% Exceedance	0.2	0.2	0.1	0.5	0.1	0.1	0.0	-0.9	-0.5	-0.3	-0.7	-0.6
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.0	0.1	0.3	0.1	0.3	0.0	-0.7	-0.1	0.1	-0.2	-0.3
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.3	0.2	0.1	-0.1	-0.8	-0.4	-0.3	-0.6	-0.6
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.3	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.2	0.1	0.1	-0.9	-0.4	-0.2	-0.3	-0.3
Below Normal Years (18%)	0.0	0.2	0.0	0.2	0.3	0.1	0.0	-1.0	-0.5	-0.1	-0.3	-0.6
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.2	0.0	-0.8	-0.3	-0.5	-0.6	-0.4
Critical (16%)	0	0	0	1	0	0	0	0	0	0	-1	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-6a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-6b. Sacramento River at Jellys Ferry, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	51	50	51	54	58	59	59	57	58	59
20% Exceedance	56	54	51	50	50	54	58	58	58	56	56	57
30% Exceedance	56	53	50	49	50	53	57	58	58	56	56	57
40% Exceedance	54.9	53.0	50.1	48.6	49.2	52.8	57.0	57.3	57.2	55.8	55.7	56.3
50% Exceedance	54.6	52.8	49.9	47.9	48.9	52.3	56.4	57.2	57.0	55.4	55.5	56.0
60% Exceedance	54.5	52.6	49.7	47.5	48.5	51.9	56.1	57.0	56.6	55.2	55.3	55.7
70% Exceedance	54.4	52.4	49.4	47.2	48.1	51.0	55.5	56.4	56.1	55.0	55.1	55.4
80% Exceedance	54.2	52.2	49.0	46.9	47.4	50.3	54.6	56.2	55.7	54.8	55.0	55.2
90% Exceedance	53.9	51.7	48.3	46.7	46.8	49.0	54.0	55.9	55.4	54.5	54.8	54.8
Full Simulation Period Average[a]	55	53	50	48	49	52	56	57	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	57	58	56	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	57	58	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	57	57	55	55	56
Dry Years (24%)	56	53	50	49	49	53	57	57	56	55	55	57
Critical (16%)	59	55	50	50	51	54	57	58	57	57	58	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-6c. Sacramento River at Jellys Ferry, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.4	-0.1	0.3	0.2	0.3	-0.6	-1.3	0.1	-0.5	-1.0	0.0
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-1	-1
30% Exceedance	0.1	0.0	-0.1	0.4	0.1	0.2	0.1	-1.3	0.1	0.0	-0.7	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.1	0.1	0.3	0.3	0.0	0.0	0.2	-0.7	0.2	0.6	-0.2	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.2	0.2	0.2	0.2	0.0	-1.2	0.2	-0.1	-0.6	-0.3
Wet Water Years (28%)	0.0	0.1	0.1	0.1	0.1	-0.1	-0.1	-1.6	0.7	0.1	0.2	0.2
Above Normal Years (14%)	0.0	0.1	0.3	0.1	0.1	0.0	-0.1	-1.7	0.9	0.4	0.0	0.2
Below Normal Years (18%)	-0.1	0.0	0.0	0.2	0.2	0.1	0.1	-0.8	0.0	0.3	-0.5	-0.3
Dry Years (24%)	0.1	0.2	0.1	0.2	0.1	0.5	0.3	-1.3	-0.1	-0.4	-1.0	-0.1
Critical (16%)	-1	0	0	1	1	0	-1	0	-1	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-7a. Sacramento River at Jellys Ferry, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.8	54.8	51.4	50.2	50.7	54.2	58.5	60.2	58.6	58.0	58.5	58.7
20% Exceedance	56.6	53.6	50.9	49.3	49.9	53.5	57.7	59.4	58.2	57.3	57.8	57.9
30% Exceedance	55.5	53.2	50.5	48.7	49.5	53.1	57.2	59.1	57.5	56.1	56.5	57.1
40% Exceedance	55.1	53.1	50.1	48.1	49.0	52.5	56.9	58.8	57.2	55.8	55.9	56.3
50% Exceedance	55	53	50	48	49	52	56	59	57	56	56	56
60% Exceedance	54	53	49	47	48	52	56	58	56	55	55	55
70% Exceedance	54	52	49	47	48	51	55	58	56	55	55	55
80% Exceedance	54	52	49	47	47	50	54	57	56	55	55	55
90% Exceedance	54	52	48	46	47	49	54	57	55	54	55	55
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	57	56	56	57
Wet Water Years (28%)	54	52	50	47	48	50	55	59	57	55	56	55
Above Normal Years (14%)	54	52	49	48	48	51	56	59	57	55	55	55
Below Normal Years (18%)	55	53	50	48	49	53	57	58	57	55	56	57
Dry Years (24%)	55.5	53.0	50.0	48.6	49.3	52.5	56.7	58.3	56.1	55.7	56.4	56.8
Critical (16%)	60	55	50	49	50	53	57	58	58	58	60	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-7b. Sacramento River at Jellys Ferry, Alternative 4, Monthly Temperature (°F)

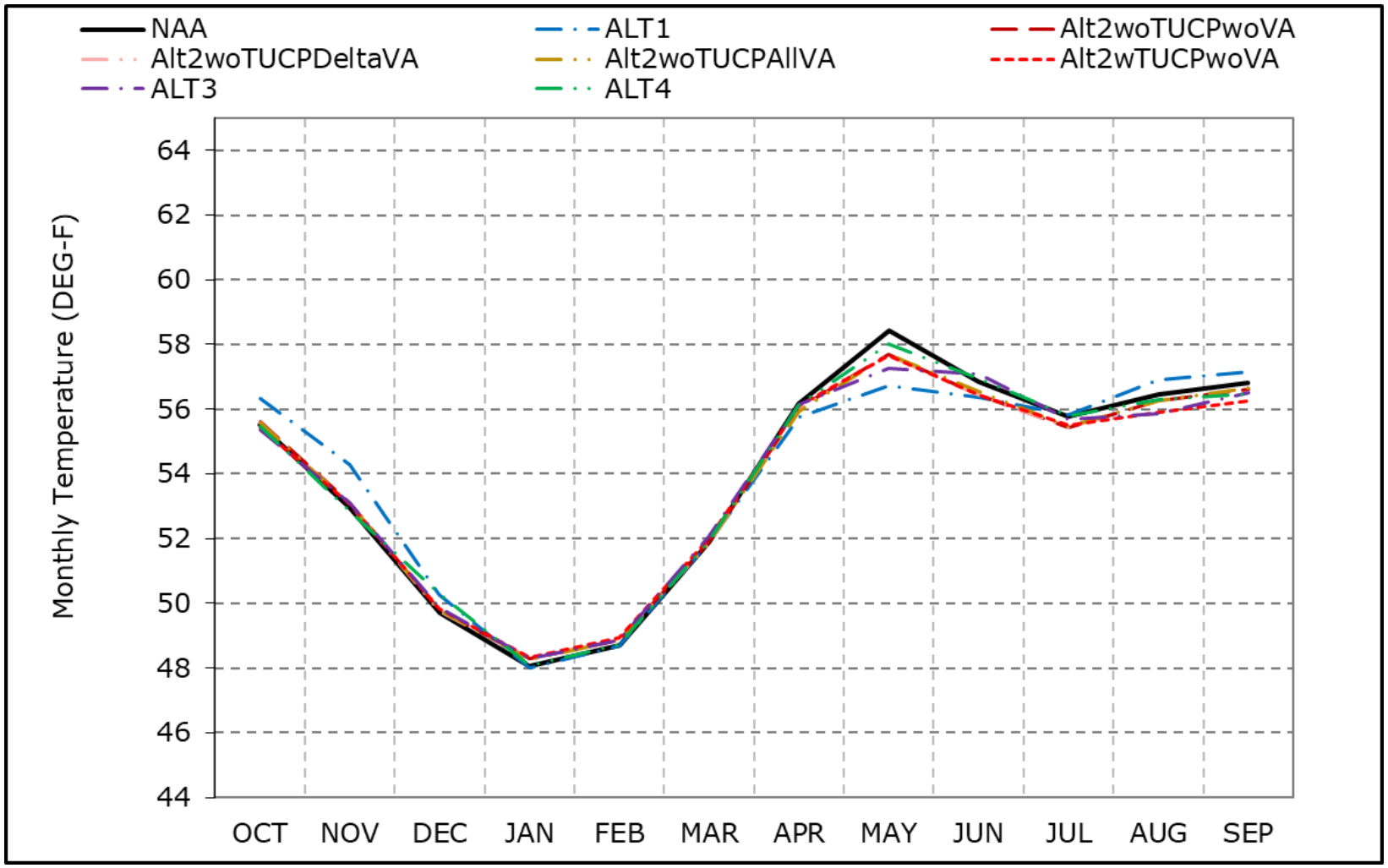
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	55	53	50	51	54	59	60	59	58	58	59
20% Exceedance	56	53	52	49	50	54	58	59	58	57	57	57
30% Exceedance	55	53	51	49	50	53	57	59	58	56	56	56
40% Exceedance	54.9	52.9	50.6	48.4	49.1	52.6	56.8	58.4	57.2	55.8	55.9	55.9
50% Exceedance	54.7	52.7	50.1	47.8	48.9	52.3	56.2	58.0	56.9	55.6	55.8	55.8
60% Exceedance	54.6	52.5	49.7	47.4	48.3	51.6	55.8	57.5	56.5	55.2	55.6	55.7
70% Exceedance	54.4	52.2	49.4	47.1	47.7	51.0	55.4	57.1	56.0	55.0	55.5	55.5
80% Exceedance	54.2	51.8	48.9	46.8	47.3	50.2	54.7	56.8	55.7	54.6	55.3	55.4
90% Exceedance	54.0	51.5	48.2	46.6	46.7	48.8	53.8	56.2	55.3	54.0	55.1	55.1
Full Simulation Period Average[a]	55	53	50	48	49	52	56	58	57	56	56	56
Wet Water Years (28%)	54	52	51	47	47	50	55	58	57	56	56	55
Above Normal Years (14%)	55	52	50	48	48	51	56	58	57	55	55	56
Below Normal Years (18%)	55	52	50	48	49	53	56	57	57	55	56	56
Dry Years (24%)	55	53	51	49	49	53	57	58	56	56	56	56
Critical (16%)	59	55	50	49	50	54	57	58	58	58	59	59

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-8-7c. Sacramento River at Jellys Ferry, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

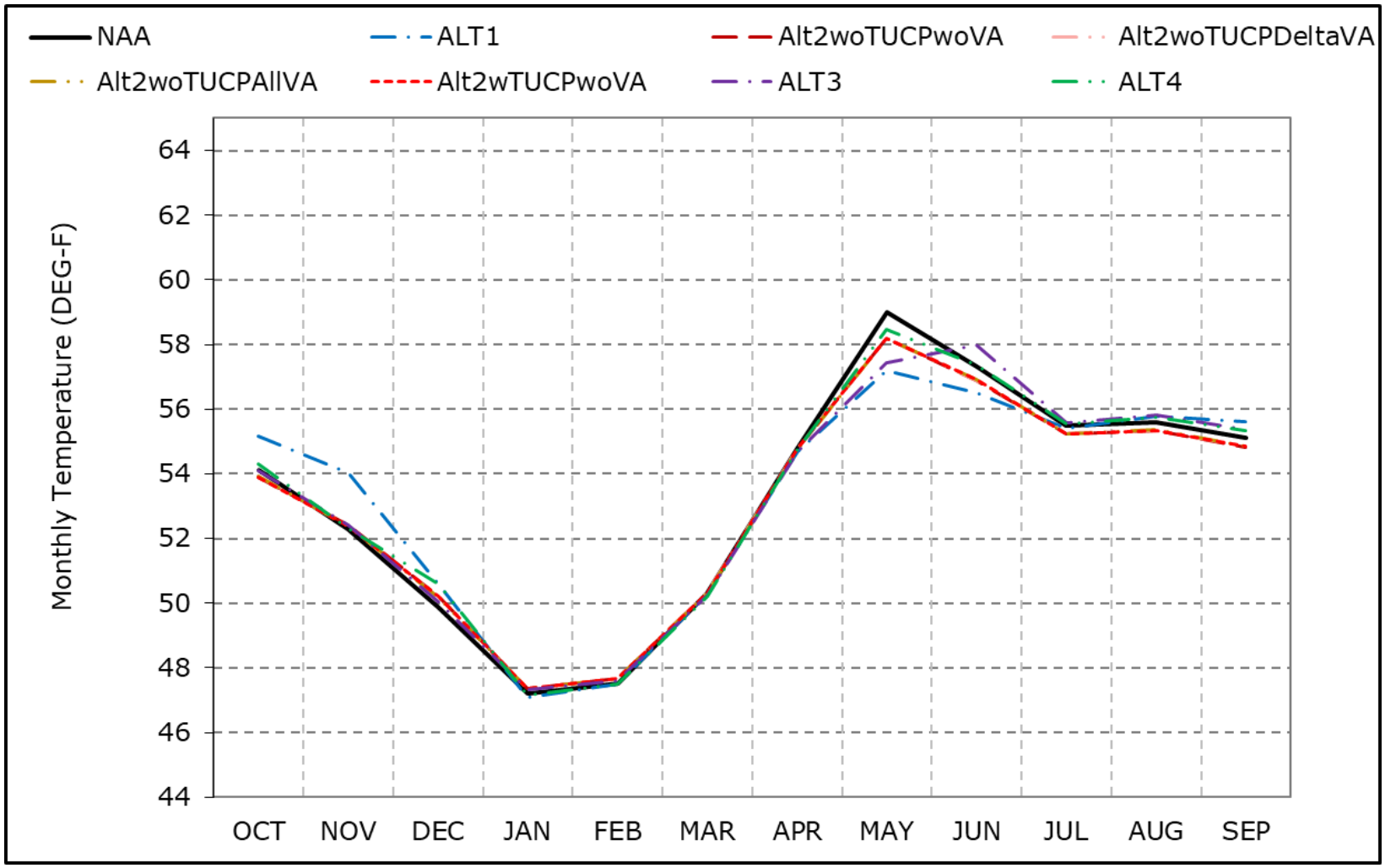
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.9	0.1	1.3	-0.1	0.2	0.0	0.1	-0.3	0.3	0.1	-0.2	-0.2
20% Exceedance	0	0	1	0	0	0	0	0	0	0	-1	-1
30% Exceedance	-0.1	-0.1	0.8	0.1	0.0	0.0	0.0	-0.2	0.1	0.1	-0.3	-0.7
40% Exceedance	0	0	1	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.0	0.2	0.2	-0.1	-0.2	0.0	-0.5	0.1	0.1	0.1	0.3
Full Simulation Period Average[a]	-0.1	-0.1	0.6	0.0	0.0	0.0	0.0	-0.4	0.1	0.0	-0.2	-0.3
Wet Water Years (28%)	0.2	0.0	0.7	-0.1	0.0	-0.1	0.0	-0.6	0.1	0.0	0.2	0.2
Above Normal Years (14%)	0.3	0.0	0.6	0.0	0.0	-0.1	0.0	-0.6	0.1	0.0	0.2	0.6
Below Normal Years (18%)	0.0	-0.3	0.4	0.0	0.1	0.0	-0.2	-0.6	0.0	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.2	0.6	0.0	0.0	0.1	0.0	-0.2	0.0	-0.2	-0.3	-0.5
Critical (16%)	-1	0	1	0	0	0	0	0	0	0	-1	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



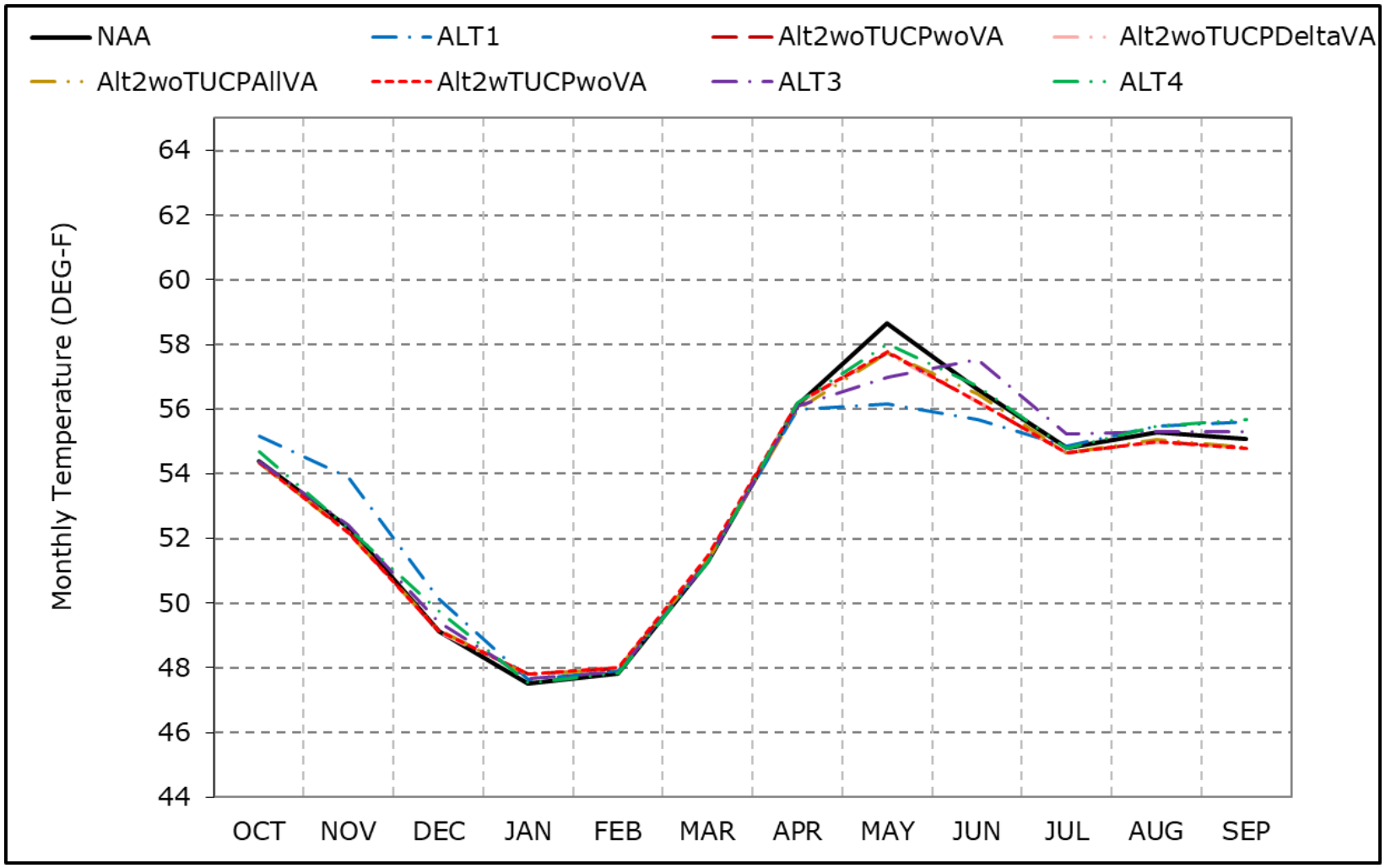
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-1. Sacramento River at Jellys Ferry, Long-Term Average Temperature



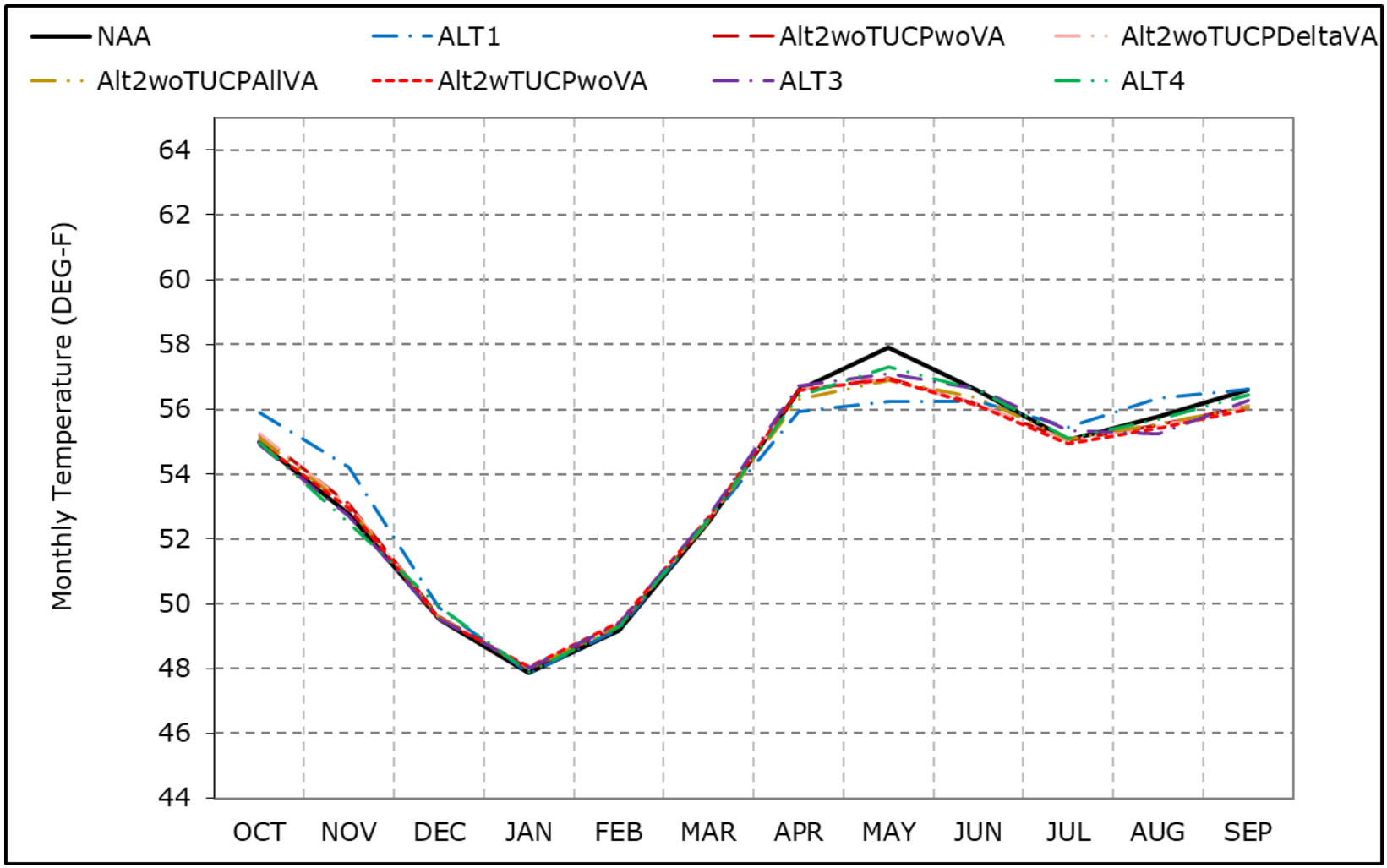
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-2. Sacramento River at Jellys Ferry, Wet Year Average Temperature



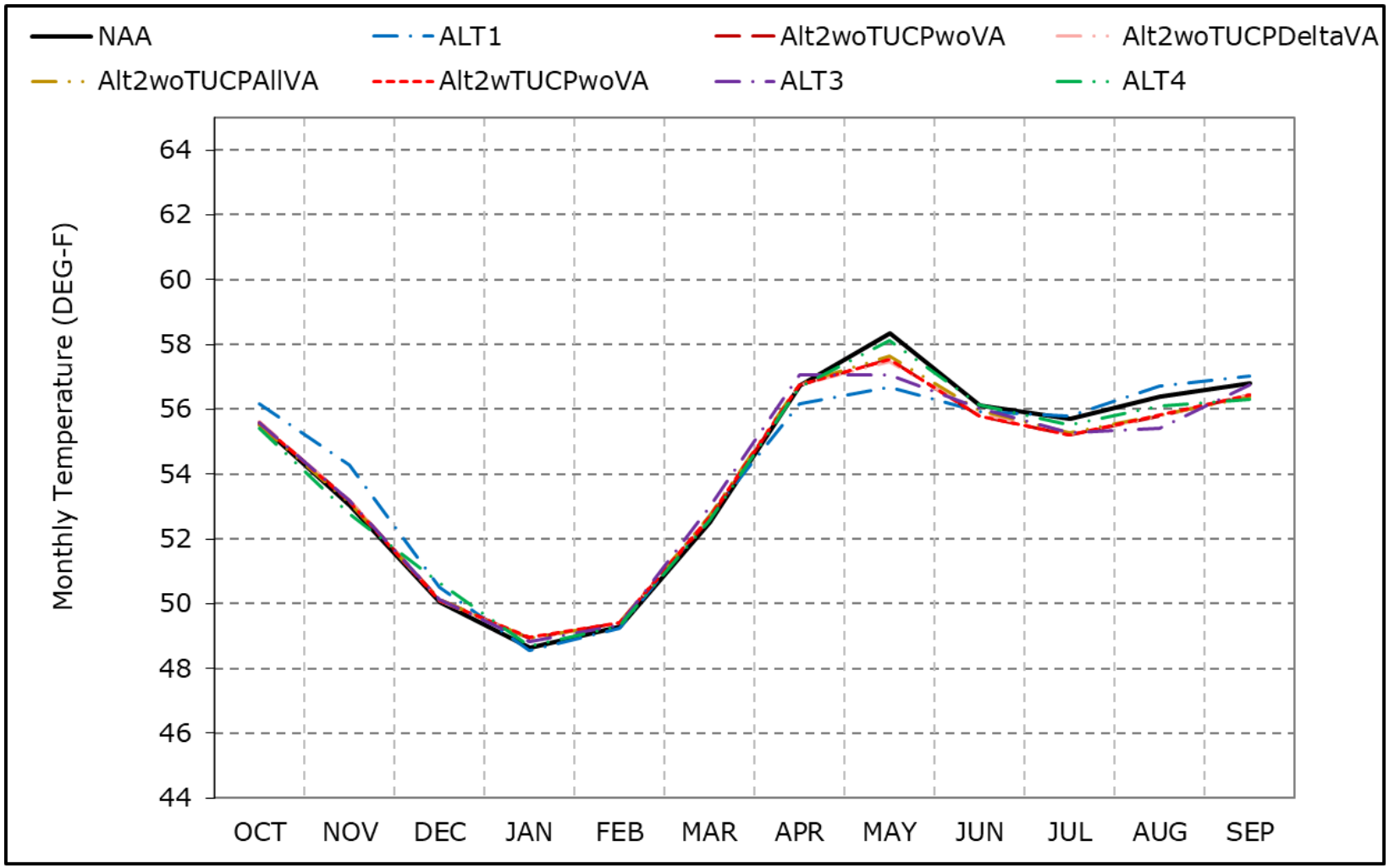
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-3. Sacramento River at Jellys Ferry, Above Normal Year Average Temperature



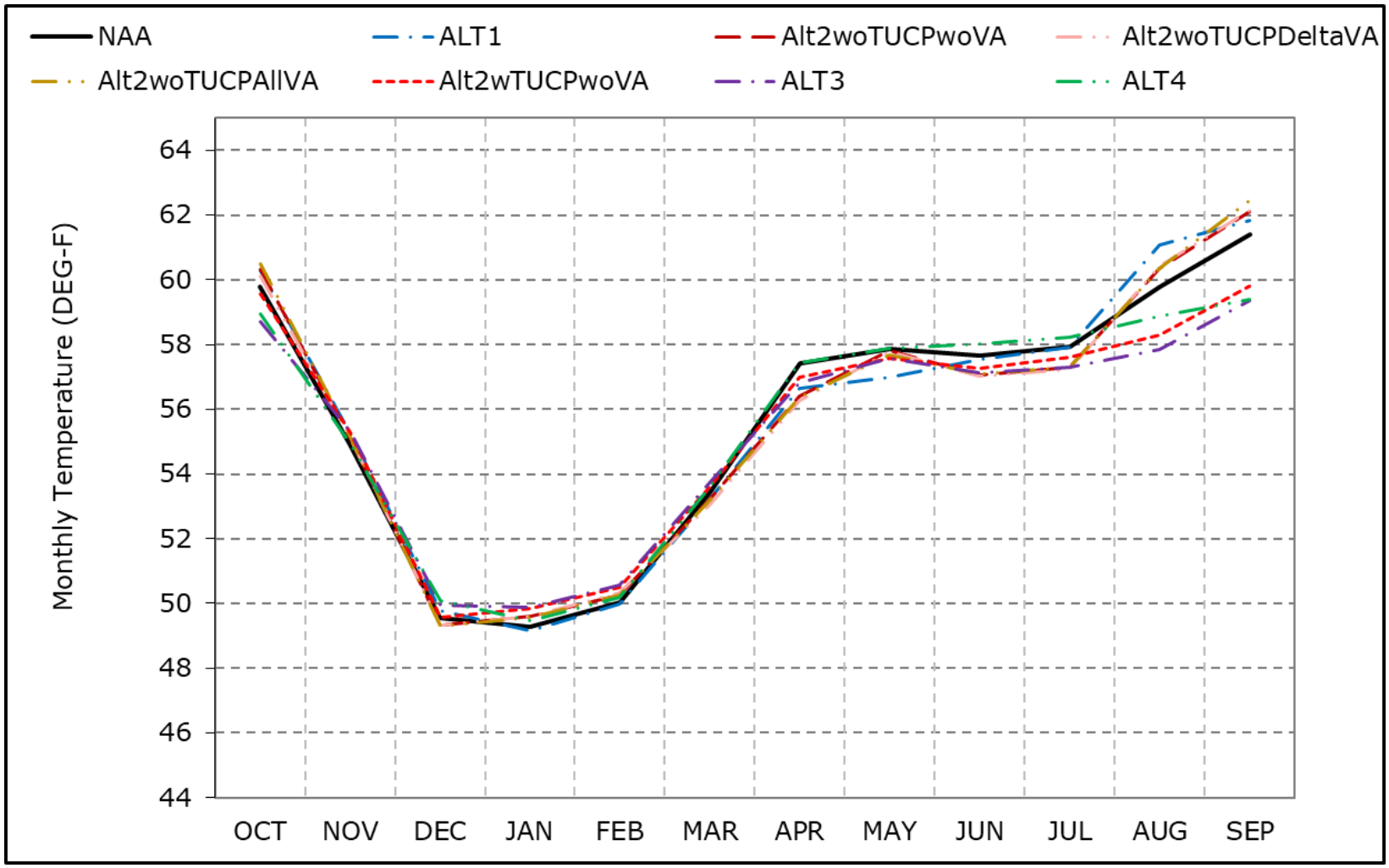
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-4. Sacramento River at Jellys Ferry, Below Normal Year Average Temperature



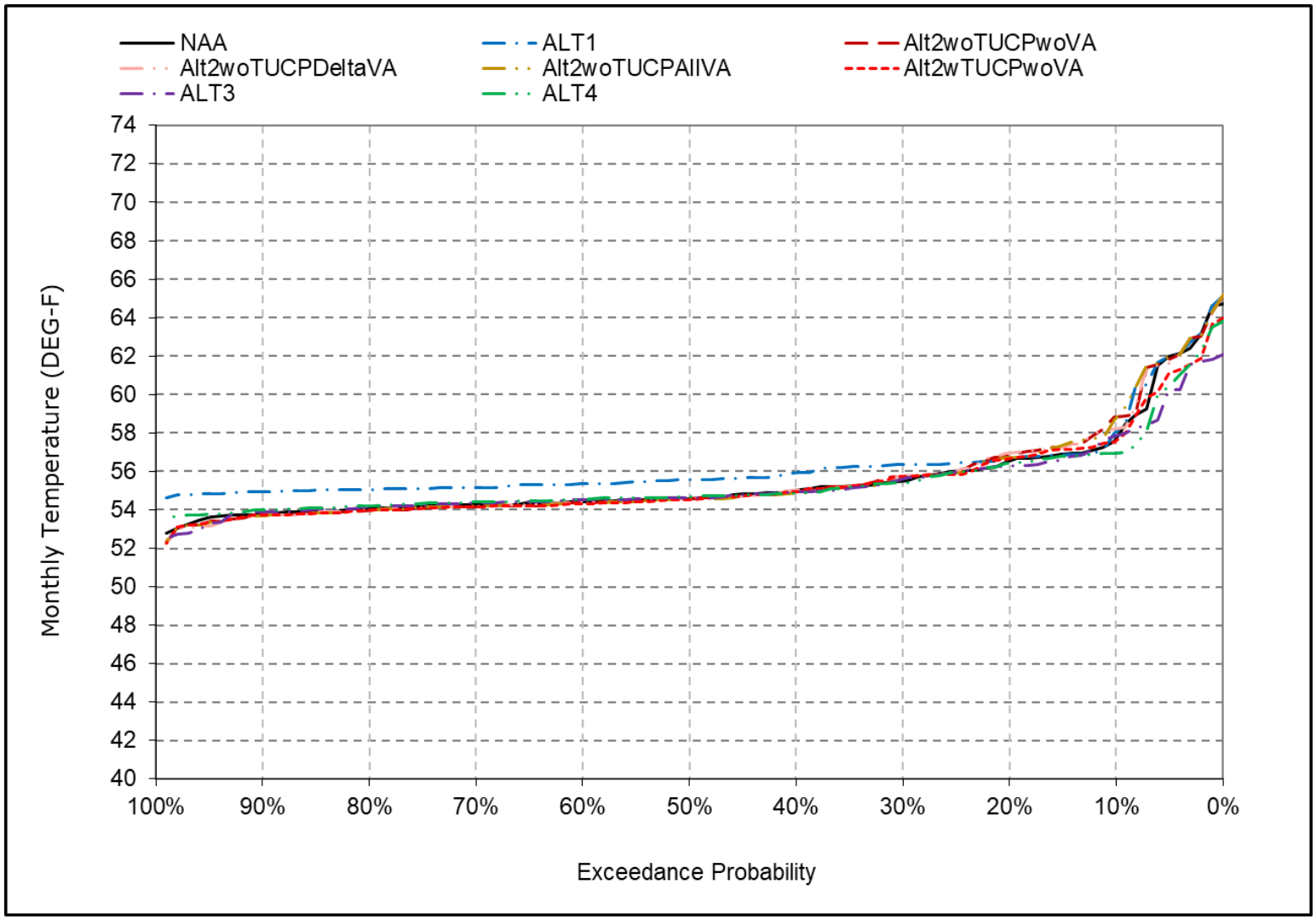
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-5. Sacramento River at Jellys Ferry, Dry Year Average Temperature



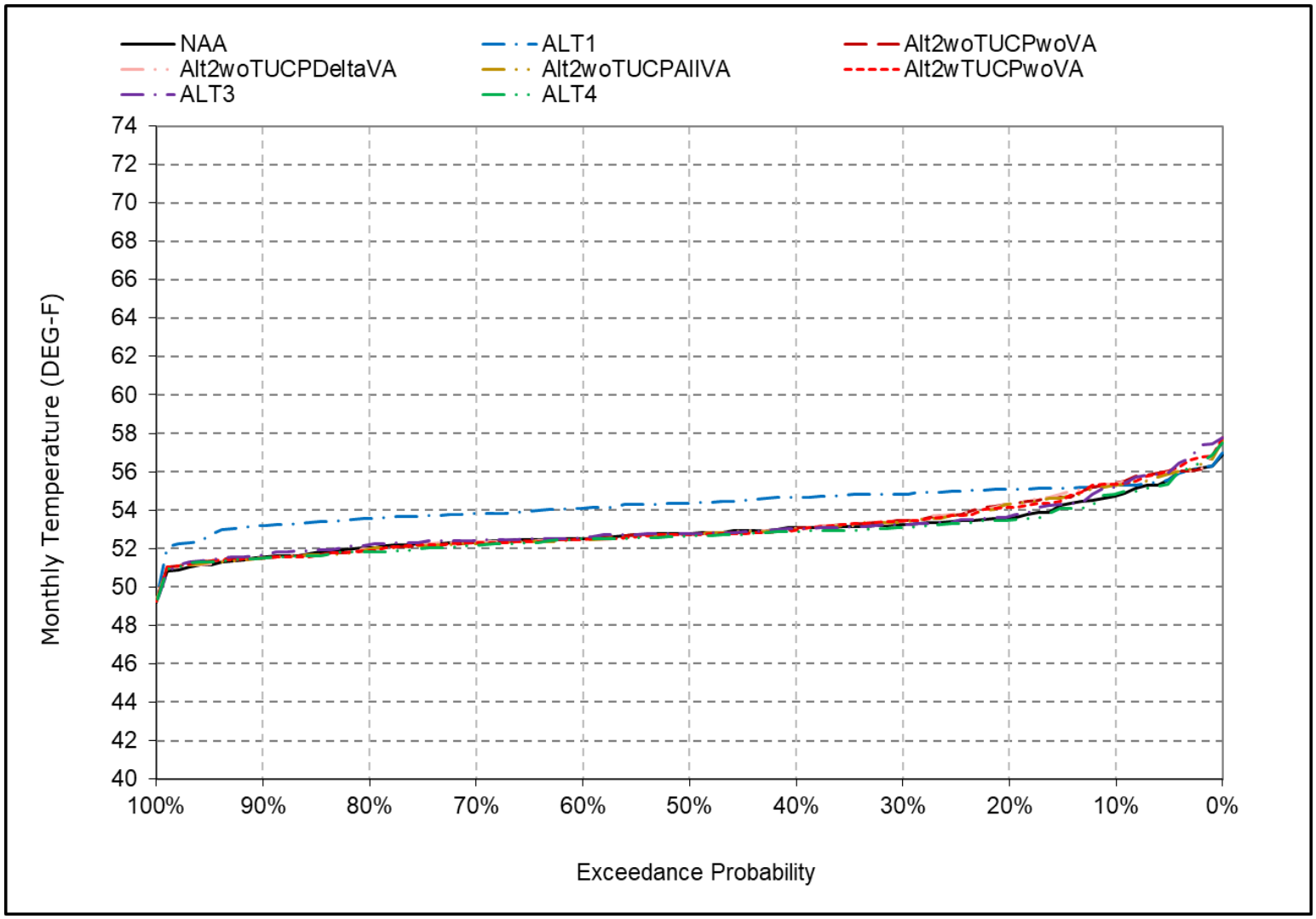
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-6. Sacramento River at Jellys Ferry, Critical Year Average Temperature



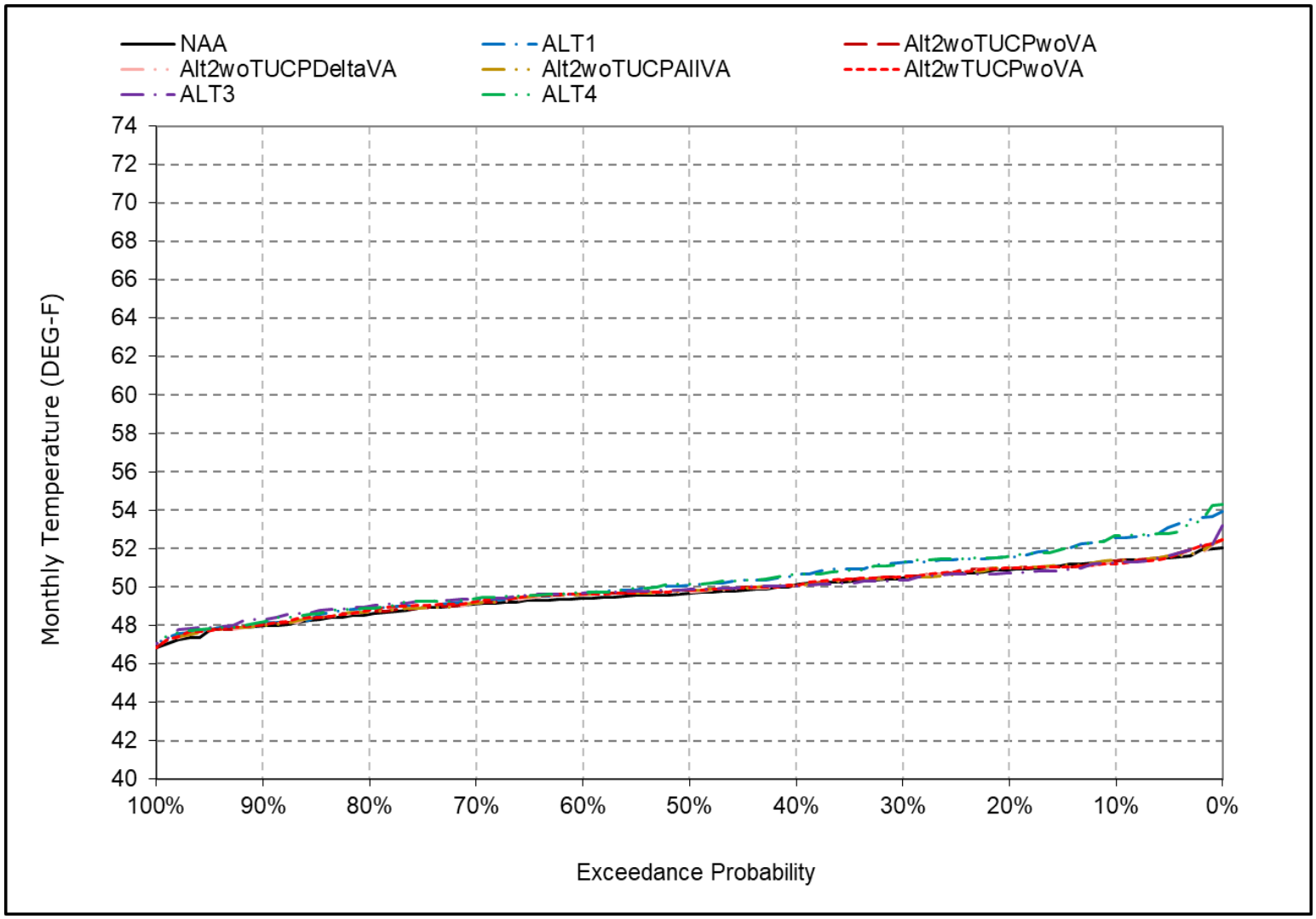
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-7. Sacramento River at Jellys Ferry, October



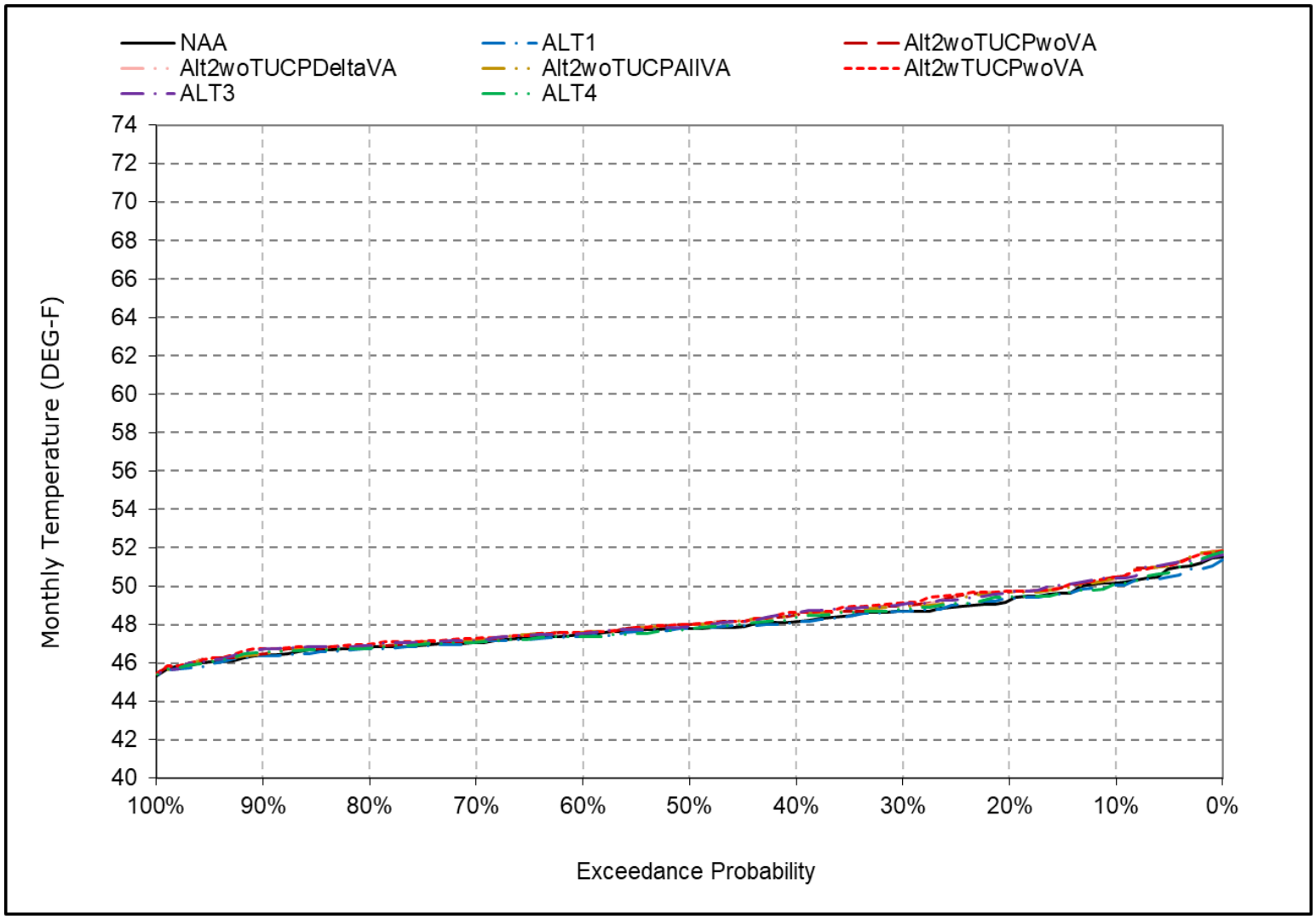
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-8. Sacramento River at Jellys Ferry, November



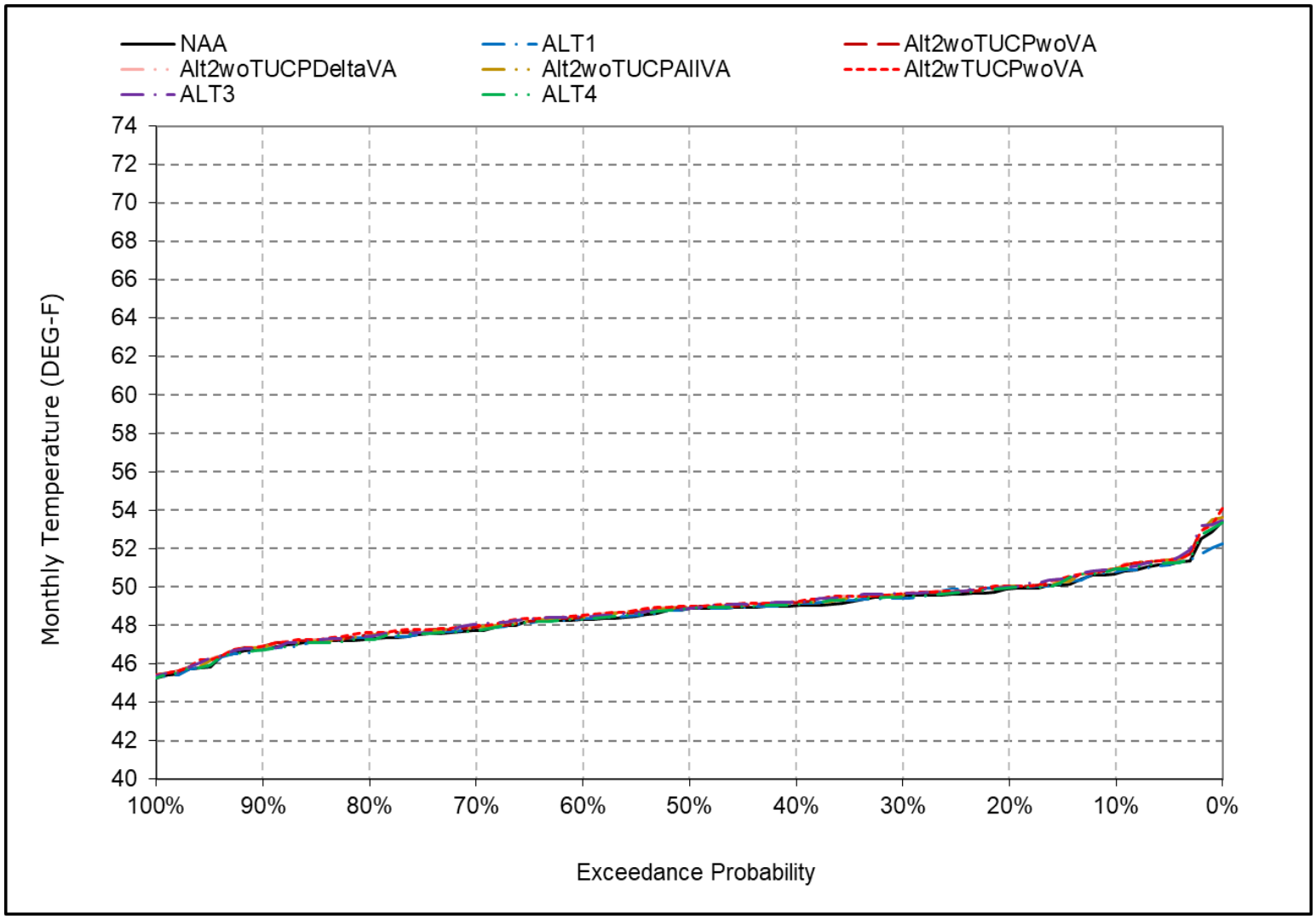
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-9. Sacramento River at Jellys Ferry, December



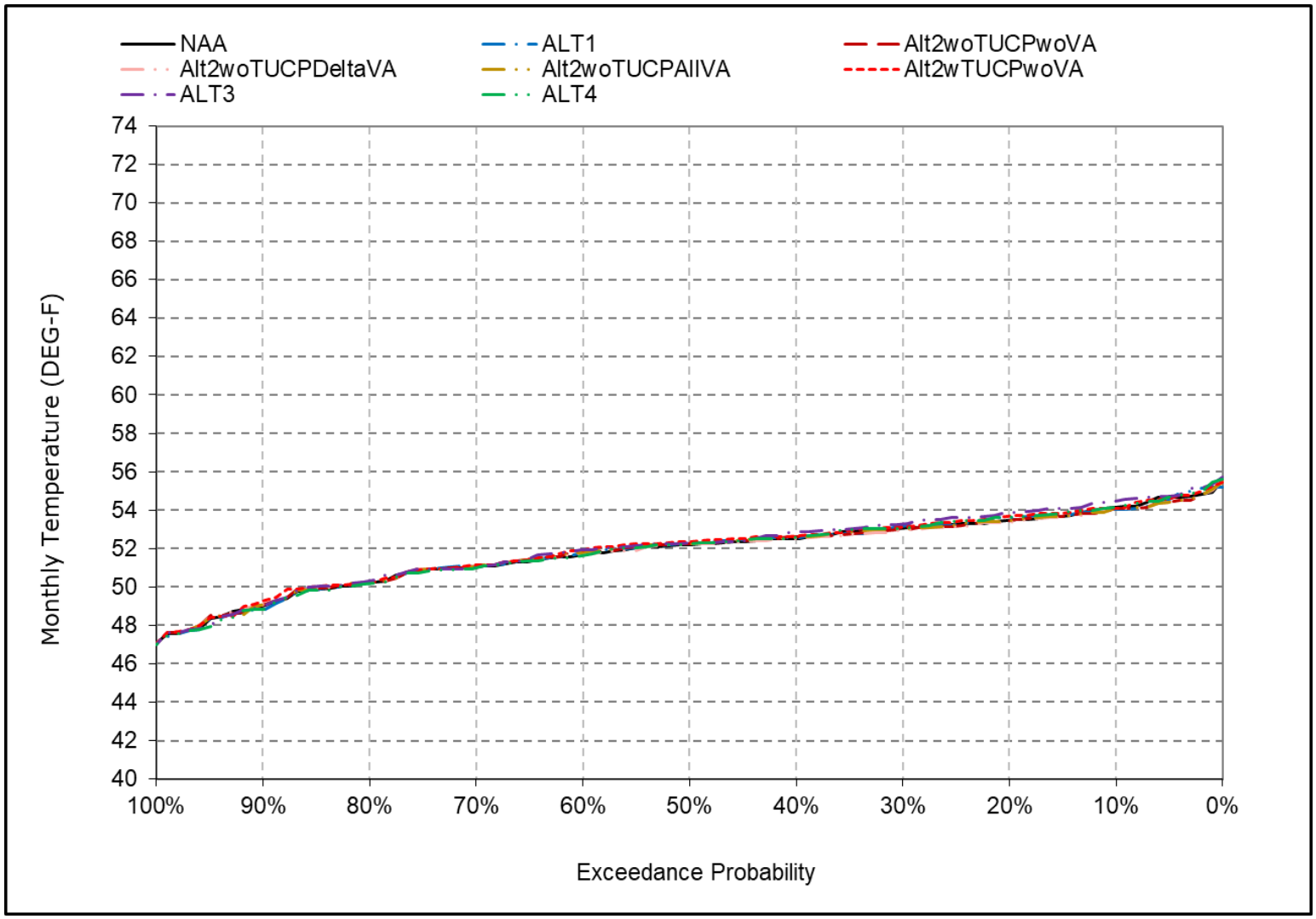
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-10. Sacramento River at Jellys Ferry, January



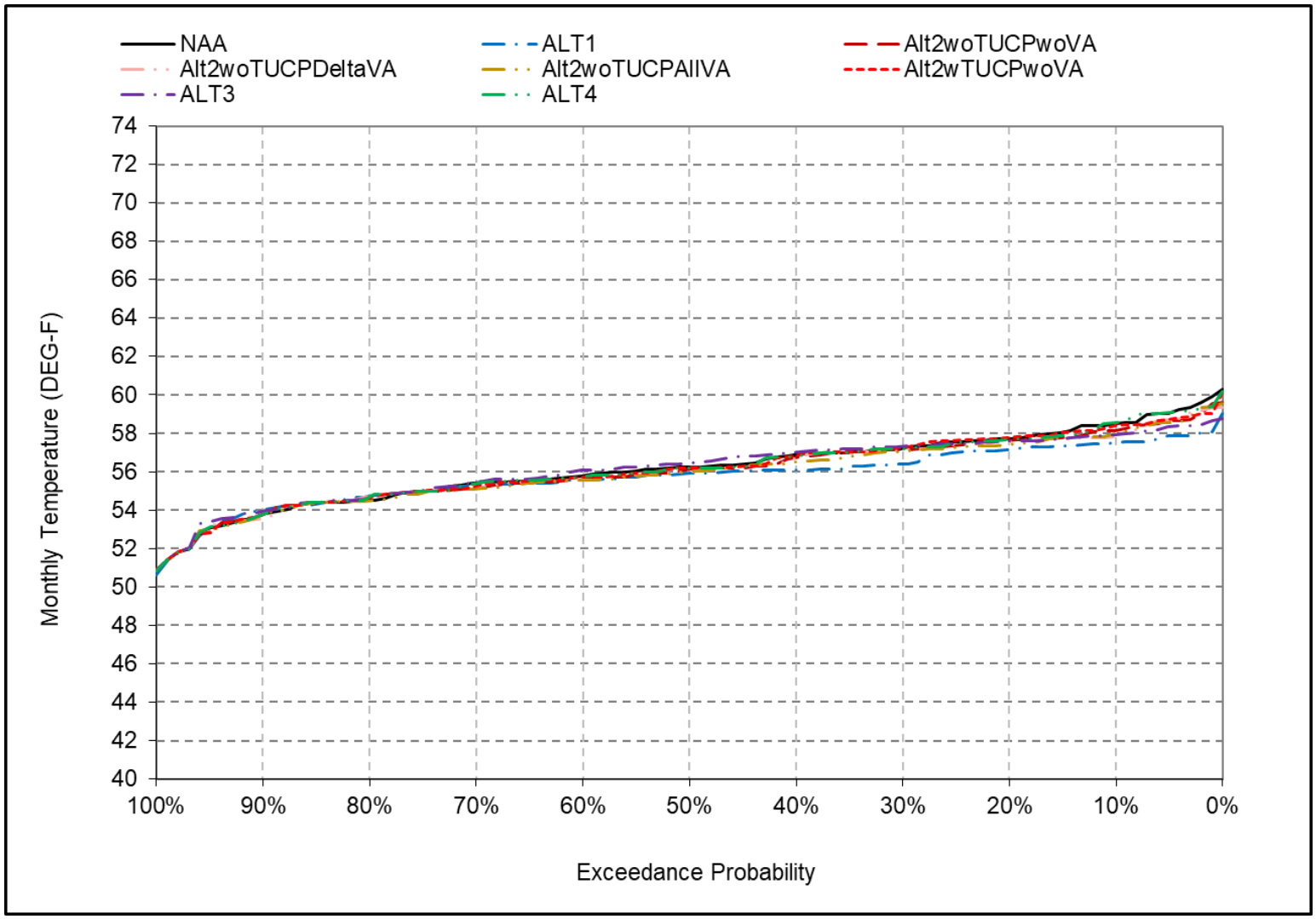
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-11. Sacramento River at Jellys Ferry, February



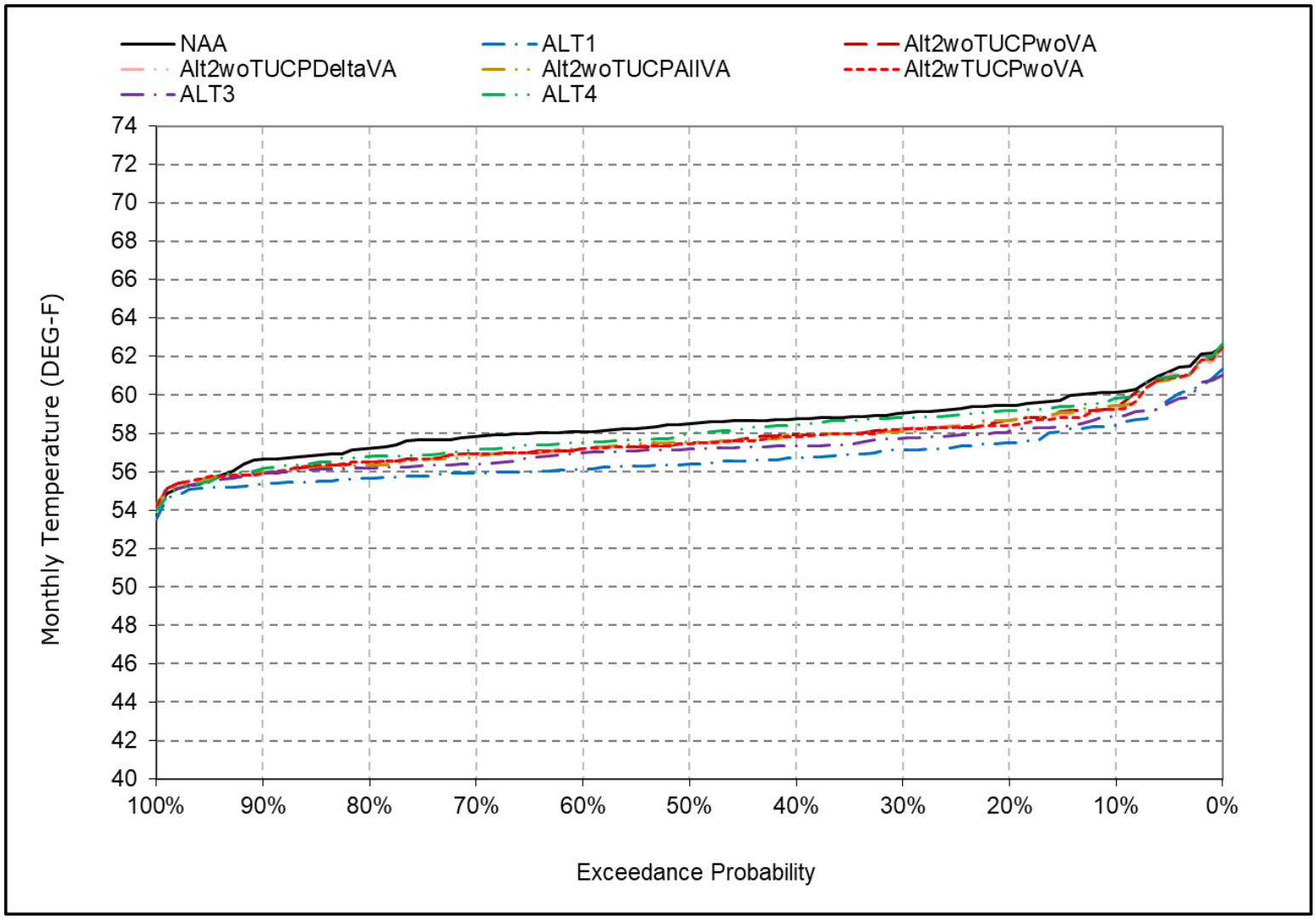
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-12. Sacramento River at Jellys Ferry, March



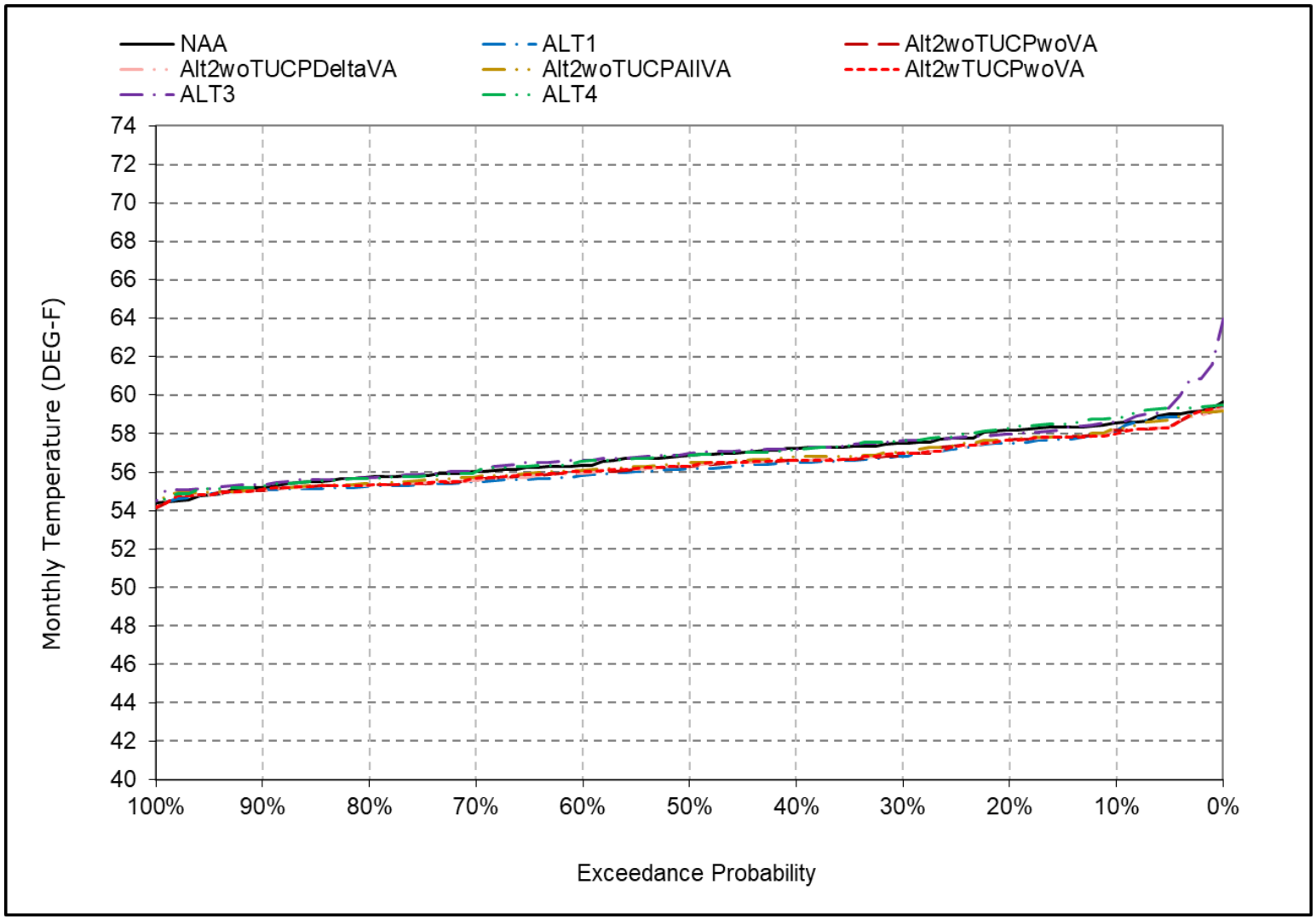
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-13. Sacramento River at Jellys Ferry, April



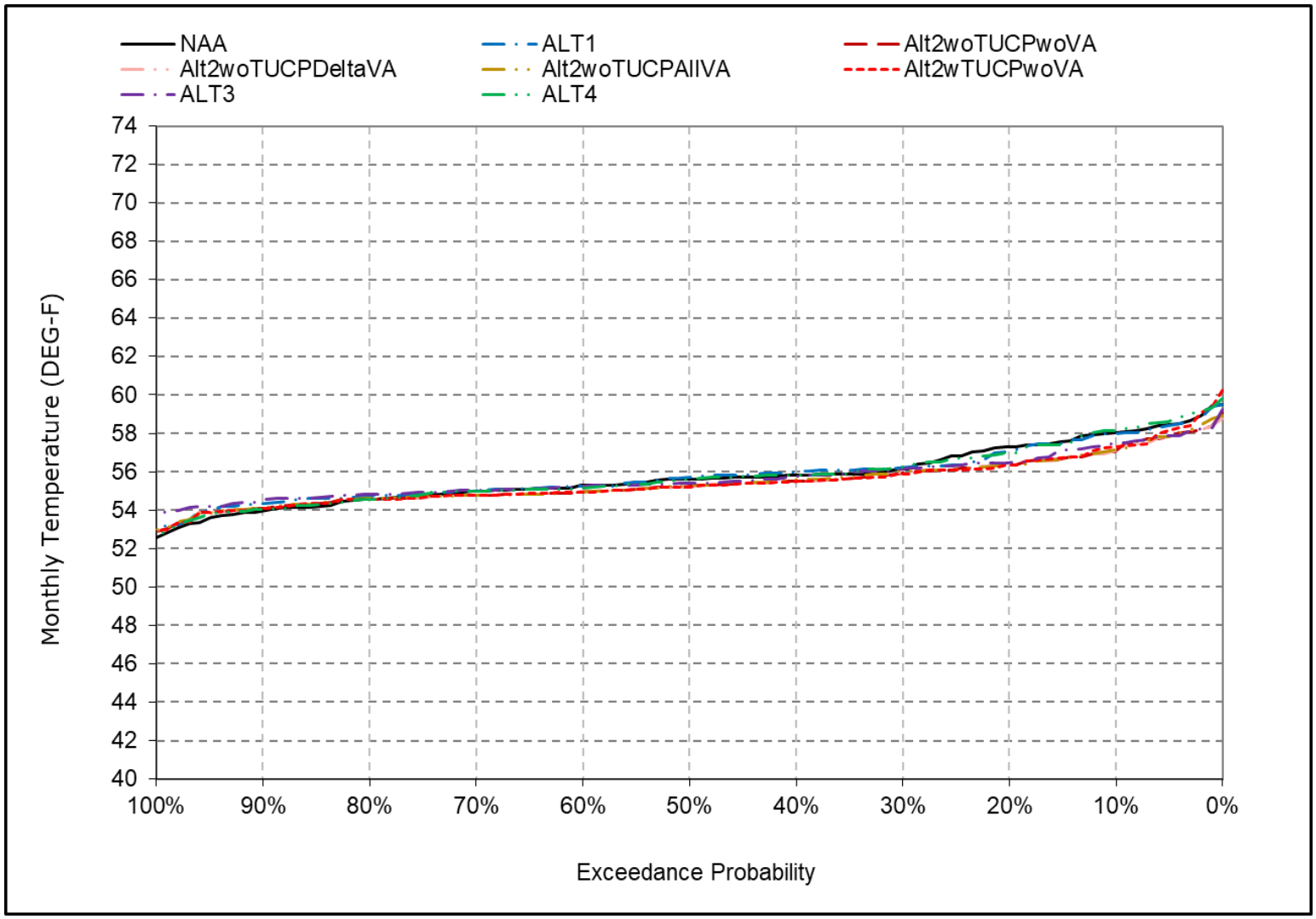
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-14. Sacramento River at Jellys Ferry, May



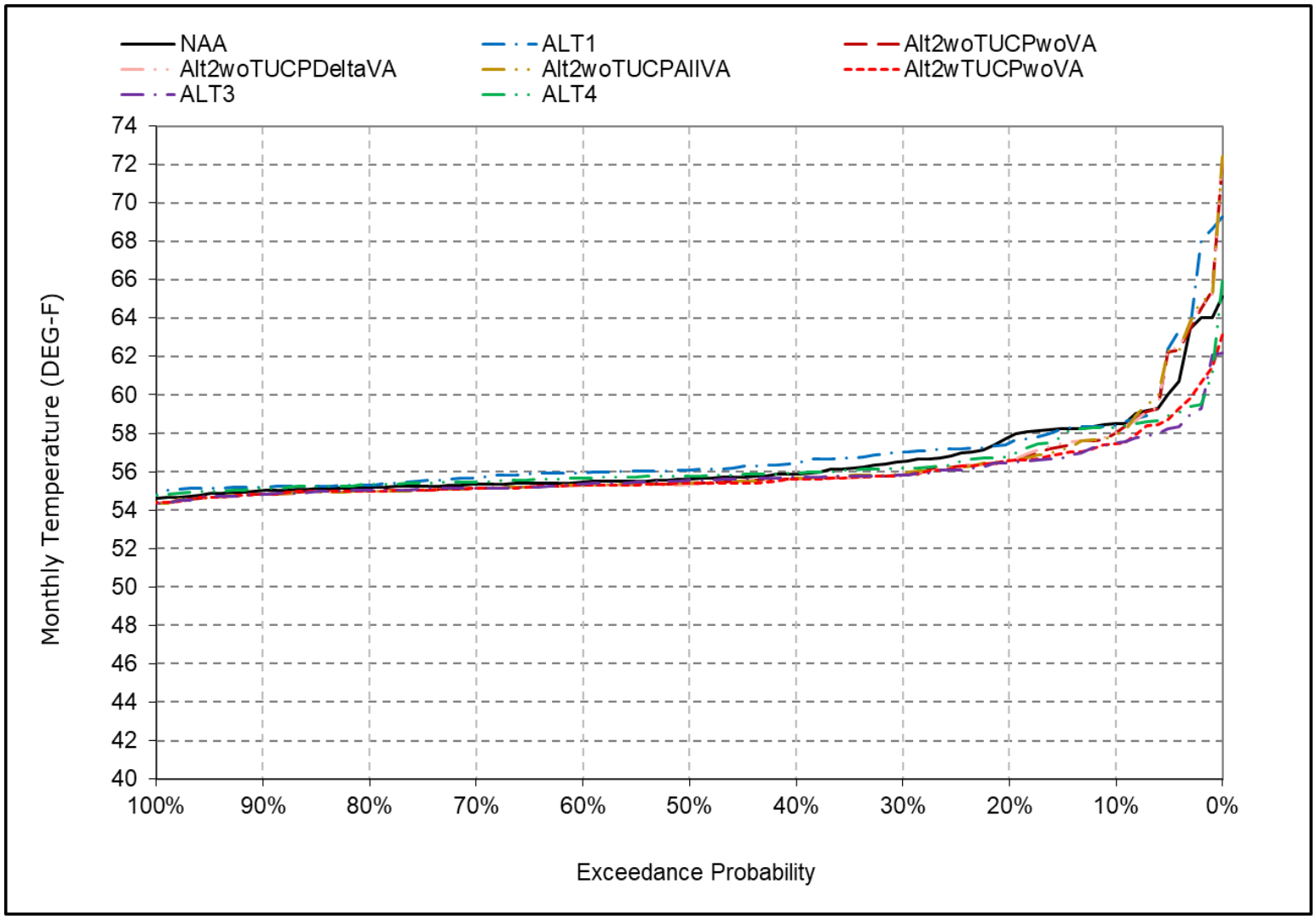
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-15. Sacramento River at Jellys Ferry, June



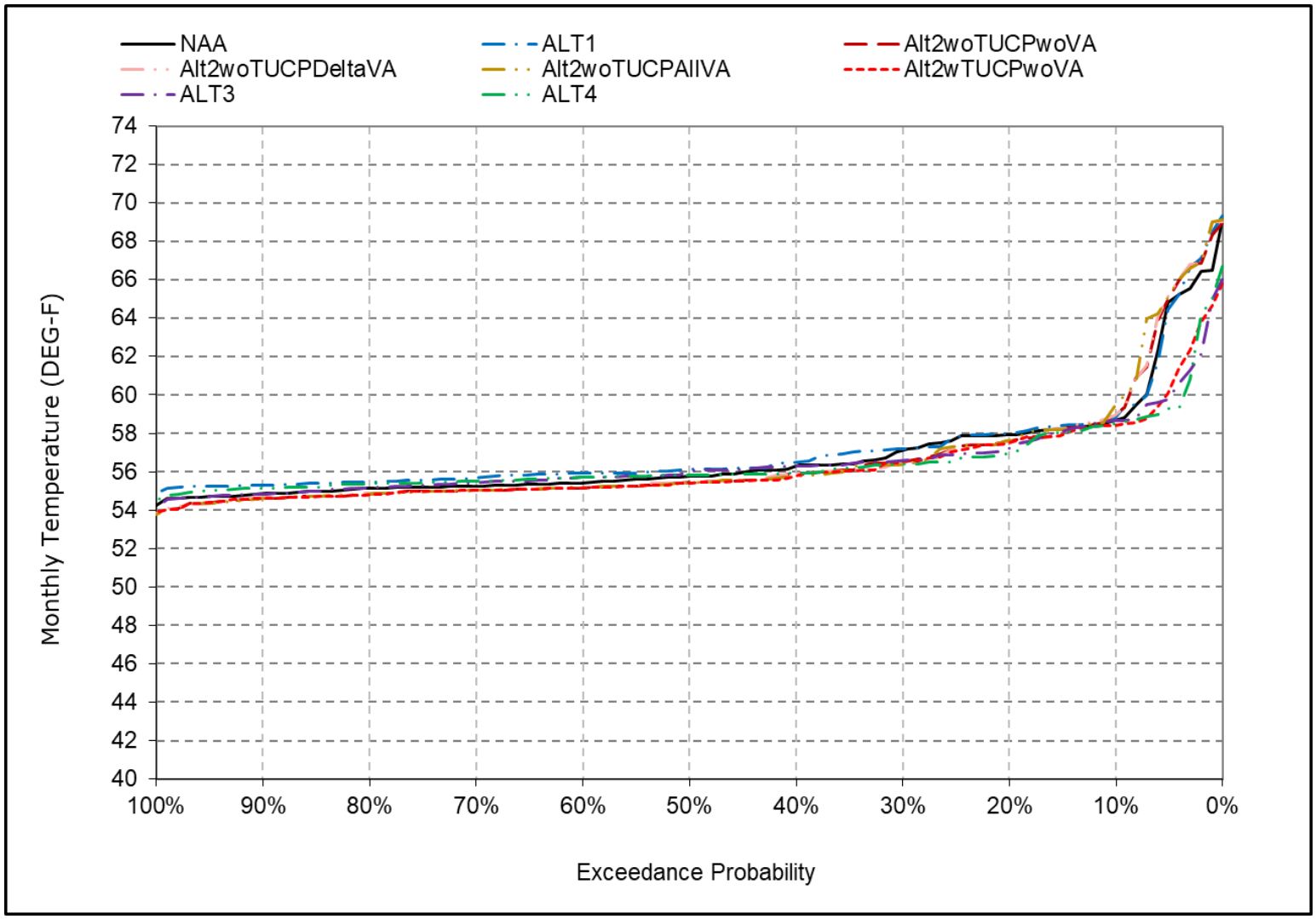
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-16. Sacramento River at Jellys Ferry, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-17. Sacramento River at Jellys Ferry, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-8-18. Sacramento River at Jellys Ferry, September

Table F.2.11-9-1a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-1b. Sacramento River at Bend Bridge, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	52	50	51	54	58	59	59	59	60	60
20% Exceedance	57	55	51	49	50	54	58	58	59	58	59	59
30% Exceedance	57	55	51	49	50	53	57	58	58	57	58	58
40% Exceedance	56.3	54.6	50.6	48.2	49.2	53.0	56.7	57.6	57.5	57.0	57.4	57.6
50% Exceedance	56.0	54.4	50.0	47.7	49.1	52.7	56.6	57.3	57.2	56.5	57.1	57.0
60% Exceedance	55.7	54.2	49.7	47.4	48.5	52.2	56.1	57.0	56.8	56.2	56.9	56.6
70% Exceedance	55.6	53.9	49.1	47.2	48.0	51.5	55.8	56.8	56.4	55.9	56.6	56.5
80% Exceedance	55.5	53.6	48.8	46.8	47.5	50.7	55.1	56.5	56.1	55.6	56.4	56.3
90% Exceedance	55.3	53.2	48.1	46.4	46.9	49.2	54.5	56.0	55.9	55.2	56.1	56.1
Full Simulation Period Average[a]	57	54	50	48	49	52	56	58	57	57	58	58
Wet Water Years (28%)	56	54	50	47	48	51	55	58	58	56	57	56
Above Normal Years (14%)	56	54	50	48	48	52	57	57	57	56	56	56
Below Normal Years (18%)	56	54	50	48	49	53	57	57	57	56	57	58
Dry Years (24%)	57	54	50	49	49	53	57	58	57	57	58	58
Critical (16%)	60	55	50	49	50	54	57	58	59	59	62	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-1c. Sacramento River at Bend Bridge, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.3	1.2	-0.2	0.0	-0.1	-1.1	-1.7	-0.3	0.1	0.0	0.5
20% Exceedance	0	1	1	0	0	0	-1	-2	-1	0	0	0
30% Exceedance	0.9	1.4	0.7	0.0	-0.1	0.0	-0.7	-1.8	-0.6	0.0	0.3	0.0
40% Exceedance	1	1	1	0	0	0	-1	-2	-1	0	1	0
50% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
60% Exceedance	1	2	0	0	0	0	0	-2	-1	0	1	0
70% Exceedance	1	1	0	0	0	0	0	-2	-1	0	0	1
80% Exceedance	1	1	0	0	0	0	0	-2	-1	0	0	0
90% Exceedance	1.1	1.6	0.1	-0.1	-0.1	-0.1	0.3	-1.3	-0.2	0.4	0.4	0.6
Full Simulation Period Average[a]	0.7	1.3	0.5	-0.1	0.0	0.0	-0.4	-1.6	-0.5	0.1	0.5	0.3
Wet Water Years (28%)	1.0	1.7	0.7	-0.1	0.0	0.0	0.0	-1.7	-0.8	-0.1	0.2	0.5
Above Normal Years (14%)	0.8	1.5	1.0	0.1	0.1	0.0	-0.1	-2.3	-1.0	0.1	0.3	0.7
Below Normal Years (18%)	0.8	1.4	0.3	0.0	0.0	0.0	-0.6	-1.6	-0.4	0.4	0.6	-0.1
Dry Years (24%)	0.6	1.2	0.4	-0.1	0.0	0.1	-0.5	-1.5	-0.2	0.1	0.3	0.2
Critical (16%)	0	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-2a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-2b. Sacramento River at Bend Bridge, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	51	54	59	60	59	59	59	60
20% Exceedance	57	54	51	50	50	54	58	59	59	58	58	59
30% Exceedance	56	54	50	49	50	53	58	59	58	57	57	57
40% Exceedance	55.5	53.1	50.0	48.6	49.3	53.0	57.3	58.8	57.6	56.5	56.7	56.9
50% Exceedance	55.1	52.9	49.8	48.0	49.1	52.6	56.7	58.3	57.5	56.2	56.4	56.3
60% Exceedance	54.8	52.6	49.6	47.6	48.6	52.2	56.2	58.0	57.0	55.9	56.3	56.0
70% Exceedance	54.6	52.4	49.1	47.2	48.0	51.4	55.7	57.7	56.5	55.6	56.0	55.8
80% Exceedance	54.3	52.1	48.7	46.9	47.7	50.6	55.3	57.2	56.2	55.4	55.9	55.6
90% Exceedance	54.1	51.7	48.1	46.6	47.1	49.3	54.4	56.6	55.9	54.9	55.6	55.3
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	56	57	57
Wet Water Years (28%)	54	53	50	47	48	51	55	59	58	56	56	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	57	55	56	56
Below Normal Years (18%)	56	53	50	48	50	53	57	58	57	56	57	57
Dry Years (24%)	56	53	50	49	50	53	57	58	57	56	57	57
Critical (16%)	61	55	49	50	50	54	57	59	58	58	61	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-2c. Sacramento River at Bend Bridge, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.9	0.4	0.0	0.3	0.3	-0.1	-0.5	-0.8	-0.4	-0.4	-0.3	0.1
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.4	0.2	0.0	0.3	0.1	-0.1	-0.1	-0.8	-0.6	-0.3	-0.7	-0.6
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.1	0.1	0.2	0.0	0.1	-0.7	-0.1	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.2	-0.7	-0.4	-0.3	-0.2	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.1	0.0	0.1	-0.8	-0.4	-0.2	-0.2	-0.3
Below Normal Years (18%)	0.2	0.3	0.1	0.1	0.2	0.0	0.0	-0.9	-0.4	0.0	-0.2	-0.5
Dry Years (24%)	0.0	0.2	0.1	0.3	0.1	0.1	0.0	-0.7	-0.3	-0.4	-0.6	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-3a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-3b. Sacramento River at Bend Bridge, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	50	51	54	58	60	59	59	59	60
20% Exceedance	57	54	51	50	50	54	58	60	59	58	58	59
30% Exceedance	56	53	50	49	50	53	58	59	58	57	57	57
40% Exceedance	55.5	53.2	50.0	48.6	49.4	52.9	57.3	58.8	57.7	56.5	56.6	56.9
50% Exceedance	55.1	52.9	49.7	48.0	49.2	52.6	56.6	58.3	57.5	56.2	56.4	56.3
60% Exceedance	54.9	52.6	49.6	47.6	48.6	52.1	56.3	57.9	57.0	55.9	56.2	56.0
70% Exceedance	54.6	52.4	49.0	47.2	48.0	51.4	55.7	57.7	56.5	55.6	56.1	55.8
80% Exceedance	54.5	52.1	48.7	46.9	47.7	50.7	55.3	57.1	56.2	55.4	55.8	55.6
90% Exceedance	54.1	51.6	48.1	46.6	47.1	49.4	54.1	56.6	55.9	54.9	55.6	55.3
Full Simulation Period Average[a]	56	53	50	48	49	52	57	58	58	56	57	57
Wet Water Years (28%)	54	52	50	47	48	51	55	59	58	56	56	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	57	55	56	56
Below Normal Years (18%)	56	53	50	48	50	53	57	58	57	56	57	57
Dry Years (24%)	56	53	50	49	50	53	57	58	57	56	57	57
Critical (16%)	60	55	49	50	51	54	57	59	58	58	61	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-3c. Sacramento River at Bend Bridge, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.4	0.0	0.2	0.3	-0.2	-0.8	-0.8	-0.4	-0.5	-0.3	0.1
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.4	0.0	0.0	0.3	0.1	-0.1	-0.2	-0.8	-0.6	-0.3	-0.8	-0.8
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.0	0.0	0.2	0.2	0.0	-0.1	-0.7	-0.1	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.2	0.0	-0.2	-0.7	-0.4	-0.3	-0.2	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.2	0.0	0.1	-0.9	-0.3	-0.2	-0.2	-0.3
Below Normal Years (18%)	0.2	0.3	0.0	0.1	0.2	0.0	0.0	-0.9	-0.4	0.0	-0.2	-0.5
Dry Years (24%)	0.1	0.2	0.1	0.3	0.1	0.1	0.0	-0.8	-0.3	-0.4	-0.6	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	-1	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-4a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-4b. Sacramento River at Bend Bridge, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	50	51	54	59	60	60	59	59	61
20% Exceedance	57	54	51	50	50	54	58	60	59	58	58	59
30% Exceedance	56	54	50	49	50	53	58	59	58	57	57	57
40% Exceedance	55.4	53.1	50.0	48.6	49.3	53.1	57.1	58.7	57.9	56.6	56.7	56.8
50% Exceedance	55.1	52.9	49.8	48.0	49.1	52.6	56.6	58.4	57.6	56.2	56.5	56.3
60% Exceedance	54.8	52.5	49.6	47.6	48.6	52.2	56.1	58.0	57.2	55.9	56.3	56.0
70% Exceedance	54.7	52.4	49.0	47.2	48.0	51.4	55.8	57.6	56.7	55.6	56.1	55.7
80% Exceedance	54.4	52.1	48.7	46.9	47.6	50.7	55.1	57.1	56.3	55.4	55.9	55.6
90% Exceedance	54.1	51.6	48.0	46.6	47.1	49.3	54.3	56.7	56.0	54.9	55.7	55.3
Full Simulation Period Average[a]	56	53	50	48	49	52	56	58	58	56	57	57
Wet Water Years (28%)	54	53	50	47	48	51	55	59	58	56	56	56
Above Normal Years (14%)	55	52	49	48	48	52	56	59	58	55	56	56
Below Normal Years (18%)	56	53	50	48	50	53	57	58	57	56	57	57
Dry Years (24%)	56	53	50	49	49	53	57	58	57	56	57	57
Critical (16%)	61	55	49	50	50	54	57	59	58	58	61	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-4c. Sacramento River at Bend Bridge, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.9	0.3	0.1	0.2	0.3	-0.2	-0.7	-0.8	-0.2	-0.4	-0.4	0.6
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.4	0.1	0.0	0.3	0.1	-0.1	-0.2	-0.9	-0.4	-0.2	-0.6	-0.7
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.0	0.0	0.1	0.2	0.0	0.0	-0.6	0.0	0.2	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.2	-0.7	-0.2	-0.3	-0.2	-0.1
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.8	-0.4	-0.2	-0.2	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.9	-0.1	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.1	0.2	0.0	0.1	0.2	0.0	-0.3	-0.9	-0.2	0.1	-0.2	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.1	0.1	-0.6	-0.1	-0.3	-0.5	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-5a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-5b. Sacramento River at Bend Bridge, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	51	51	51	55	59	60	59	59	59	59
20% Exceedance	57	54	51	50	50	54	58	59	59	58	58	59
30% Exceedance	56	54	50	49	50	54	58	59	58	57	57	57
40% Exceedance	55.5	53.1	50.0	48.6	49.4	53.1	57.4	58.8	57.7	56.5	56.7	56.9
50% Exceedance	55.0	52.8	49.8	48.0	49.2	52.7	56.7	58.3	57.4	56.2	56.4	56.2
60% Exceedance	54.7	52.5	49.6	47.6	48.7	52.3	56.3	57.9	57.2	55.9	56.2	56.0
70% Exceedance	54.6	52.4	49.2	47.3	48.1	51.4	55.9	57.7	56.6	55.5	56.0	55.8
80% Exceedance	54.4	52.0	48.7	47.0	47.7	50.7	55.3	57.3	56.2	55.4	55.9	55.6
90% Exceedance	54.1	51.7	48.1	46.8	47.1	49.5	54.4	56.6	55.9	54.9	55.6	55.3
Full Simulation Period Average[a]	56	53	50	48	49	52	57	58	58	57	57	57
Wet Water Years (28%)	54	52	50	47	48	51	55	59	58	56	56	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	57	55	56	56
Below Normal Years (18%)	55	53	50	48	50	53	57	58	57	56	56	57
Dry Years (24%)	56	53	50	49	50	53	57	58	57	56	57	57
Critical (16%)	60	55	50	50	51	54	58	59	58	59	59	61

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-5c. Sacramento River at Bend Bridge, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	0.4	-0.1	0.3	0.3	0.0	-0.3	-0.9	-0.6	-0.3	-0.9	-0.5
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.4	0.2	0.0	0.4	0.2	0.1	0.0	-0.8	-0.6	-0.3	-0.7	-0.6
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.1	0.3	0.2	0.1	0.1	-0.7	-0.1	0.1	-0.1	-0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.3	0.2	0.1	-0.1	-0.7	-0.4	-0.2	-0.5	-0.5
Wet Water Years (28%)	-0.2	0.1	0.3	0.2	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.3
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.2	0.1	0.1	-0.8	-0.4	-0.2	-0.2	-0.3
Below Normal Years (18%)	0.0	0.2	0.0	0.2	0.2	0.1	0.0	-0.9	-0.5	-0.1	-0.3	-0.6
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.1	0.0	-0.7	-0.3	-0.4	-0.5	-0.3
Critical (16%)	0	0	0	1	0	0	0	0	0	0	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-6a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-6b. Sacramento River at Bend Bridge, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	51	50	51	55	59	60	60	59	59	60
20% Exceedance	57	54	51	50	50	54	58	59	59	58	57	58
30% Exceedance	56	53	50	49	50	54	58	59	59	57	57	58
40% Exceedance	55.4	53.1	50.0	48.7	49.4	53.2	57.6	58.2	58.4	56.9	56.7	57.2
50% Exceedance	55.2	52.9	49.8	47.9	49.1	52.6	57.2	57.9	58.1	56.4	56.5	57.0
60% Exceedance	55.0	52.7	49.6	47.5	48.6	52.4	56.6	57.6	57.7	56.1	56.2	56.6
70% Exceedance	54.8	52.5	49.3	47.2	48.1	51.4	56.0	57.1	57.0	55.8	56.0	56.2
80% Exceedance	54.6	52.2	48.9	46.9	47.5	50.7	55.2	56.9	56.7	55.6	55.8	55.9
90% Exceedance	54.3	51.8	48.3	46.8	47.0	49.4	54.4	56.5	56.2	55.4	55.6	55.5
Full Simulation Period Average[a]	56	53	50	48	49	52	57	58	58	57	57	57
Wet Water Years (28%)	55	53	50	47	48	51	55	58	59	57	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	58	59	56	56	56
Below Normal Years (18%)	55	53	50	48	50	53	57	58	58	56	56	57
Dry Years (24%)	56	53	50	49	49	53	58	58	57	56	56	58
Critical (16%)	59	55	50	50	51	54	58	59	58	58	59	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-6c. Sacramento River at Bend Bridge, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	0.3	-0.2	0.2	0.1	0.4	-0.6	-1.0	0.2	-0.2	-0.9	-0.4
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-2	0
30% Exceedance	0.3	-0.1	0.0	0.2	0.2	0.2	0.2	-1.2	0.3	-0.1	-0.6	-0.4
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0.0	0.1	0.3	0.3	0.0	0.1	0.2	-0.8	0.1	0.6	-0.1	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.2	0.2	0.2	0.1	0.0	-1.1	0.3	0.0	-0.6	-0.2
Wet Water Years (28%)	0.0	0.1	0.1	0.1	0.1	-0.1	-0.1	-1.6	0.8	0.1	0.3	0.3
Above Normal Years (14%)	0.0	0.1	0.3	0.1	0.1	0.0	0.0	-1.7	1.0	0.5	0.1	0.3
Below Normal Years (18%)	-0.1	0.0	0.0	0.1	0.2	0.1	0.2	-0.7	0.1	0.4	-0.5	-0.3
Dry Years (24%)	0.0	0.2	0.1	0.2	0.1	0.4	0.4	-1.2	-0.1	-0.4	-1.1	0.0
Critical (16%)	-1	0	0	1	0	0	-1	0	0	-1	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-7a. Sacramento River at Bend Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58.3	55.0	51.2	50.2	50.8	54.6	59.3	61.0	59.7	59.2	59.6	60.0
20% Exceedance	57.0	53.7	50.8	49.3	49.9	53.9	58.3	60.2	59.3	58.5	59.0	58.9
30% Exceedance	55.9	53.4	50.4	48.7	49.7	53.5	57.8	59.8	58.6	57.3	57.6	58.0
40% Exceedance	55.6	53.2	50.0	48.2	49.2	53.1	57.4	59.5	58.3	56.8	56.8	57.3
50% Exceedance	55	53	50	48	49	53	57	59	58	57	57	57
60% Exceedance	55	53	49	47	49	52	56	59	57	56	56	56
70% Exceedance	55	52	49	47	48	51	56	58	57	56	56	56
80% Exceedance	54	52	49	47	47	51	55	58	57	55	56	56
90% Exceedance	54	52	48	46	47	49	54	57	56	55	56	56
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	58
Wet Water Years (28%)	55	52	50	47	48	51	55	60	58	56	57	56
Above Normal Years (14%)	55	52	49	48	48	52	57	59	58	56	56	56
Below Normal Years (18%)	56	53	50	48	49	53	57	59	58	56	57	58
Dry Years (24%)	56.0	53.2	49.9	48.7	49.4	52.9	57.3	59.1	57.1	56.6	57.4	57.8
Critical (16%)	60	55	50	49	50	54	58	59	59	59	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-7b. Sacramento River at Bend Bridge, Alternative 4, Monthly Temperature (°F)

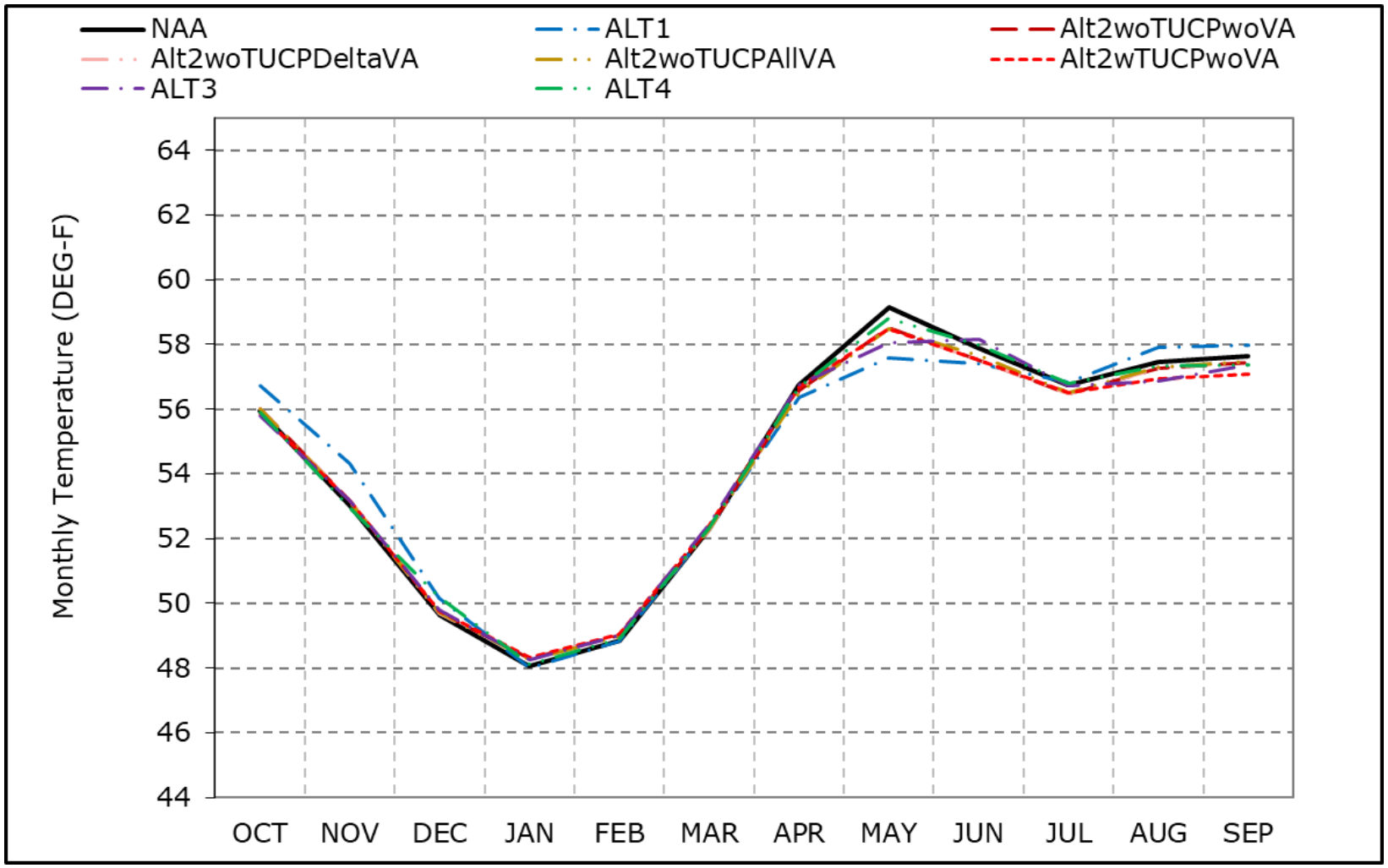
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57	55	52	50	51	55	59	61	60	59	59	59
20% Exceedance	57	54	51	49	50	54	58	60	59	58	58	58
30% Exceedance	56	53	51	49	50	54	58	60	59	57	57	57
40% Exceedance	55.3	53.0	50.6	48.3	49.3	53.1	57.4	59.3	58.2	56.9	56.9	57.1
50% Exceedance	55.3	52.7	50.0	47.8	49.0	52.6	56.7	58.8	57.9	56.5	56.8	56.7
60% Exceedance	55.0	52.6	49.7	47.4	48.5	52.1	56.3	58.4	57.6	56.1	56.7	56.5
70% Exceedance	54.8	52.3	49.3	47.2	47.9	51.4	55.9	58.0	56.9	55.7	56.3	56.3
80% Exceedance	54.7	52.0	48.9	46.9	47.4	50.6	55.1	57.5	56.5	55.3	56.2	56.1
90% Exceedance	54.4	51.7	48.3	46.6	46.9	49.2	54.2	56.9	56.1	54.8	55.9	55.9
Full Simulation Period Average[a]	56	53	50	48	49	52	57	59	58	57	57	57
Wet Water Years (28%)	55	52	50	47	48	51	55	59	58	57	57	56
Above Normal Years (14%)	55	52	50	48	48	52	57	59	58	56	56	57
Below Normal Years (18%)	55	53	50	48	49	53	57	58	58	56	57	57
Dry Years (24%)	56	53	51	49	49	53	57	59	57	56	57	57
Critical (16%)	59	55	50	49	50	54	58	59	59	59	60	60

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-9-7c. Sacramento River at Bend Bridge, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

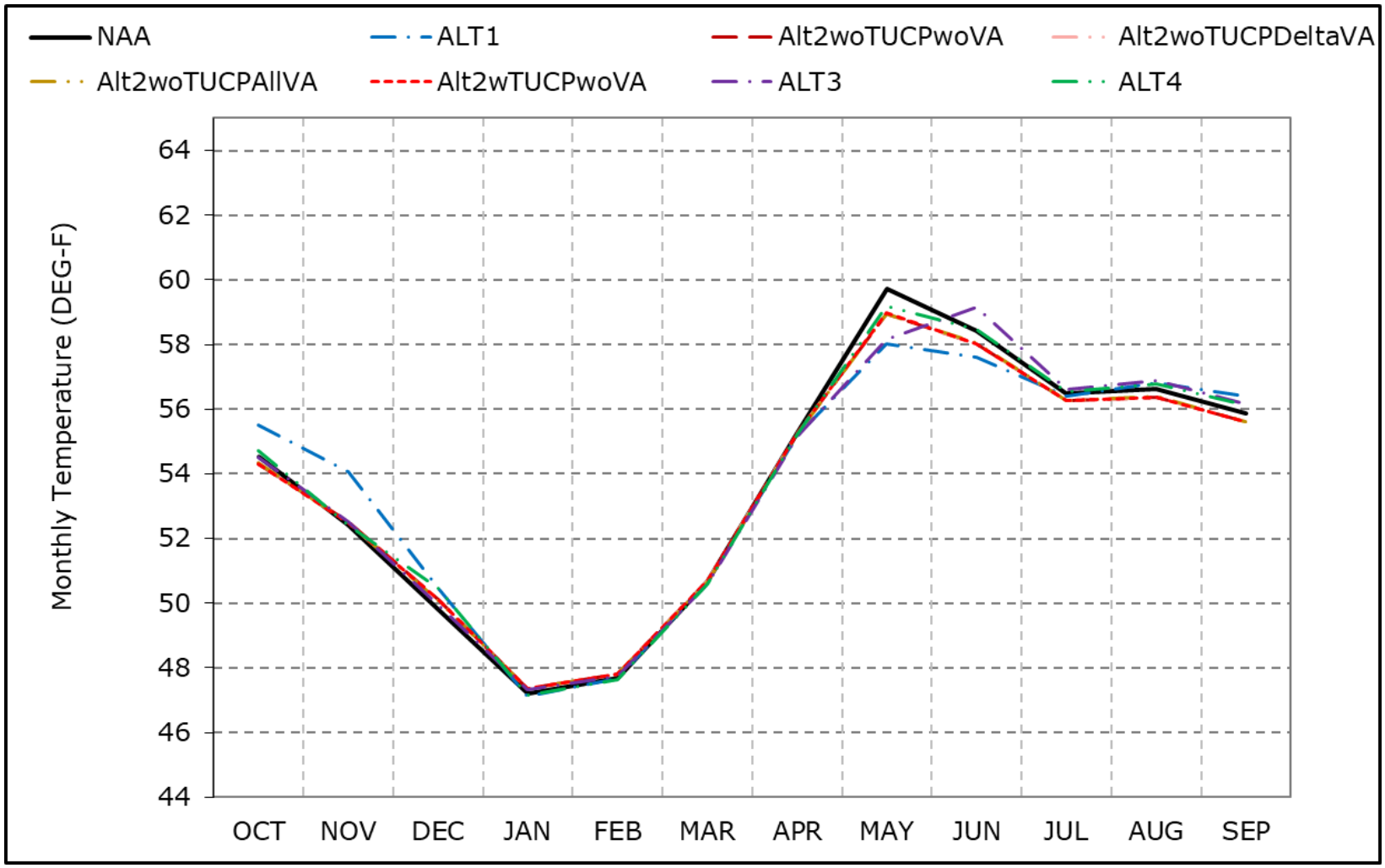
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.8	-0.1	1.1	-0.2	0.1	-0.1	0.1	-0.3	0.3	0.2	-0.2	-0.5
20% Exceedance	0	0	1	0	0	0	0	0	0	0	-1	-1
30% Exceedance	0.1	-0.2	0.6	0.1	0.0	0.1	-0.1	-0.2	0.1	0.0	-0.3	-0.6
40% Exceedance	0	0	1	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.0	0.2	0.1	-0.1	-0.1	0.0	-0.4	0.1	0.0	0.2	0.4
Full Simulation Period Average[a]	-0.1	-0.1	0.6	0.0	0.0	0.0	0.0	-0.4	0.1	0.0	-0.1	-0.3
Wet Water Years (28%)	0.2	0.0	0.7	-0.1	0.0	-0.1	0.0	-0.5	0.1	0.0	0.2	0.3
Above Normal Years (14%)	0.3	0.0	0.6	0.0	0.0	-0.1	0.0	-0.6	0.1	0.0	0.2	0.7
Below Normal Years (18%)	0.0	-0.3	0.4	0.0	0.1	0.0	-0.2	-0.5	0.0	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.2	0.6	0.0	0.0	0.0	0.0	-0.2	0.0	-0.2	-0.3	-0.5
Critical (16%)	-1	0	1	0	0	0	0	0	0	0	-1	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



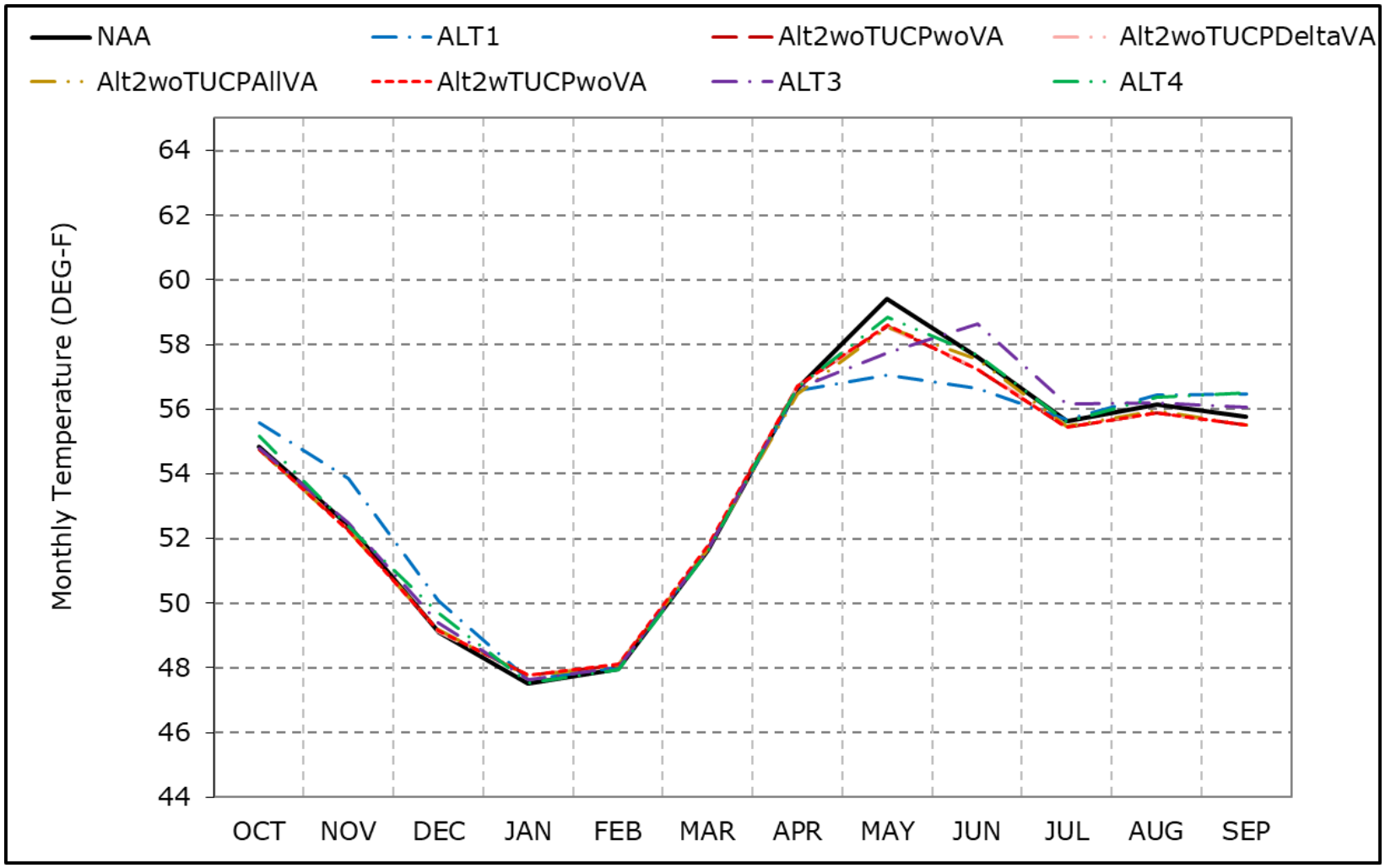
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-1. Sacramento River at Bend Bridge, Long-Term Average Temperature



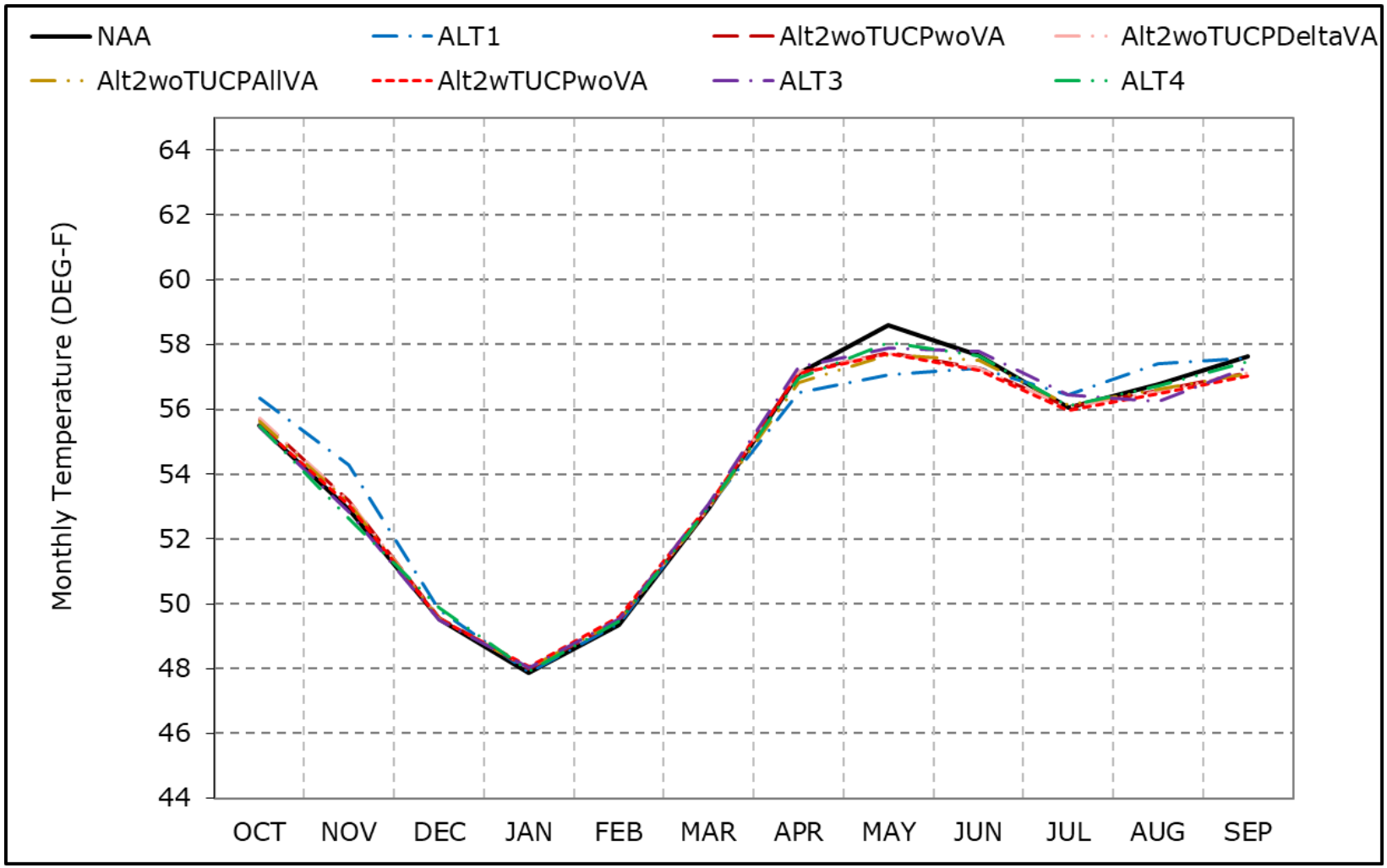
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-2. Sacramento River at Bend Bridge, Wet Year Average Temperature



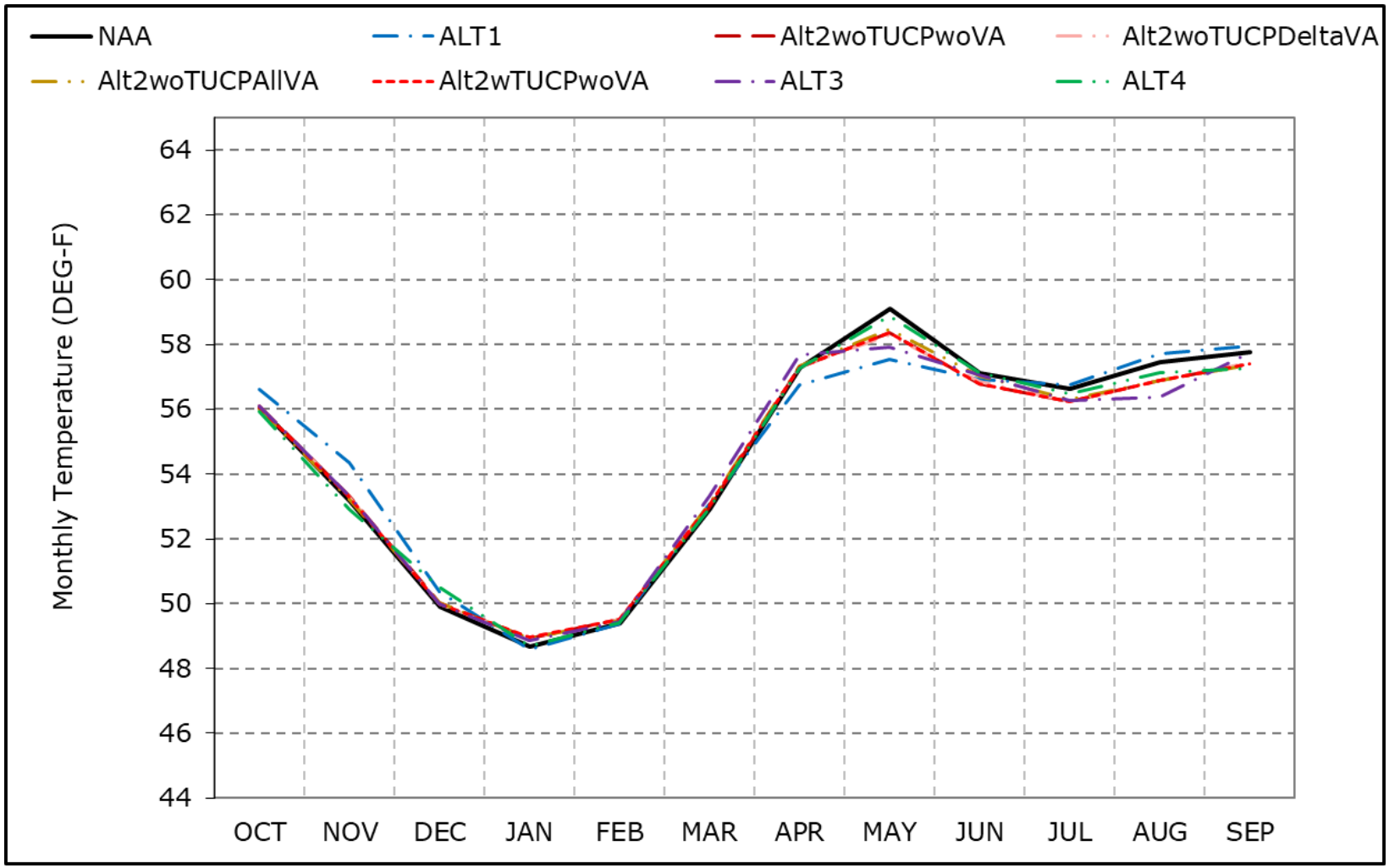
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-3. Sacramento River at Bend Bridge, Above Normal Year Average Temperature



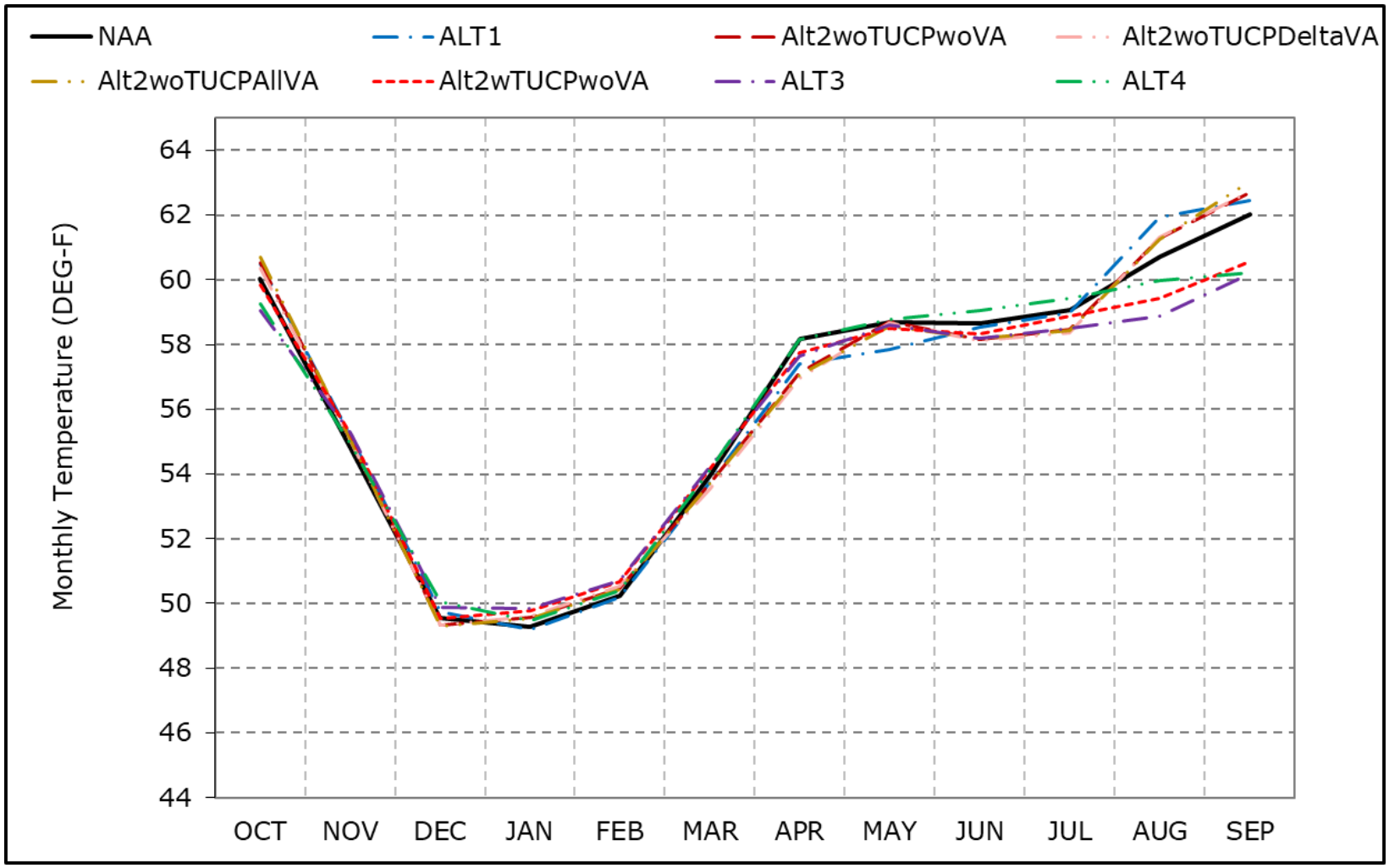
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-4. Sacramento River at Bend Bridge, Below Normal Year Average Temperature



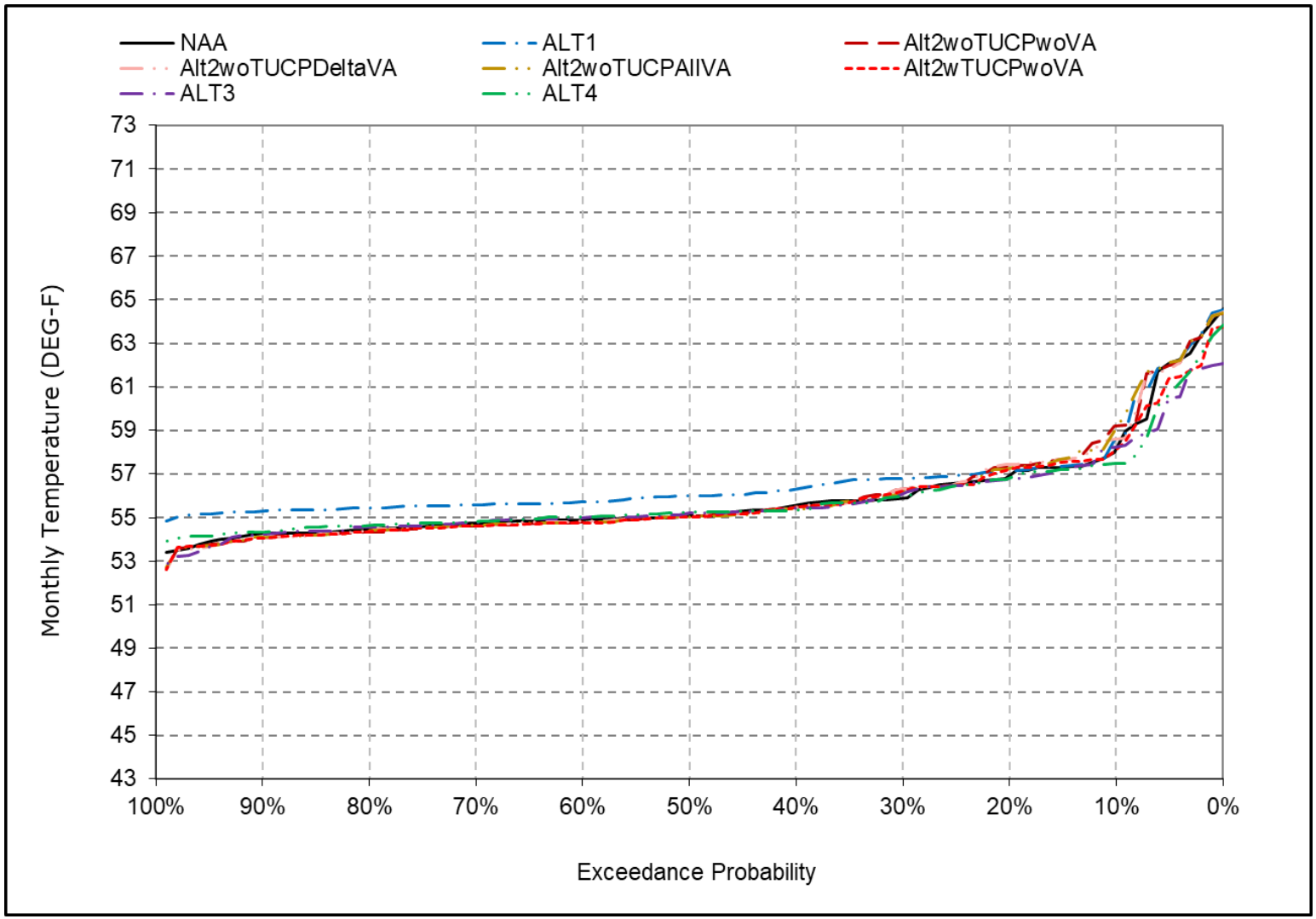
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-5. Sacramento River at Bend Bridge, Dry Year Average Temperature



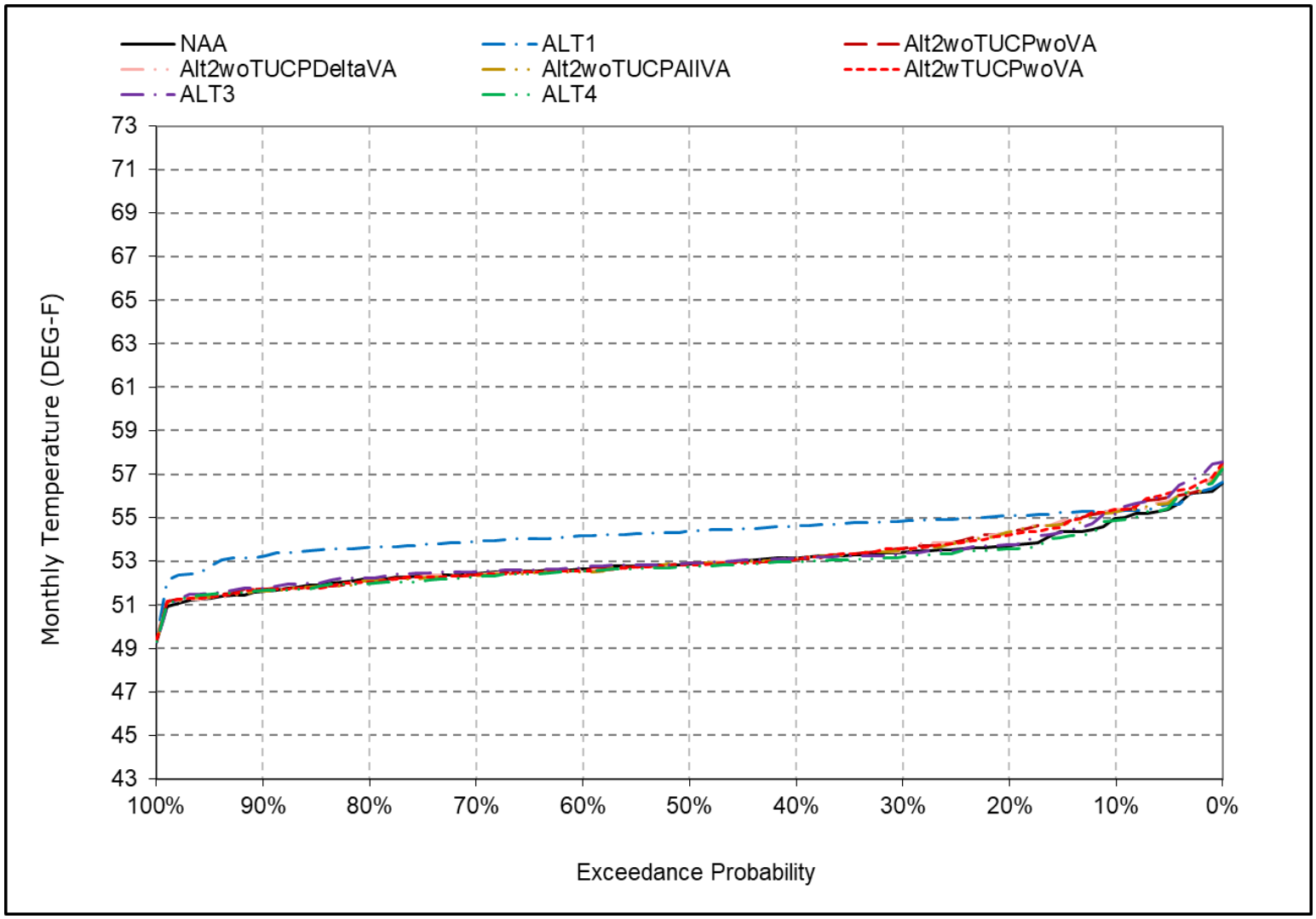
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-6. Sacramento River at Bend Bridge, Critical Year Average Temperature



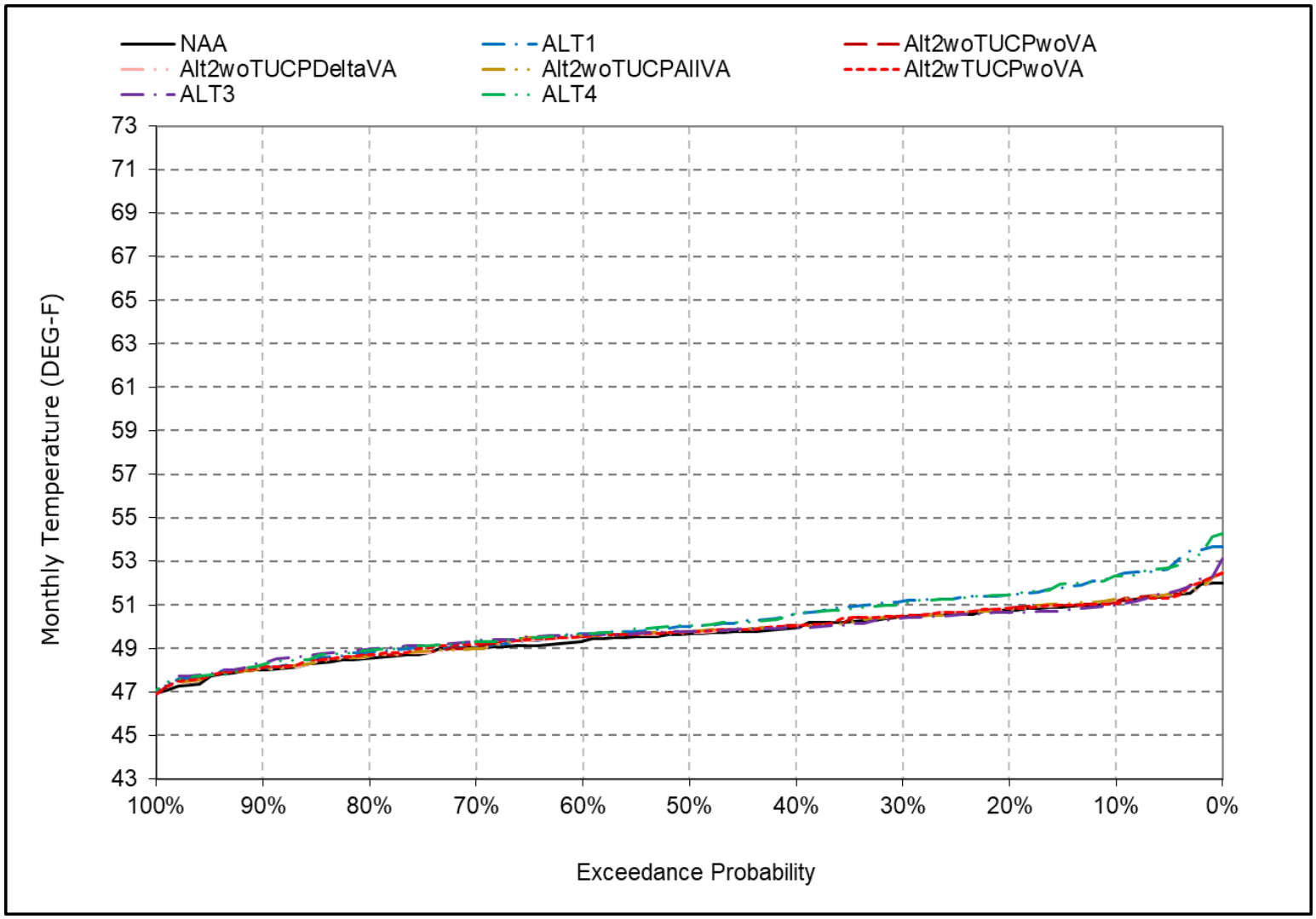
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-7. Sacramento River at Bend Bridge, October



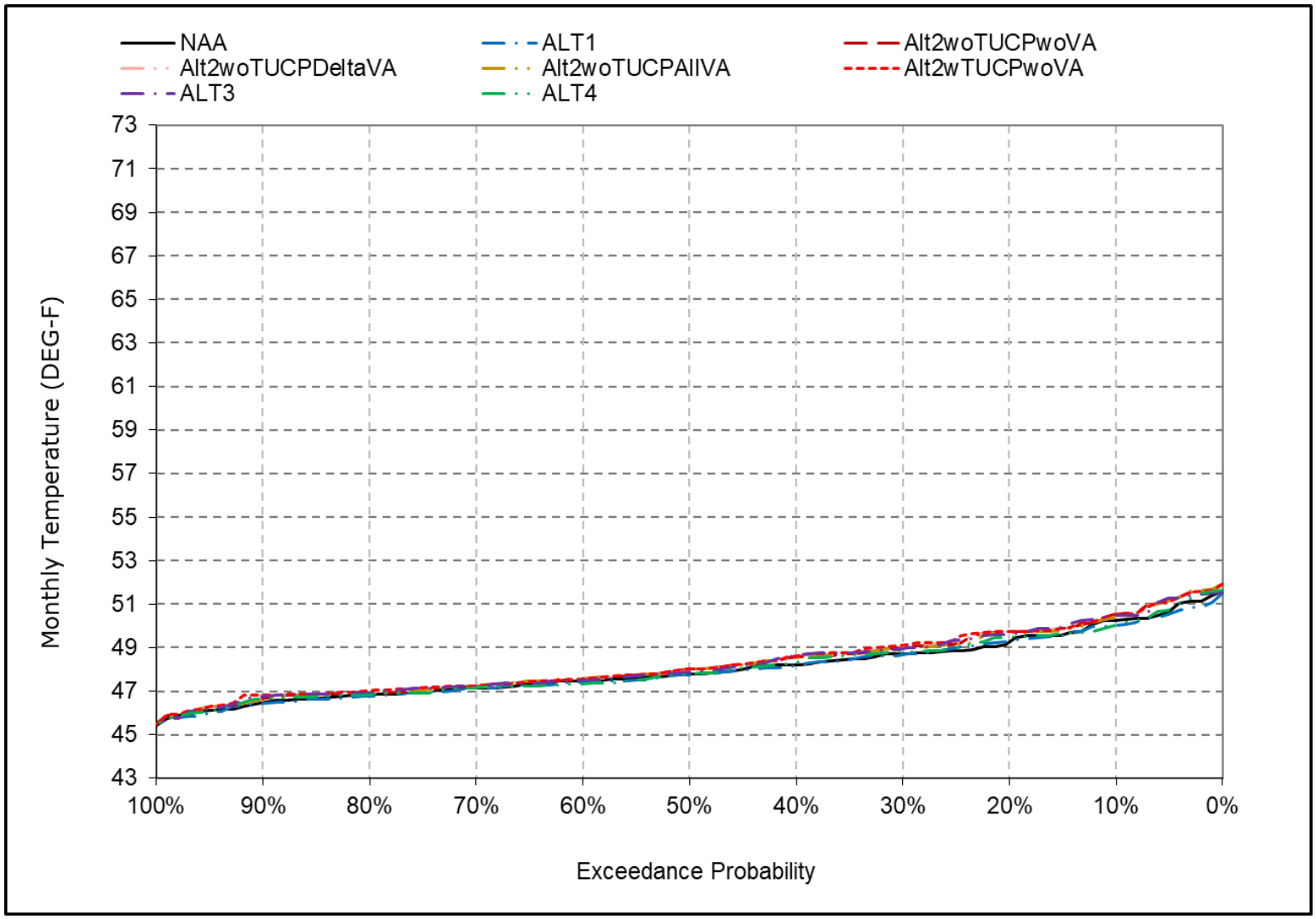
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-8. Sacramento River at Bend Bridge, November



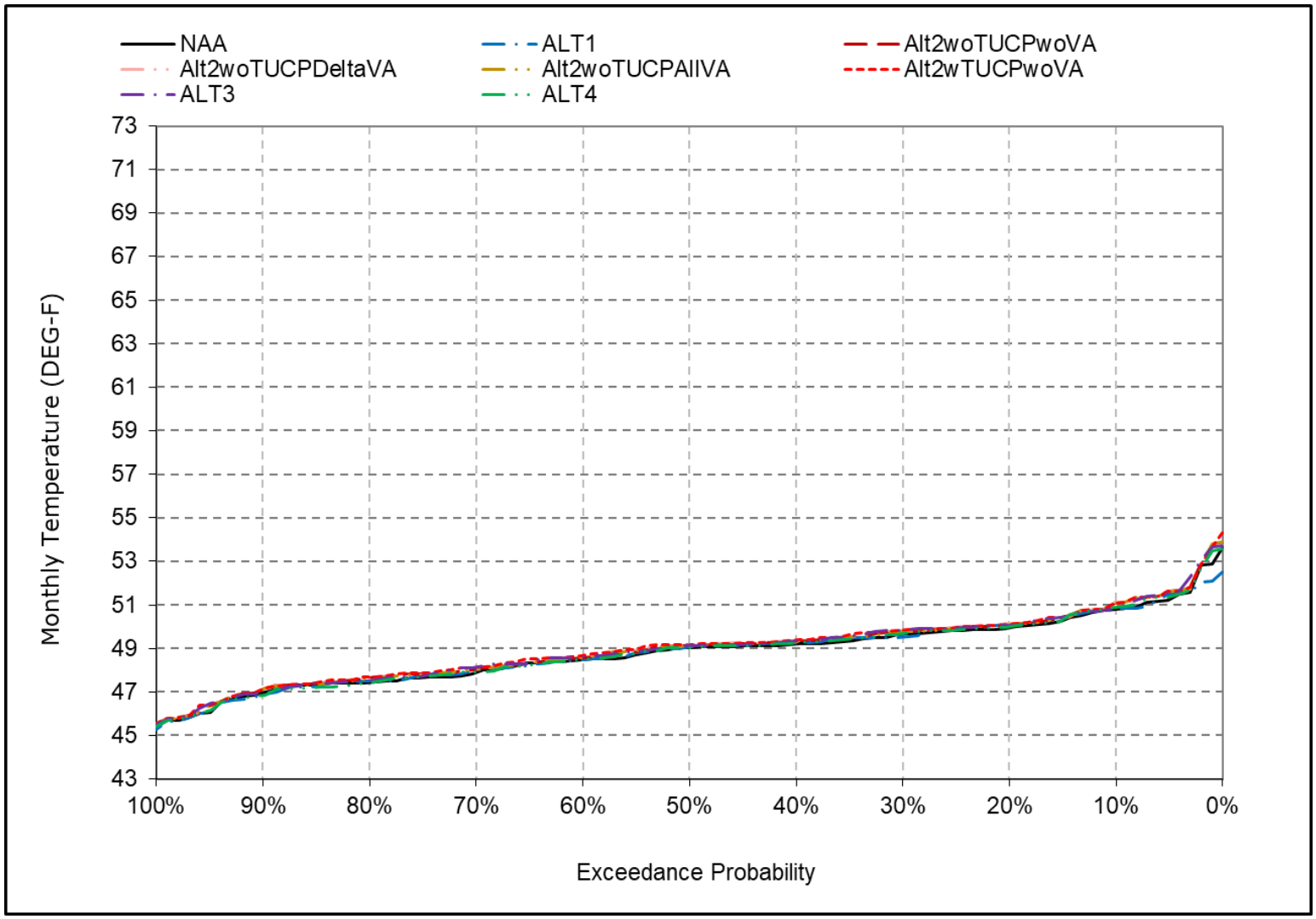
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-9. Sacramento River at Bend Bridge, December



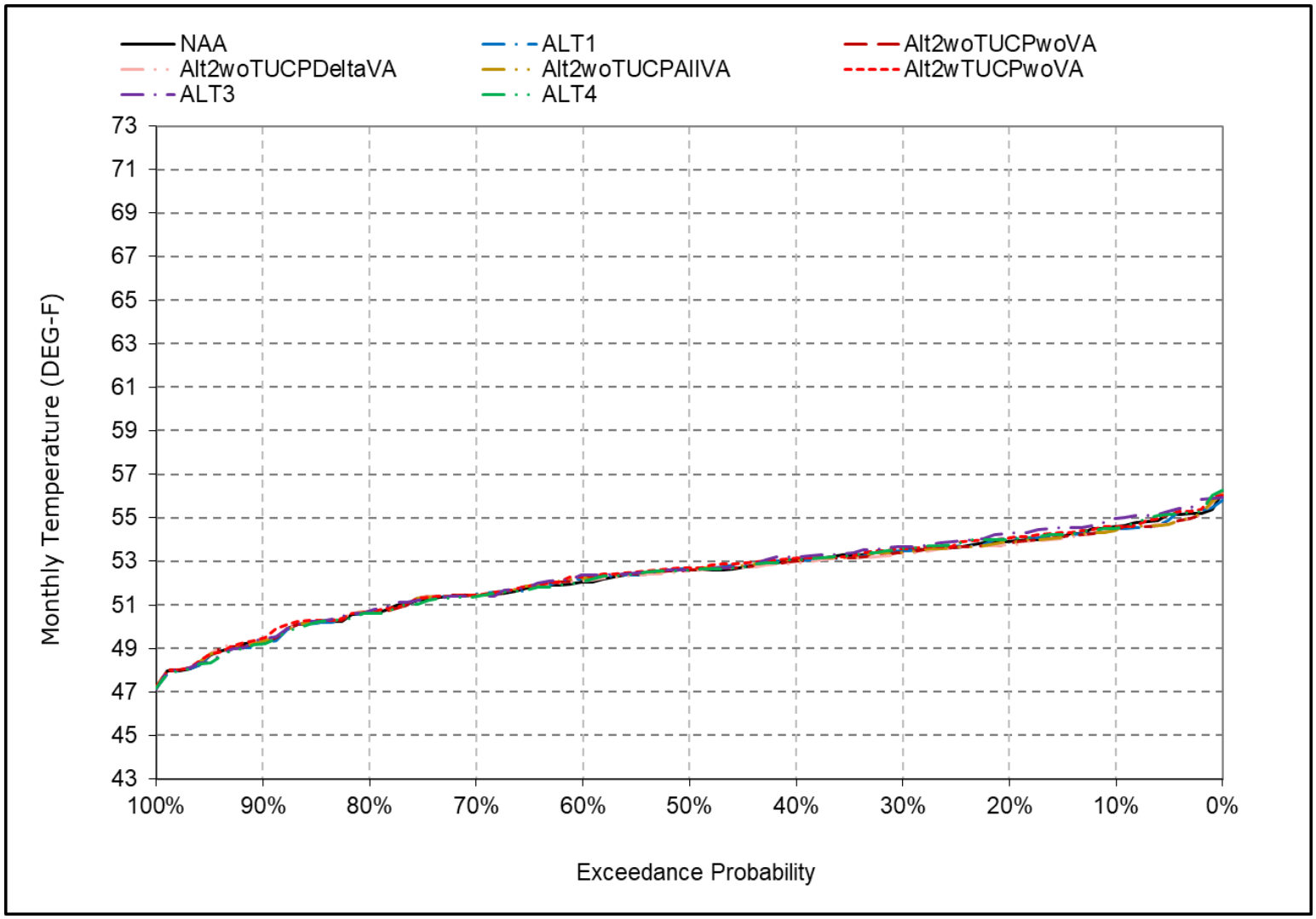
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-10. Sacramento River at Bend Bridge, January



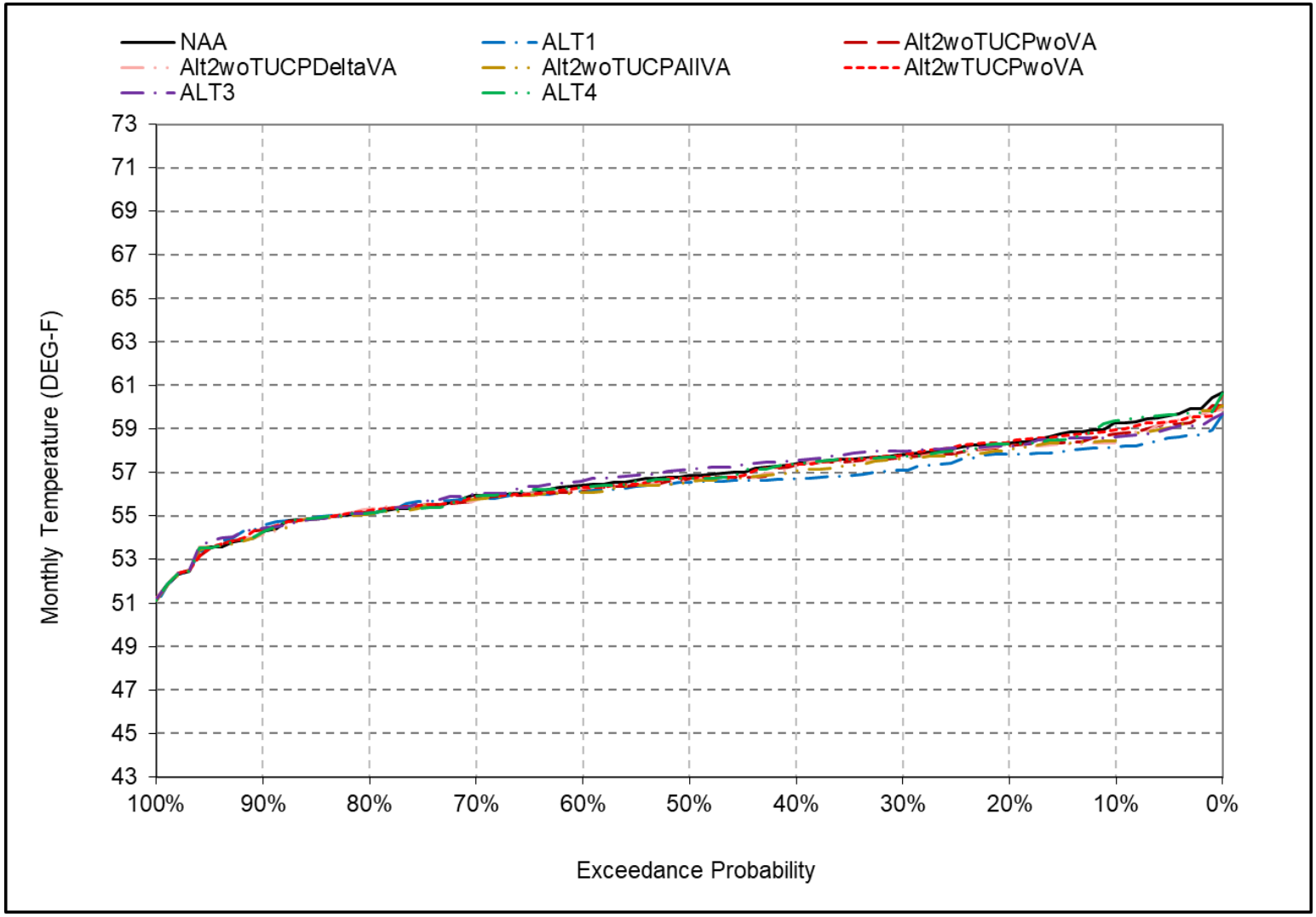
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-11. Sacramento River at Bend Bridge, February



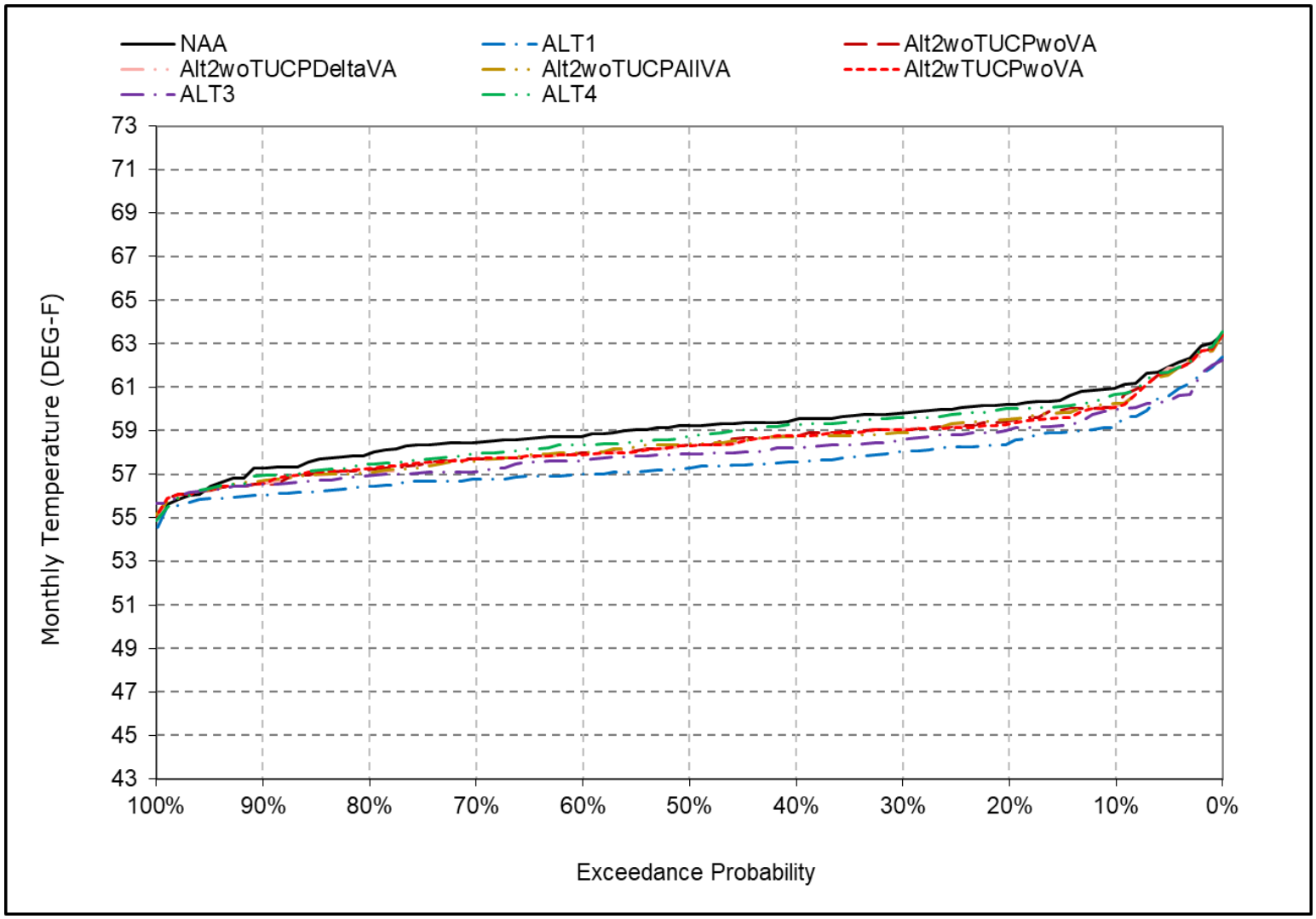
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-12. Sacramento River at Bend Bridge, March



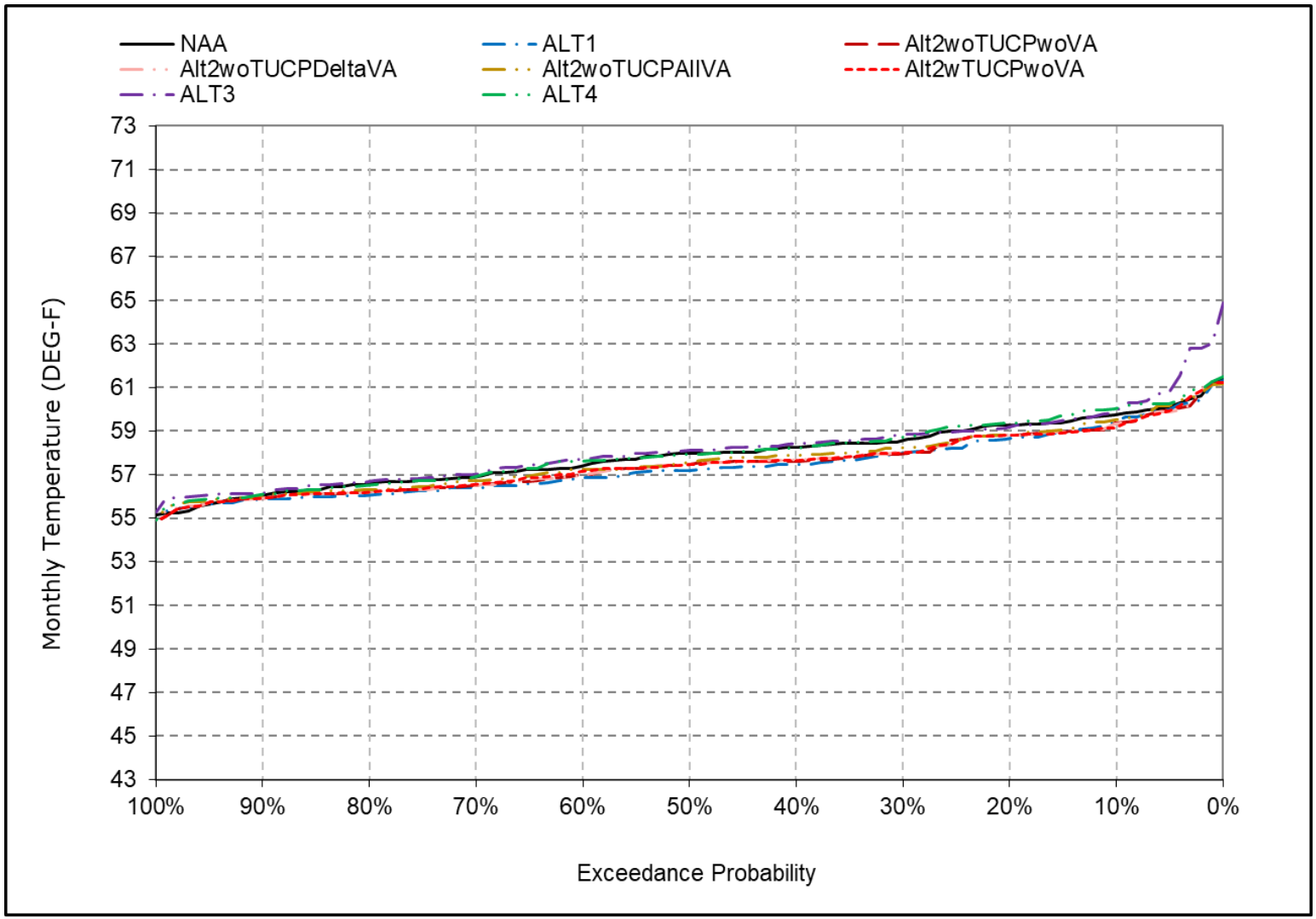
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-13. Sacramento River at Bend Bridge, April



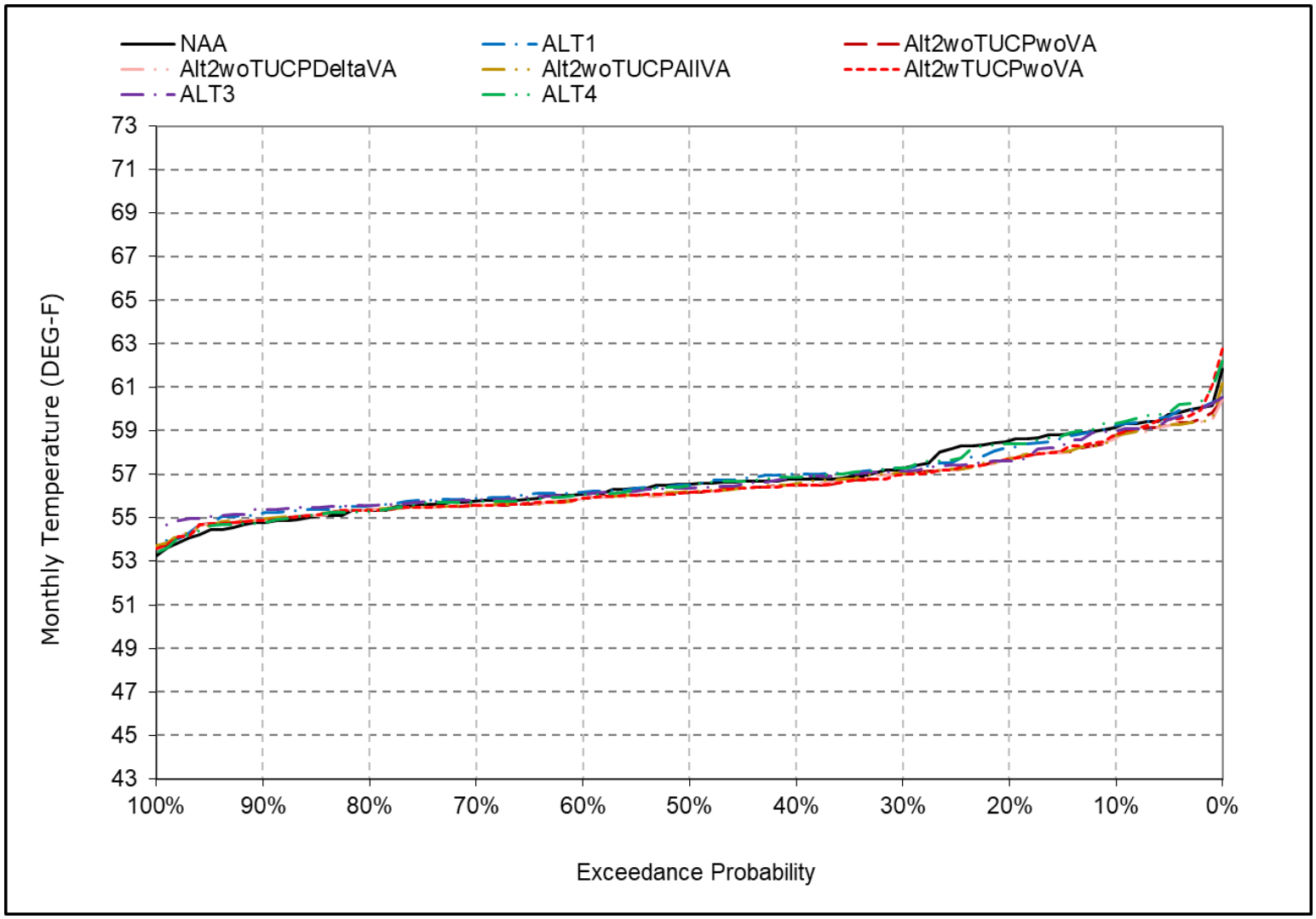
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-14. Sacramento River at Bend Bridge, May



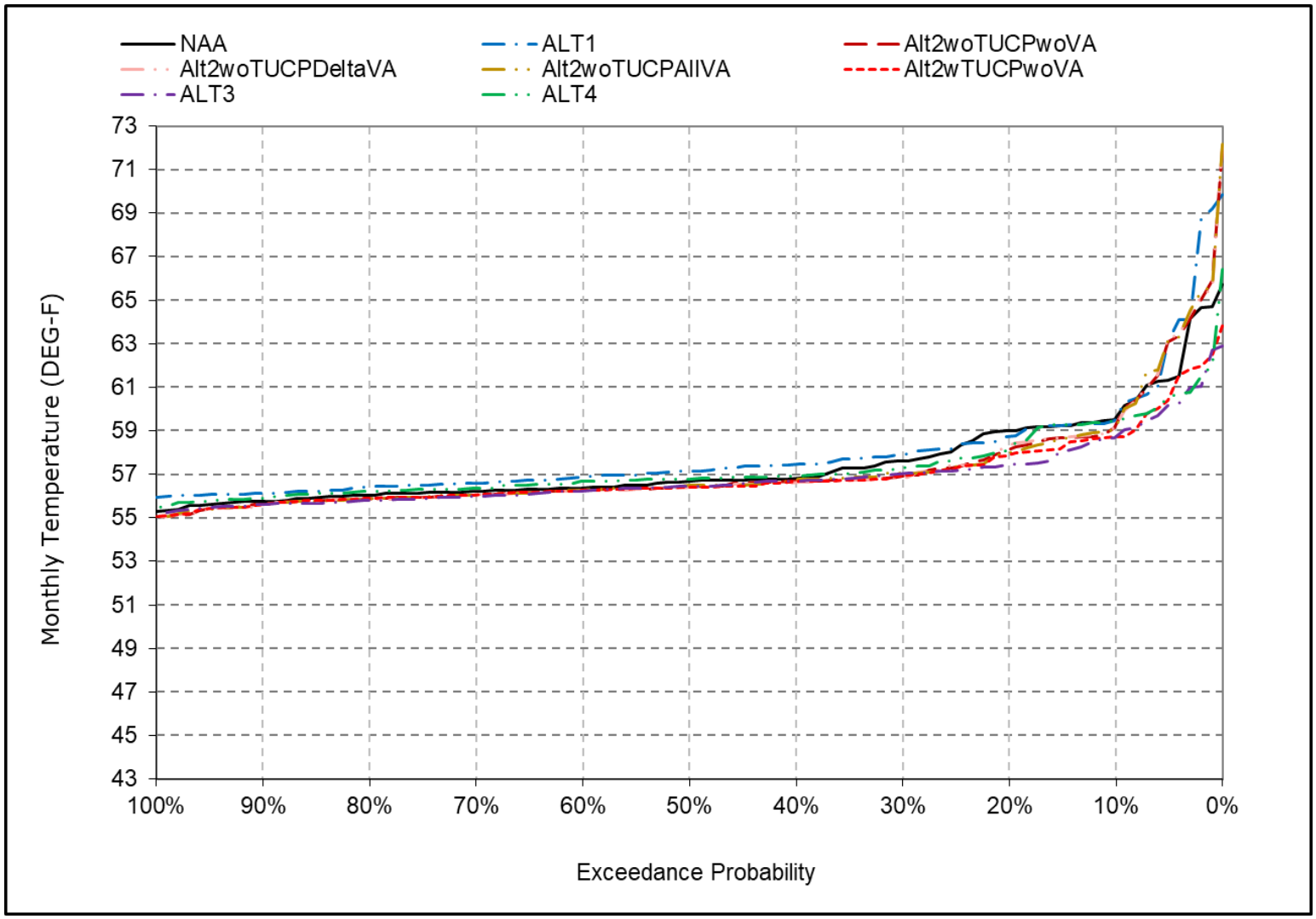
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-15. Sacramento River at Bend Bridge, June



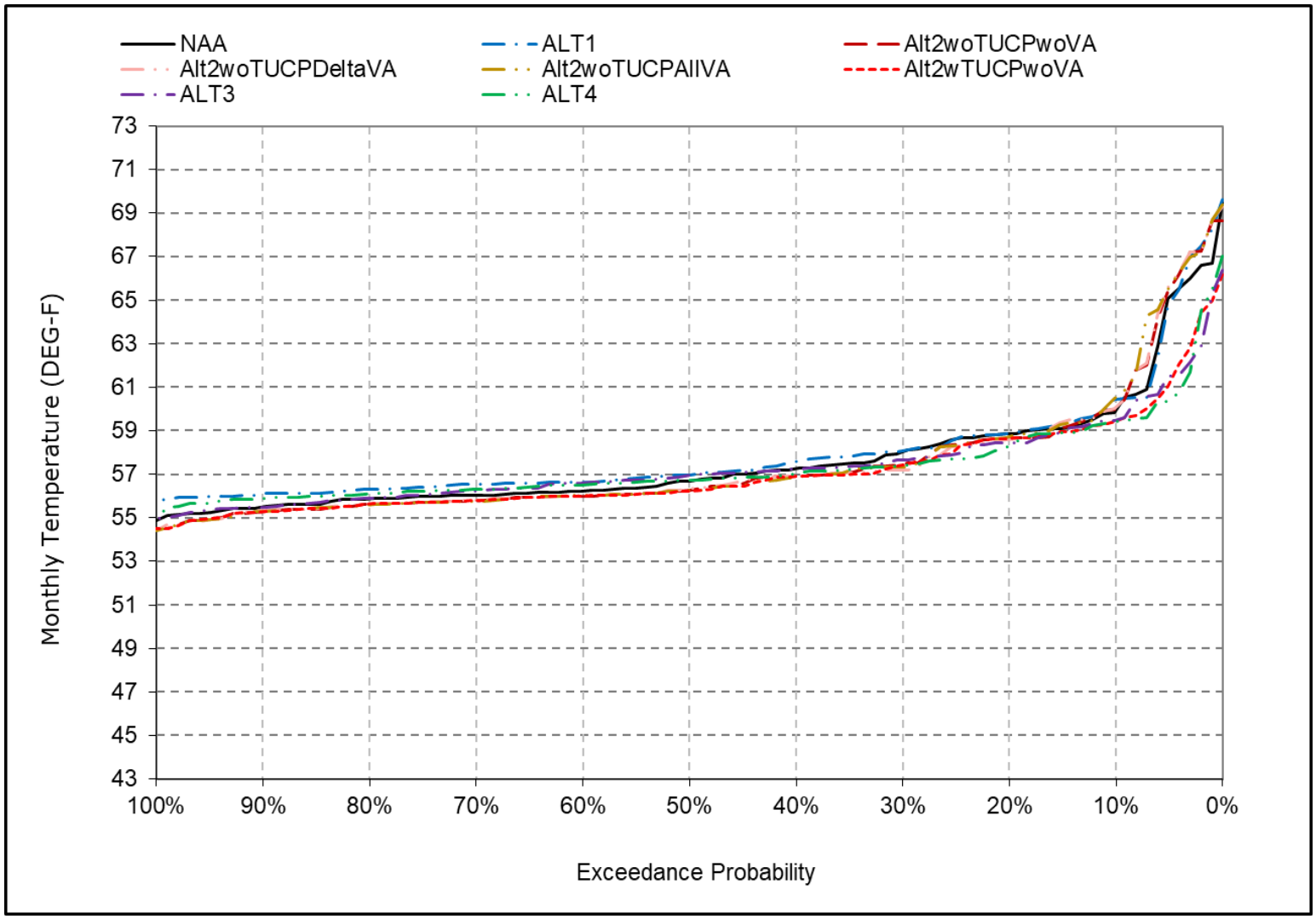
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-16. Sacramento River at Bend Bridge, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-17. Sacramento River at Bend Bridge, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-9-18. Sacramento River at Bend Bridge, September

Table F.2.11-10-1a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-1b. Sacramento River at Red Bluff, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	56	52	50	51	55	59	61	61	61	62	62
20% Exceedance	58	55	51	49	51	55	59	60	60	60	61	61
30% Exceedance	58	55	51	49	50	54	58	59	60	59	60	60
40% Exceedance	57.1	54.7	50.5	48.4	49.7	53.7	57.8	58.9	59.3	58.6	59.2	59.2
50% Exceedance	56.7	54.5	50.0	48.0	49.4	53.2	57.4	58.5	59.1	58.1	58.8	58.6
60% Exceedance	56.5	54.4	49.7	47.5	48.8	52.7	57.1	58.3	58.5	57.7	58.5	58.2
70% Exceedance	56.3	54.2	49.2	47.2	48.3	52.0	56.7	58.1	58.0	57.3	58.3	58.0
80% Exceedance	56.1	53.8	48.8	46.9	47.7	51.0	55.9	57.6	57.6	57.0	58.1	57.7
90% Exceedance	55.8	53.4	48.2	46.5	47.0	49.6	55.2	57.0	57.2	56.6	57.8	57.4
Full Simulation Period Average[a]	57	54	50	48	49	53	57	59	59	58	60	59
Wet Water Years (28%)	56	54	50	47	48	51	56	59	59	58	59	58
Above Normal Years (14%)	56	54	50	48	48	52	57	58	58	57	58	58
Below Normal Years (18%)	57	54	50	48	50	54	57	58	59	58	59	59
Dry Years (24%)	57	55	50	49	50	54	58	59	59	58	59	60
Critical (16%)	61	55	50	49	51	55	59	59	60	61	64	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-1c. Sacramento River at Red Bluff, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.1	1.2	-0.2	0.0	-0.2	-1.0	-1.6	-0.4	-0.1	0.1	0.0
20% Exceedance	0	1	1	0	0	0	-1	-2	-1	-1	0	0
30% Exceedance	0.7	1.3	0.6	0.0	0.0	0.0	-0.7	-1.7	-0.7	0.0	0.2	0.1
40% Exceedance	1	1	0	0	0	0	-1	-2	-1	0	1	0
50% Exceedance	1	1	0	0	0	0	0	-2	-1	0	0	0
60% Exceedance	1	2	0	0	0	0	0	-2	-1	0	0	0
70% Exceedance	1	2	0	0	0	0	0	-1	0	0	0	1
80% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	0
90% Exceedance	0.9	1.5	0.0	0.0	-0.1	-0.1	0.5	-1.1	-0.5	0.5	0.7	0.7
Full Simulation Period Average[a]	0.7	1.2	0.5	0.0	0.0	0.0	-0.3	-1.5	-0.5	0.1	0.5	0.4
Wet Water Years (28%)	0.9	1.6	0.6	-0.1	0.0	0.0	0.0	-1.6	-0.8	0.0	0.3	0.6
Above Normal Years (14%)	0.8	1.4	0.9	0.1	0.1	0.0	0.0	-2.2	-1.1	0.1	0.5	0.9
Below Normal Years (18%)	0.7	1.3	0.3	0.0	0.0	0.0	-0.5	-1.4	-0.5	0.4	0.7	-0.2
Dry Years (24%)	0.5	1.1	0.4	-0.1	0.0	0.1	-0.5	-1.4	-0.2	0.1	0.3	0.2
Critical (16%)	0	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-2a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-2b. Sacramento River at Red Bluff, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	55	51	51	51	55	60	62	61	61	62	62
20% Exceedance	58	55	51	50	50	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	60	60	59	59	59
40% Exceedance	56.4	53.3	50.0	48.8	49.7	53.7	58.2	60.1	59.7	58.3	58.5	58.8
50% Exceedance	55.9	53.1	49.8	48.2	49.5	53.2	57.6	59.7	59.3	57.8	58.1	58.0
60% Exceedance	55.5	52.9	49.5	47.7	48.9	52.7	57.1	59.2	58.9	57.4	57.9	57.5
70% Exceedance	55.4	52.6	49.1	47.4	48.3	51.9	56.6	58.9	58.1	57.0	57.7	57.2
80% Exceedance	55.0	52.4	48.7	47.1	47.8	51.0	55.9	58.4	57.9	56.8	57.5	56.9
90% Exceedance	54.7	52.0	48.2	46.7	47.4	49.7	55.1	57.5	57.5	56.2	57.1	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	57	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	58	60	59	57	57	57
Below Normal Years (18%)	57	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	55	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-2c. Sacramento River at Red Bluff, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.7	0.1	0.2	0.2	0.3	-0.2	-0.7	-0.6	-0.4	-0.4	0.1	0.3
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.2	0.0	0.3	0.1	0.0	-0.3	-0.7	-0.6	-0.4	-0.6	-0.4
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.2	0.3	0.0	0.4	-0.6	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.2	-0.6	-0.4	-0.2	-0.1	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.1	0.0	0.1	-0.8	-0.4	-0.2	-0.2	-0.3
Below Normal Years (18%)	0.2	0.2	0.1	0.1	0.1	0.0	0.0	-0.8	-0.4	0.1	-0.1	-0.5
Dry Years (24%)	0.0	0.2	0.1	0.3	0.1	0.1	0.0	-0.6	-0.3	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-3a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-3b. Sacramento River at Red Bluff, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	52	55	60	62	61	61	62	62
20% Exceedance	58	55	51	50	51	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	60	60	59	59	59
40% Exceedance	56.3	53.4	50.0	48.8	49.7	53.6	58.1	60.0	59.7	58.3	58.4	58.7
50% Exceedance	55.9	53.1	49.8	48.1	49.5	53.1	57.6	59.6	59.3	57.8	58.1	58.1
60% Exceedance	55.5	52.8	49.6	47.6	48.9	52.7	57.1	59.1	58.8	57.3	57.9	57.5
70% Exceedance	55.4	52.6	49.1	47.3	48.3	51.9	56.6	58.9	58.1	57.0	57.7	57.2
80% Exceedance	55.1	52.4	48.7	47.1	47.8	51.0	55.9	58.3	57.9	56.8	57.4	56.9
90% Exceedance	54.7	52.0	48.1	46.8	47.4	49.8	54.7	57.6	57.5	56.2	57.0	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	57	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	58	60	59	57	57	57
Below Normal Years (18%)	57	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	54	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-3c. Sacramento River at Red Bluff, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.1	0.2	0.3	-0.3	-0.9	-0.6	-0.4	-0.4	0.1	0.3
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.0	0.0	0.3	0.1	-0.1	-0.2	-0.7	-0.5	-0.4	-0.7	-0.7
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.3	0.3	0.1	0.0	-0.5	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.2	0.0	-0.2	-0.6	-0.3	-0.2	-0.1	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.2	0.0	0.1	-0.8	-0.3	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.2	0.2	0.0	0.1	0.2	0.0	0.0	-0.8	-0.4	0.1	-0.2	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.1	0.1	-0.7	-0.2	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-4a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-4b. Sacramento River at Red Bluff, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	55	51	51	51	55	60	62	62	61	61	63
20% Exceedance	58	55	51	50	50	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	58	60	60	59	59	59
40% Exceedance	56.2	53.4	50.0	48.8	49.7	53.8	57.9	60.0	59.9	58.3	58.5	58.6
50% Exceedance	55.9	53.1	49.8	48.2	49.4	53.2	57.5	59.7	59.5	57.9	58.1	58.0
60% Exceedance	55.5	52.8	49.5	47.7	48.9	52.8	56.9	59.3	59.0	57.3	57.9	57.5
70% Exceedance	55.3	52.5	49.1	47.3	48.3	51.9	56.6	58.9	58.4	57.1	57.8	57.2
80% Exceedance	55.1	52.4	48.7	47.0	47.8	51.0	55.7	58.2	58.0	56.8	57.4	56.9
90% Exceedance	54.7	52.0	48.2	46.7	47.3	49.7	54.8	57.7	57.6	56.3	57.1	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	57	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	57	60	60	57	58	57
Below Normal Years (18%)	56	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	55	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-4c. Sacramento River at Red Bluff, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.7	0.0	0.1	0.1	0.2	-0.2	-0.7	-0.7	-0.2	-0.4	0.0	0.9
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.1	-0.1	0.3	0.1	0.0	-0.4	-0.7	-0.2	-0.3	-0.5	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.2	0.2	0.1	0.1	-0.4	-0.1	0.2	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.3	-0.6	-0.2	-0.2	-0.1	-0.1
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.3	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.8	0.0	-0.1	-0.1	-0.3
Below Normal Years (18%)	0.1	0.2	0.0	0.1	0.1	0.0	-0.3	-0.8	-0.1	0.2	-0.1	-0.6
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.1	0.1	-0.5	0.0	-0.3	-0.5	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-5a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-5b. Sacramento River at Red Bluff, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	51	55	60	62	61	61	61	61
20% Exceedance	58	54	51	50	51	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	60	60	59	59	59
40% Exceedance	56.4	53.3	50.0	48.8	49.7	53.8	58.3	60.1	59.7	58.3	58.4	58.7
50% Exceedance	55.9	53.1	49.8	48.2	49.5	53.3	57.6	59.6	59.3	57.8	58.1	57.9
60% Exceedance	55.5	52.8	49.6	47.7	49.0	52.7	57.2	59.1	59.0	57.4	57.9	57.5
70% Exceedance	55.4	52.6	49.2	47.4	48.3	51.9	56.6	58.9	58.2	57.0	57.7	57.2
80% Exceedance	55.0	52.4	48.7	47.1	47.8	51.1	55.9	58.5	57.9	56.8	57.5	56.9
90% Exceedance	54.7	52.0	48.2	46.9	47.4	49.8	55.1	57.6	57.5	56.2	57.0	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	58	60	59	57	57	57
Below Normal Years (18%)	56	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	60	55	50	50	51	55	59	60	60	61	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-5c. Sacramento River at Red Bluff, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.0	0.2	0.3	0.0	-0.1	-0.8	-0.4	-0.2	-0.4	-0.5
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.2	0.0	0.4	0.1	0.1	0.0	-0.7	-0.5	-0.5	-0.6	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.4	0.3	0.1	0.4	-0.6	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.2	0.2	0.1	0.0	-0.6	-0.3	-0.2	-0.4	-0.5
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.2	0.1	0.0	-0.7	-0.4	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.0	0.1	0.0	0.2	0.2	0.1	0.0	-0.8	-0.5	0.0	-0.3	-0.7
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.1	0.0	-0.6	-0.3	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	0	0	0	0	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-6a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-6b. Sacramento River at Red Bluff, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	51	56	60	61	62	61	61	61
20% Exceedance	58	54	51	50	51	55	60	61	61	60	59	60
30% Exceedance	57	54	50	49	50	54	59	60	61	59	59	59
40% Exceedance	56.3	53.4	50.0	48.8	49.7	53.9	58.6	59.4	60.4	58.5	58.4	59.0
50% Exceedance	56.0	53.2	49.8	48.0	49.4	53.2	58.1	59.1	60.1	58.1	58.1	58.5
60% Exceedance	55.8	53.0	49.6	47.6	48.9	52.8	57.7	58.8	59.6	57.6	57.8	58.2
70% Exceedance	55.5	52.9	49.3	47.4	48.4	51.8	56.6	58.5	58.8	57.3	57.4	57.8
80% Exceedance	55.2	52.5	49.0	47.1	47.8	51.1	55.8	57.9	58.3	57.0	57.1	57.3
90% Exceedance	54.8	52.1	48.4	46.7	47.2	49.8	55.0	57.6	57.8	56.8	57.0	56.7
Full Simulation Period Average[a]	57	53	50	48	49	53	58	59	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	59	61	58	59	58
Above Normal Years (14%)	56	53	49	48	48	52	57	59	61	58	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	59	60	58	58	59
Dry Years (24%)	57	54	50	49	50	54	59	59	59	58	58	59
Critical (16%)	60	55	50	50	51	55	59	60	60	61	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-6c. Sacramento River at Red Bluff, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.2	0.0	-0.1	0.2	0.1	0.4	-0.5	-1.0	0.4	0.2	-0.5	-0.4
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-2	0
30% Exceedance	0.2	0.0	-0.1	0.2	0.2	0.2	0.2	-1.2	0.5	-0.1	-0.6	-0.2
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	1
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.2	0.2	0.2	0.1	0.1	0.3	-0.6	0.0	0.7	-0.2	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.1	0.2	0.1	0.1	0.1	-1.0	0.4	0.1	-0.6	-0.2
Wet Water Years (28%)	0.0	0.1	0.1	0.1	0.1	-0.1	-0.1	-1.6	0.9	0.2	0.3	0.4
Above Normal Years (14%)	0.0	0.1	0.3	0.1	0.0	0.0	0.0	-1.7	1.2	0.8	0.1	0.4
Below Normal Years (18%)	-0.1	-0.1	0.0	0.1	0.2	0.1	0.3	-0.6	0.2	0.5	-0.6	-0.3
Dry Years (24%)	0.0	0.2	0.1	0.2	0.0	0.4	0.5	-1.0	0.0	-0.4	-1.3	0.0
Critical (16%)	-1	0	0	1	0	0	0	0	0	0	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-7a. Sacramento River at Red Bluff, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.4	60.4	62.3	61.8	61.0	61.5	61.7
20% Exceedance	57.9	54.0	50.6	49.4	50.4	54.7	59.5	61.4	61.2	60.5	60.8	60.6
30% Exceedance	56.9	53.7	50.4	48.9	50.0	54.1	58.9	61.1	60.5	59.2	59.4	59.6
40% Exceedance	56.4	53.5	50.0	48.4	49.6	53.9	58.4	60.7	60.2	58.5	58.6	58.9
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	59	58	58	58
70% Exceedance	55	53	49	47	48	52	57	60	58	57	58	57
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	57	61	59	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	59	58	58	59
Dry Years (24%)	56.9	53.4	49.9	48.8	49.8	53.6	58.2	60.3	58.8	58.2	59.1	59.5
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	63

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-7b. Sacramento River at Red Bluff, Alternative 4, Monthly Temperature (°F)

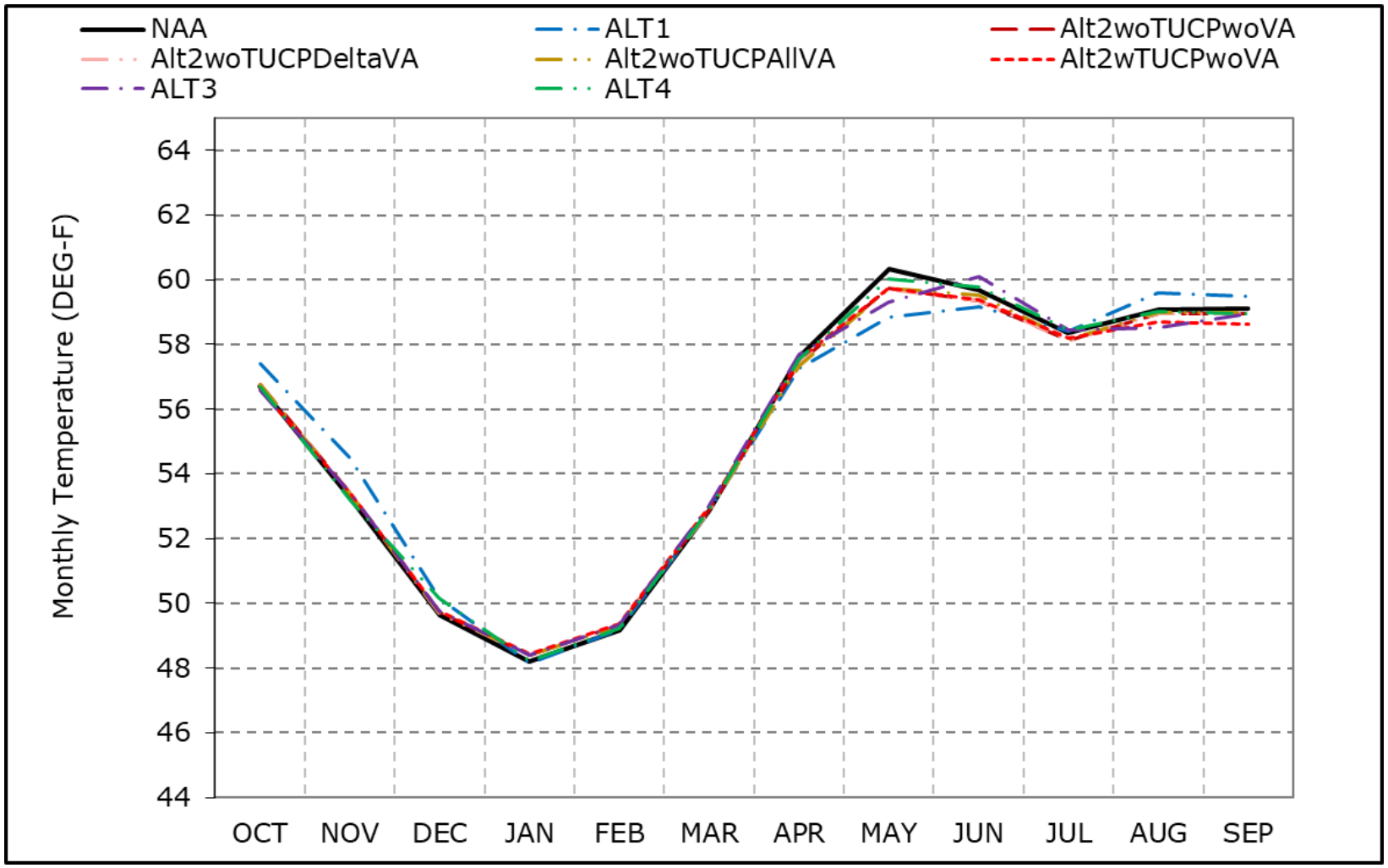
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	55	52	50	51	55	60	62	62	61	62	61
20% Exceedance	58	54	51	50	50	55	59	61	61	60	60	60
30% Exceedance	57	53	51	49	50	54	59	61	61	59	59	59
40% Exceedance	56.3	53.3	50.6	48.4	49.7	53.8	58.3	60.5	60.1	58.7	58.7	58.8
50% Exceedance	56.1	53.0	50.0	47.9	49.4	53.2	57.7	60.0	59.9	58.2	58.5	58.4
60% Exceedance	55.8	52.8	49.6	47.4	48.8	52.6	57.2	59.7	59.5	57.5	58.4	58.1
70% Exceedance	55.6	52.5	49.3	47.2	48.3	51.8	56.5	59.0	58.6	57.1	58.0	57.9
80% Exceedance	55.3	52.3	48.9	47.0	47.7	51.0	55.8	58.6	58.0	56.8	57.7	57.6
90% Exceedance	55.1	51.9	48.4	46.7	47.1	49.6	55.0	57.7	57.7	56.2	57.4	57.3
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	59	58
Above Normal Years (14%)	56	53	50	48	48	52	57	60	59	57	58	58
Below Normal Years (18%)	56	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	53	50	49	50	54	58	60	59	58	59	59
Critical (16%)	60	55	50	50	51	55	59	60	61	61	62	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-10-7c. Sacramento River at Red Bluff, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

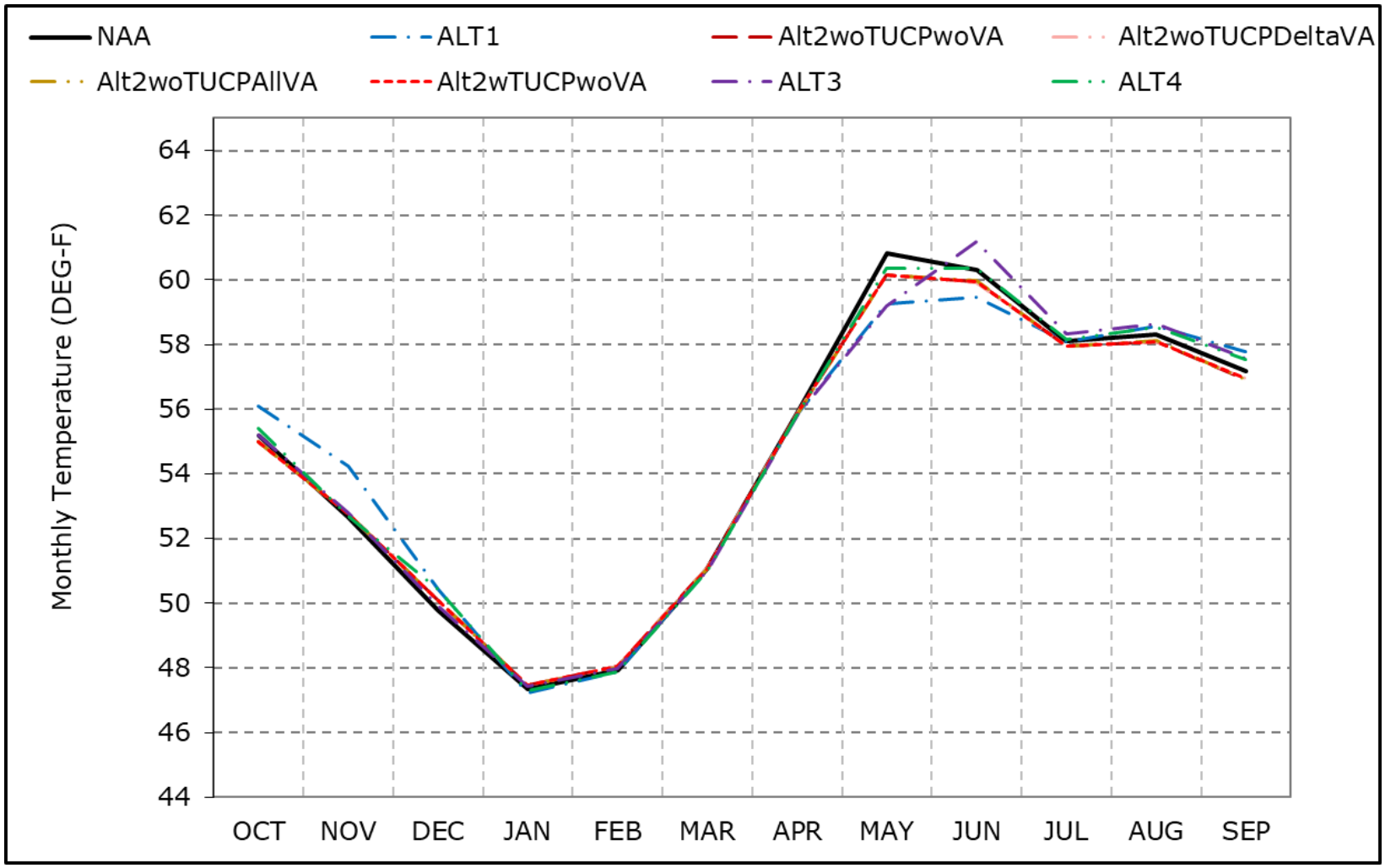
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.7	-0.4	1.2	-0.1	0.1	0.0	0.1	-0.2	0.3	0.4	0.1	-0.6
20% Exceedance	0	0	1	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.1	-0.3	0.4	0.1	0.1	0.2	-0.1	-0.2	0.2	0.0	-0.3	-0.4
40% Exceedance	0	0	1	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.0	0.2	0.2	0.0	-0.1	0.3	-0.4	0.0	0.0	0.3	0.6
Full Simulation Period Average[a]	0.0	-0.1	0.5	0.0	0.0	0.0	0.0	-0.3	0.1	0.1	-0.1	-0.2
Wet Water Years (28%)	0.2	0.0	0.6	-0.1	0.0	-0.1	0.0	-0.5	0.0	0.1	0.2	0.4
Above Normal Years (14%)	0.4	0.0	0.6	0.0	0.0	-0.1	0.0	-0.5	0.0	0.0	0.3	0.9
Below Normal Years (18%)	0.0	-0.3	0.3	0.0	0.1	0.0	-0.2	-0.5	-0.1	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.2	0.6	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	-0.3	-0.4
Critical (16%)	-1	0	0	0	0	0	0	0	0	1	0	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



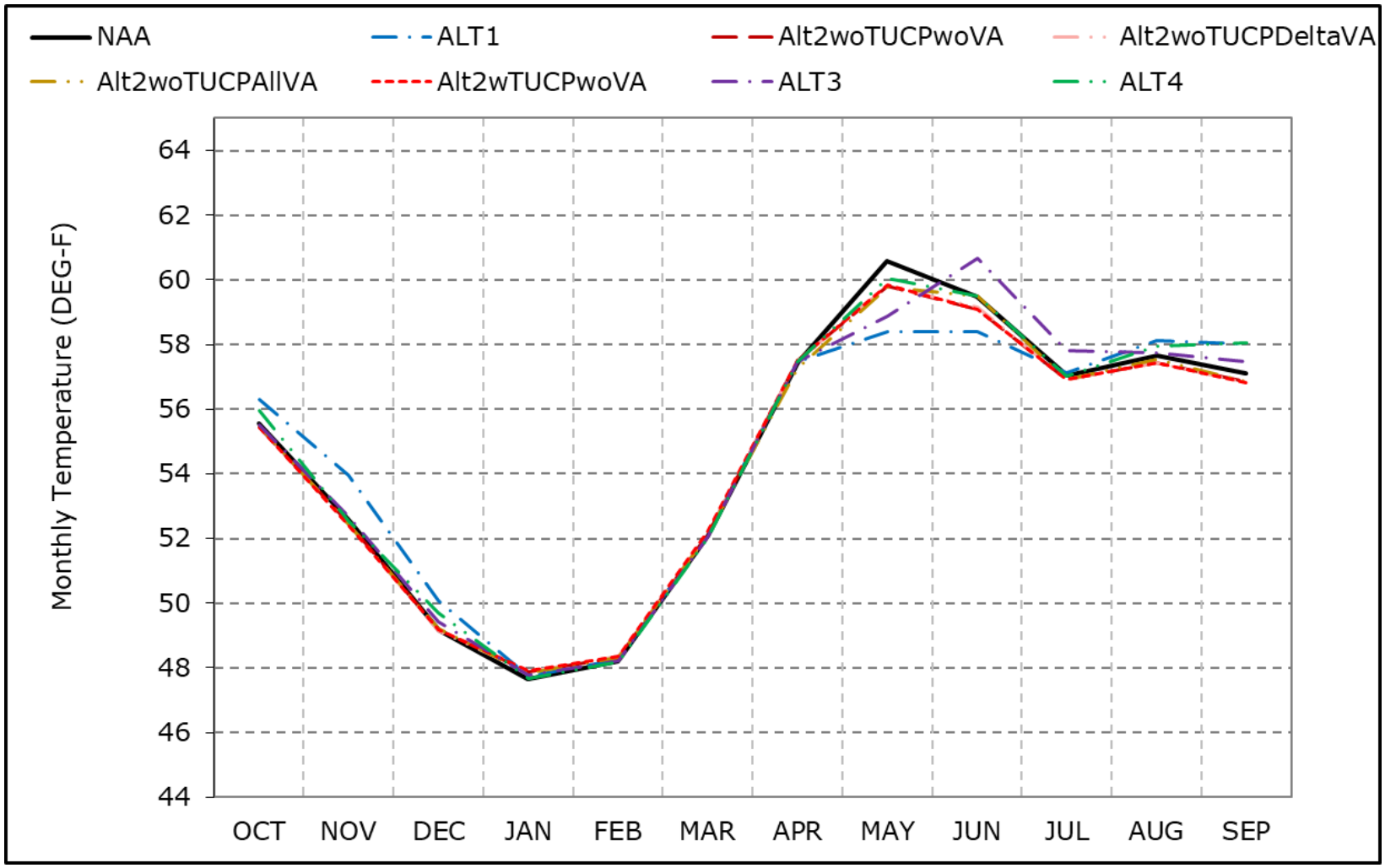
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-1. Sacramento River at Red Bluff, Long-Term Average Temperature



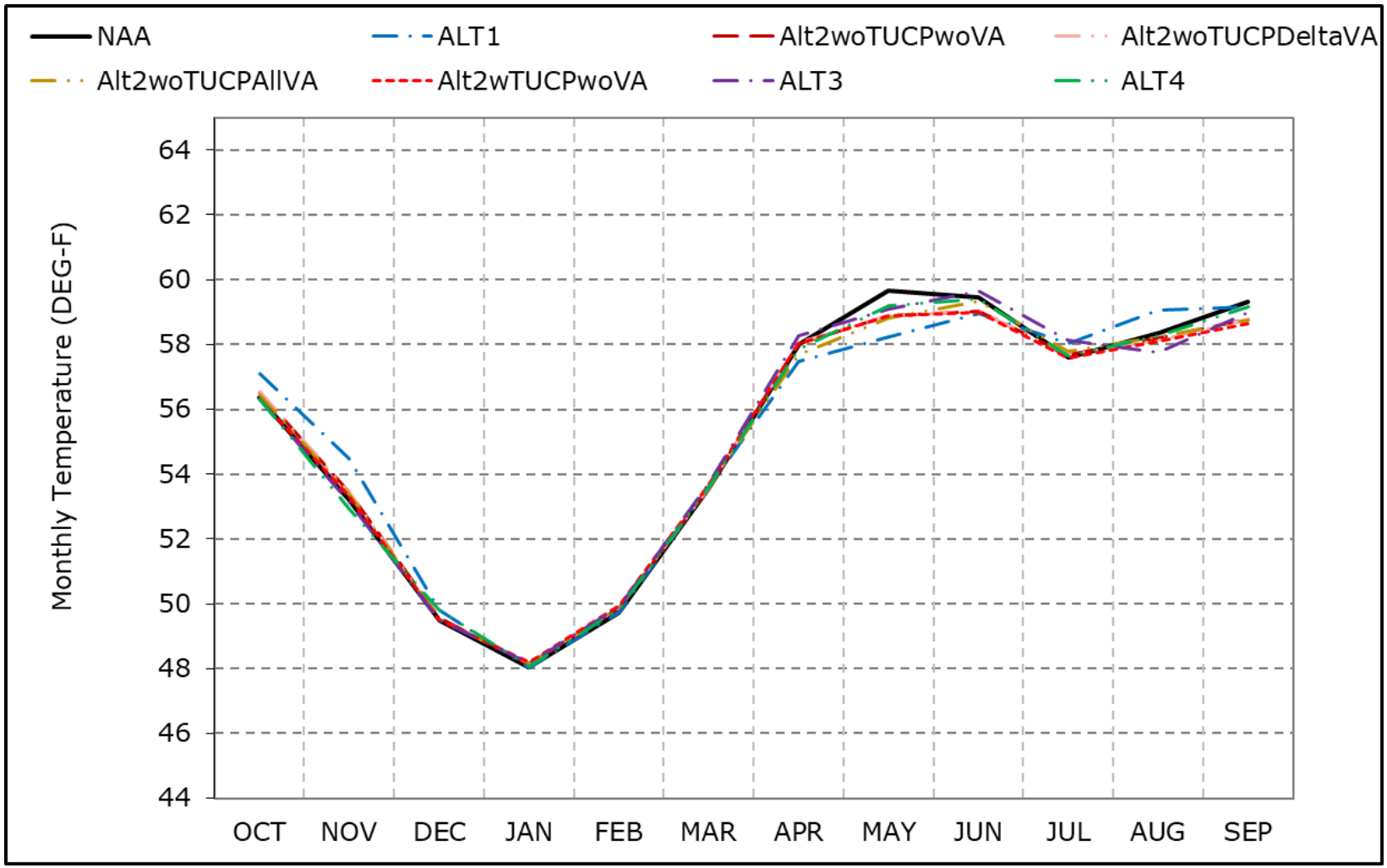
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-2. Sacramento River at Red Bluff, Wet Year Average Temperature



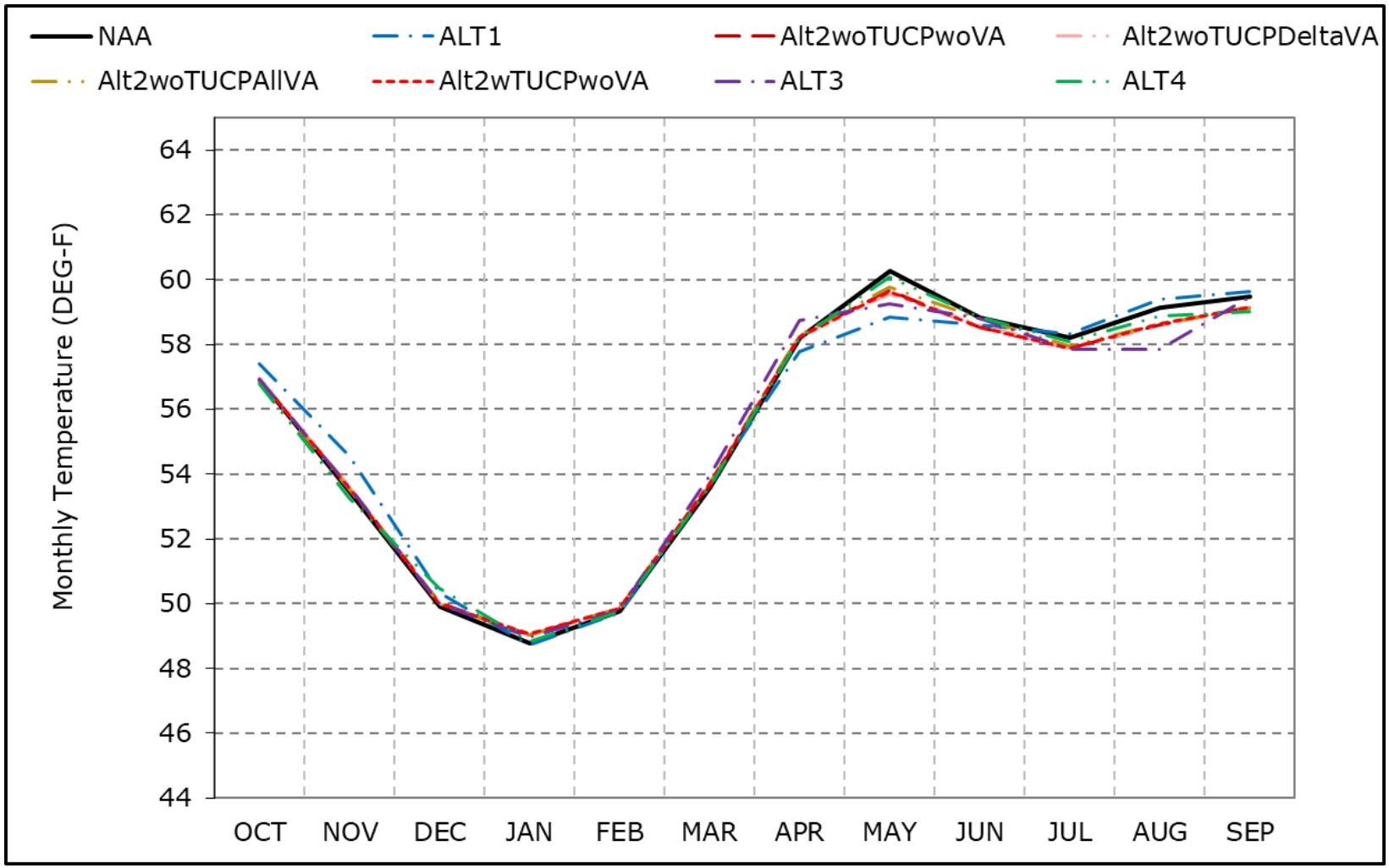
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-3. Sacramento River at Red Bluff, Above Normal Year Average Temperature



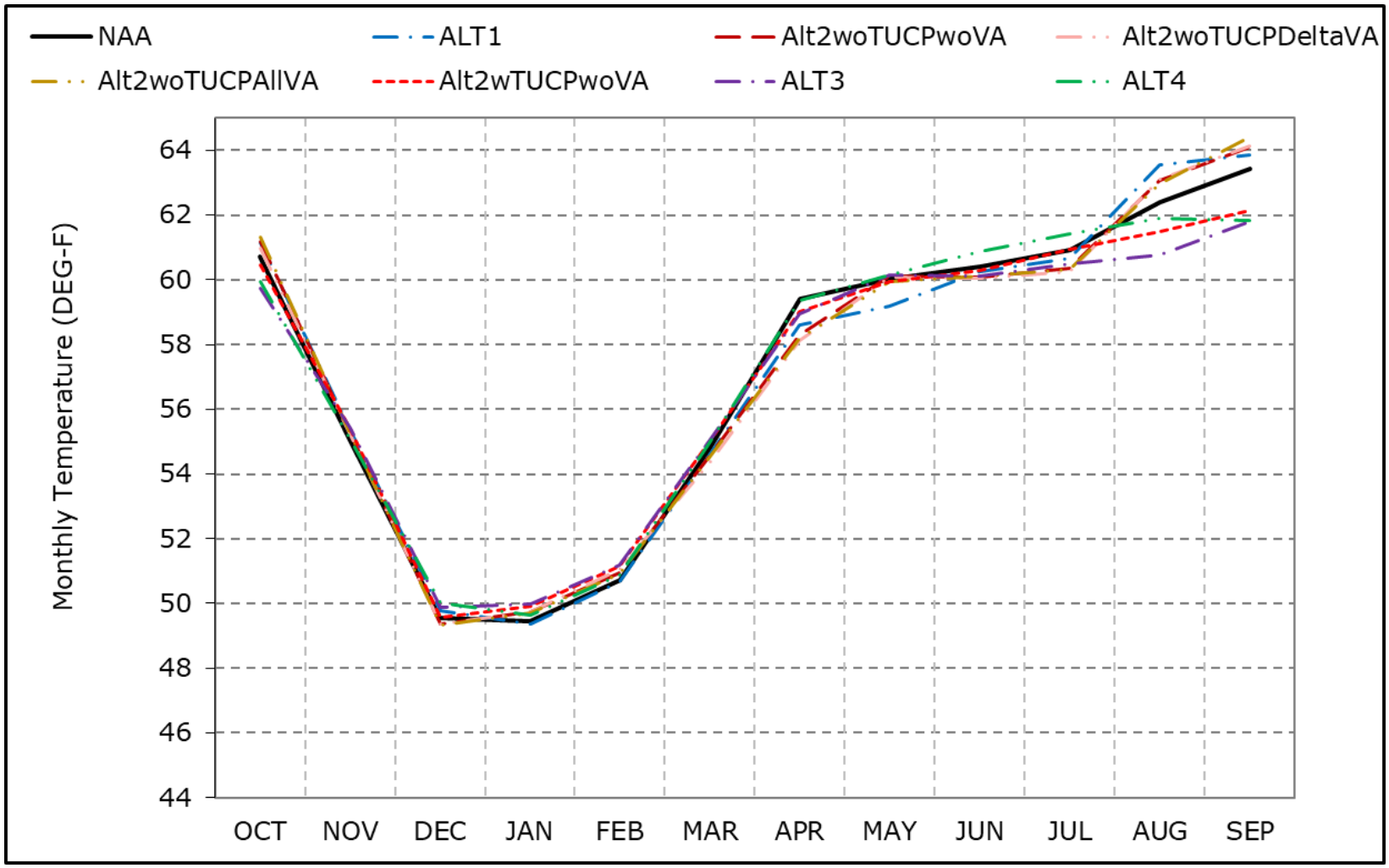
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-4. Sacramento River at Red Bluff, Below Normal Year Average Temperature



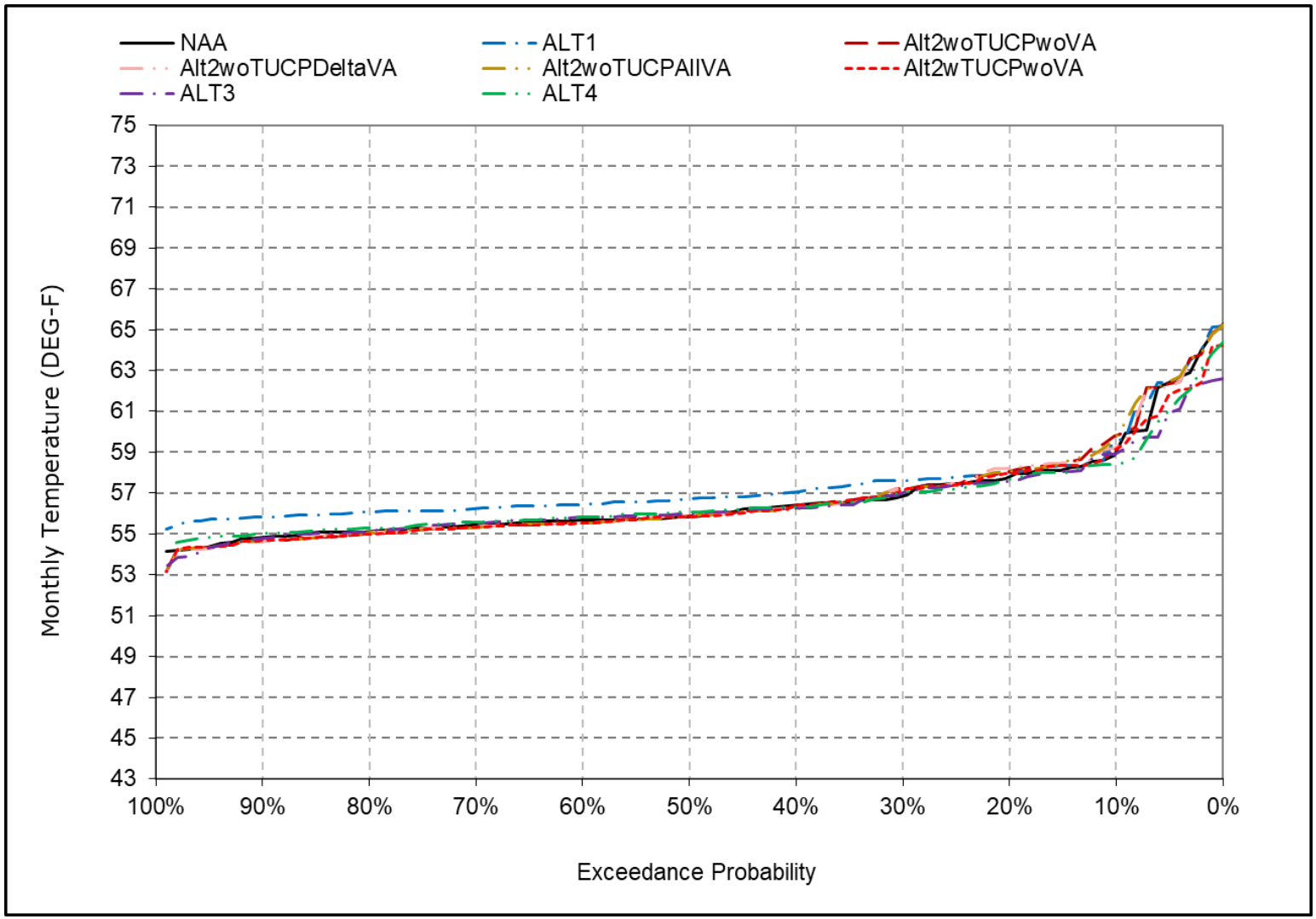
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-5. Sacramento River at Red Bluff, Dry Year Average Temperature



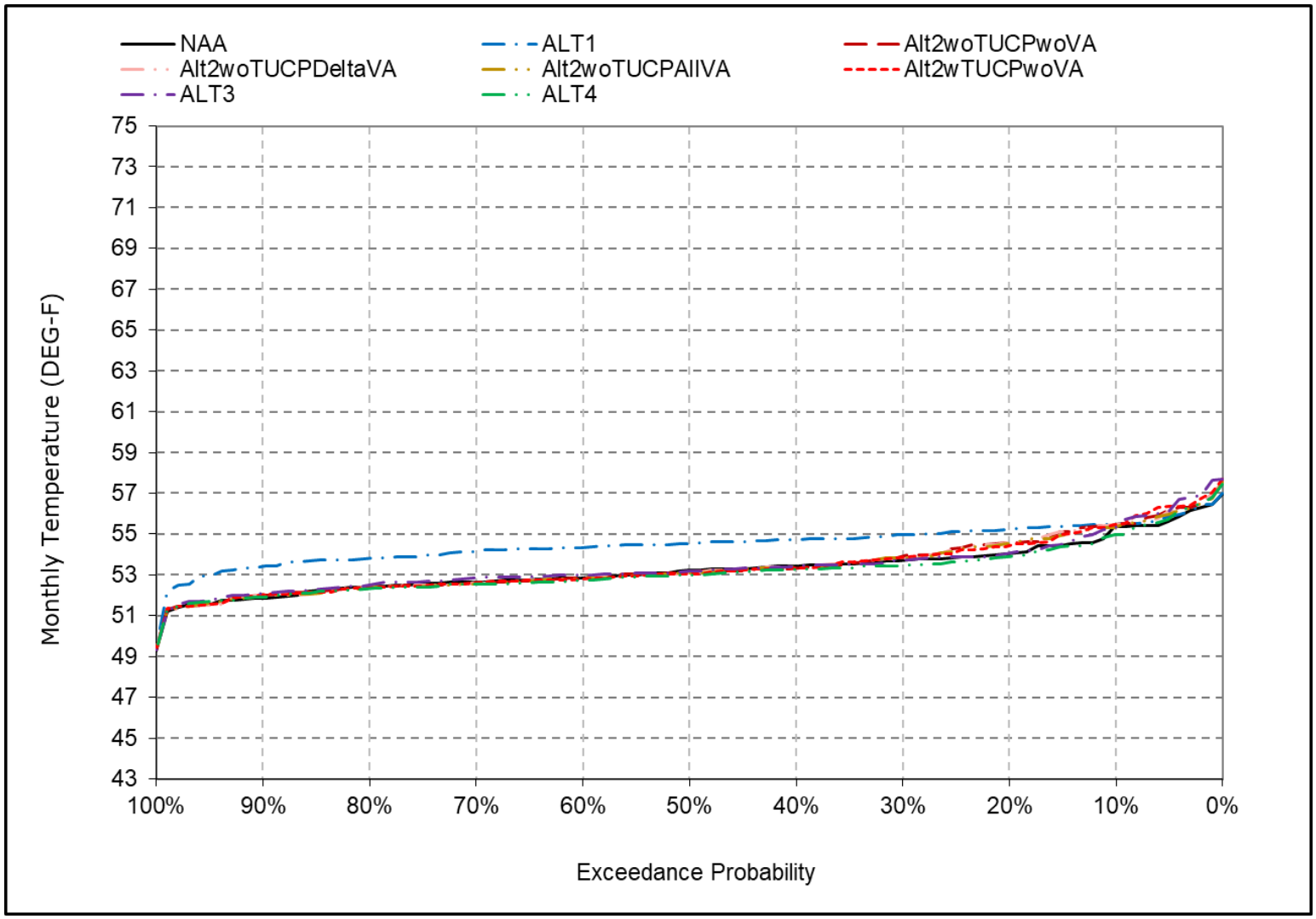
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-6. Sacramento River at Red Bluff, Critical Year Average Temperature



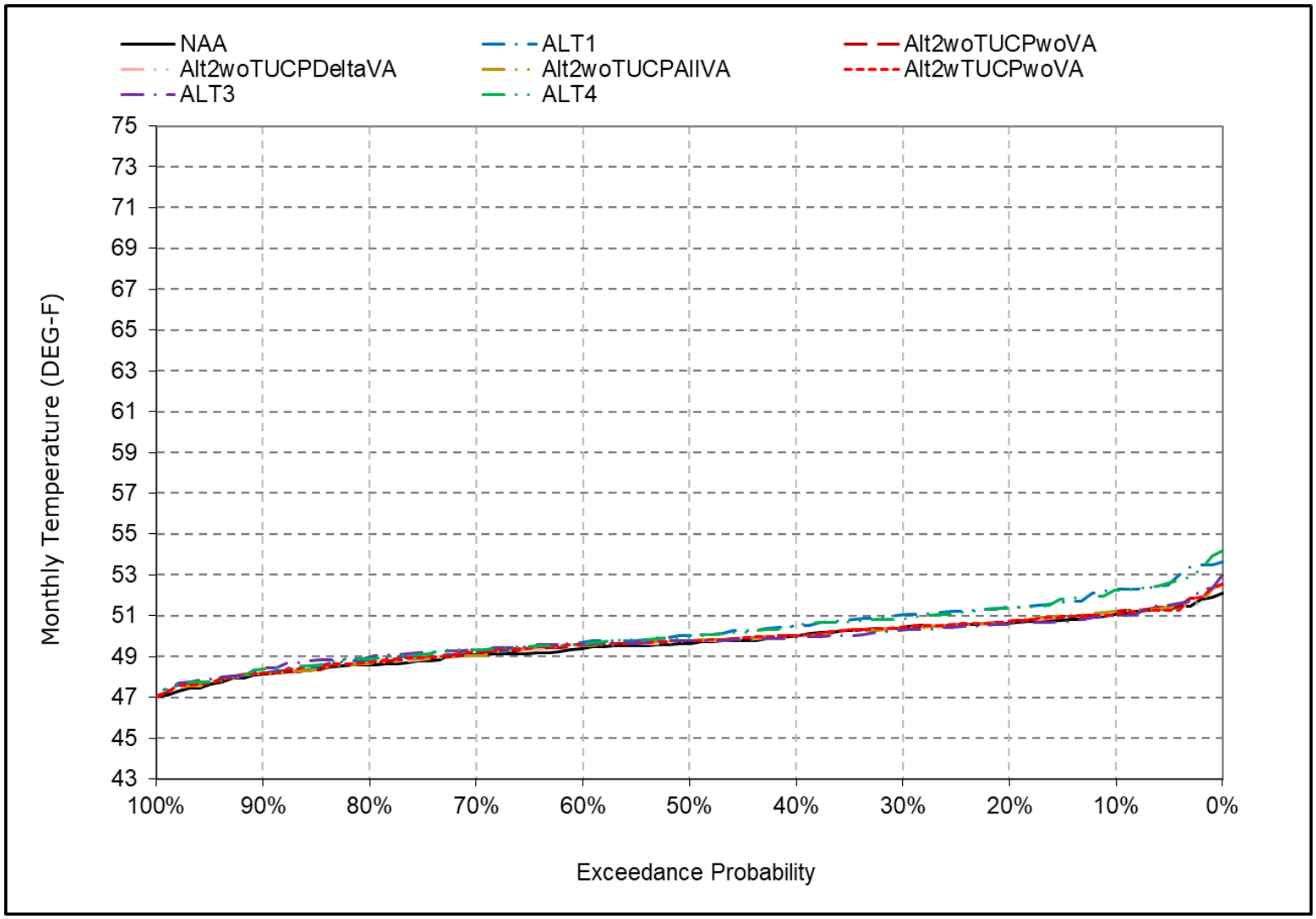
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-7. Sacramento River at Red Bluff, October



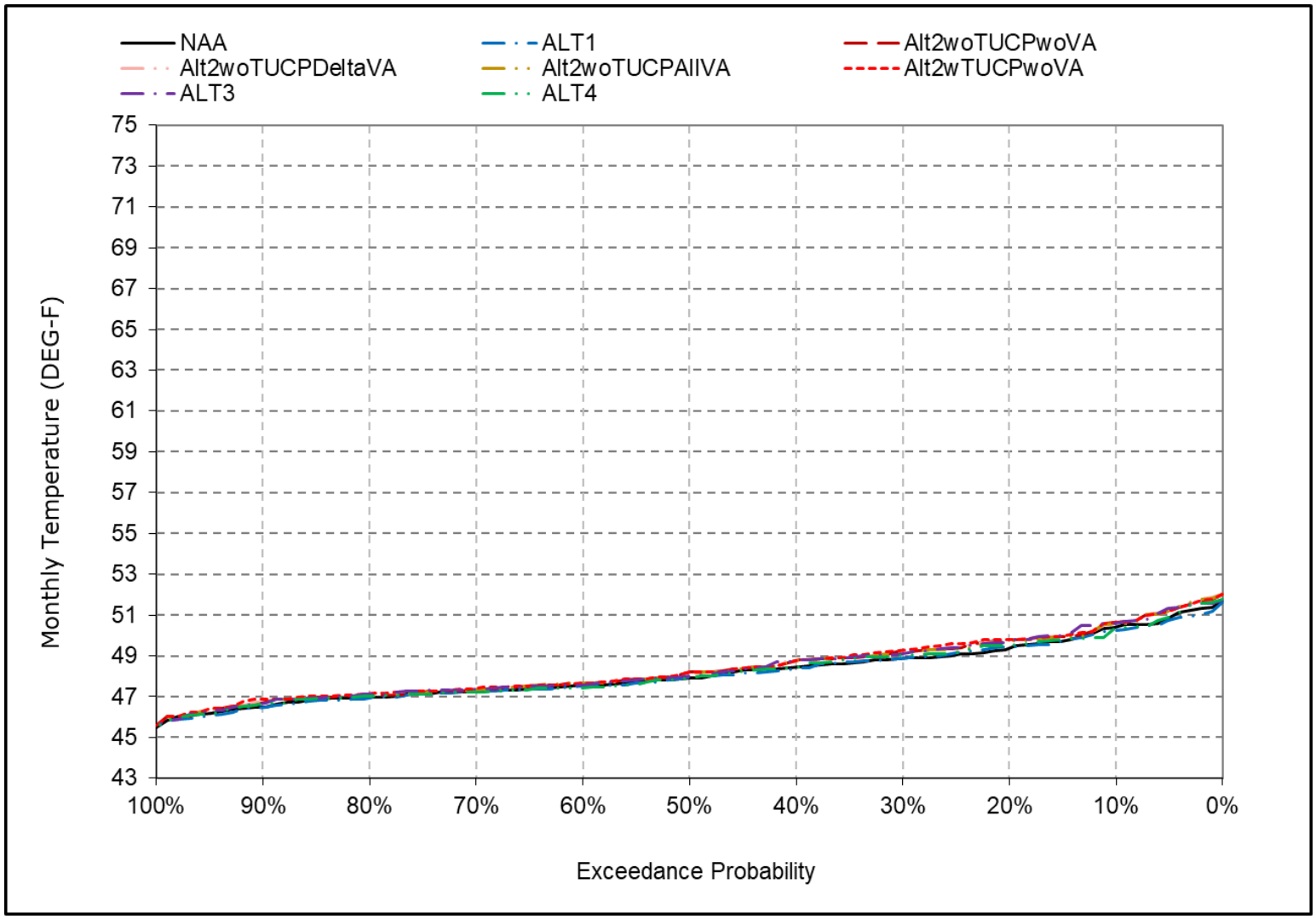
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-8. Sacramento River at Red Bluff, November



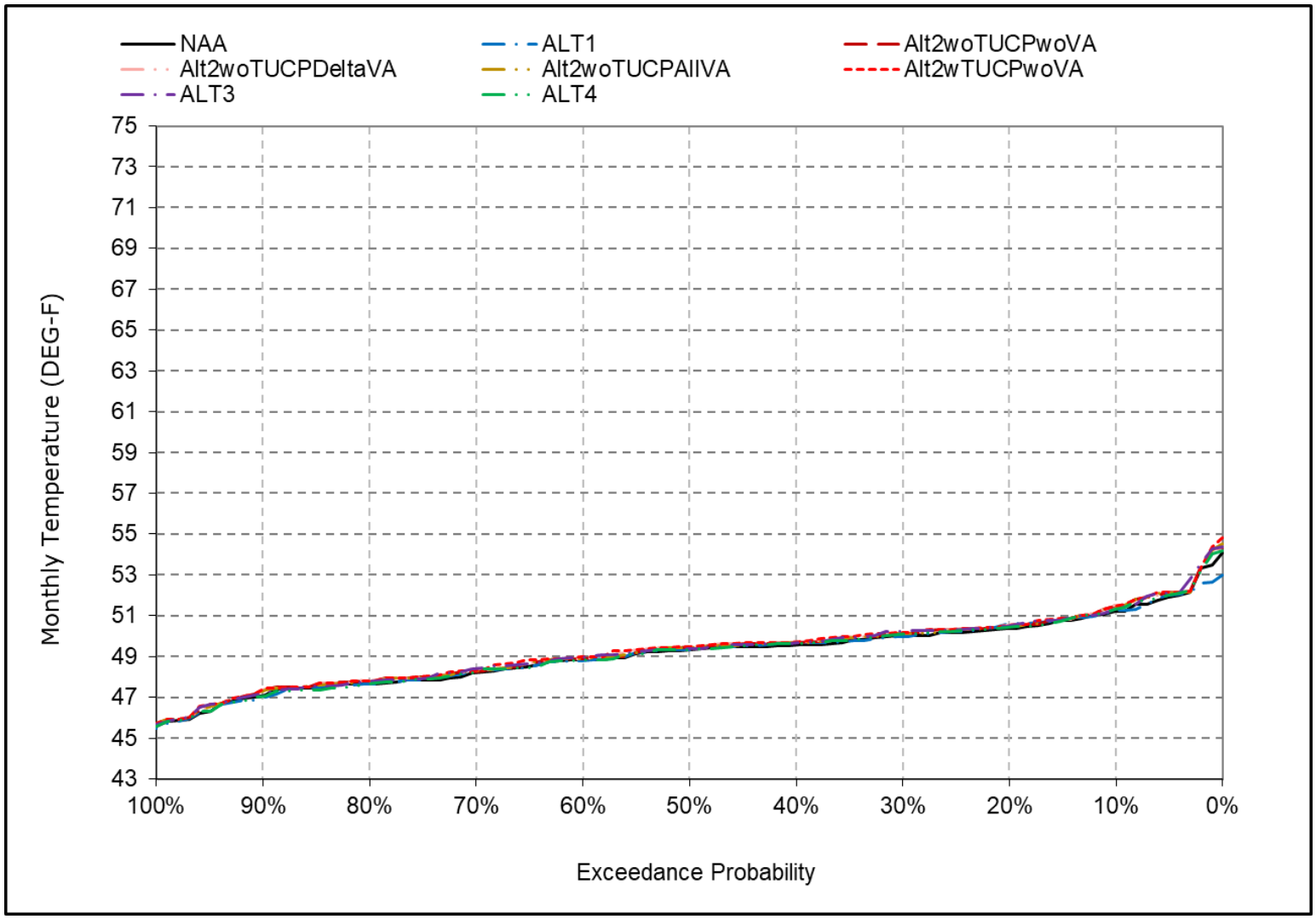
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-9. Sacramento River at Red Bluff, December



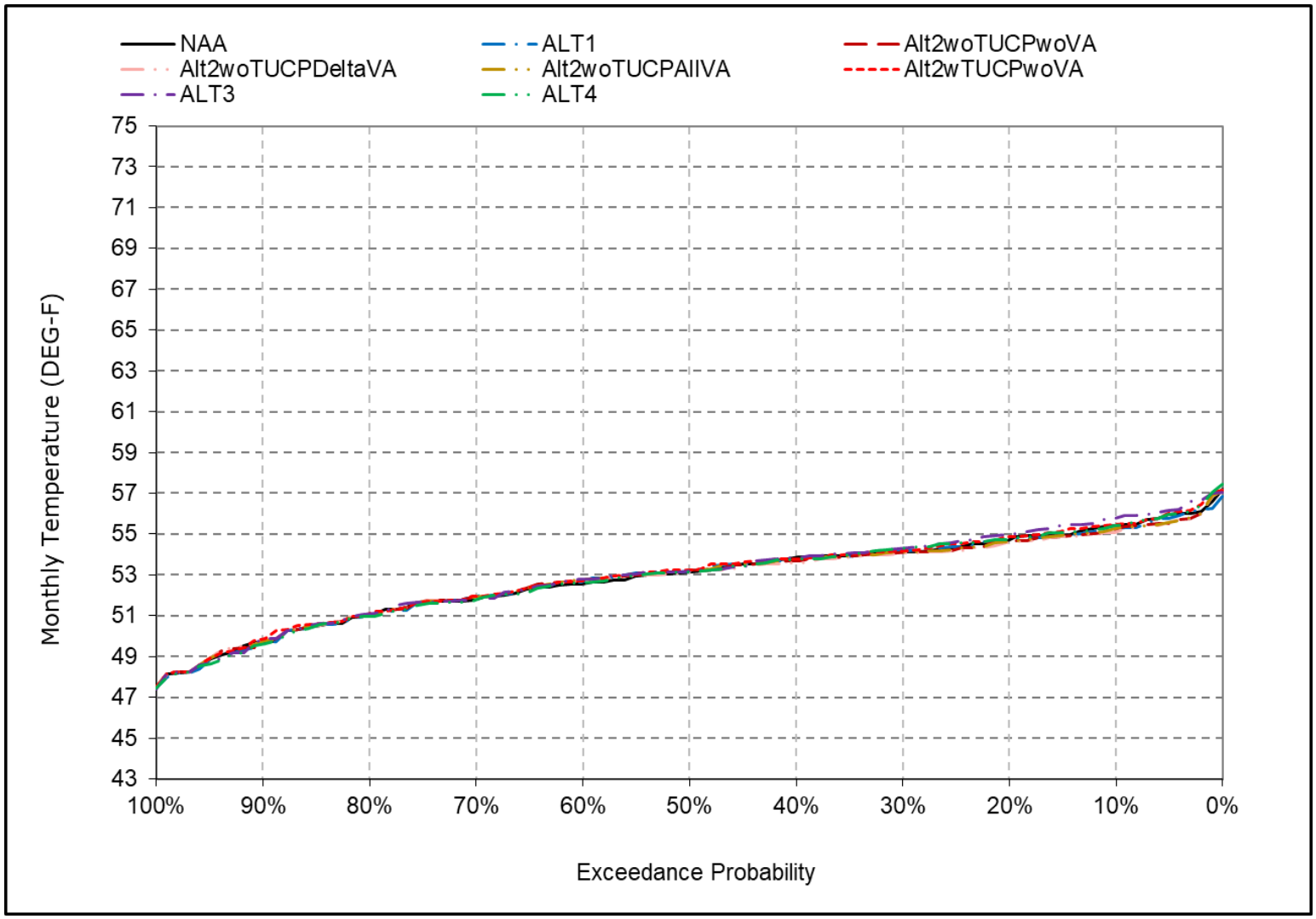
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-10. Sacramento River at Red Bluff, January



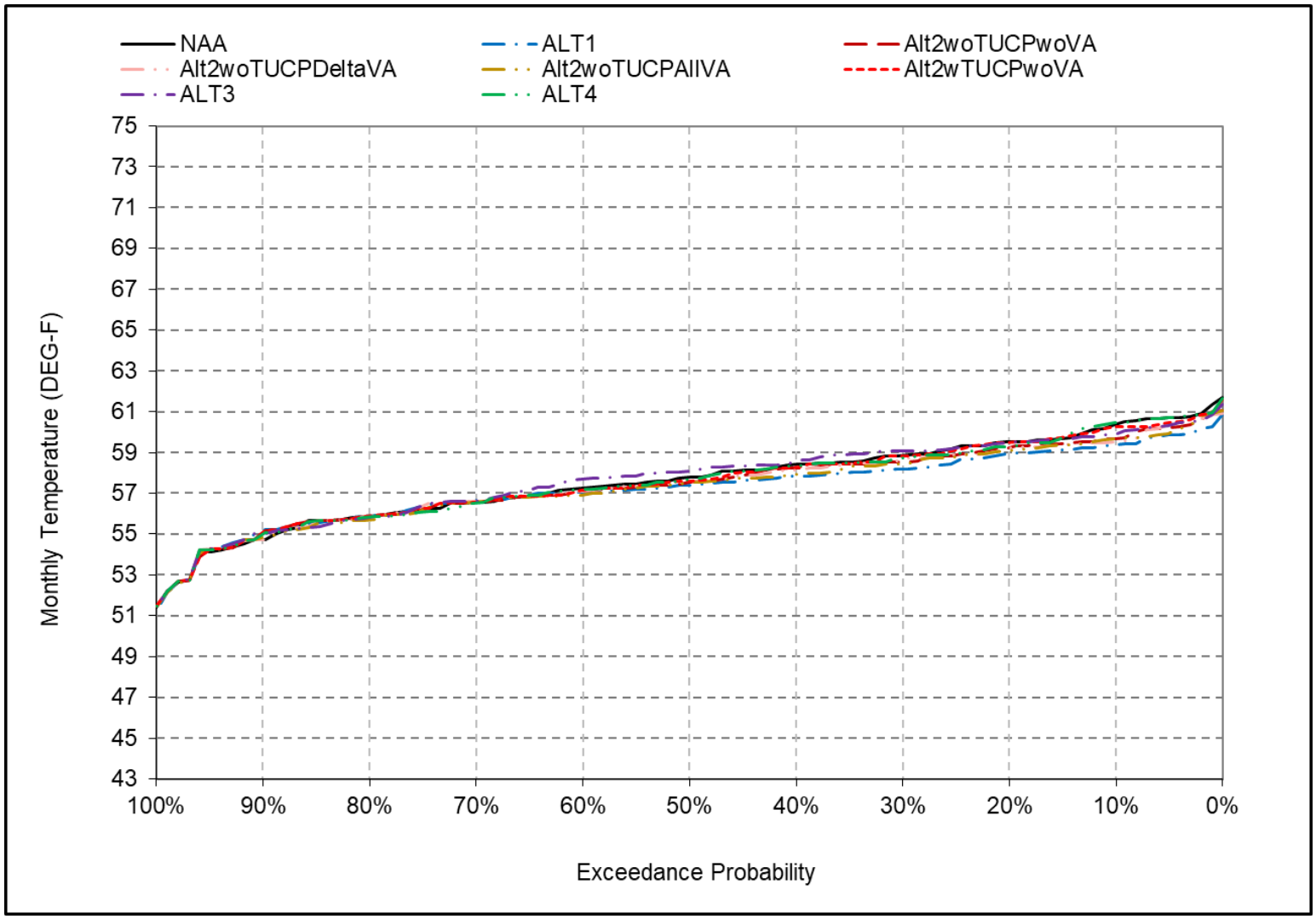
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-11. Sacramento River at Red Bluff, February



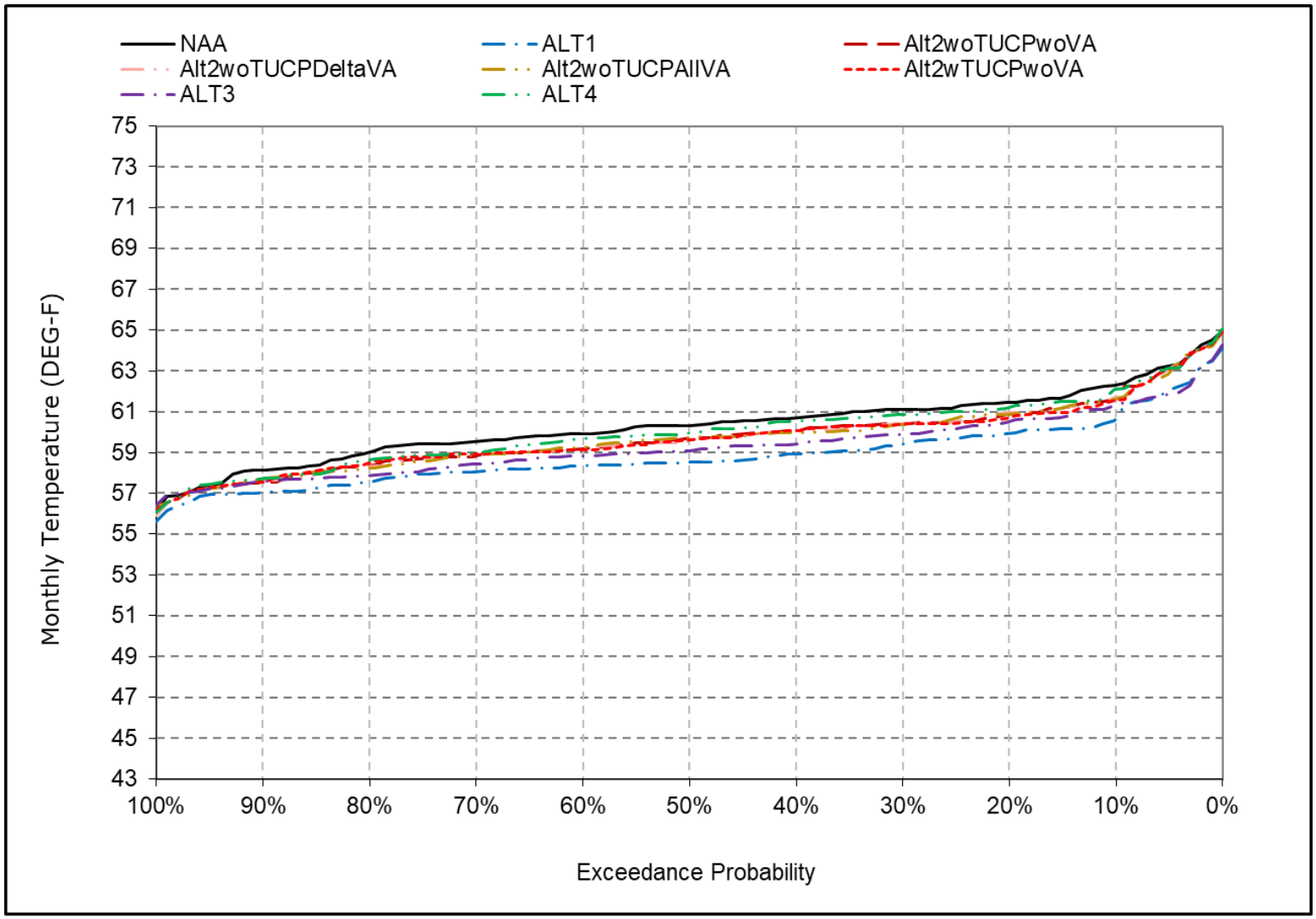
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-12. Sacramento River at Red Bluff, March



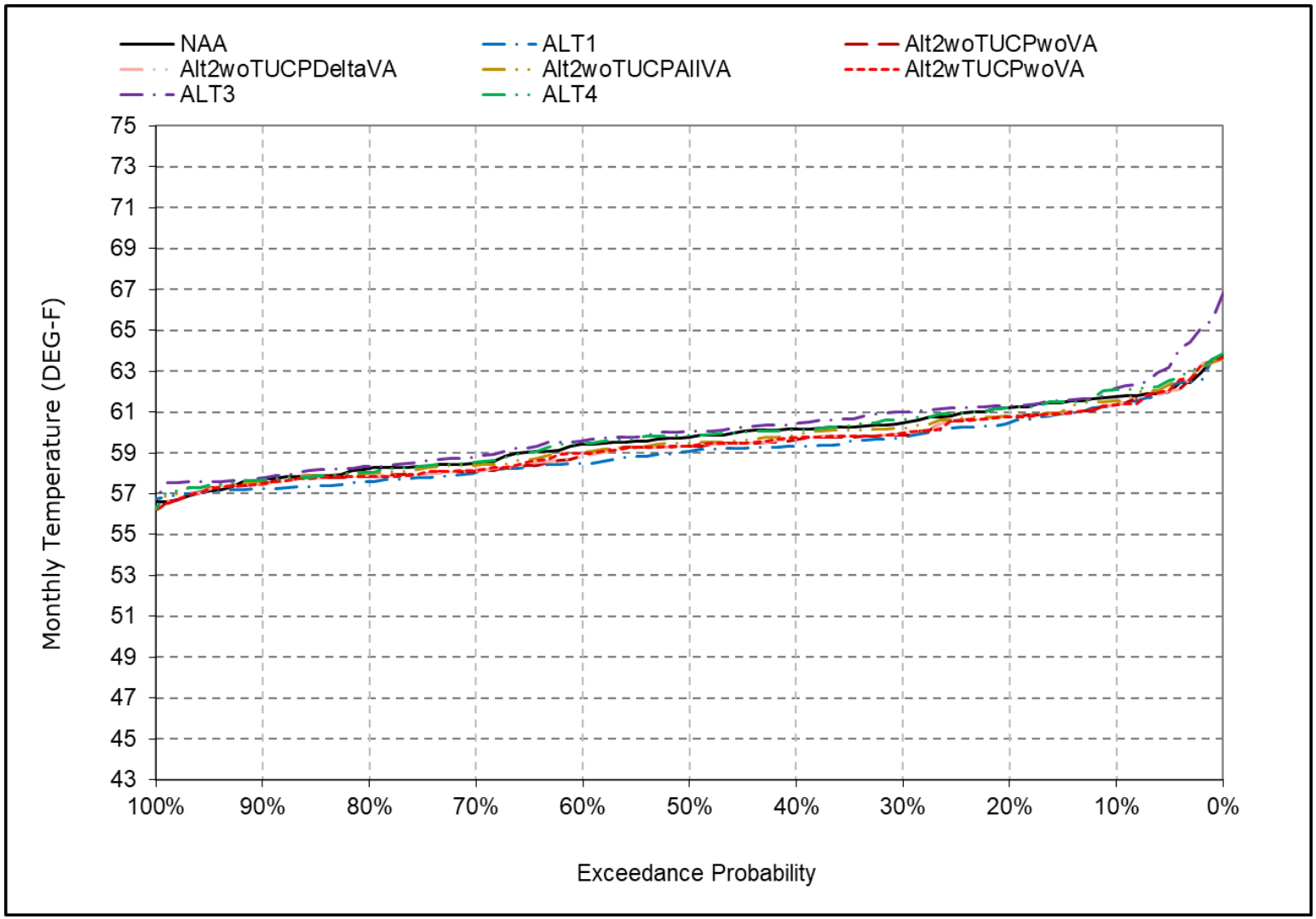
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-13. Sacramento River at Red Bluff, April



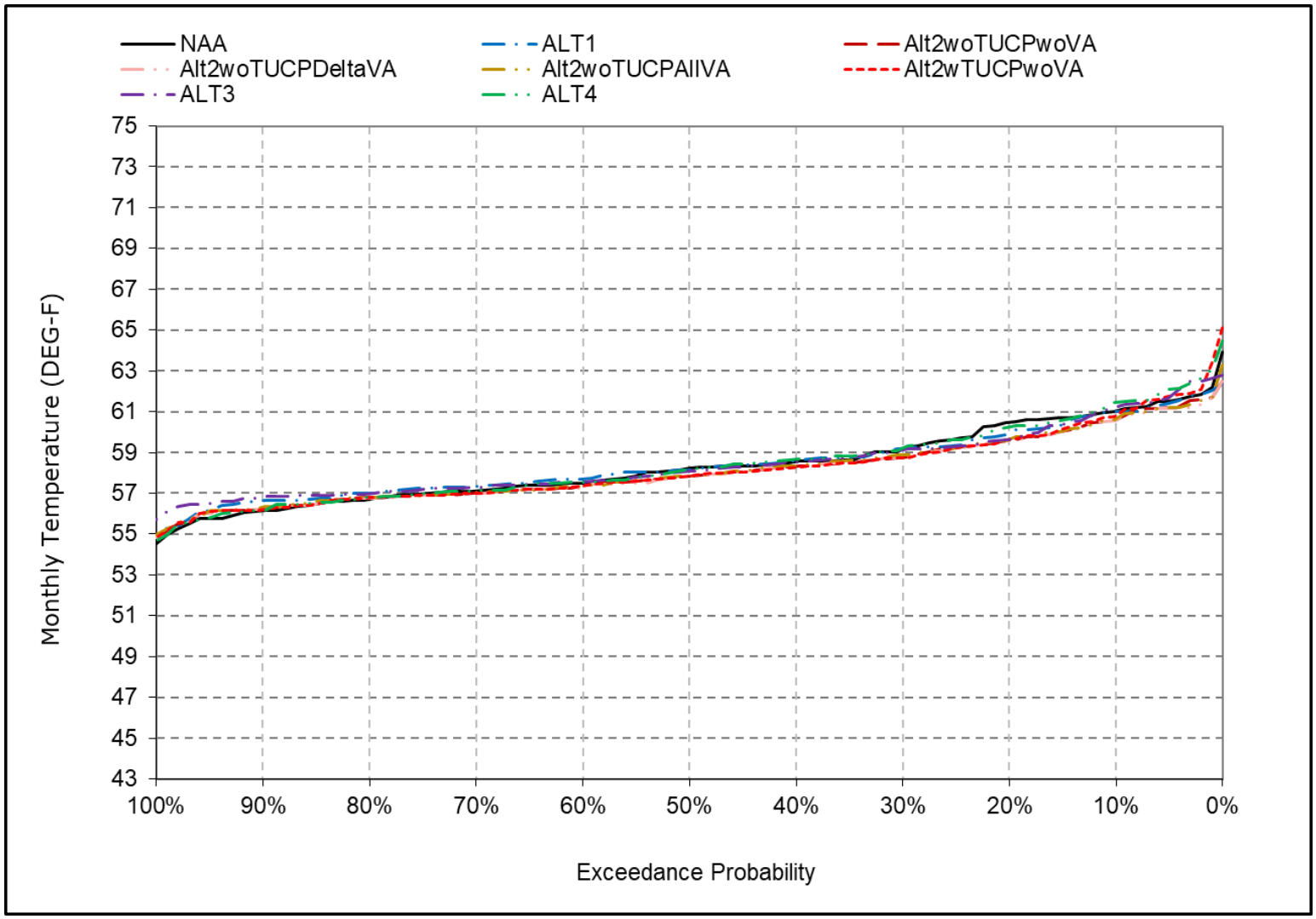
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-14. Sacramento River at Red Bluff, May



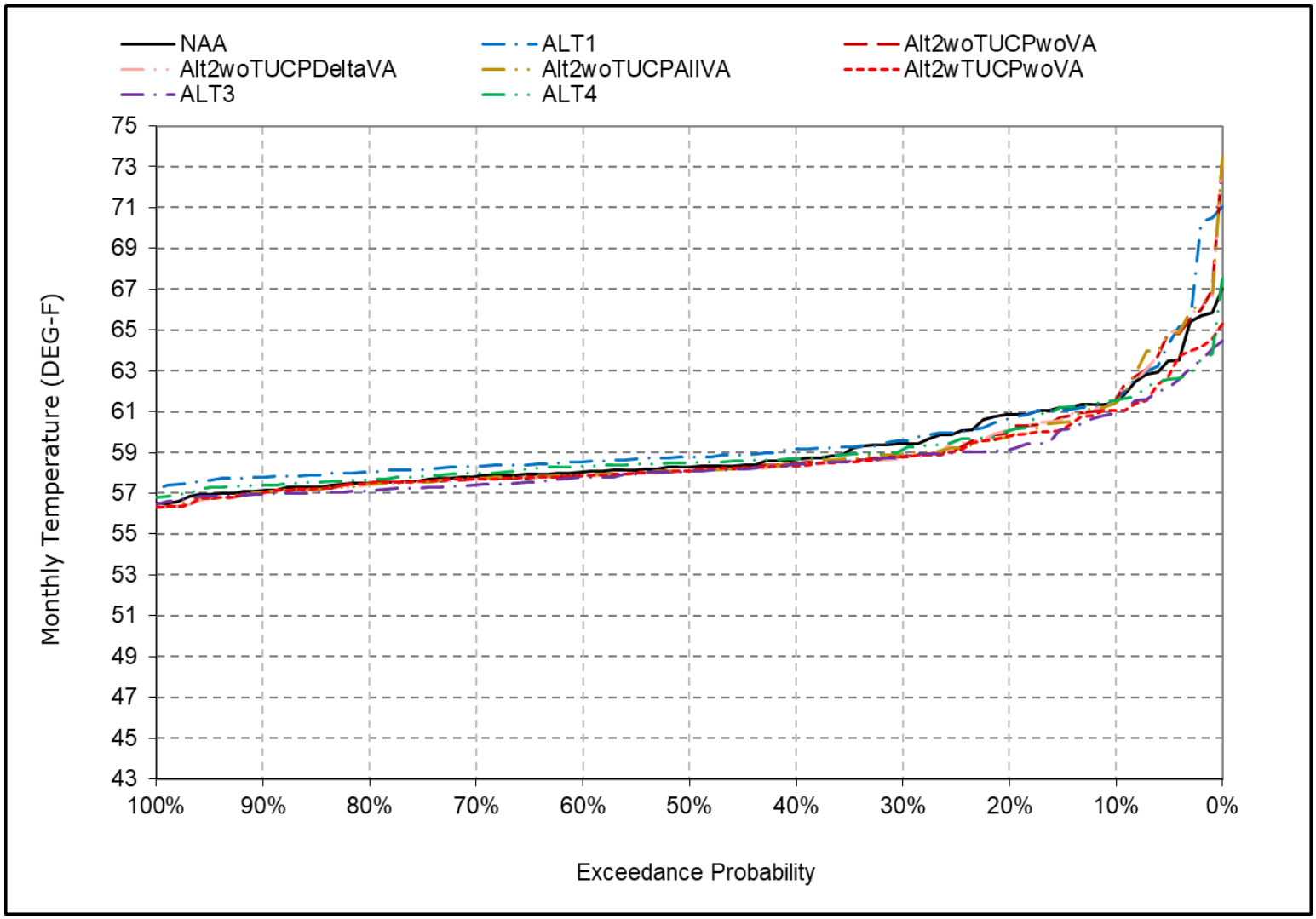
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-15. Sacramento River at Red Bluff, June



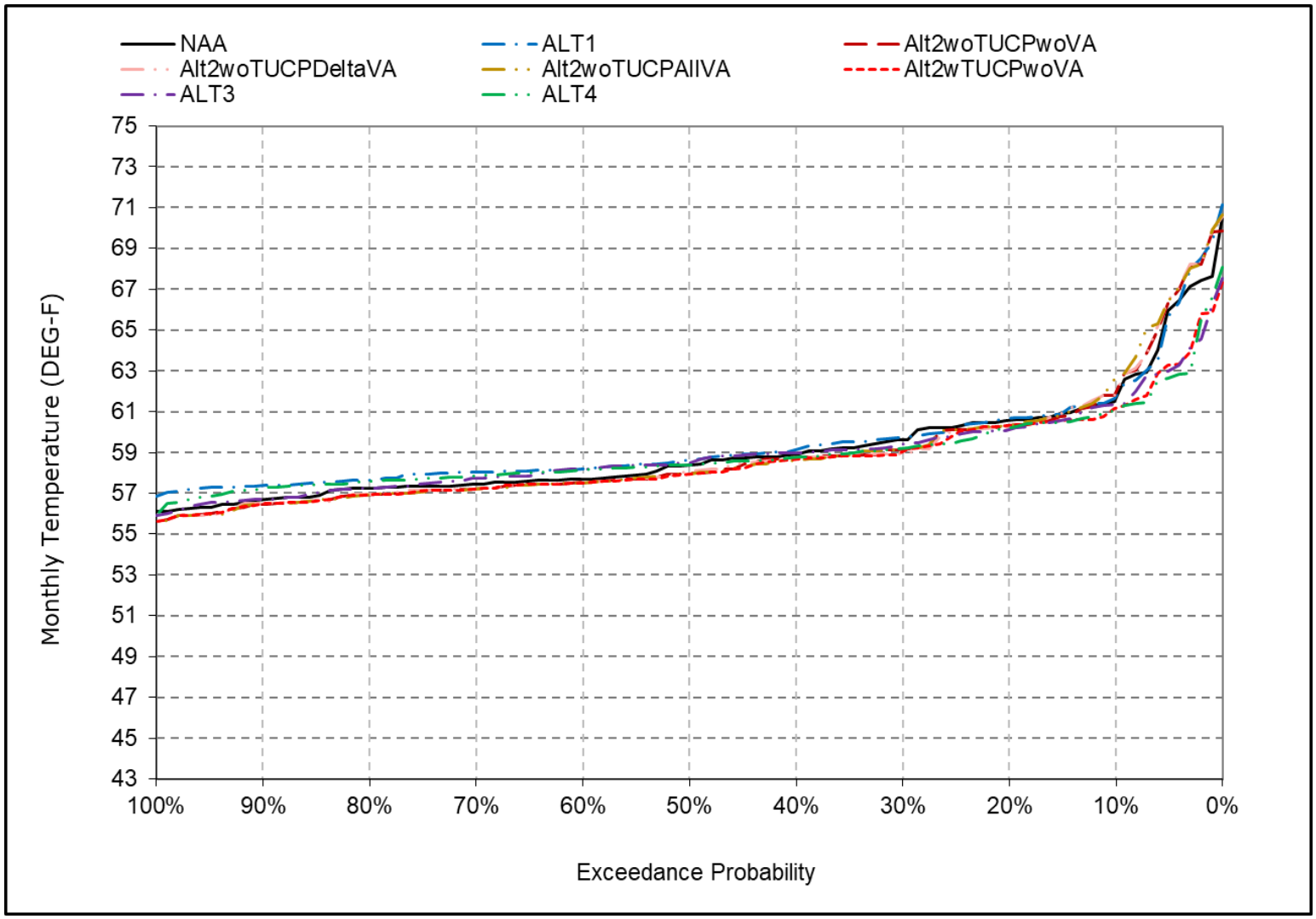
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-16. Sacramento River at Red Bluff, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-17. Sacramento River at Red Bluff, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-10-18. Sacramento River at Red Bluff, September

Table F.2.11-11-1a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-1b. Sacramento River below Red Bluff Diversion Dam, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	56	52	50	51	55	59	61	61	61	62	62
20% Exceedance	58	55	51	49	51	55	59	60	61	60	61	61
30% Exceedance	58	55	51	49	50	54	58	60	60	59	60	60
40% Exceedance	57.1	54.8	50.5	48.4	49.7	53.8	57.9	59.0	59.4	58.7	59.3	59.2
50% Exceedance	56.8	54.6	50.0	48.0	49.4	53.2	57.4	58.6	59.2	58.2	58.9	58.7
60% Exceedance	56.5	54.4	49.7	47.5	48.8	52.7	57.1	58.4	58.6	57.8	58.6	58.3
70% Exceedance	56.3	54.2	49.2	47.2	48.3	52.0	56.7	58.2	58.1	57.4	58.4	58.1
80% Exceedance	56.1	53.8	48.9	46.9	47.7	51.0	55.9	57.6	57.7	57.1	58.1	57.7
90% Exceedance	55.8	53.4	48.2	46.5	47.0	49.6	55.2	57.1	57.3	56.7	57.9	57.4
Full Simulation Period Average[a]	57	55	50	48	49	53	57	59	59	59	60	60
Wet Water Years (28%)	56	54	50	47	48	51	56	59	60	58	59	58
Above Normal Years (14%)	56	54	50	48	48	52	58	58	58	57	58	58
Below Normal Years (18%)	57	54	50	48	50	54	58	58	59	58	59	59
Dry Years (24%)	57	55	50	49	50	54	58	59	59	58	59	60
Critical (16%)	61	55	50	49	51	55	59	59	60	61	64	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-1c. Sacramento River below Red Bluff Diversion Dam, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.1	1.2	-0.2	0.0	-0.2	-1.0	-1.6	-0.4	0.0	0.1	0.0
20% Exceedance	0	1	1	0	0	0	-1	-1	-1	-1	0	0
30% Exceedance	0.7	1.2	0.6	0.0	0.0	0.0	-0.7	-1.7	-0.7	0.0	0.2	0.1
40% Exceedance	1	1	0	0	0	0	-1	-2	-1	0	1	0
50% Exceedance	1	1	0	0	0	0	0	-2	-1	0	0	0
60% Exceedance	1	2	0	0	0	0	0	-2	-1	0	1	0
70% Exceedance	1	2	0	0	0	0	0	-1	0	0	0	1
80% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	0
90% Exceedance	0.9	1.5	0.0	0.0	-0.1	-0.1	0.4	-1.1	-0.5	0.5	0.7	0.7
Full Simulation Period Average[a]	0.7	1.2	0.5	0.0	0.0	0.0	-0.3	-1.5	-0.6	0.1	0.5	0.4
Wet Water Years (28%)	0.9	1.6	0.6	-0.1	0.0	0.0	0.0	-1.6	-0.8	0.0	0.3	0.6
Above Normal Years (14%)	0.7	1.4	0.9	0.1	0.1	0.0	0.0	-2.2	-1.1	0.1	0.5	0.9
Below Normal Years (18%)	0.7	1.3	0.3	0.0	0.0	0.0	-0.5	-1.4	-0.5	0.4	0.7	-0.2
Dry Years (24%)	0.5	1.1	0.4	-0.1	0.0	0.1	-0.5	-1.4	-0.2	0.1	0.3	0.2
Critical (16%)	0	0	0	0	0	0	-1	-1	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-2a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-2b. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	55	51	51	51	55	60	62	61	61	62	62
20% Exceedance	58	55	51	50	51	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	61	60	59	59	59
40% Exceedance	56.5	53.4	50.0	48.8	49.7	53.7	58.3	60.2	59.8	58.4	58.6	58.8
50% Exceedance	56.0	53.1	49.8	48.2	49.5	53.3	57.6	59.8	59.4	57.9	58.2	58.1
60% Exceedance	55.6	52.9	49.5	47.7	48.9	52.7	57.1	59.3	58.9	57.4	58.0	57.6
70% Exceedance	55.4	52.6	49.1	47.4	48.3	51.9	56.7	58.9	58.2	57.1	57.8	57.3
80% Exceedance	55.1	52.4	48.7	47.1	47.8	51.0	55.9	58.4	57.9	56.9	57.6	57.0
90% Exceedance	54.7	52.0	48.2	46.7	47.4	49.7	55.1	57.6	57.6	56.3	57.1	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	58	60	59	57	58	57
Below Normal Years (18%)	57	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	55	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-2c. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.7	0.1	0.1	0.2	0.3	-0.2	-0.7	-0.6	-0.4	-0.5	0.1	0.3
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.2	0.0	0.3	0.1	0.0	-0.3	-0.7	-0.6	-0.4	-0.6	-0.4
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.2	0.3	0.0	0.3	-0.6	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.2	-0.6	-0.4	-0.2	-0.1	-0.2
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.1	0.0	0.1	-0.7	-0.4	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.2	0.2	0.1	0.1	0.1	0.0	0.0	-0.8	-0.4	0.1	-0.1	-0.5
Dry Years (24%)	0.0	0.2	0.1	0.3	0.1	0.1	0.0	-0.6	-0.3	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-3a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-3b. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	56	51	51	52	55	60	62	61	61	62	62
20% Exceedance	58	55	51	50	51	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	61	60	59	59	59
40% Exceedance	56.4	53.4	50.0	48.8	49.7	53.6	58.2	60.1	59.8	58.4	58.5	58.8
50% Exceedance	56.0	53.1	49.8	48.1	49.5	53.2	57.6	59.6	59.4	57.9	58.2	58.2
60% Exceedance	55.6	52.9	49.6	47.7	48.9	52.7	57.2	59.2	58.9	57.4	57.9	57.6
70% Exceedance	55.4	52.6	49.1	47.4	48.3	51.9	56.7	59.0	58.2	57.1	57.8	57.3
80% Exceedance	55.1	52.4	48.7	47.1	47.9	51.1	55.9	58.4	58.0	56.8	57.5	57.0
90% Exceedance	54.7	52.0	48.2	46.8	47.4	49.8	54.8	57.7	57.6	56.3	57.1	56.6
Full Simulation Period Average[a]	57	53	50	48	49	53	57	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	56	52	49	48	48	52	58	60	59	57	58	57
Below Normal Years (18%)	57	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	54	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-3c. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.1	0.2	0.3	-0.3	-0.9	-0.6	-0.4	-0.4	0.1	0.3
20% Exceedance	0	1	0	0	0	0	0	0	0	-1	-1	0
30% Exceedance	0.3	0.1	0.0	0.3	0.1	-0.1	-0.2	-0.7	-0.5	-0.5	-0.7	-0.7
40% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	-1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.3	0.3	0.1	0.0	-0.5	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.2	0.0	-0.2	-0.6	-0.3	-0.2	-0.1	-0.2
Wet Water Years (28%)	-0.2	0.1	0.2	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.2	0.2	0.0	0.1	-0.8	-0.3	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.2	0.2	0.0	0.1	0.2	0.0	0.0	-0.8	-0.4	0.1	-0.2	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.1	0.1	-0.7	-0.2	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-4a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-4b. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	60	55	51	51	51	55	60	62	62	61	62	63
20% Exceedance	58	55	51	50	50	55	59	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	60	60	59	59	59
40% Exceedance	56.3	53.4	50.0	48.8	49.7	53.9	58.0	60.1	59.9	58.4	58.6	58.7
50% Exceedance	56.0	53.1	49.8	48.2	49.5	53.3	57.6	59.8	59.6	57.9	58.2	58.0
60% Exceedance	55.6	52.9	49.6	47.7	48.9	52.8	57.0	59.3	59.1	57.4	58.0	57.6
70% Exceedance	55.4	52.6	49.1	47.4	48.3	51.9	56.6	59.0	58.5	57.1	57.8	57.3
80% Exceedance	55.1	52.4	48.7	47.1	47.8	51.1	55.7	58.3	58.1	56.9	57.5	57.0
90% Exceedance	54.7	52.0	48.2	46.7	47.3	49.8	54.9	57.8	57.7	56.4	57.1	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	57	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	56	52	49	48	48	52	57	60	60	57	58	57
Below Normal Years (18%)	57	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	49	50	51	55	58	60	60	60	63	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-4c. Sacramento River below Red Bluff Diversion Dam, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.7	0.0	0.1	0.2	0.2	-0.2	-0.7	-0.7	-0.2	-0.4	0.0	0.9
20% Exceedance	0	1	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.1	-0.1	0.3	0.1	0.0	-0.4	-0.7	-0.2	-0.3	-0.5	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.2	0.2	0.1	0.1	-0.5	-0.1	0.2	-0.1	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.2	0.1	0.0	-0.3	-0.6	-0.2	-0.2	-0.1	-0.1
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.3	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.8	0.0	-0.1	-0.1	-0.3
Below Normal Years (18%)	0.1	0.2	0.0	0.1	0.1	0.0	-0.3	-0.8	-0.1	0.2	-0.1	-0.6
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.1	0.1	-0.5	0.0	-0.3	-0.5	-0.4
Critical (16%)	1	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-5a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-5b. Sacramento River below Red Bluff Diversion Dam, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	52	56	60	62	61	61	61	61
20% Exceedance	58	54	51	50	51	55	60	61	61	60	60	60
30% Exceedance	57	54	50	49	50	54	59	60	60	59	59	59
40% Exceedance	56.5	53.4	50.0	48.8	49.7	53.8	58.4	60.2	59.8	58.4	58.5	58.8
50% Exceedance	55.9	53.1	49.8	48.2	49.5	53.3	57.7	59.7	59.4	57.9	58.2	58.0
60% Exceedance	55.6	52.8	49.6	47.7	49.0	52.8	57.2	59.2	59.1	57.4	57.9	57.6
70% Exceedance	55.4	52.6	49.2	47.4	48.3	52.0	56.7	59.0	58.3	57.1	57.8	57.3
80% Exceedance	55.1	52.4	48.7	47.2	47.8	51.2	55.9	58.6	57.9	56.8	57.6	57.0
90% Exceedance	54.7	52.0	48.2	46.9	47.4	49.9	55.1	57.6	57.6	56.3	57.1	56.5
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	59	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	58	57
Above Normal Years (14%)	55	52	49	48	48	52	58	60	59	57	58	57
Below Normal Years (18%)	56	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	54	50	49	50	54	58	60	59	58	59	59
Critical (16%)	61	55	50	50	51	55	59	60	60	61	62	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-5c. Sacramento River below Red Bluff Diversion Dam, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.0	0.2	0.3	0.0	-0.1	-0.8	-0.4	-0.2	-0.4	-0.5
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-1	0
30% Exceedance	0.3	0.2	0.0	0.4	0.1	0.1	0.0	-0.7	-0.5	-0.4	-0.6	-0.5
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.2	0.1	0.0	0.4	0.3	0.1	0.3	-0.6	-0.2	0.1	-0.1	-0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.2	0.2	0.1	0.0	-0.6	-0.3	-0.1	-0.4	-0.5
Wet Water Years (28%)	-0.2	0.1	0.3	0.1	0.1	0.0	0.0	-0.7	-0.4	-0.2	-0.2	-0.2
Above Normal Years (14%)	-0.1	-0.1	0.0	0.3	0.2	0.1	0.0	-0.7	-0.4	-0.1	-0.2	-0.3
Below Normal Years (18%)	0.0	0.1	0.0	0.2	0.2	0.1	0.0	-0.8	-0.5	0.0	-0.3	-0.7
Dry Years (24%)	0.0	0.1	0.1	0.3	0.1	0.1	0.0	-0.6	-0.3	-0.3	-0.5	-0.3
Critical (16%)	0	0	0	0	0	0	0	0	0	0	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-6a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-6b. Sacramento River below Red Bluff Diversion Dam, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	51	51	51	56	60	61	62	61	61	61
20% Exceedance	58	54	51	50	51	55	60	61	61	60	59	60
30% Exceedance	57	54	50	49	50	54	59	60	61	59	59	59
40% Exceedance	56.3	53.5	49.9	48.8	49.7	53.9	58.7	59.5	60.5	58.6	58.5	59.1
50% Exceedance	56.1	53.2	49.8	48.0	49.4	53.2	58.1	59.2	60.2	58.2	58.2	58.6
60% Exceedance	55.9	53.0	49.6	47.6	49.0	52.8	57.7	58.9	59.7	57.6	57.9	58.3
70% Exceedance	55.6	52.9	49.3	47.4	48.4	51.8	56.7	58.5	58.9	57.4	57.5	57.8
80% Exceedance	55.2	52.5	49.0	47.1	47.8	51.1	55.9	58.0	58.4	57.1	57.2	57.3
90% Exceedance	54.8	52.1	48.4	46.7	47.2	49.8	55.1	57.6	57.9	56.9	57.0	56.8
Full Simulation Period Average[a]	57	53	50	48	49	53	58	59	60	59	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	59	61	58	59	58
Above Normal Years (14%)	56	53	49	48	48	52	58	59	61	58	58	58
Below Normal Years (18%)	56	53	49	48	50	54	58	59	60	58	58	59
Dry Years (24%)	57	54	50	49	50	54	59	59	59	58	58	60
Critical (16%)	60	55	50	50	51	55	59	60	60	61	61	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-6c. Sacramento River below Red Bluff Diversion Dam, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.2	0.0	-0.1	0.2	0.1	0.4	-0.4	-1.0	0.4	0.2	-0.5	-0.4
20% Exceedance	0	0	0	0	0	0	0	-1	0	-1	-2	0
30% Exceedance	0.2	0.0	-0.1	0.2	0.2	0.2	0.2	-1.2	0.5	-0.1	-0.6	-0.2
40% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	-0.1	0.2	0.2	0.2	0.1	0.1	0.3	-0.6	0.0	0.7	-0.2	0.0
Full Simulation Period Average[a]	-0.2	0.1	0.1	0.2	0.1	0.1	0.1	-1.0	0.4	0.1	-0.6	-0.2
Wet Water Years (28%)	0.0	0.1	0.1	0.1	0.1	-0.1	-0.1	-1.6	0.9	0.2	0.3	0.4
Above Normal Years (14%)	0.0	0.1	0.3	0.1	0.0	0.0	0.0	-1.7	1.2	0.8	0.1	0.4
Below Normal Years (18%)	-0.1	-0.1	0.0	0.1	0.2	0.1	0.3	-0.6	0.2	0.5	-0.6	-0.3
Dry Years (24%)	0.0	0.2	0.1	0.2	0.0	0.4	0.5	-1.0	0.0	-0.4	-1.3	0.0
Critical (16%)	-1	0	0	1	0	0	0	0	0	0	-2	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-7a. Sacramento River below Red Bluff Diversion Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59.2	55.4	51.1	50.4	51.2	55.5	60.4	62.4	61.9	61.1	61.6	61.8
20% Exceedance	57.9	54.1	50.6	49.4	50.4	54.8	59.6	61.5	61.3	60.6	60.9	60.6
30% Exceedance	57.0	53.7	50.4	48.9	50.0	54.2	58.9	61.2	60.6	59.3	59.5	59.7
40% Exceedance	56.5	53.5	50.0	48.5	49.6	53.9	58.5	60.8	60.3	58.6	58.7	59.0
50% Exceedance	56	53	50	48	49	53	58	60	60	58	58	58
60% Exceedance	56	53	49	48	49	53	57	60	60	58	58	58
70% Exceedance	56	53	49	47	48	52	57	60	59	57	58	58
80% Exceedance	55	52	49	47	48	51	56	59	58	57	58	57
90% Exceedance	55	52	48	46	47	50	55	58	58	56	57	57
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	58	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	61	60	58	58	57
Above Normal Years (14%)	56	53	49	48	48	52	58	61	60	57	58	57
Below Normal Years (18%)	56	53	49	48	50	54	58	60	60	58	58	59
Dry Years (24%)	57.0	53.5	49.9	48.8	49.8	53.6	58.3	60.3	58.9	58.3	59.2	59.6
Critical (16%)	61	55	50	49	51	55	59	60	60	61	62	64

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-7b. Sacramento River below Red Bluff Diversion Dam, Alternative 4, Monthly Temperature (°F)

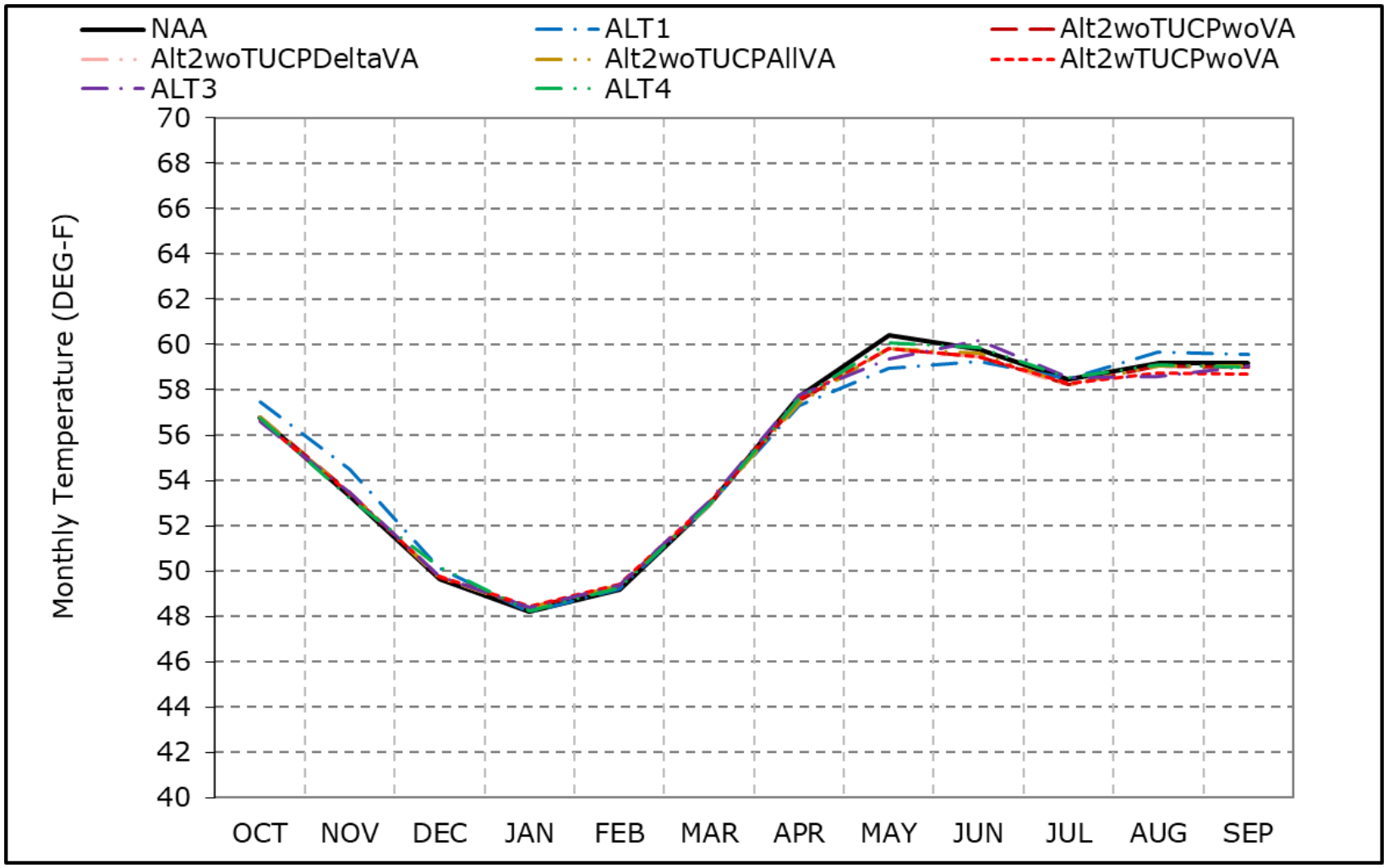
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	55	52	50	51	55	61	62	62	62	62	61
20% Exceedance	58	54	51	50	50	55	59	61	61	60	60	60
30% Exceedance	57	54	51	49	50	54	59	61	61	59	59	59
40% Exceedance	56.4	53.3	50.6	48.4	49.7	53.8	58.4	60.6	60.2	58.7	58.8	58.8
50% Exceedance	56.1	53.0	50.0	47.9	49.4	53.2	57.7	60.1	60.0	58.3	58.6	58.5
60% Exceedance	55.9	52.8	49.6	47.4	48.8	52.7	57.2	59.8	59.5	57.6	58.4	58.2
70% Exceedance	55.7	52.6	49.4	47.2	48.3	51.8	56.6	59.1	58.6	57.2	58.1	57.9
80% Exceedance	55.3	52.4	48.9	47.1	47.7	51.0	55.9	58.7	58.1	56.9	57.7	57.7
90% Exceedance	55.1	51.9	48.4	46.7	47.1	49.6	55.1	57.8	57.8	56.2	57.5	57.3
Full Simulation Period Average[a]	57	53	50	48	49	53	58	60	60	59	59	59
Wet Water Years (28%)	55	53	50	47	48	51	56	60	60	58	59	58
Above Normal Years (14%)	56	53	50	48	48	52	58	60	60	57	58	58
Below Normal Years (18%)	56	53	50	48	50	54	58	59	59	58	58	59
Dry Years (24%)	57	53	50	49	50	54	58	60	59	58	59	59
Critical (16%)	60	55	50	50	51	55	59	60	61	62	62	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-11-7c. Sacramento River below Red Bluff Diversion Dam, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

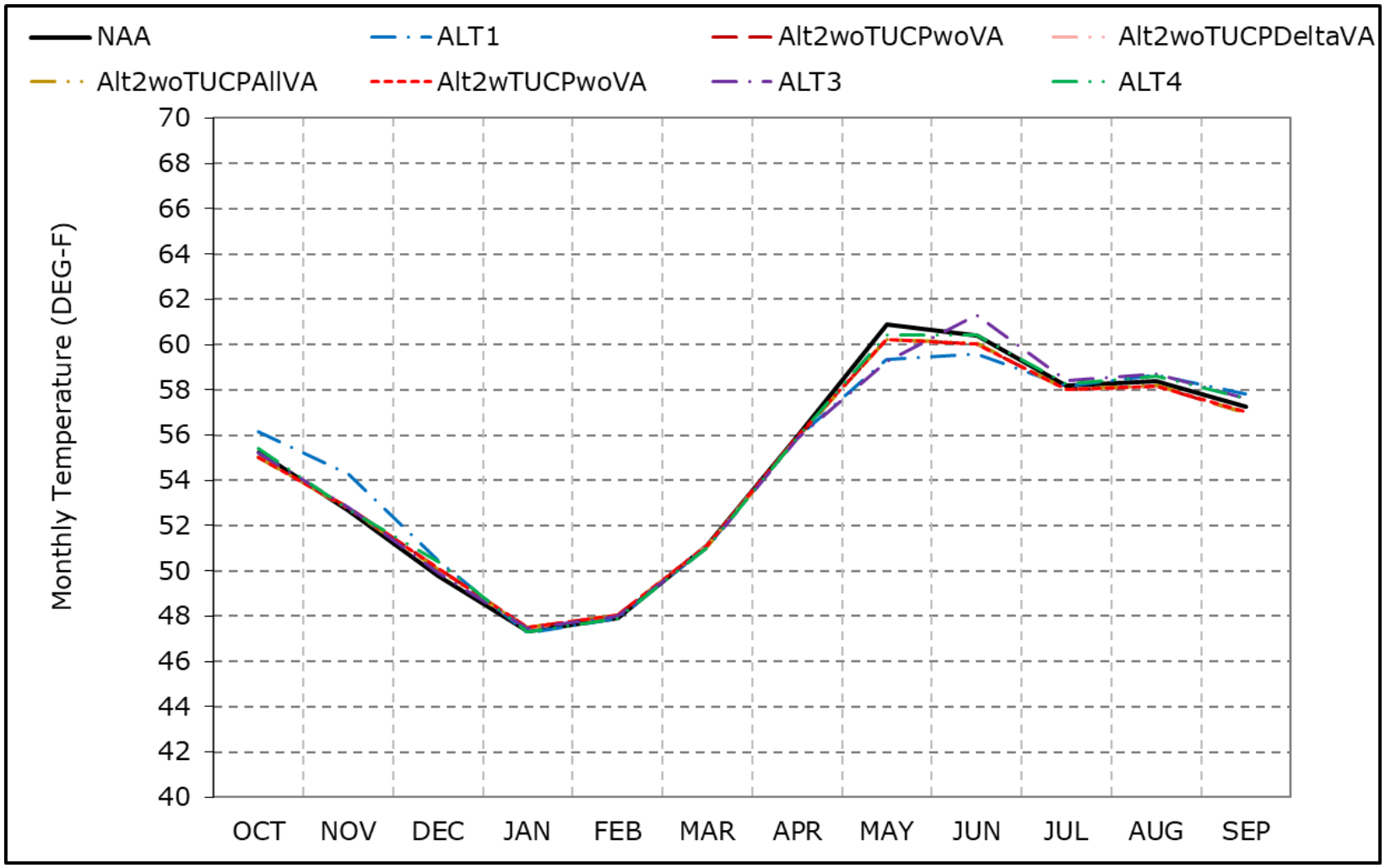
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.7	-0.4	1.2	-0.1	0.1	0.0	0.1	-0.2	0.3	0.4	0.1	-0.6
20% Exceedance	0	0	1	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.1	-0.2	0.4	0.1	0.1	0.2	-0.1	-0.2	0.2	0.1	-0.3	-0.4
40% Exceedance	0	0	1	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.0	0.2	0.2	0.0	-0.1	0.3	-0.5	0.0	0.0	0.3	0.6
Full Simulation Period Average[a]	0.0	-0.1	0.5	0.0	0.0	0.0	0.0	-0.3	0.1	0.1	0.0	-0.2
Wet Water Years (28%)	0.2	0.0	0.6	-0.1	0.0	-0.1	0.0	-0.5	0.0	0.1	0.2	0.4
Above Normal Years (14%)	0.4	0.0	0.6	0.0	0.0	-0.1	0.0	-0.5	0.0	0.0	0.3	1.0
Below Normal Years (18%)	0.0	-0.3	0.3	0.0	0.1	0.0	-0.2	-0.5	-0.1	0.1	-0.1	-0.2
Dry Years (24%)	-0.1	-0.2	0.5	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	-0.3	-0.4
Critical (16%)	-1	0	0	0	0	0	0	0	0	1	0	-2

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



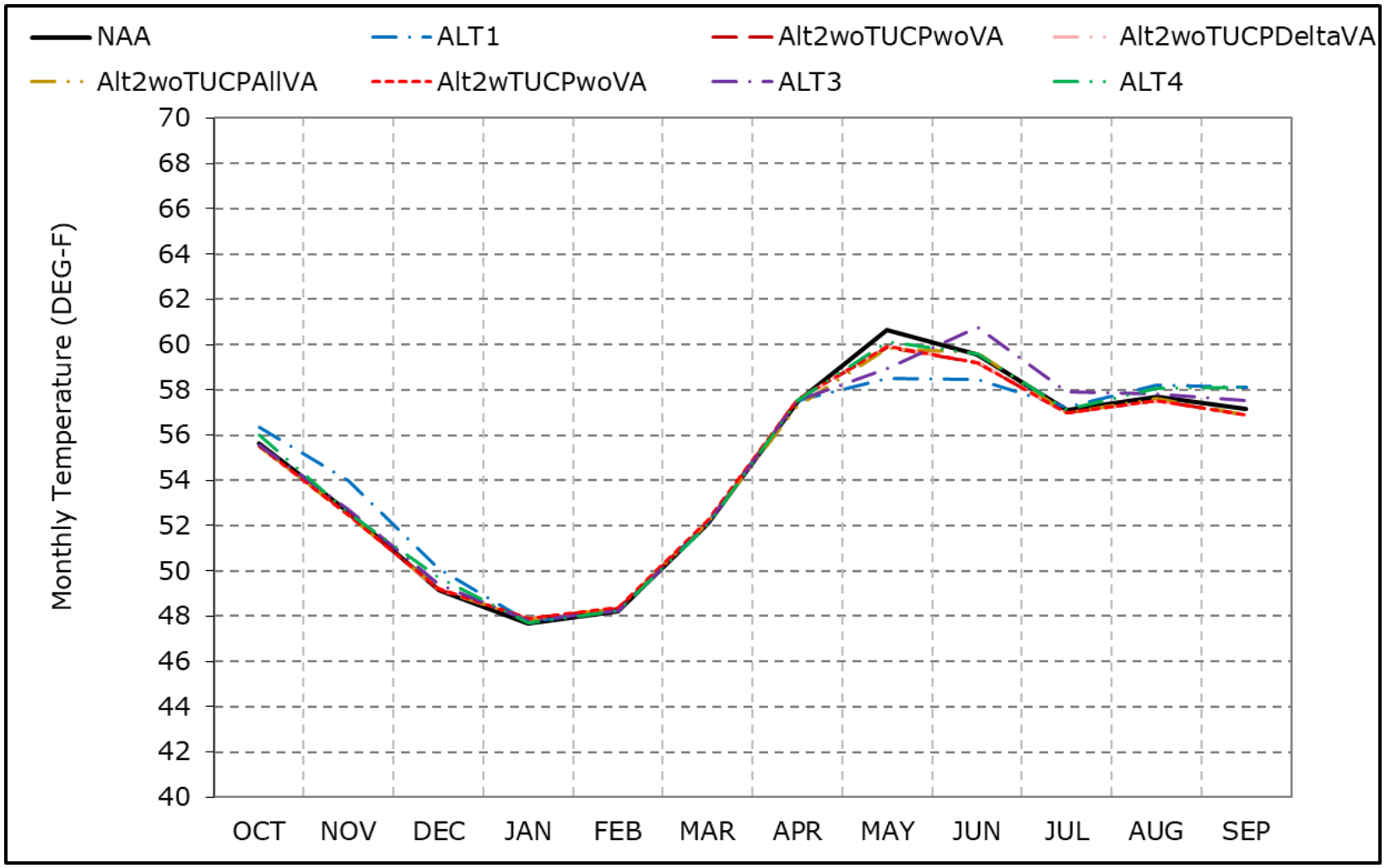
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-1. Sacramento River below Red Bluff Diversion Dam, Long-Term Average Temperature



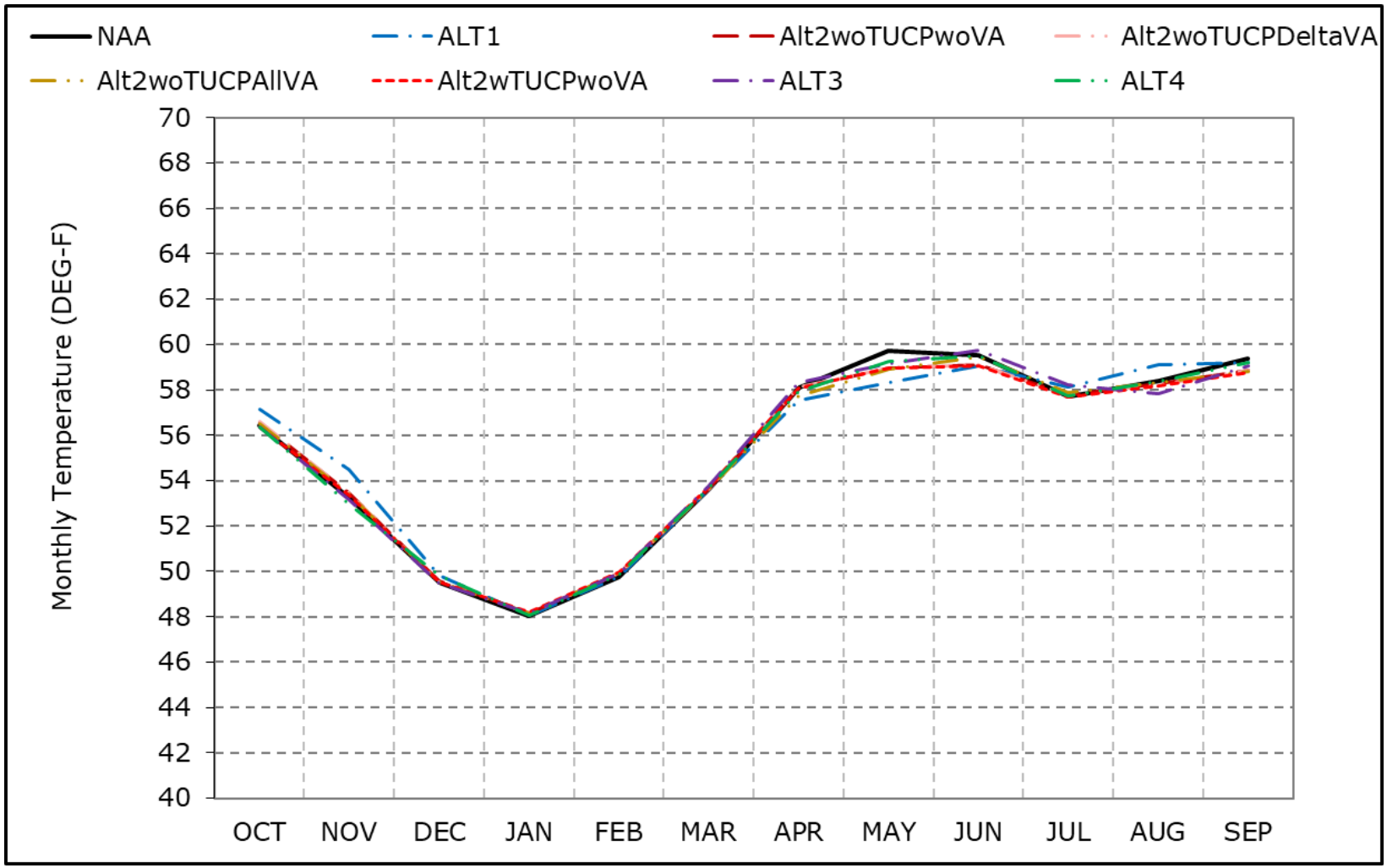
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-2. Sacramento River below Red Bluff Diversion Dam, Wet Year Average Temperature



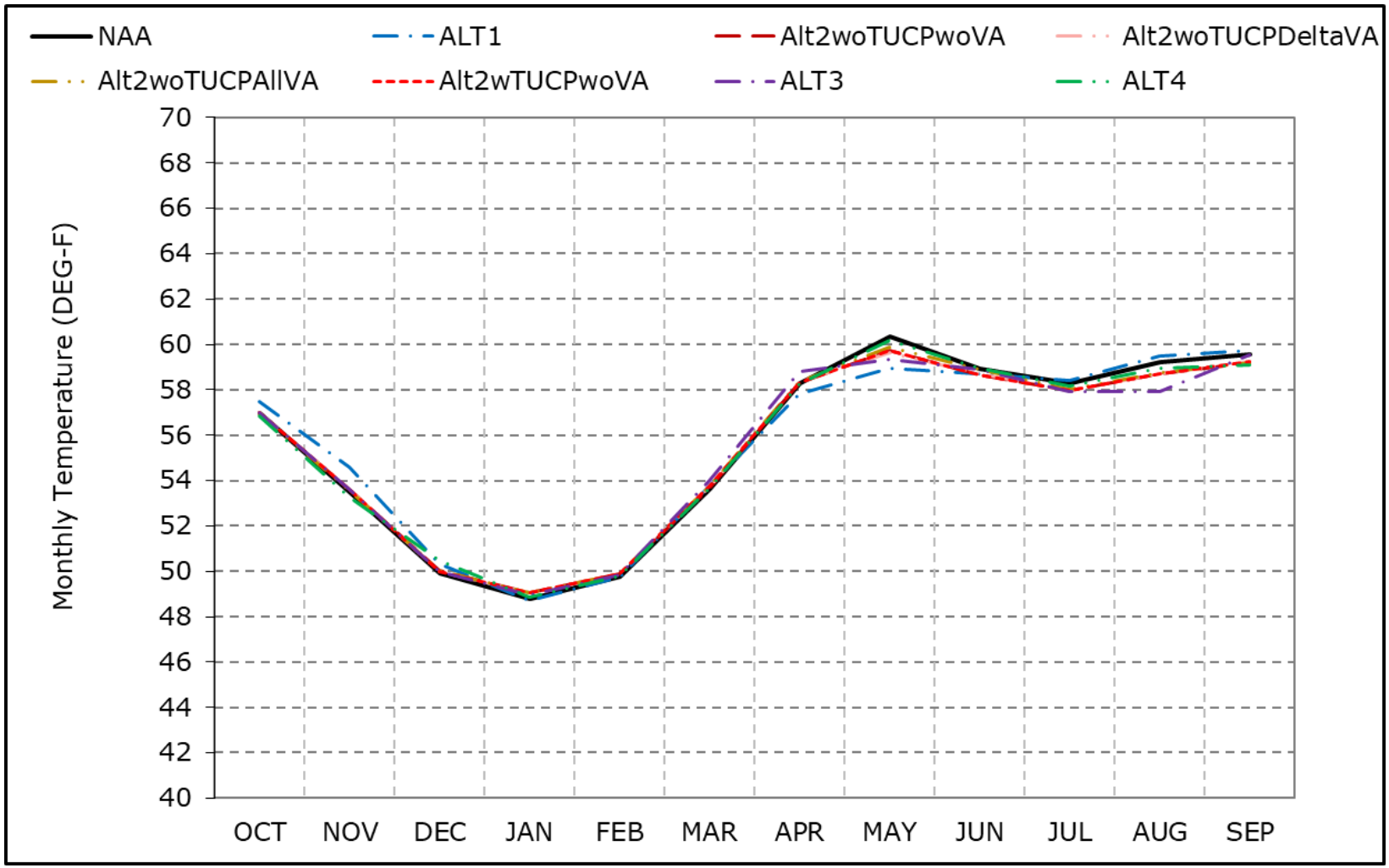
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-3. Sacramento River below Red Bluff Diversion Dam, Above Normal Year Average Temperature



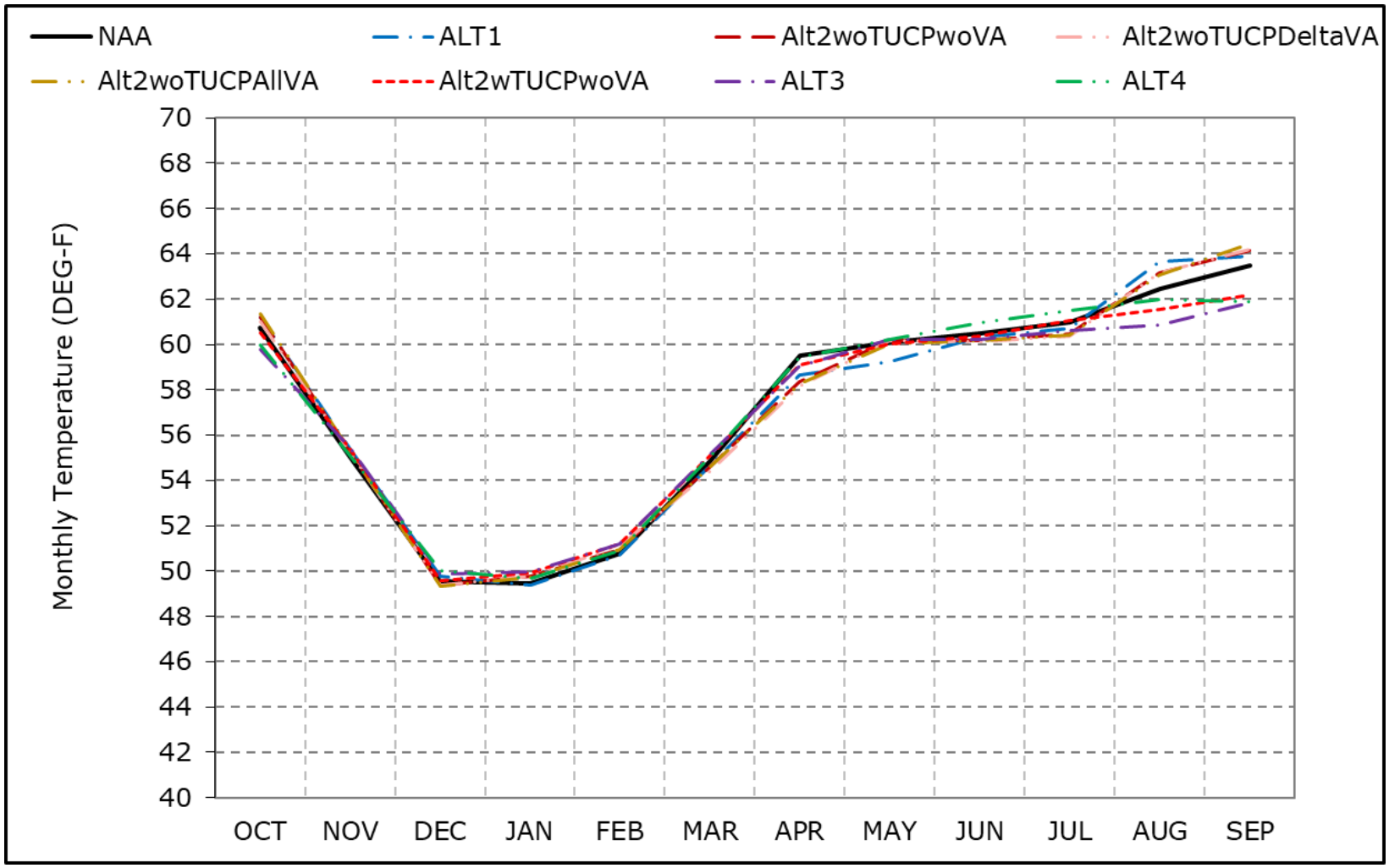
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-4. Sacramento River below Red Bluff Diversion Dam, Below Normal Year Average Temperature



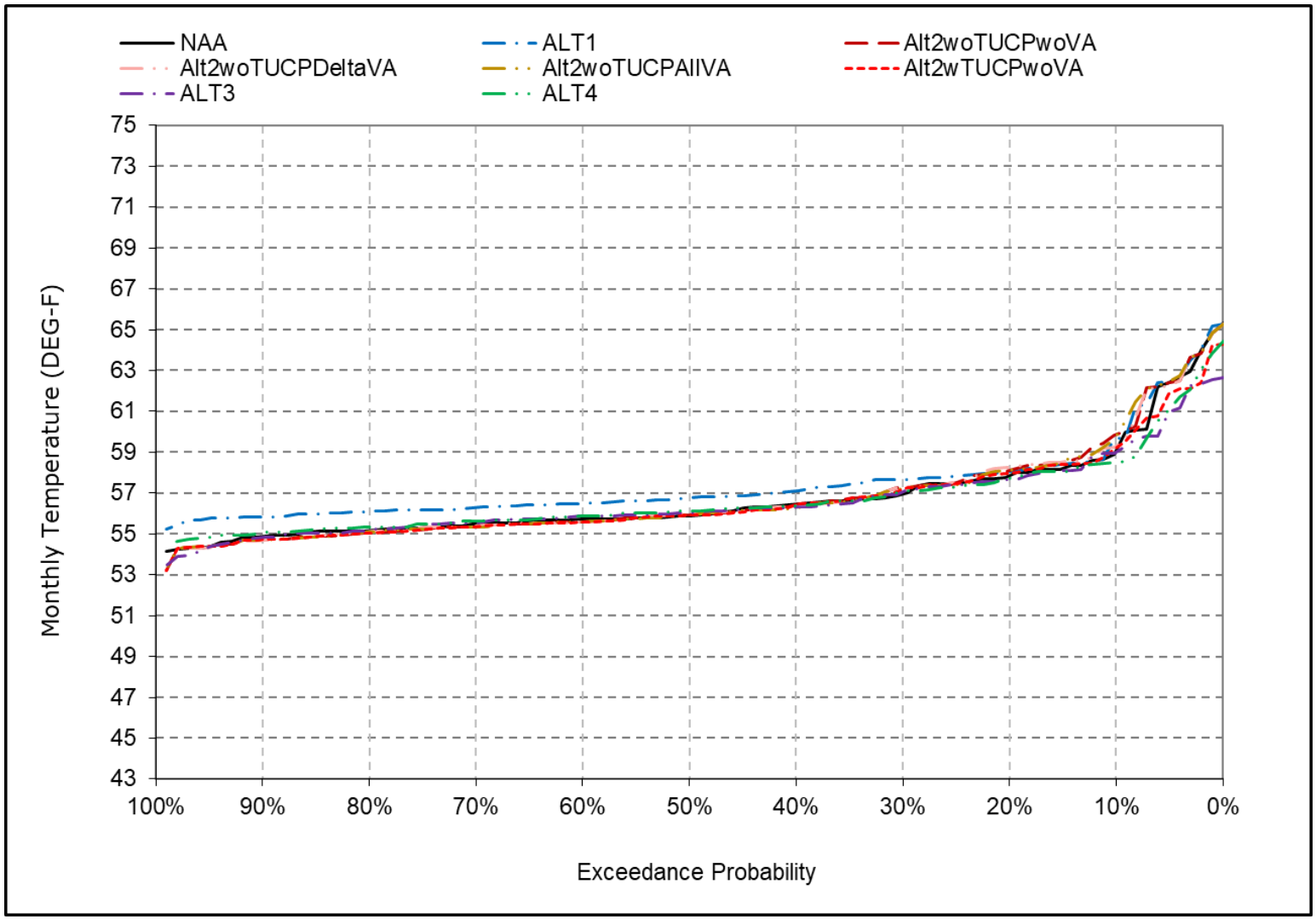
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-5. Sacramento River below Red Bluff Diversion Dam, Dry Year Average Temperature



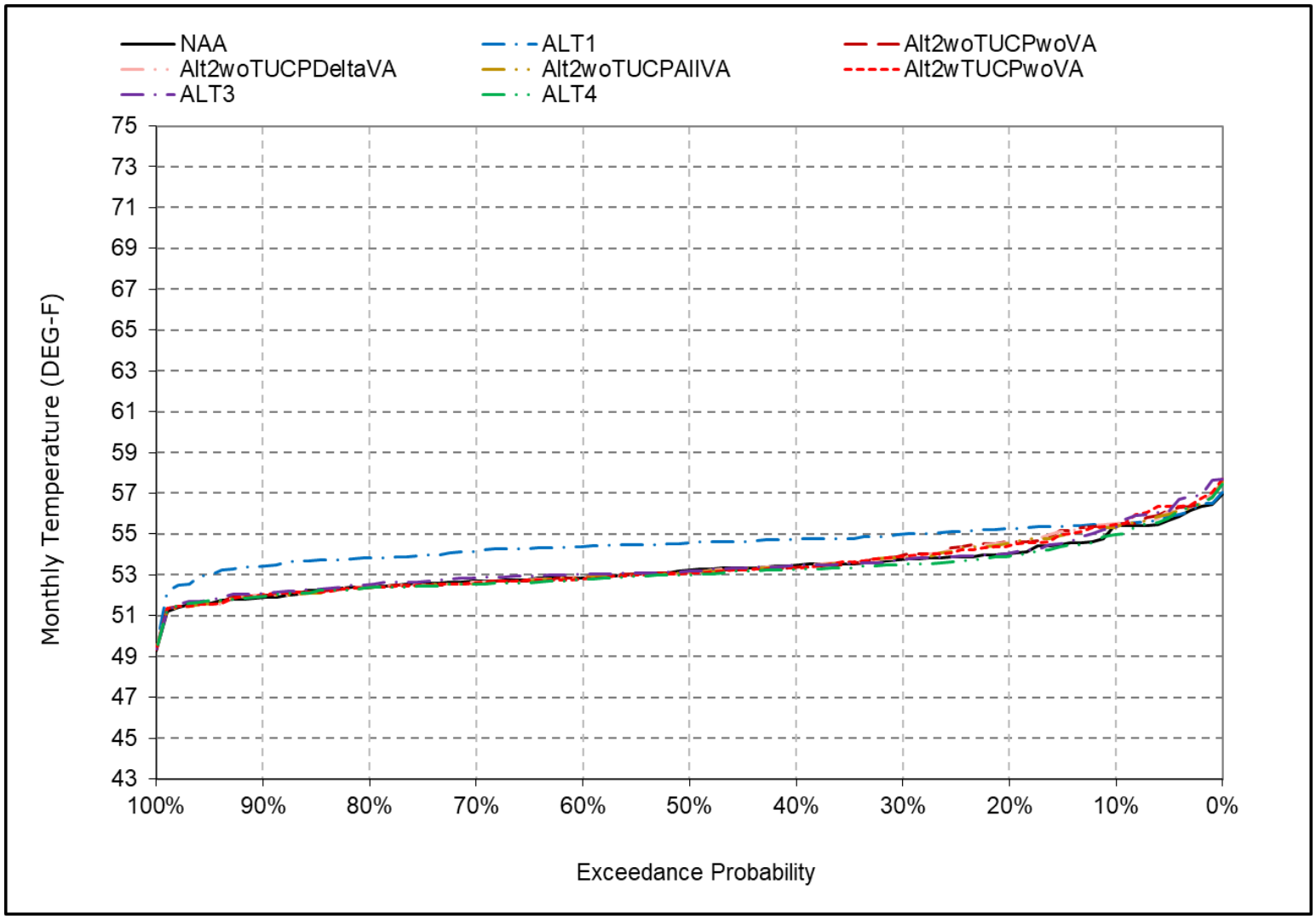
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-6. Sacramento River below Red Bluff Diversion Dam, Critical Year Average Temperature



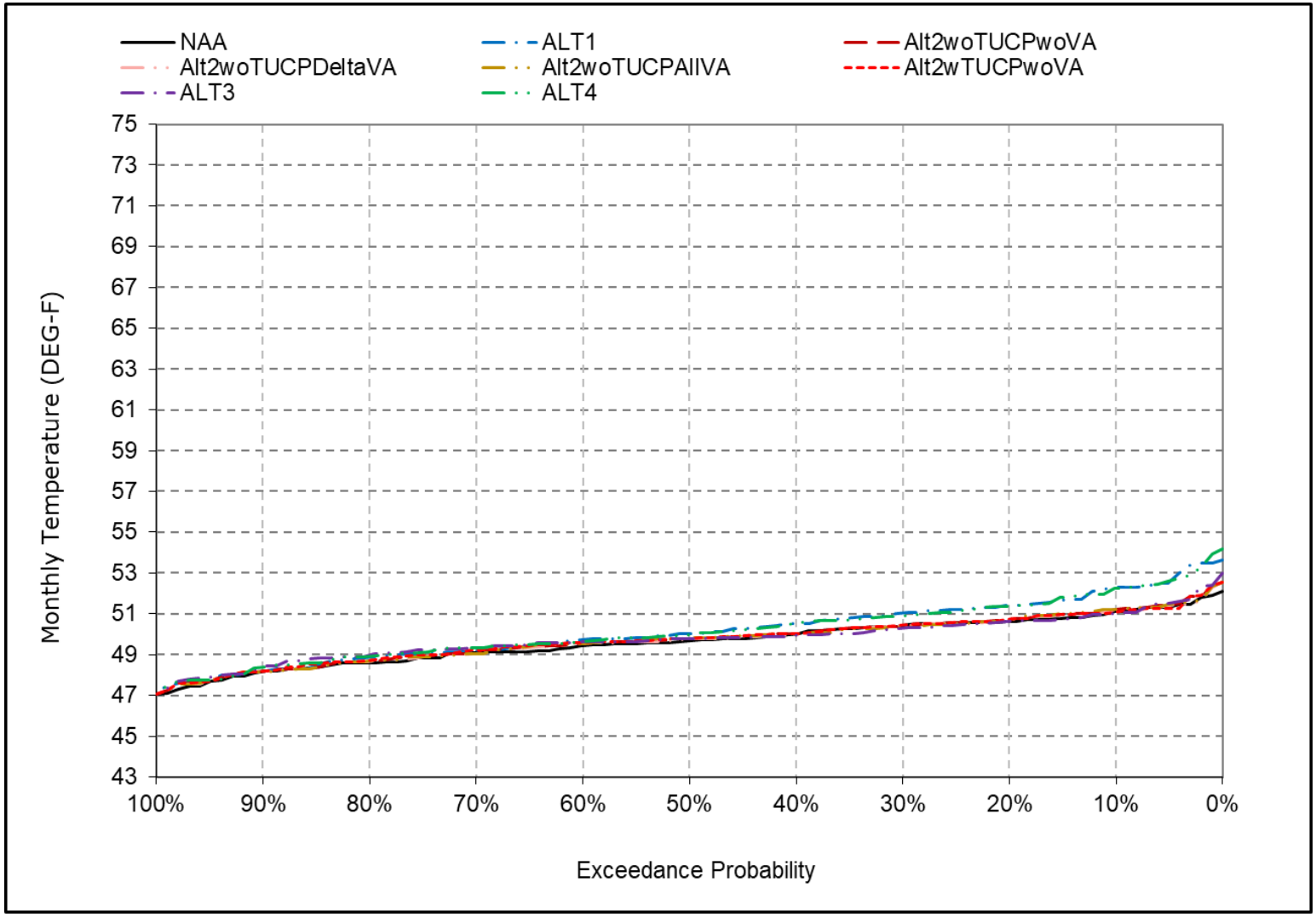
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-7. Sacramento River below Red Bluff Diversion Dam, October



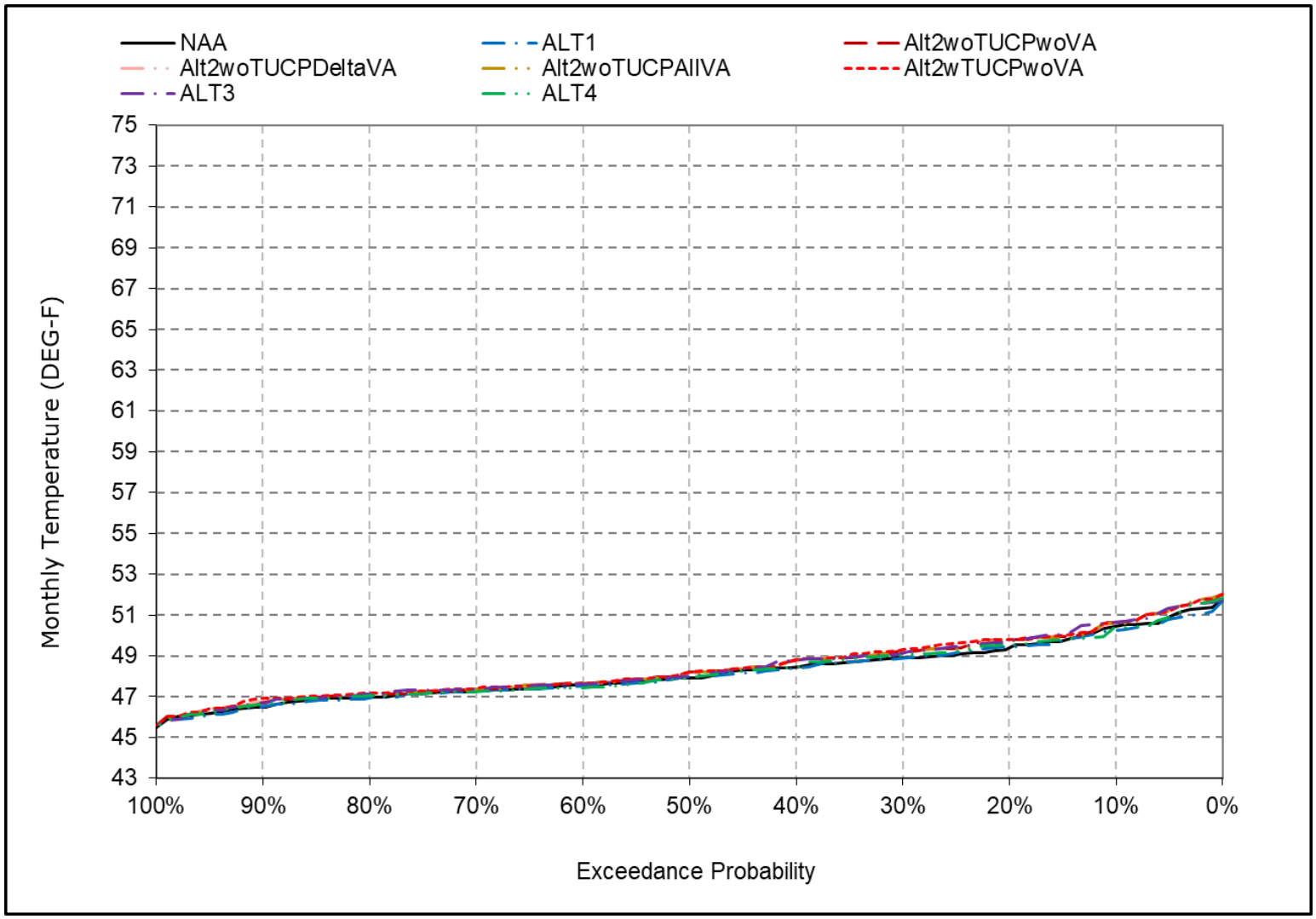
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-8. Sacramento River below Red Bluff Diversion Dam, November



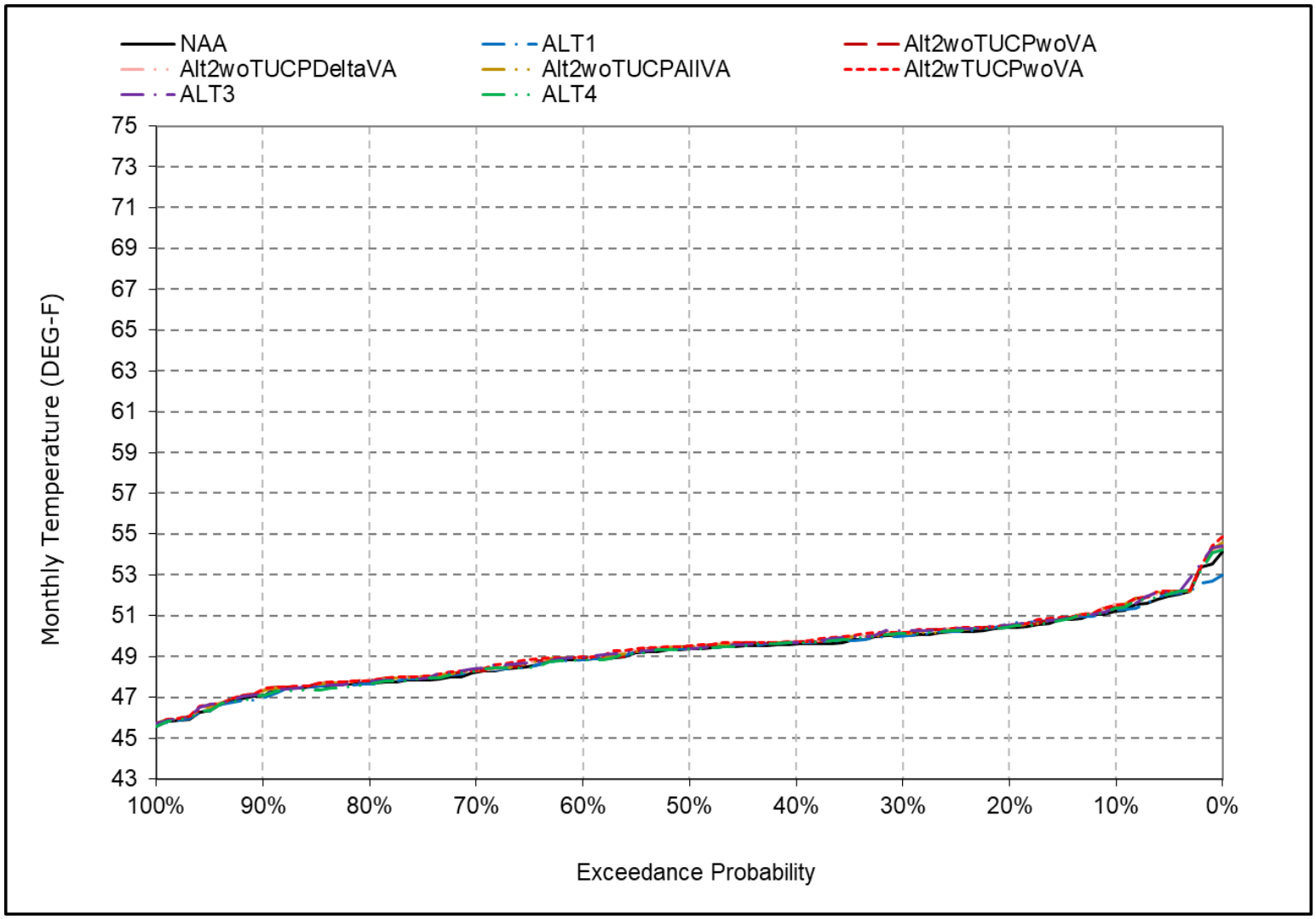
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-9. Sacramento River below Red Bluff Diversion Dam, December



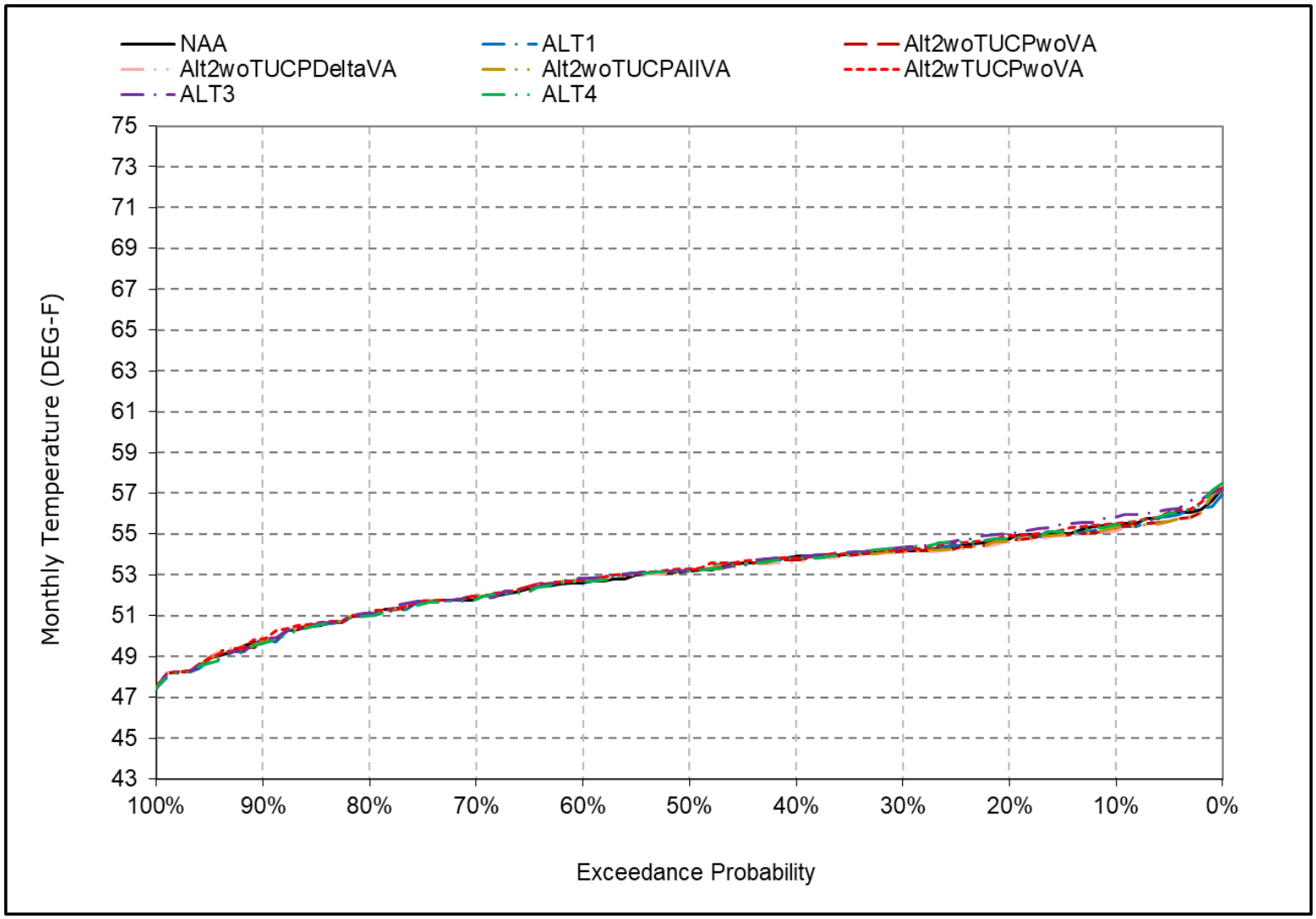
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-10. Sacramento River below Red Bluff Diversion Dam, January



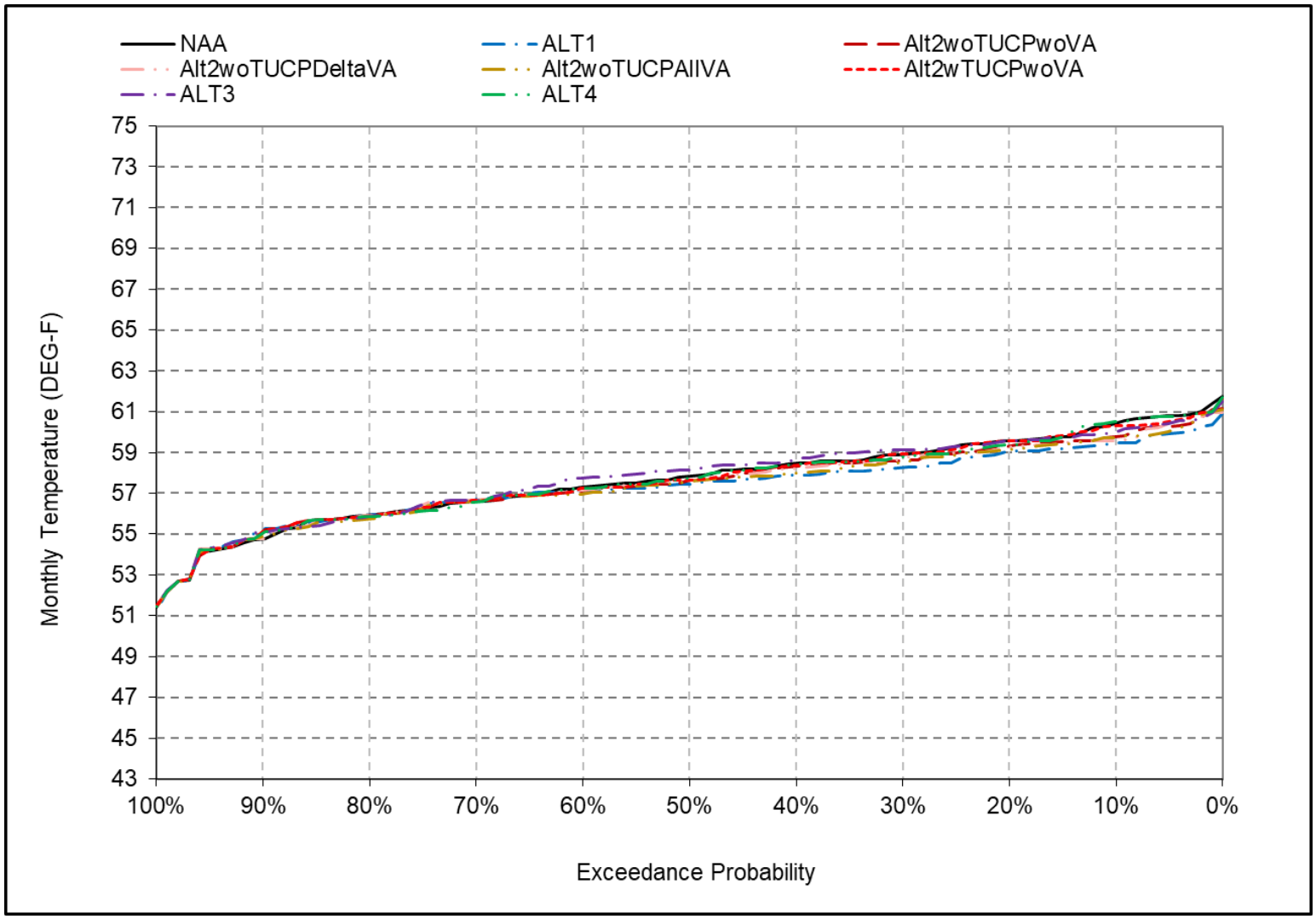
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-11. Sacramento River below Red Bluff Diversion Dam, February



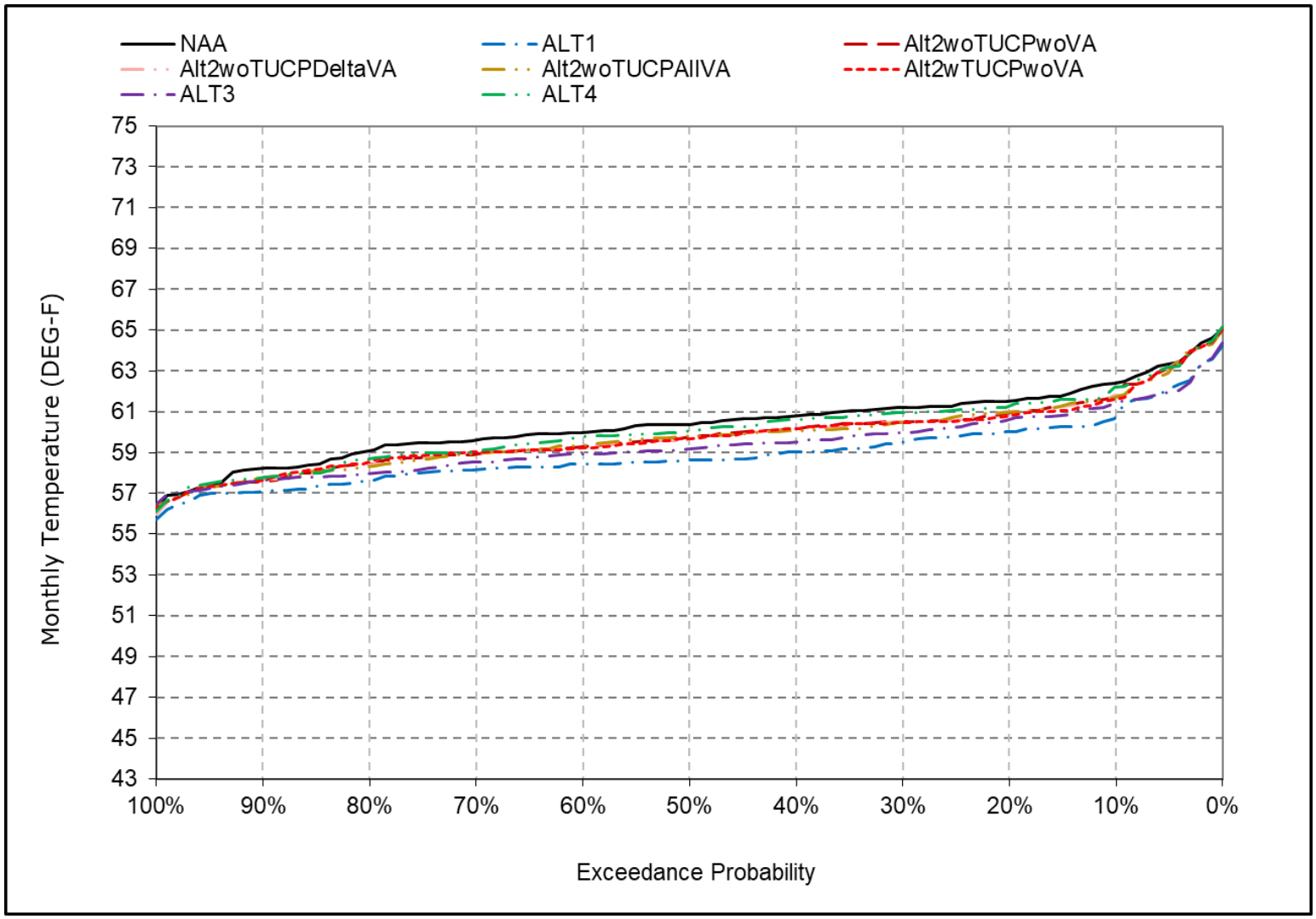
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-12. Sacramento River below Red Bluff Diversion Dam, March



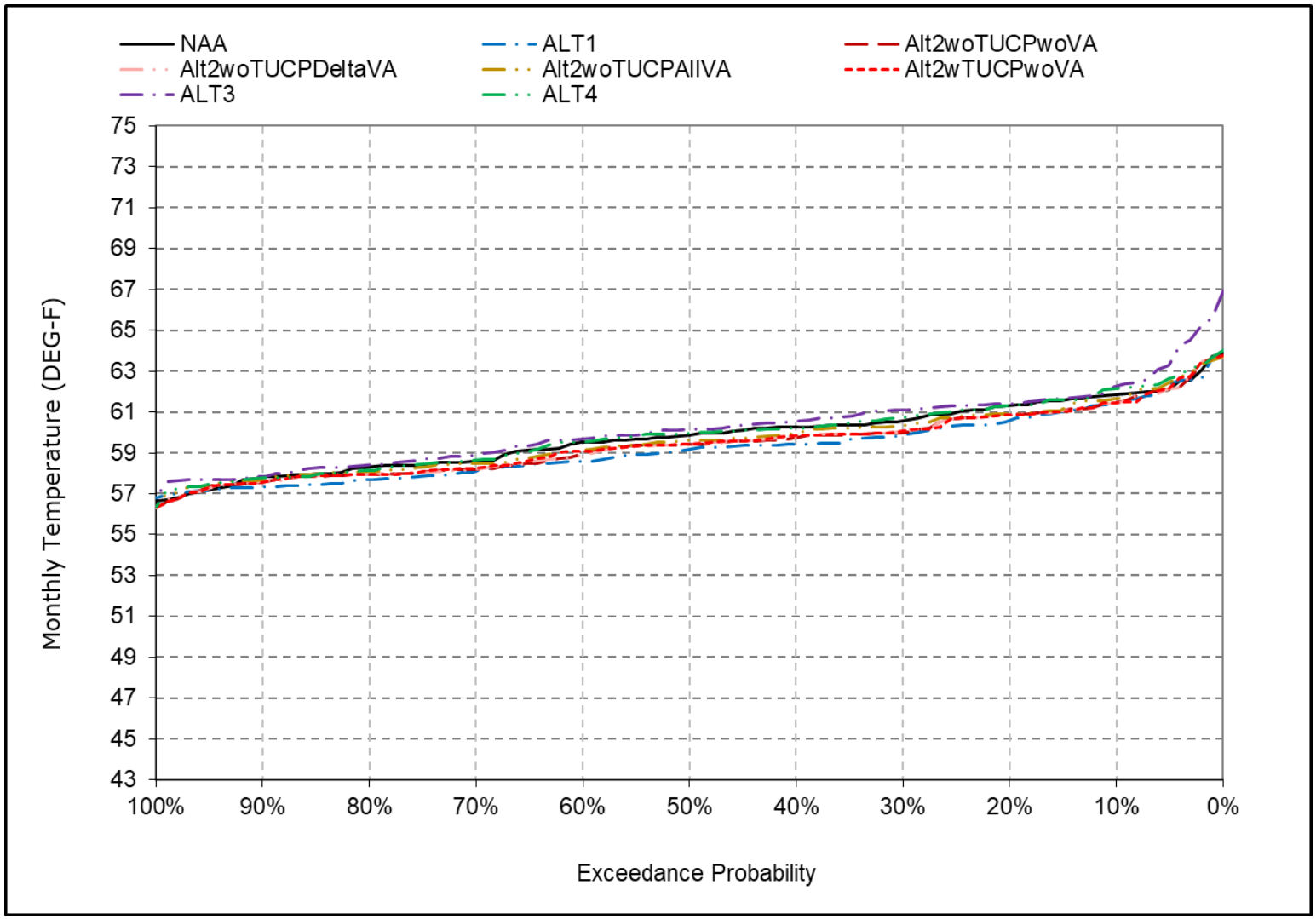
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-13. Sacramento River below Red Bluff Diversion Dam, April



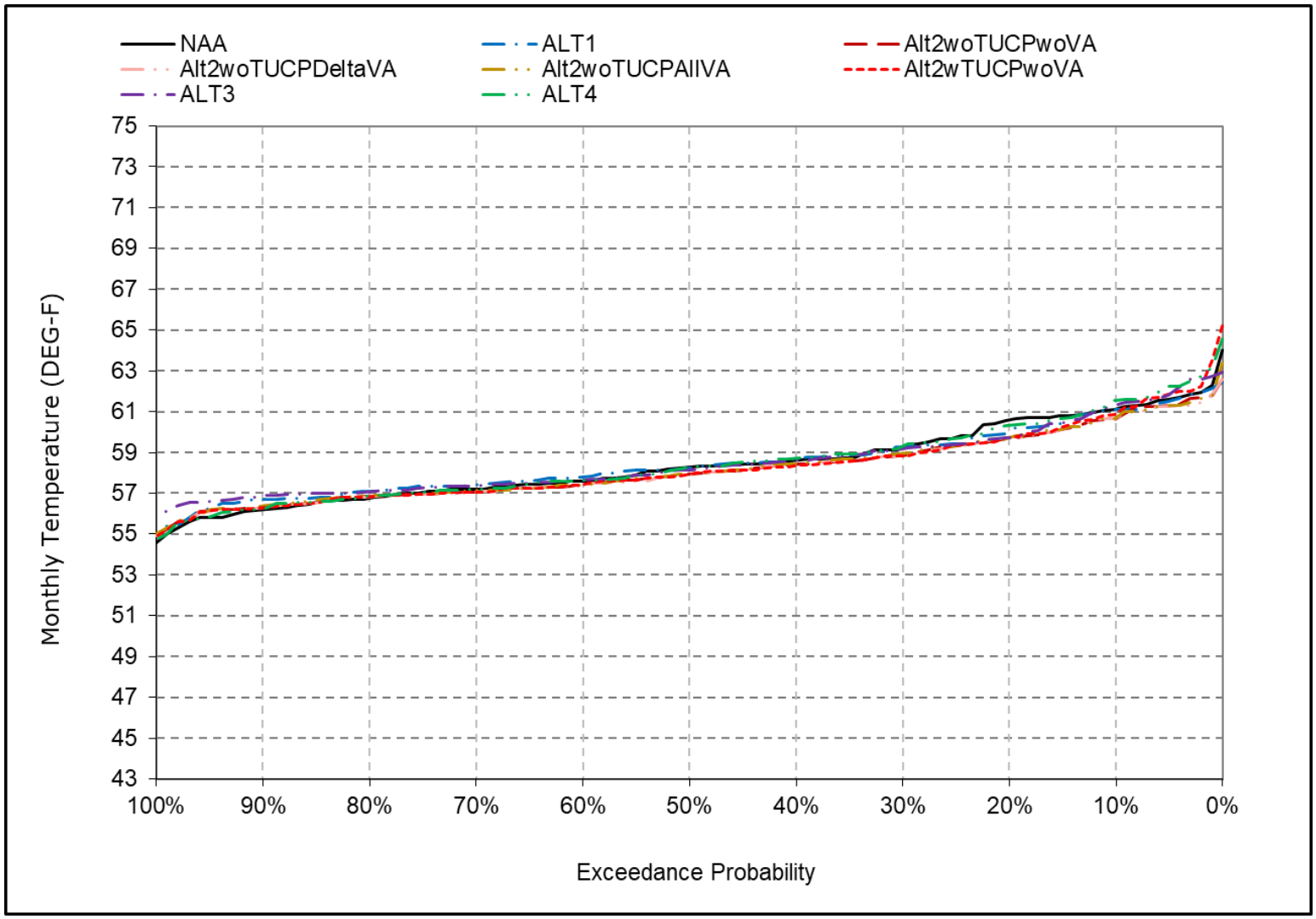
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-14. Sacramento River below Red Bluff Diversion Dam, May



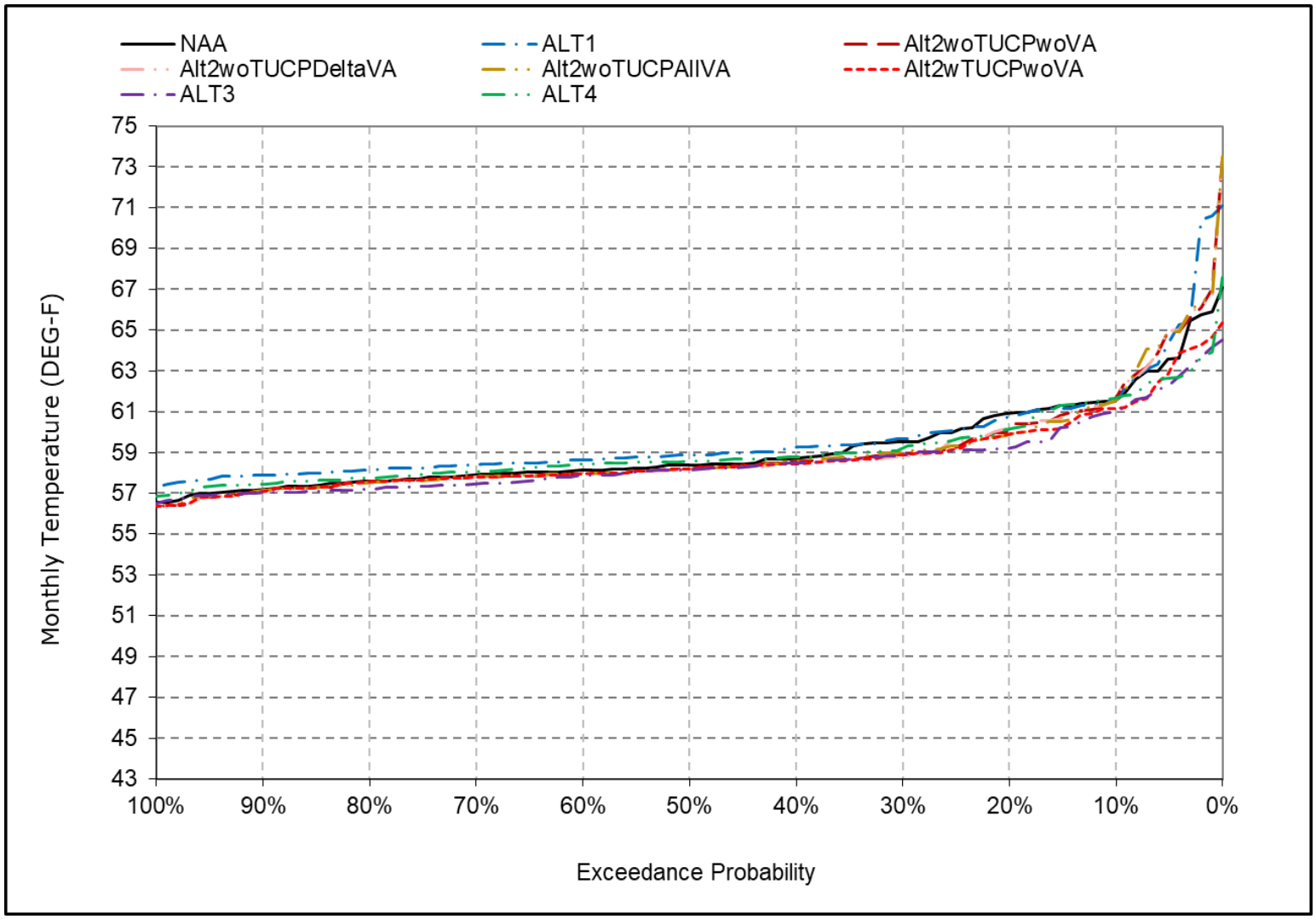
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-15. Sacramento River below Red Bluff Diversion Dam, June



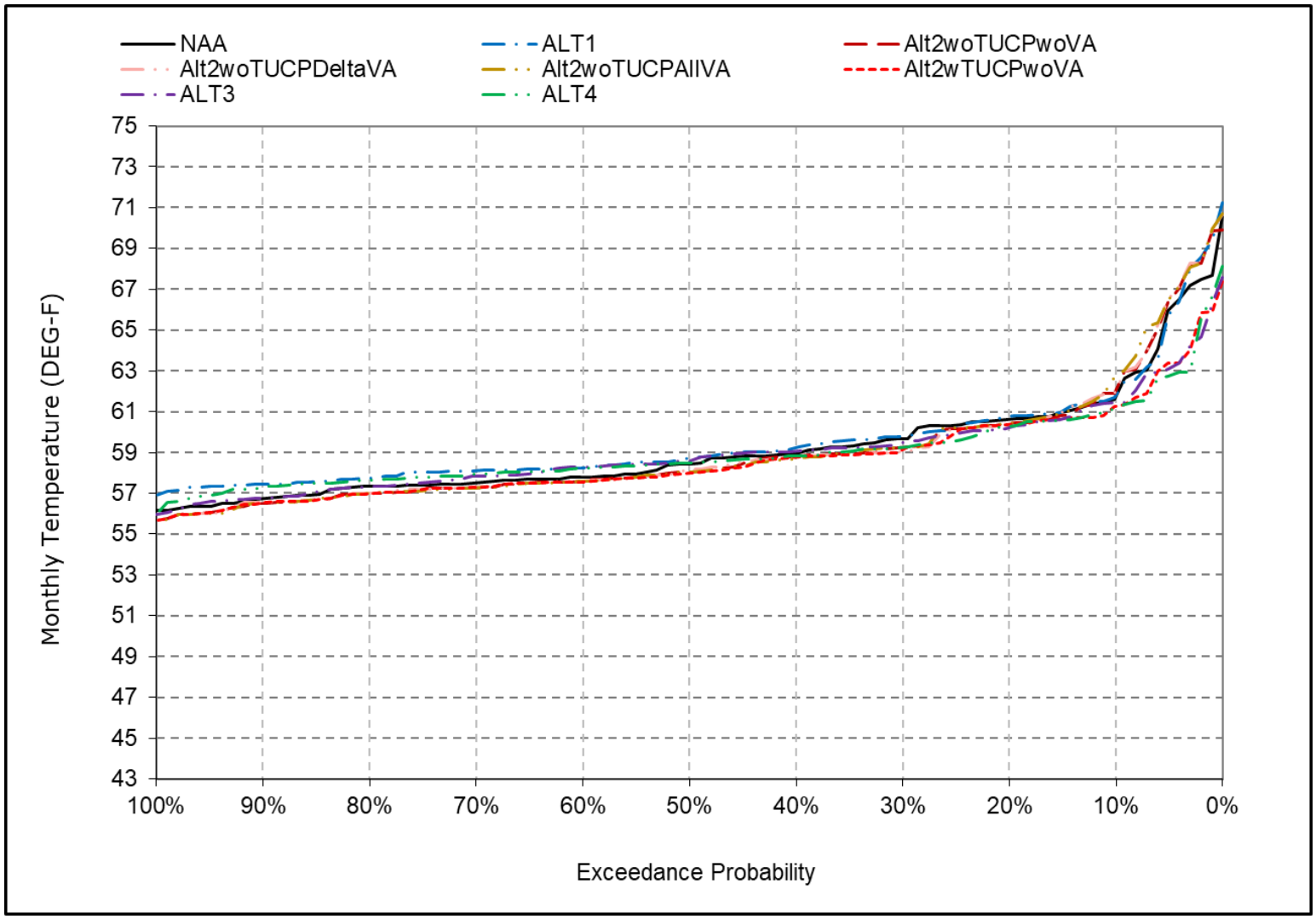
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-16. Sacramento River below Red Bluff Diversion Dam, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-17. Sacramento River below Red Bluff Diversion Dam, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-11-18. Sacramento River below Red Bluff Diversion Dam, September

Table F.2.11-12-1a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-1b. Sacramento River below Hamilton City, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	52	51	52	57	62	65	67	66	67	66
20% Exceedance	61	56	51	50	51	56	62	64	66	65	66	65
30% Exceedance	60	56	50	49	51	56	61	64	65	64	65	64
40% Exceedance	59.8	55.3	49.9	48.6	50.4	55.2	60.5	63.3	64.7	63.5	63.9	63.5
50% Exceedance	59.2	55.0	49.6	48.0	49.9	54.6	60.0	63.0	63.8	62.9	63.5	63.0
60% Exceedance	58.9	54.8	49.4	47.5	49.5	53.7	59.3	62.6	63.4	62.3	63.3	62.5
70% Exceedance	58.7	54.5	48.9	47.4	48.8	52.6	58.5	62.2	62.4	61.5	63.0	62.1
80% Exceedance	58.1	54.2	48.5	47.0	48.0	51.9	57.6	61.6	61.8	61.1	62.7	61.6
90% Exceedance	57.7	53.7	47.9	46.5	47.4	50.7	56.4	60.3	61.3	60.5	62.4	61.0
Full Simulation Period Average[a]	60	55	50	48	50	54	60	63	64	63	64	63
Wet Water Years (28%)	58	55	50	47	48	52	57	63	65	63	64	62
Above Normal Years (14%)	59	54	50	48	49	53	60	63	63	61	63	62
Below Normal Years (18%)	60	55	49	48	50	55	60	62	64	63	64	63
Dry Years (24%)	60	55	50	49	50	55	60	63	63	63	64	64
Critical (16%)	63	56	49	50	52	57	62	63	65	65	68	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-1c. Sacramento River below Hamilton City, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.4	1.0	0.1	0.1	-0.2	-0.6	-1.2	-0.3	-0.3	0.6	-0.3
20% Exceedance	0	1	1	0	0	0	-1	-1	-1	-1	0	0
30% Exceedance	0.5	1.0	0.4	0.0	0.0	0.1	-0.7	-1.3	-0.9	0.1	0.3	-0.1
40% Exceedance	0	1	0	0	0	0	0	-1	-1	0	0	0
50% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	0
60% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	1
70% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	1
80% Exceedance	1	1	0	0	0	0	0	-1	-1	0	1	1
90% Exceedance	0.6	1.0	0.1	0.0	-0.1	-0.1	0.0	-0.8	-0.6	0.4	1.3	1.2
Full Simulation Period Average[a]	0.5	0.9	0.4	0.0	0.0	0.0	-0.2	-1.0	-0.6	0.1	0.6	0.4
Wet Water Years (28%)	0.7	1.2	0.5	-0.1	0.0	0.0	0.1	-1.1	-0.8	0.1	0.4	0.8
Above Normal Years (14%)	0.7	1.1	0.7	0.1	0.1	0.0	0.1	-1.6	-1.3	0.2	0.9	1.5
Below Normal Years (18%)	0.5	0.9	0.2	0.0	0.0	0.0	-0.4	-1.0	-0.7	0.5	0.9	-0.4
Dry Years (24%)	0.3	0.8	0.3	0.0	0.0	0.1	-0.3	-1.0	-0.2	0.2	0.2	0.1
Critical (16%)	0	0	0	0	0	0	-1	-1	0	-1	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-2a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-2b. Sacramento River below Hamilton City, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	51	51	52	57	63	66	67	66	67	66
20% Exceedance	61	55	50	50	51	56	62	65	66	65	65	65
30% Exceedance	60	55	50	49	51	56	61	65	66	64	64	64
40% Exceedance	59.4	54.2	49.7	48.7	50.6	55.2	60.5	64.3	65.2	63.3	63.5	63.2
50% Exceedance	58.7	53.8	49.4	48.2	50.0	54.5	60.0	63.8	64.4	62.6	62.9	62.4
60% Exceedance	58.1	53.6	49.2	47.6	49.5	53.6	59.4	63.4	63.7	61.8	62.5	61.7
70% Exceedance	57.9	53.4	48.8	47.4	48.9	52.9	58.4	62.7	62.8	61.3	62.4	61.1
80% Exceedance	57.3	53.2	48.4	47.1	48.1	51.9	57.6	62.1	62.5	60.8	61.8	60.6
90% Exceedance	56.8	52.8	47.9	46.8	47.6	50.8	56.4	60.9	61.9	60.3	61.1	59.7
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	64	63	64	63
Wet Water Years (28%)	57	54	50	48	49	52	57	64	65	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	64	61	62	60
Below Normal Years (18%)	59	54	49	48	51	55	60	63	64	62	63	63
Dry Years (24%)	60	54	50	49	50	55	61	64	63	63	63	64
Critical (16%)	63	56	49	50	52	57	62	64	65	65	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-2c. Sacramento River below Hamilton City, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.2	0.2	0.2	0.2	-0.2	-0.4	-0.3	0.0	-0.1	0.7	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.3	0.1	0.2	0.1	-0.1	-0.4	-0.4	-0.3	-0.1	-0.4	-0.5
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	-0.4	0.1	0.0	0.3	0.1	0.0	0.0	-0.2	0.0	0.1	0.0	-0.2
Full Simulation Period Average[a]	0.0	0.1	0.1	0.1	0.1	0.0	-0.2	-0.3	-0.2	-0.1	0.0	-0.2
Wet Water Years (28%)	-0.2	0.1	0.2	0.1	0.1	0.0	0.0	-0.4	-0.3	-0.1	-0.1	-0.2
Above Normal Years (14%)	-0.2	-0.1	0.0	0.2	0.1	0.0	0.0	-0.5	-0.3	-0.1	-0.1	-0.3
Below Normal Years (18%)	0.1	0.1	0.1	0.1	0.1	0.0	0.0	-0.5	-0.4	0.2	0.0	-0.6
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.0	0.0	-0.3	-0.2	-0.2	-0.4	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	0	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-3a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-3b. Sacramento River below Hamilton City, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	51	51	52	57	62	66	67	66	67	66
20% Exceedance	61	55	50	50	51	56	62	65	66	65	65	65
30% Exceedance	60	55	50	49	51	55	61	65	66	64	64	64
40% Exceedance	59.4	54.2	49.7	48.7	50.6	55.2	60.5	64.2	65.2	63.3	63.3	63.2
50% Exceedance	58.8	53.8	49.4	48.2	50.0	54.5	60.1	63.8	64.4	62.6	62.8	62.4
60% Exceedance	58.1	53.6	49.2	47.6	49.5	53.7	59.5	63.5	63.7	61.7	62.5	61.7
70% Exceedance	57.8	53.4	48.8	47.4	48.9	52.9	58.4	62.7	62.8	61.3	62.3	61.1
80% Exceedance	57.3	53.1	48.4	47.1	48.1	51.9	57.5	62.0	62.5	60.8	61.8	60.6
90% Exceedance	56.8	52.9	47.9	46.7	47.6	50.8	56.4	61.0	61.9	60.3	61.1	59.7
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	64	63	64	63
Wet Water Years (28%)	57	54	50	47	49	52	57	64	65	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	64	61	62	60
Below Normal Years (18%)	59	54	49	48	51	55	60	63	64	62	63	63
Dry Years (24%)	60	54	50	49	50	55	61	64	63	62	63	64
Critical (16%)	63	56	49	50	52	56	61	64	65	65	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-3c. Sacramento River below Hamilton City, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.2	0.1	0.1	0.4	-0.3	-0.6	-0.3	-0.1	0.0	0.7	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.1	0.2	0.1	0.2	0.1	-0.2	-0.5	-0.4	-0.3	-0.1	-0.4	-0.5
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	-0.4	0.1	0.0	0.3	0.1	0.0	0.0	-0.2	0.0	0.1	0.0	-0.1
Full Simulation Period Average[a]	0.0	0.1	0.1	0.1	0.1	-0.1	-0.2	-0.3	-0.2	-0.1	0.0	-0.1
Wet Water Years (28%)	-0.2	0.0	0.2	0.1	0.1	0.0	0.0	-0.4	-0.3	-0.1	-0.1	-0.2
Above Normal Years (14%)	-0.2	-0.1	0.0	0.2	0.1	0.0	0.0	-0.5	-0.2	-0.1	-0.1	-0.3
Below Normal Years (18%)	0.1	0.2	0.0	0.1	0.1	0.0	0.0	-0.5	-0.4	0.2	-0.1	-0.5
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.0	0.1	-0.4	-0.1	-0.2	-0.5	-0.2
Critical (16%)	0	0	0	0	0	-1	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-4a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-4b. Sacramento River below Hamilton City, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	56	51	51	52	57	62	66	67	66	67	67
20% Exceedance	61	55	50	50	51	56	62	65	67	65	65	65
30% Exceedance	60	55	50	49	51	56	61	64	66	64	64	64
40% Exceedance	59.4	54.2	49.7	48.7	50.5	55.2	60.5	64.1	65.4	63.4	63.6	63.1
50% Exceedance	58.7	53.9	49.4	48.2	50.0	54.5	59.9	63.9	64.8	62.6	62.9	62.5
60% Exceedance	58.1	53.6	49.2	47.6	49.5	53.6	59.5	63.5	64.0	61.8	62.5	61.6
70% Exceedance	57.8	53.3	48.8	47.4	48.9	52.9	58.3	62.7	63.1	61.3	62.3	61.1
80% Exceedance	57.3	53.1	48.4	47.1	48.1	51.9	57.5	61.9	62.7	60.9	61.9	60.6
90% Exceedance	56.9	52.8	47.9	46.8	47.6	50.9	56.3	60.8	62.2	60.3	61.1	59.6
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	57	54	50	47	48	52	57	64	65	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	60
Below Normal Years (18%)	59	54	49	48	51	55	60	63	64	62	63	63
Dry Years (24%)	60	54	50	49	50	55	61	64	64	63	63	64
Critical (16%)	63	56	49	50	52	57	61	64	65	65	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-4c. Sacramento River below Hamilton City, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.1	0.2	0.1	0.2	-0.2	-0.7	-0.5	0.3	0.0	0.5	0.8
20% Exceedance	0	0	0	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.2	0.3	0.1	0.2	0.1	0.0	-0.6	-0.6	0.0	0.0	-0.3	-0.4
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	-0.3	0.1	0.1	0.3	0.1	0.1	-0.1	-0.3	0.2	0.2	0.1	-0.2
Full Simulation Period Average[a]	0.0	0.0	0.1	0.1	0.1	0.0	-0.3	-0.4	0.0	-0.1	0.0	-0.1
Wet Water Years (28%)	-0.2	0.1	0.2	0.1	0.1	0.0	0.0	-0.4	-0.2	-0.1	-0.1	-0.2
Above Normal Years (14%)	-0.2	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.6	0.3	-0.1	0.0	-0.3
Below Normal Years (18%)	0.1	0.1	0.0	0.1	0.1	0.0	-0.3	-0.6	0.1	0.4	0.0	-0.6
Dry Years (24%)	-0.1	0.1	0.1	0.2	0.1	0.1	0.1	-0.1	0.2	-0.1	-0.4	-0.3
Critical (16%)	0	0	0	0	0	0	-1	0	0	-1	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-5a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-5b. Sacramento River below Hamilton City, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	51	51	52	58	63	66	67	66	67	65
20% Exceedance	61	55	50	50	51	56	62	65	66	65	65	65
30% Exceedance	60	55	50	49	51	56	62	65	66	64	64	64
40% Exceedance	59.3	54.2	49.7	48.7	50.6	55.2	60.5	64.3	65.2	63.2	63.5	63.2
50% Exceedance	58.7	53.8	49.4	48.2	50.0	54.5	60.1	63.8	64.5	62.7	62.9	62.4
60% Exceedance	58.1	53.6	49.2	47.6	49.6	53.6	59.4	63.4	63.7	61.8	62.5	61.6
70% Exceedance	57.9	53.3	48.8	47.5	48.8	53.0	58.4	62.8	62.9	61.3	62.4	61.2
80% Exceedance	57.3	53.1	48.4	47.2	48.1	52.0	57.6	62.2	62.4	60.8	61.8	60.6
90% Exceedance	56.8	52.9	47.9	46.7	47.7	50.9	56.4	60.9	61.9	60.3	61.1	59.6
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	64	63	63	63
Wet Water Years (28%)	57	54	50	47	48	52	57	64	65	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	64	61	62	60
Below Normal Years (18%)	59	54	49	48	51	55	60	63	64	62	63	63
Dry Years (24%)	60	54	50	49	50	55	61	64	63	63	63	64
Critical (16%)	63	56	49	50	52	57	62	64	65	66	67	66

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-5c. Sacramento River below Hamilton City, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.1	0.1	0.3	0.2	0.1	-0.2	-0.7	0.0	0.2	0.2	-0.9
20% Exceedance	0	0	0	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.1	0.2	0.1	0.2	0.1	0.1	0.0	-0.4	-0.4	-0.1	-0.4	-0.5
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	-0.4	0.1	0.0	0.3	0.1	0.1	0.0	-0.3	0.0	0.1	0.1	-0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.2	0.1	0.1	0.0	-0.3	-0.2	0.0	-0.2	-0.4
Wet Water Years (28%)	-0.2	0.1	0.2	0.1	0.1	0.0	0.0	-0.4	-0.3	-0.1	-0.1	-0.2
Above Normal Years (14%)	-0.2	-0.1	0.0	0.2	0.1	0.1	0.0	-0.5	-0.3	-0.1	-0.1	-0.3
Below Normal Years (18%)	-0.1	0.1	0.0	0.1	0.2	0.0	0.0	-0.5	-0.4	0.1	-0.1	-0.7
Dry Years (24%)	0.0	0.1	0.1	0.2	0.1	0.1	0.0	-0.3	-0.2	-0.1	-0.4	-0.3
Critical (16%)	0	0	0	0	0	0	0	0	0	0	0	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-6a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-6b. Sacramento River below Hamilton City, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	51	51	52	58	63	66	68	67	66	66
20% Exceedance	61	55	50	50	51	57	62	65	67	65	64	65
30% Exceedance	60	55	50	49	51	56	62	64	67	64	64	64
40% Exceedance	59.4	54.3	49.6	48.7	50.4	55.1	61.6	63.8	66.1	63.5	63.0	63.5
50% Exceedance	58.8	54.1	49.4	48.1	50.0	54.3	60.7	63.2	65.2	62.6	62.8	62.9
60% Exceedance	58.4	53.8	49.1	47.7	49.5	53.6	59.6	62.8	64.6	62.0	62.2	62.2
70% Exceedance	58.2	53.5	48.9	47.5	48.9	52.9	58.2	62.0	63.6	61.6	61.4	61.7
80% Exceedance	57.5	53.2	48.7	47.1	48.1	51.9	57.3	61.4	63.1	61.3	61.2	61.0
90% Exceedance	56.8	52.8	47.9	46.5	47.6	50.8	56.1	60.6	62.3	60.9	60.8	60.1
Full Simulation Period Average[a]	59	54	49	48	50	54	60	63	65	63	63	63
Wet Water Years (28%)	58	54	50	47	48	52	57	62	67	63	64	61
Above Normal Years (14%)	58	53	49	48	49	53	60	63	66	63	62	61
Below Normal Years (18%)	59	54	49	48	51	55	61	63	65	63	62	63
Dry Years (24%)	60	54	50	49	50	55	61	64	64	62	62	64
Critical (16%)	62	56	49	50	52	57	62	65	65	66	66	66

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-6c. Sacramento River below Hamilton City, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.0	0.5	0.3	0.3	0.2	-0.7	0.8	0.4	-0.3	-0.2
20% Exceedance	0	0	0	0	0	0	0	0	1	0	-2	0
30% Exceedance	0.2	0.1	-0.1	0.1	0.1	0.2	0.2	-0.9	0.6	0.2	-0.6	-0.3
40% Exceedance	0	0	0	0	0	0	1	-1	1	0	-1	0
50% Exceedance	0	0	0	0	0	0	1	-1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	-1	0	0	-1	1
70% Exceedance	0	0	0	0	0	0	0	-1	0	0	-1	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	1	-1	0
90% Exceedance	-0.3	0.0	0.1	0.1	0.1	0.0	-0.3	-0.5	0.3	0.7	-0.2	0.2
Full Simulation Period Average[a]	-0.1	0.1	0.1	0.1	0.1	0.1	0.2	-0.8	0.6	0.3	-0.6	0.0
Wet Water Years (28%)	0.1	0.1	0.1	0.1	0.0	0.0	0.0	-1.7	1.2	0.4	0.5	0.6
Above Normal Years (14%)	0.0	0.1	0.2	0.1	0.0	0.0	0.1	-1.7	1.6	1.3	0.2	0.5
Below Normal Years (18%)	0.0	-0.1	0.0	0.1	0.1	0.1	0.4	-0.3	0.4	0.8	-0.7	-0.4
Dry Years (24%)	0.0	0.2	0.1	0.1	0.0	0.3	0.7	-0.5	0.1	-0.3	-1.8	0.1
Critical (16%)	-1	0	0	0	0	0	0	1	0	0	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-7a. Sacramento River below Hamilton City, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62.1	55.8	50.8	50.4	51.9	57.5	63.0	66.3	67.1	66.2	66.7	66.3
20% Exceedance	60.7	55.0	50.4	49.6	51.2	56.3	62.3	65.5	66.5	65.4	65.9	65.0
30% Exceedance	59.9	54.6	49.9	49.1	50.6	55.7	61.7	65.1	66.1	64.1	64.4	64.2
40% Exceedance	59.4	54.3	49.6	48.6	50.4	55.2	60.7	64.6	65.4	63.5	63.6	63.4
50% Exceedance	59	54	49	48	50	54	60	64	65	63	63	63
60% Exceedance	58	54	49	48	49	54	59	64	64	62	63	62
70% Exceedance	58	53	49	47	49	53	58	63	63	61	62	61
80% Exceedance	57	53	48	47	48	52	58	62	63	61	62	61
90% Exceedance	57	53	48	46	48	51	56	61	62	60	61	60
Full Simulation Period Average[a]	59	54	49	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	58	53	49	48	49	53	59	64	65	61	62	61
Below Normal Years (18%)	59	54	49	48	50	55	60	63	64	62	63	64
Dry Years (24%)	59.8	54.3	49.6	48.9	50.4	55.0	60.8	64.1	63.6	62.7	63.9	63.8
Critical (16%)	63	56	49	50	52	57	63	64	65	66	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-7b. Sacramento River below Hamilton City, Alternative 4, Monthly Temperature (°F)

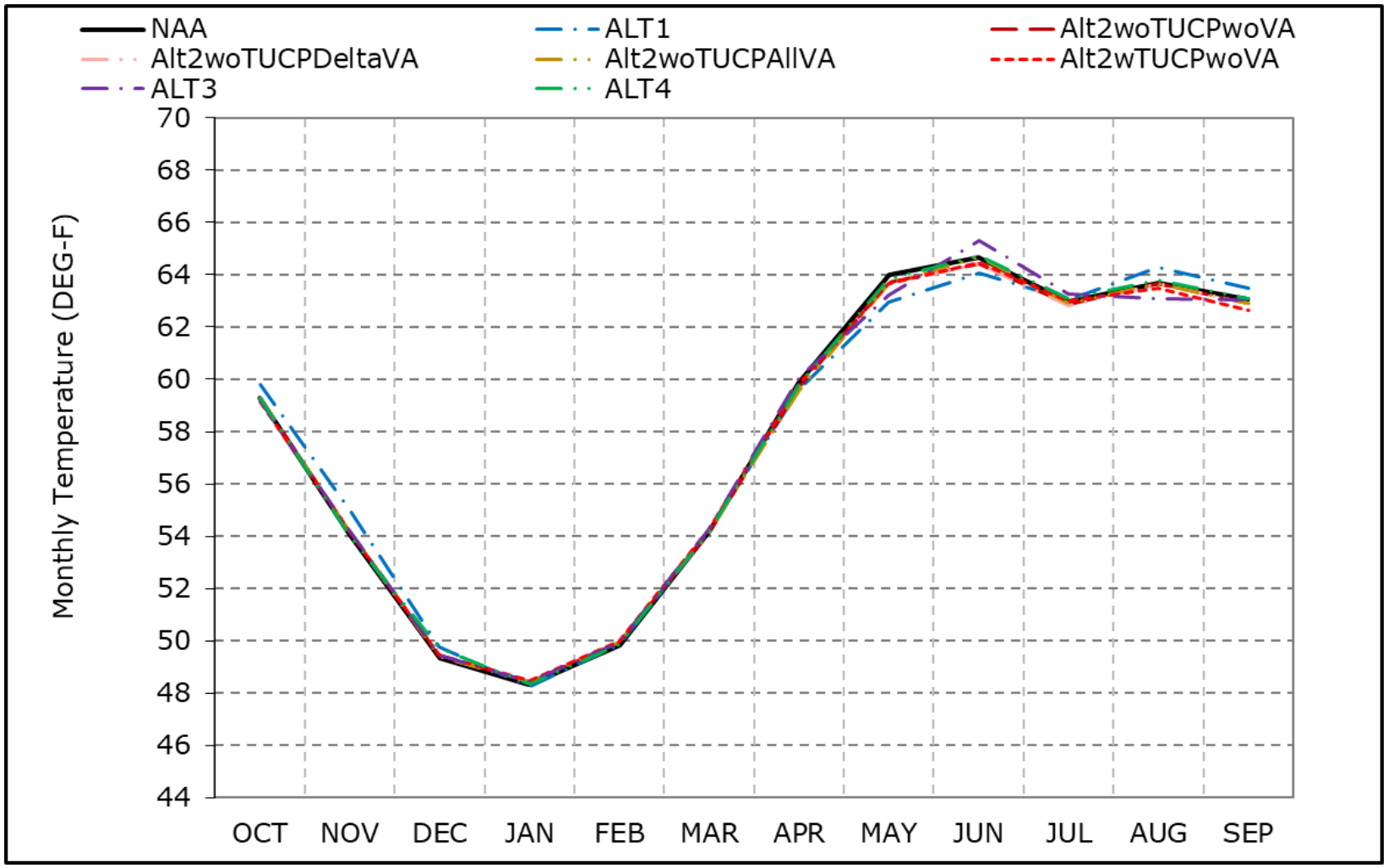
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	56	52	50	52	57	63	66	67	67	67	66
20% Exceedance	61	55	51	50	51	56	62	65	66	65	65	65
30% Exceedance	60	54	50	49	51	56	62	65	66	64	64	64
40% Exceedance	59.4	54.0	49.9	48.7	50.5	55.1	60.6	64.6	65.5	63.6	63.7	63.2
50% Exceedance	58.9	53.8	49.5	48.1	49.9	54.5	60.0	64.0	64.8	63.0	63.3	62.8
60% Exceedance	58.7	53.6	49.2	47.5	49.5	53.6	59.3	63.6	64.2	61.8	63.0	62.4
70% Exceedance	58.2	53.3	48.9	47.3	48.7	52.7	58.3	63.0	63.1	61.3	62.6	61.9
80% Exceedance	57.6	53.1	48.5	47.1	48.0	51.9	57.5	62.3	62.6	60.9	62.1	61.5
90% Exceedance	57.2	52.8	48.0	46.5	47.6	50.7	56.4	60.8	62.0	60.3	61.5	60.9
Full Simulation Period Average[a]	59	54	50	48	50	54	60	64	65	63	64	63
Wet Water Years (28%)	58	54	50	47	48	52	57	64	66	63	63	61
Above Normal Years (14%)	59	53	49	48	49	53	59	64	65	61	62	62
Below Normal Years (18%)	59	54	49	48	51	55	60	63	64	62	63	64
Dry Years (24%)	60	54	50	49	50	55	61	64	64	63	64	63
Critical (16%)	62	56	50	50	52	57	63	65	66	67	67	66

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-12-7c. Sacramento River below Hamilton City, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

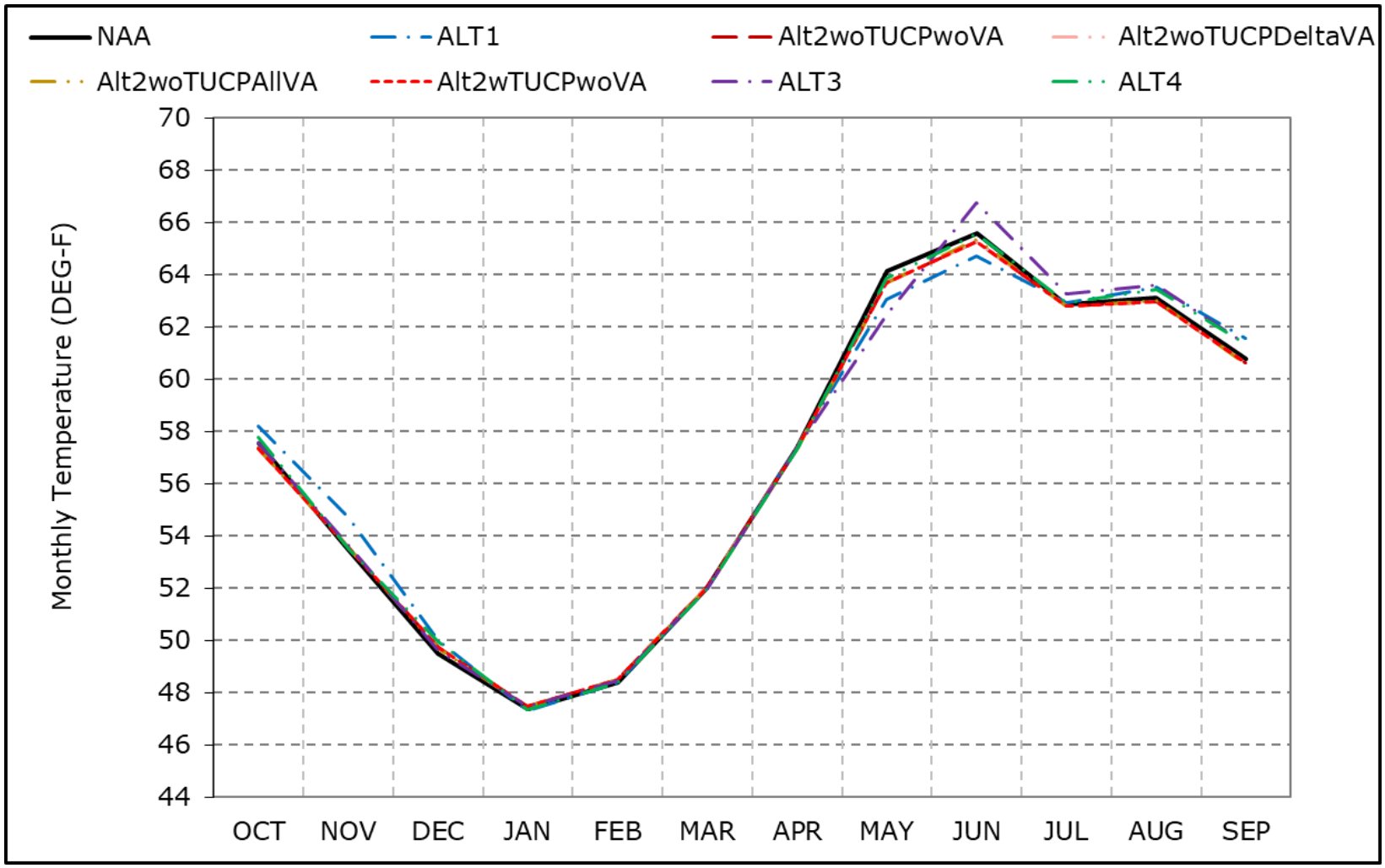
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.5	-0.3	0.8	0.0	0.2	0.0	0.0	-0.2	0.2	0.4	0.2	-0.7
20% Exceedance	0	0	0	0	0	0	0	0	0	0	-1	0
30% Exceedance	0.1	-0.1	0.4	0.0	0.1	0.0	-0.1	-0.2	-0.1	0.1	-0.1	-0.3
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.1	0.2	0.0	0.0	-0.1	0.0	-0.3	0.0	0.1	0.4	1.0
Full Simulation Period Average[a]	0.0	-0.1	0.4	0.0	0.0	0.0	-0.1	-0.2	0.1	0.1	0.1	0.0
Wet Water Years (28%)	0.2	0.0	0.4	0.0	0.0	-0.1	0.0	-0.3	0.0	0.1	0.3	0.6
Above Normal Years (14%)	0.6	0.0	0.4	0.0	0.0	-0.1	0.0	-0.3	-0.1	0.0	0.5	1.4
Below Normal Years (18%)	-0.1	-0.2	0.2	0.0	0.1	0.0	-0.1	-0.3	-0.1	0.0	-0.1	-0.2
Dry Years (24%)	-0.1	-0.1	0.4	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.2	-0.4
Critical (16%)	-1	0	0	0	0	0	0	0	1	1	0	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



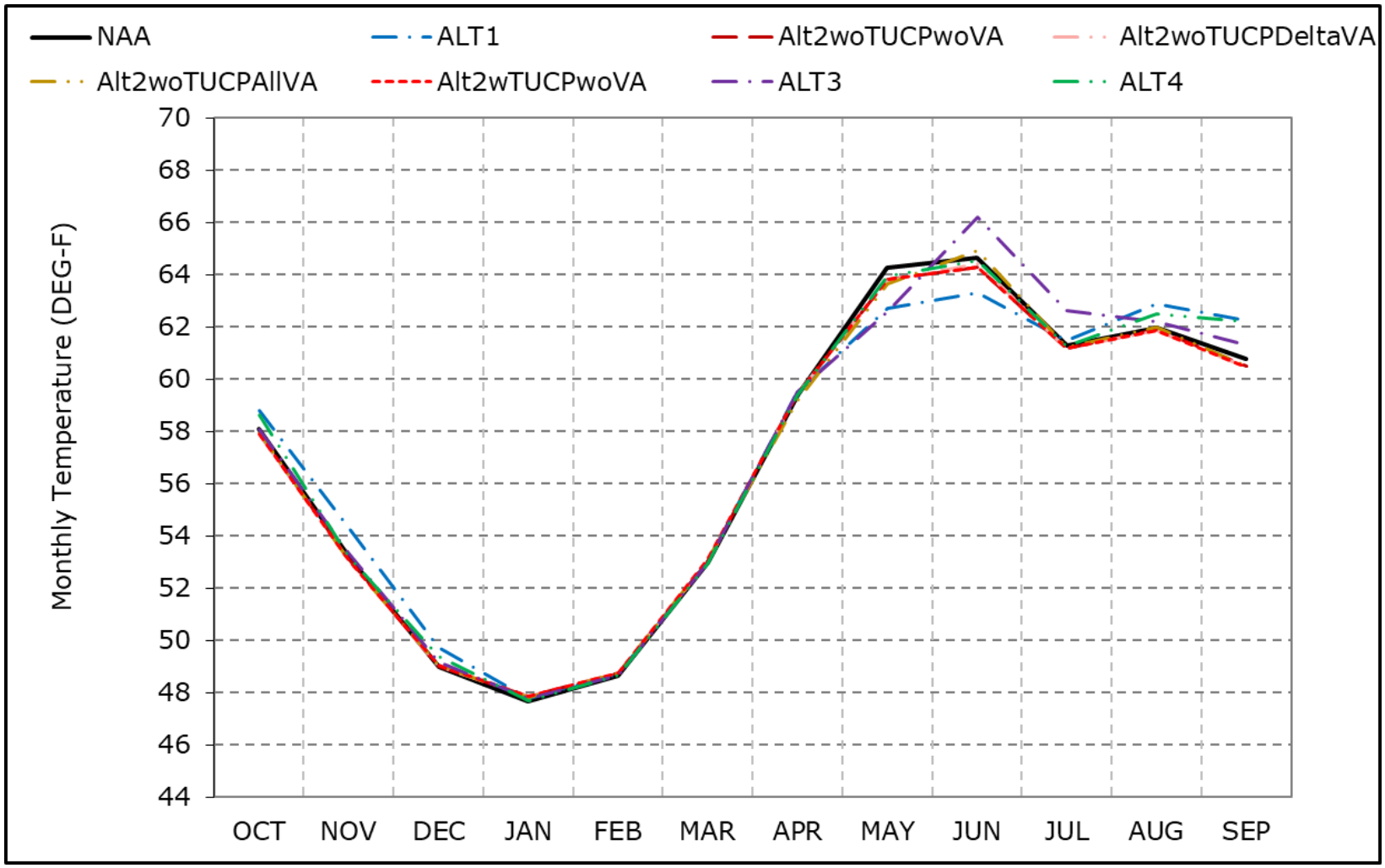
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-1. Sacramento River below Hamilton City, Long-Term Average Temperature



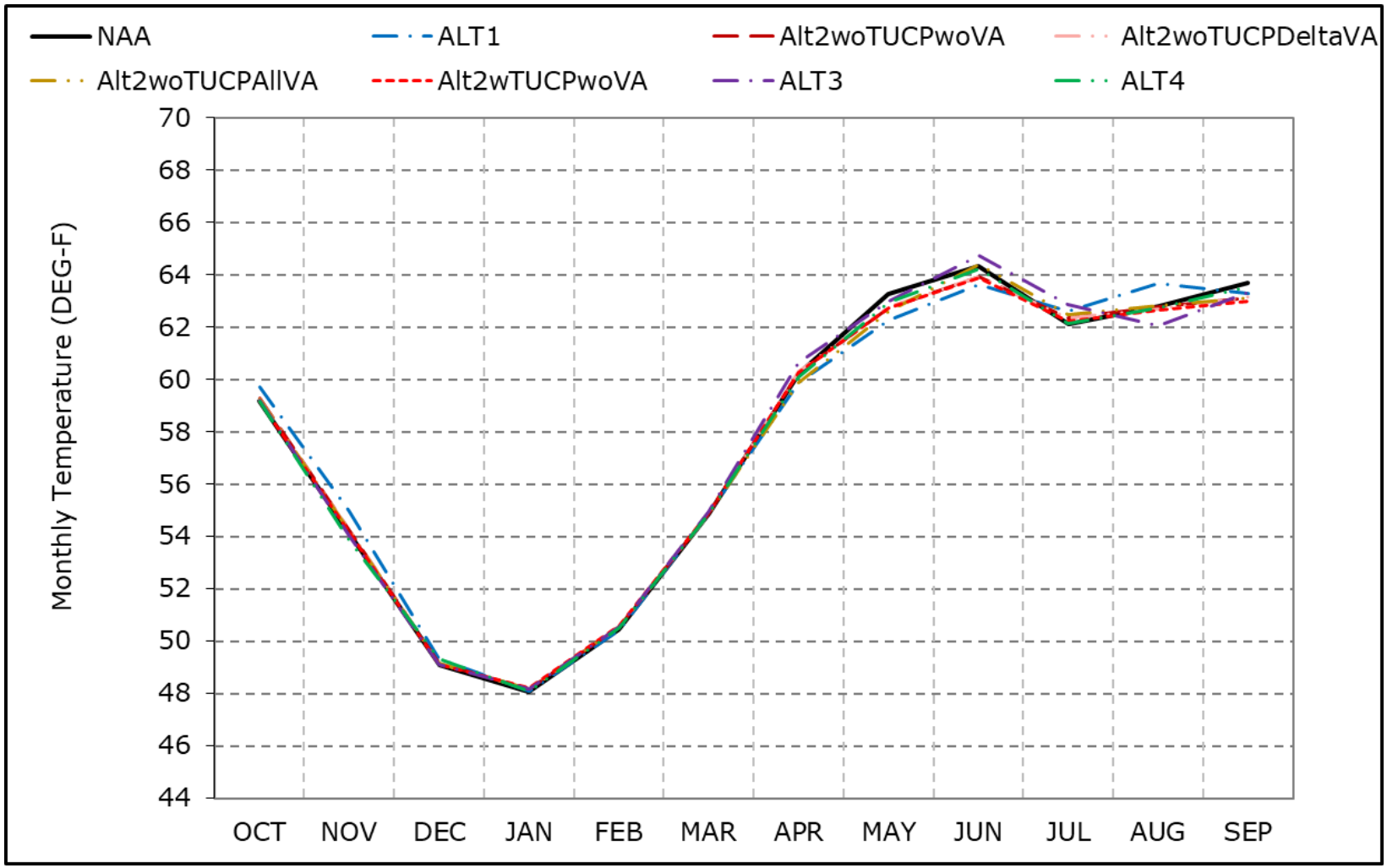
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-2. Sacramento River below Hamilton City, Wet Year Average Temperature



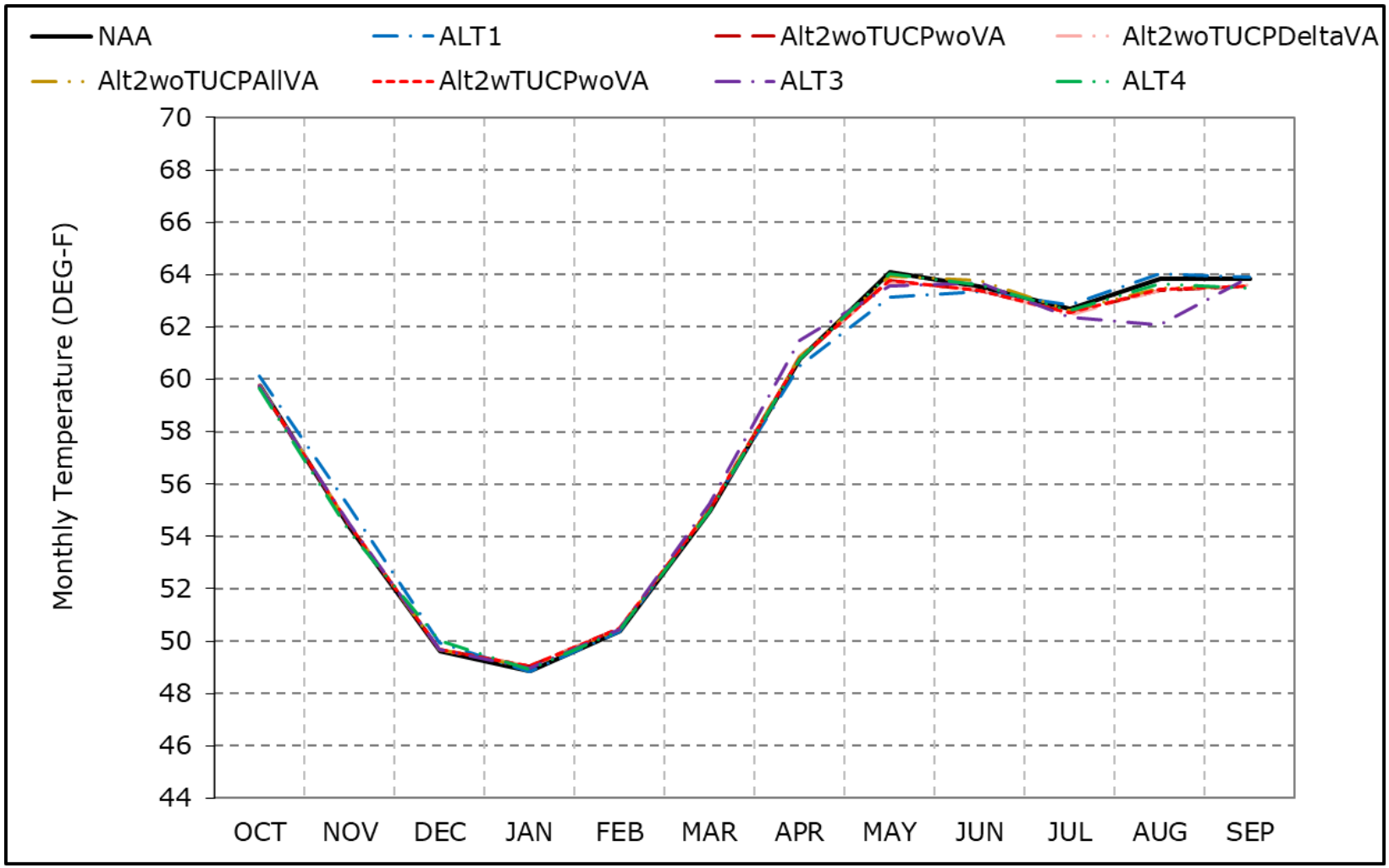
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-3. Sacramento River below Hamilton City, Above Normal Year Average Temperature



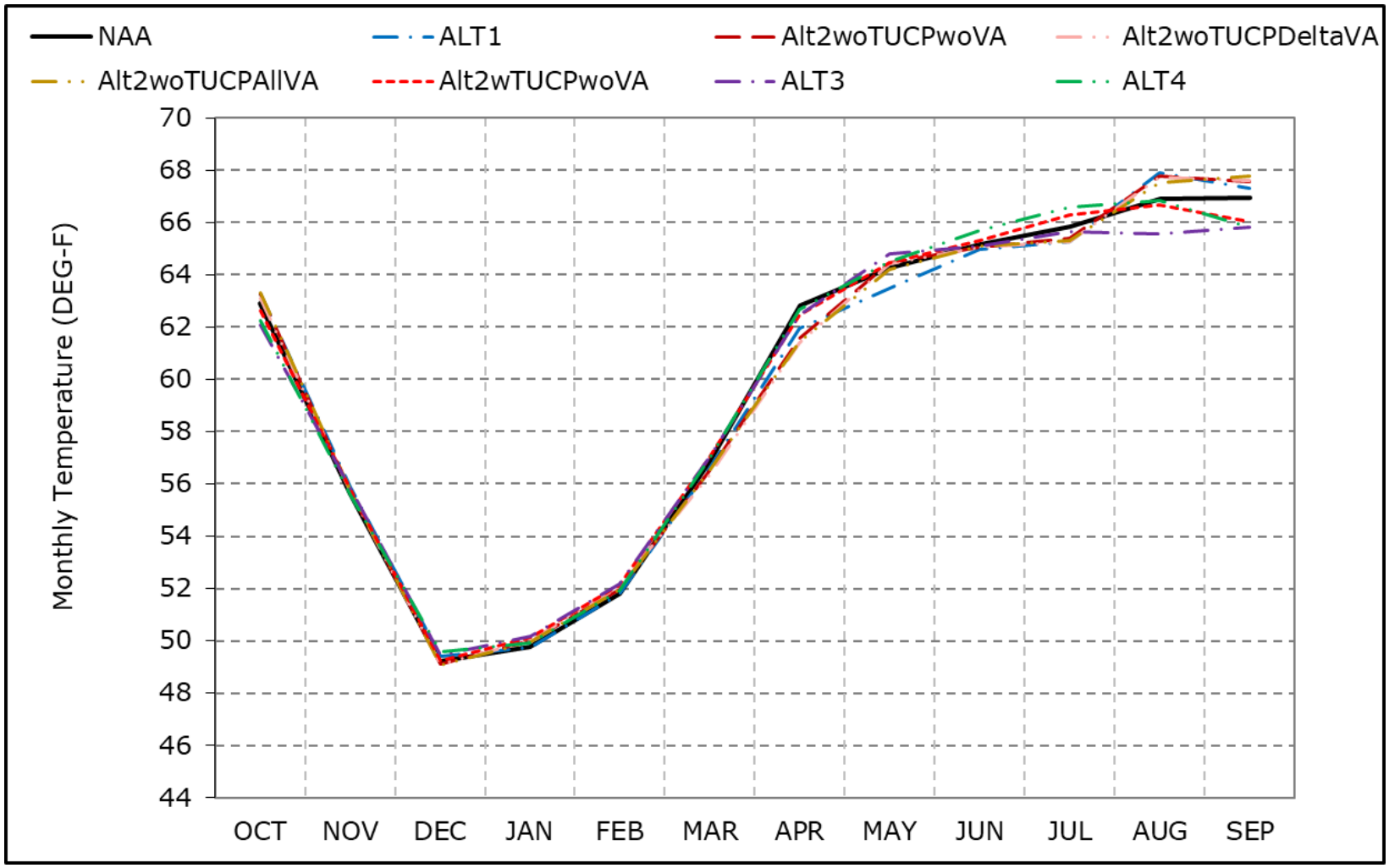
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-4. Sacramento River below Hamilton City, Below Normal Year Average Temperature



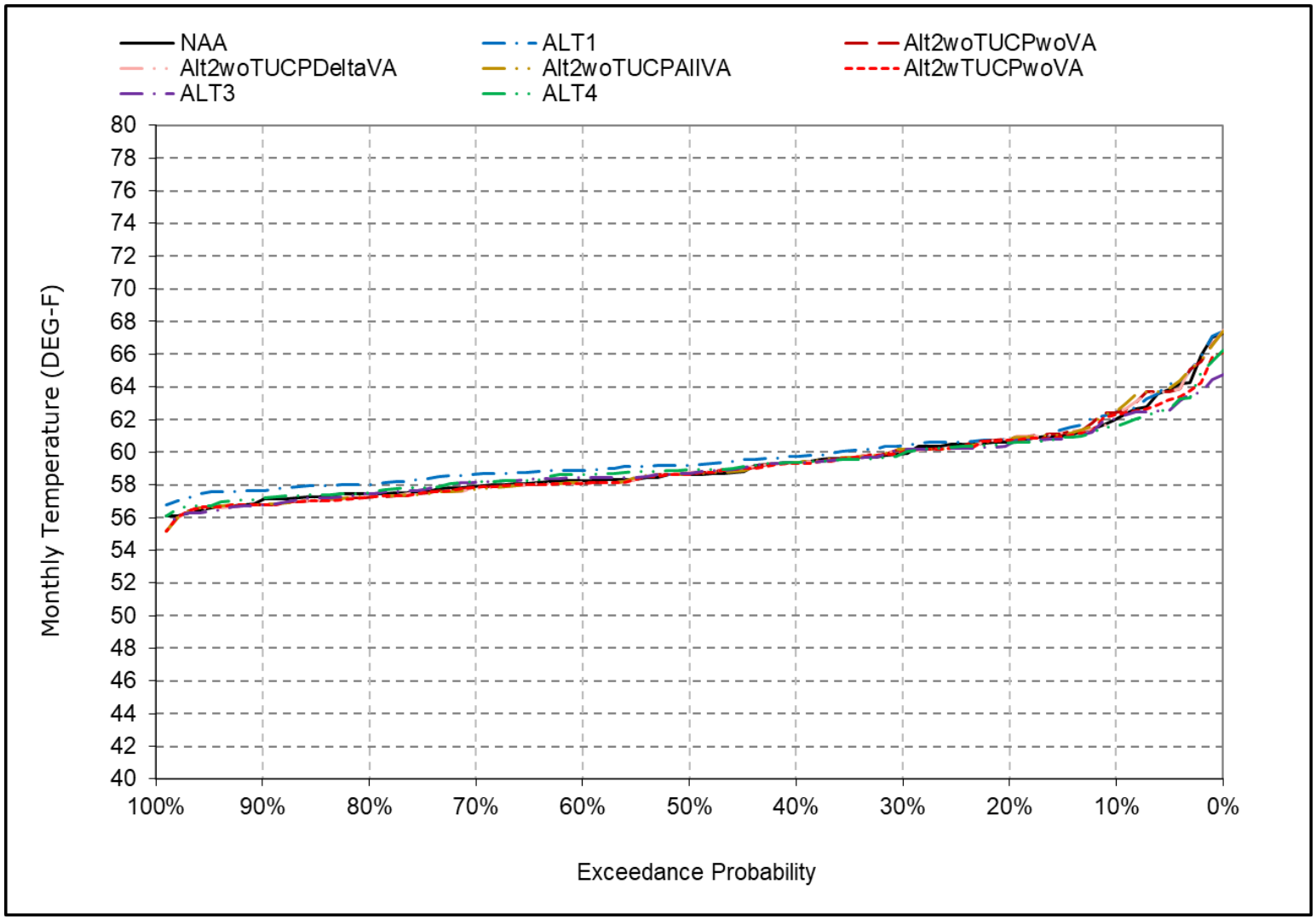
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-5. Sacramento River below Hamilton City, Dry Year Average Temperature



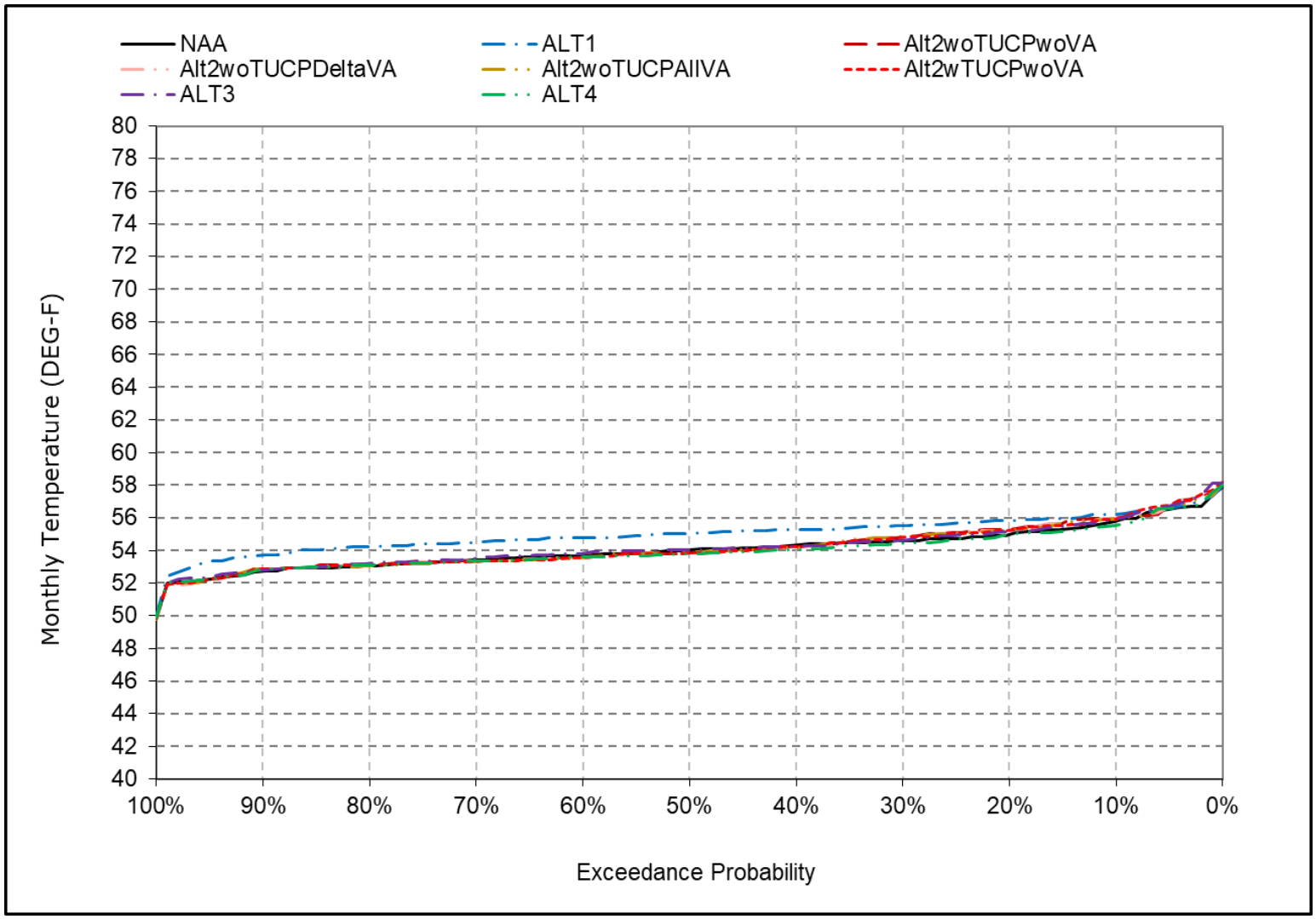
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-6. Sacramento River below Hamilton City, Critical Year Average Temperature



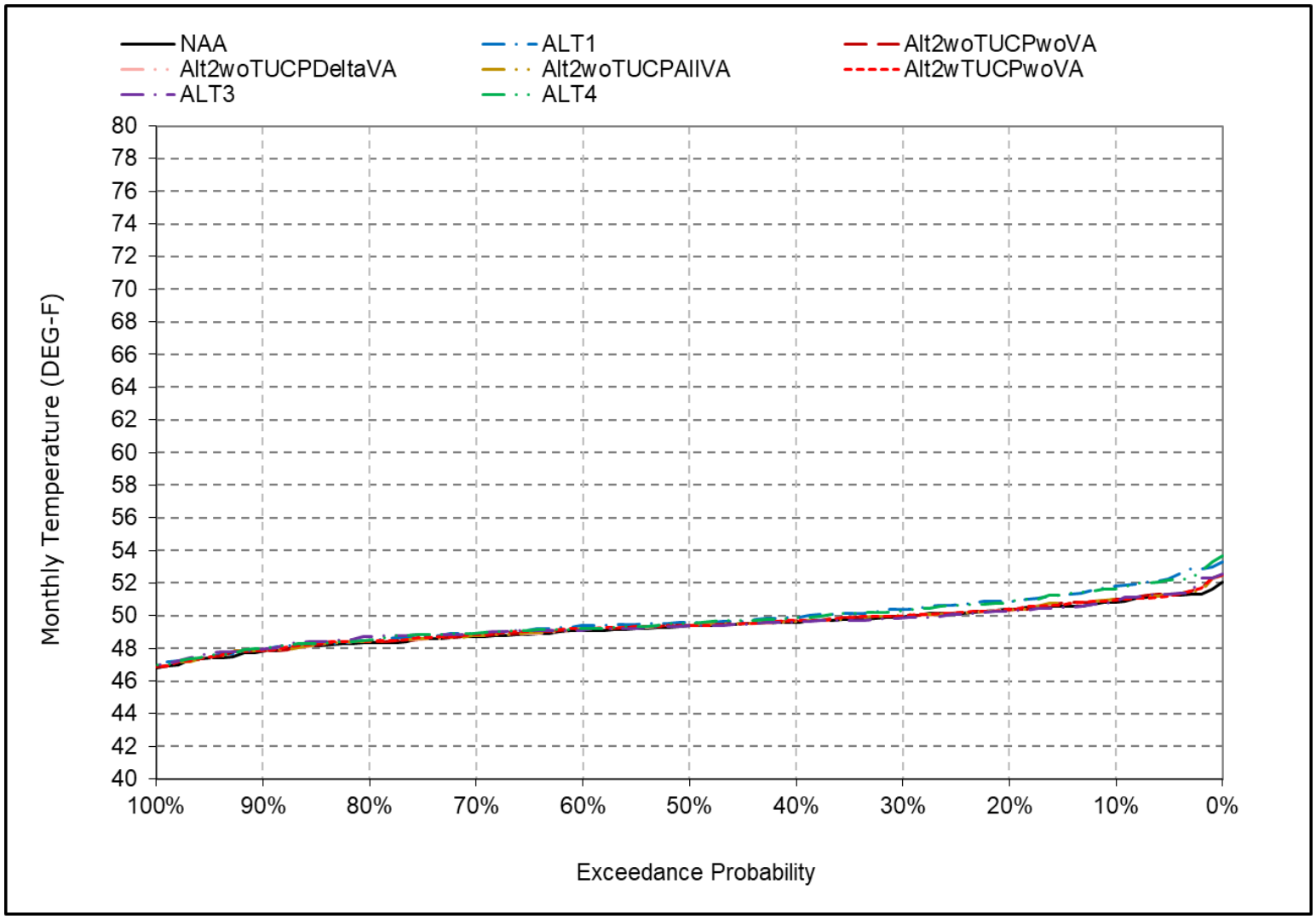
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-7. Sacramento River below Hamilton City, October



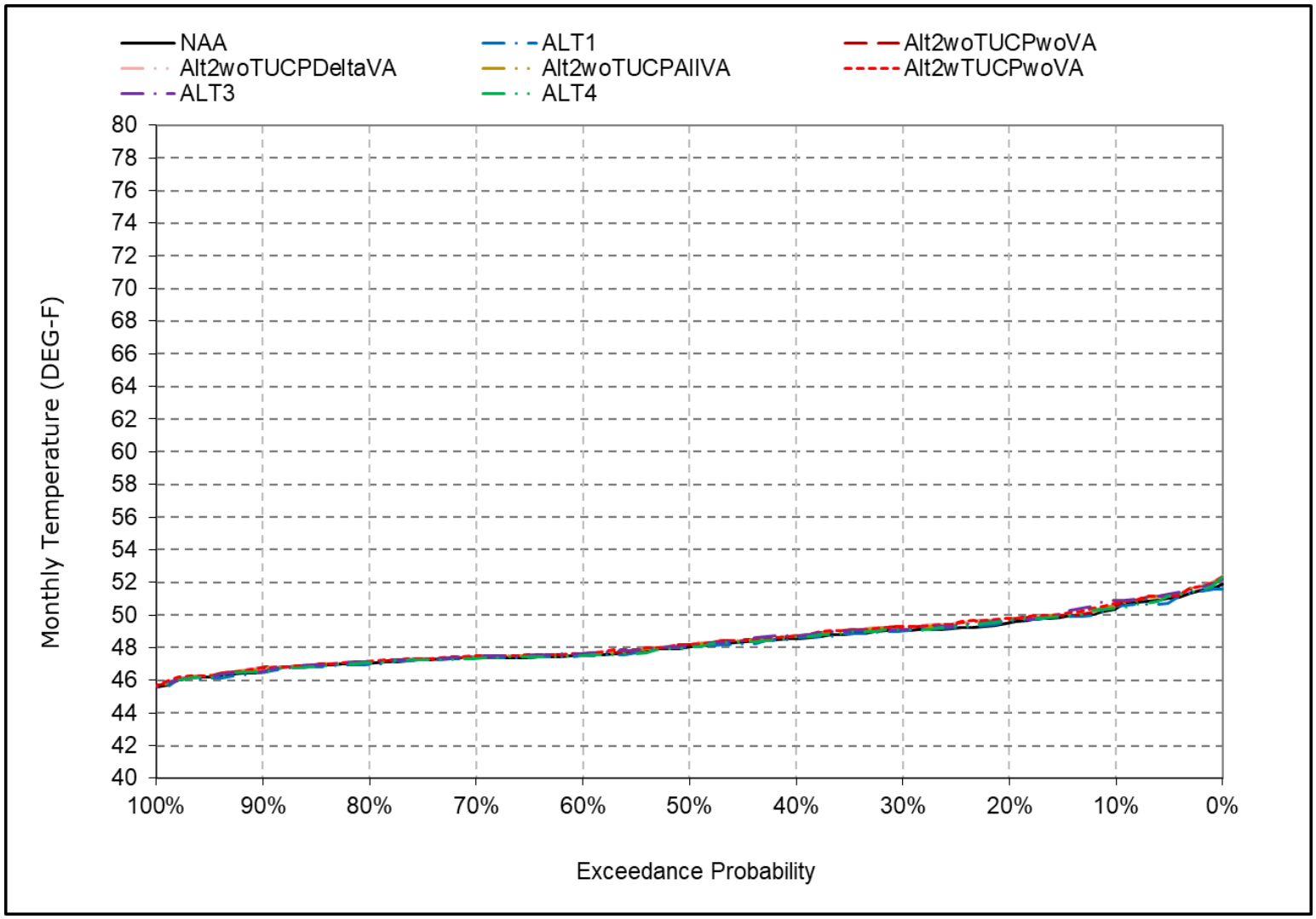
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-8. Sacramento River below Hamilton City, November



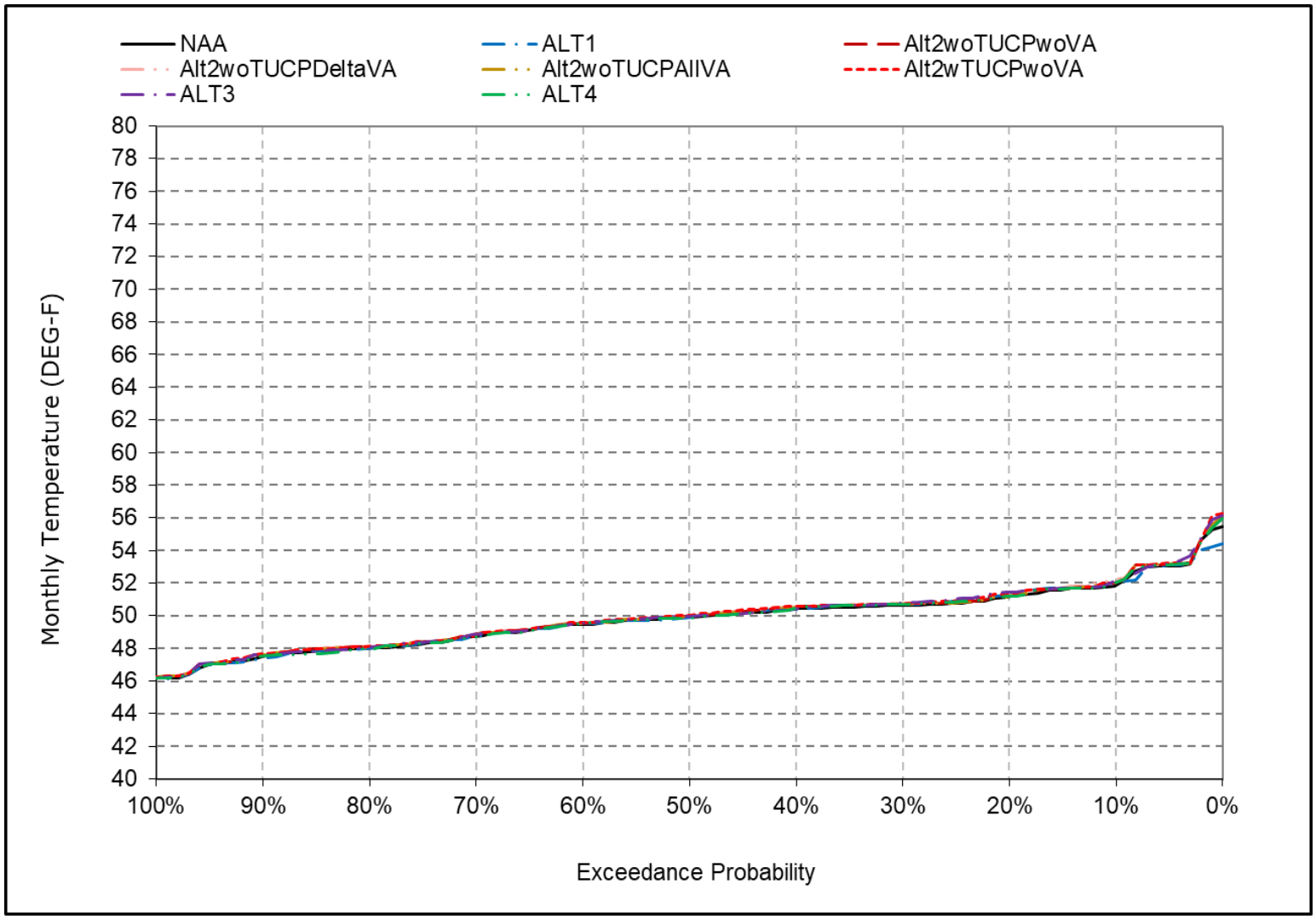
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-9. Sacramento River below Hamilton City, December



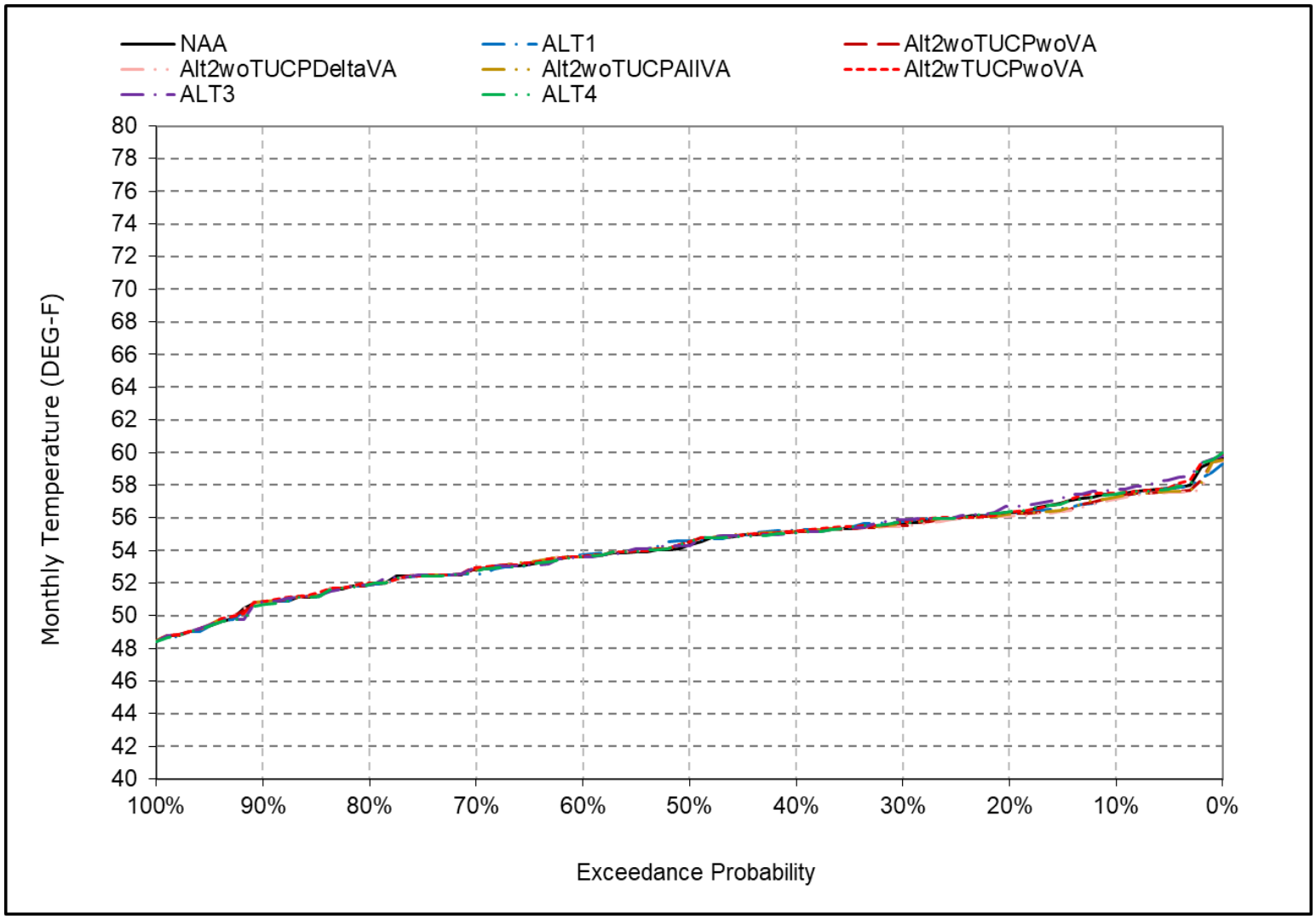
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-10. Sacramento River below Hamilton City, January



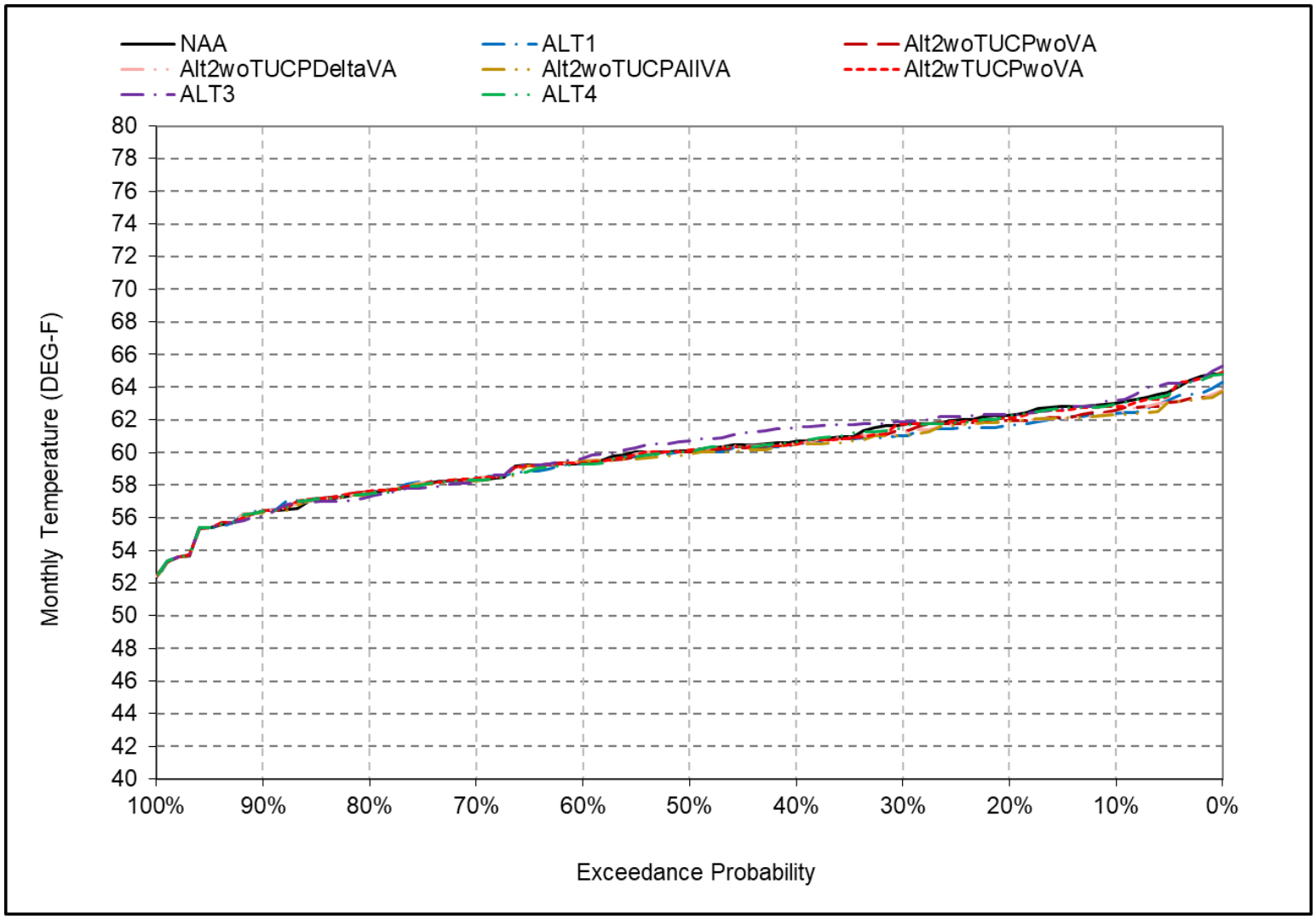
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-11. Sacramento River below Hamilton City, February



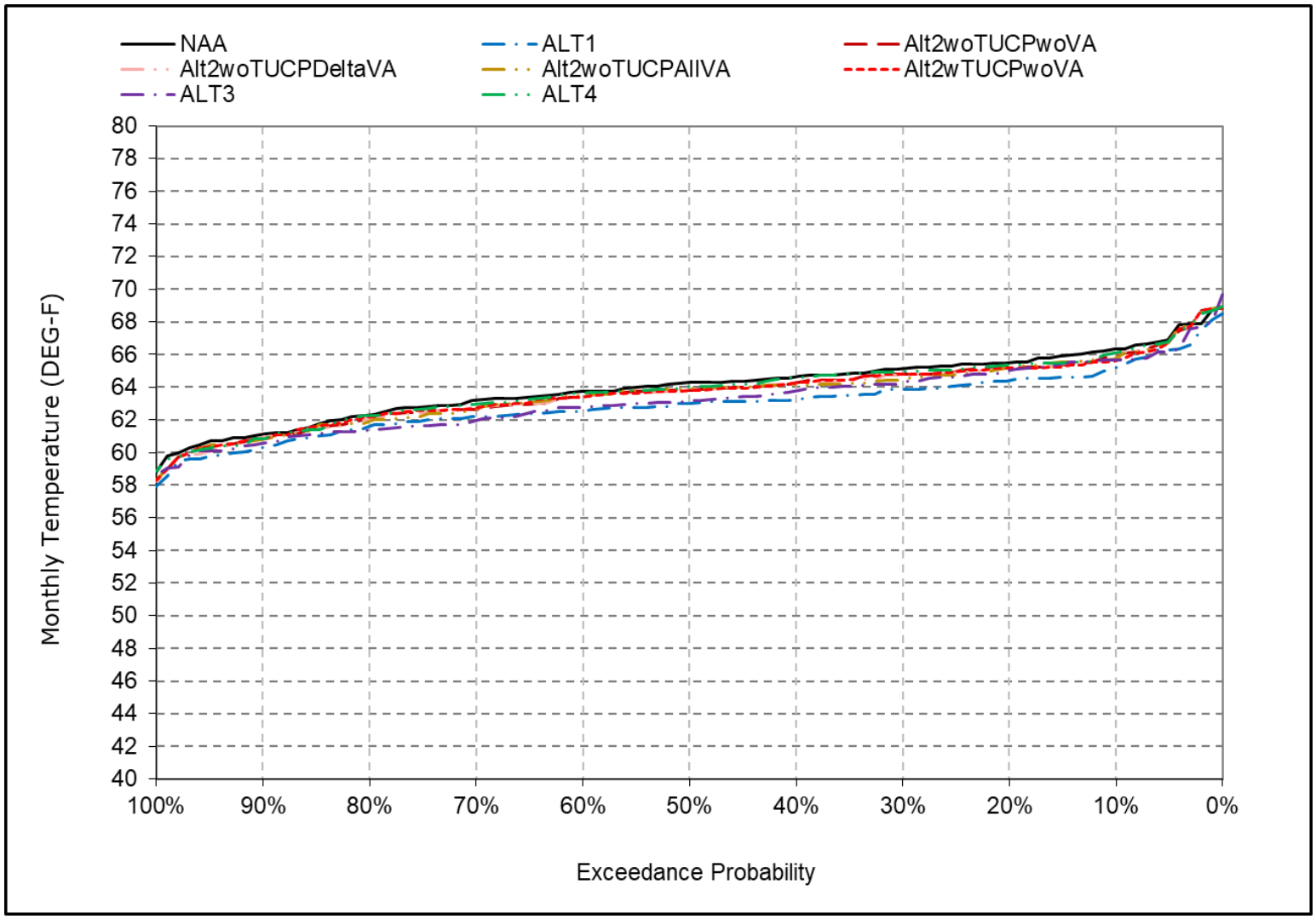
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-12. Sacramento River below Hamilton City, March



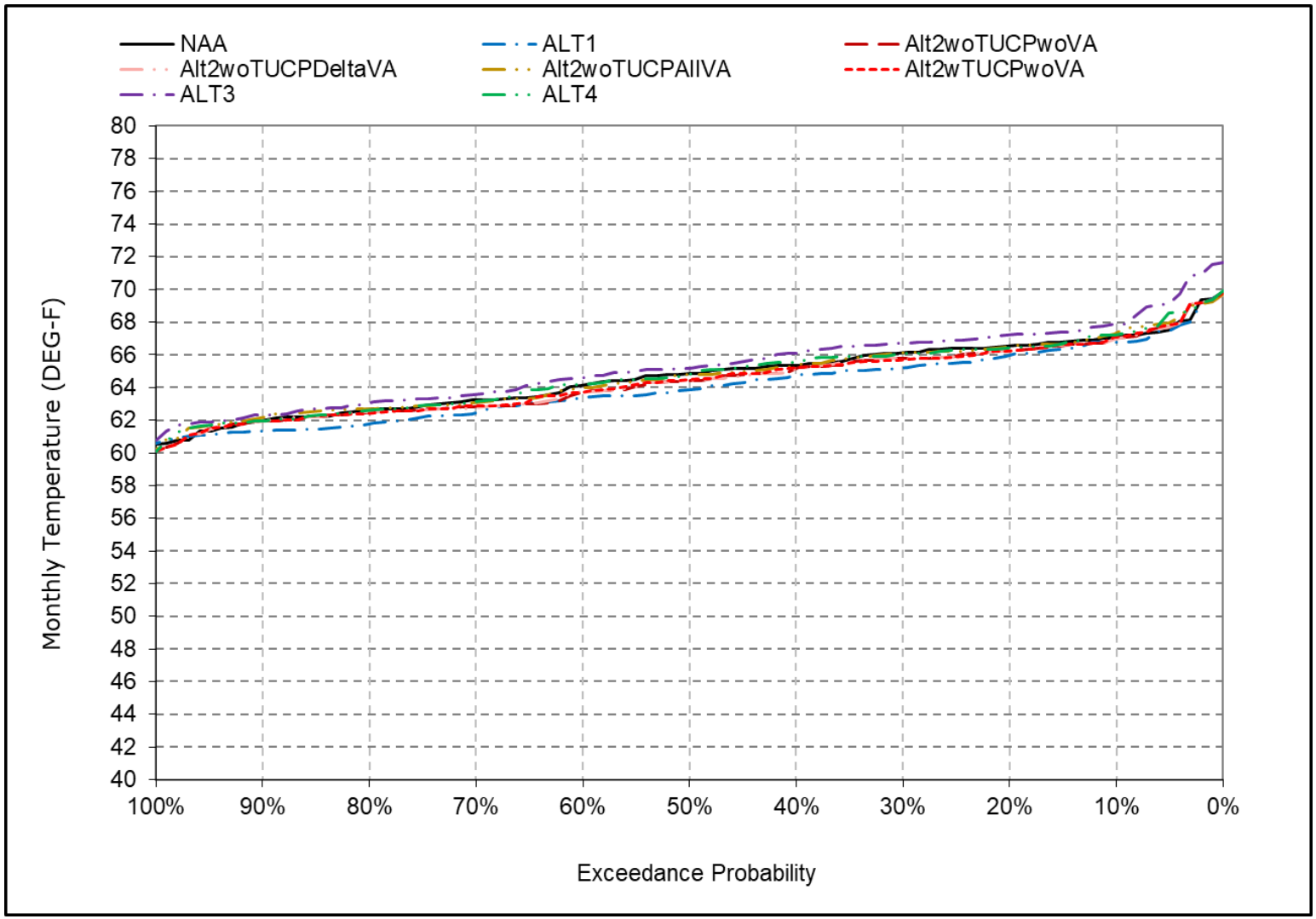
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-13. Sacramento River below Hamilton City, April



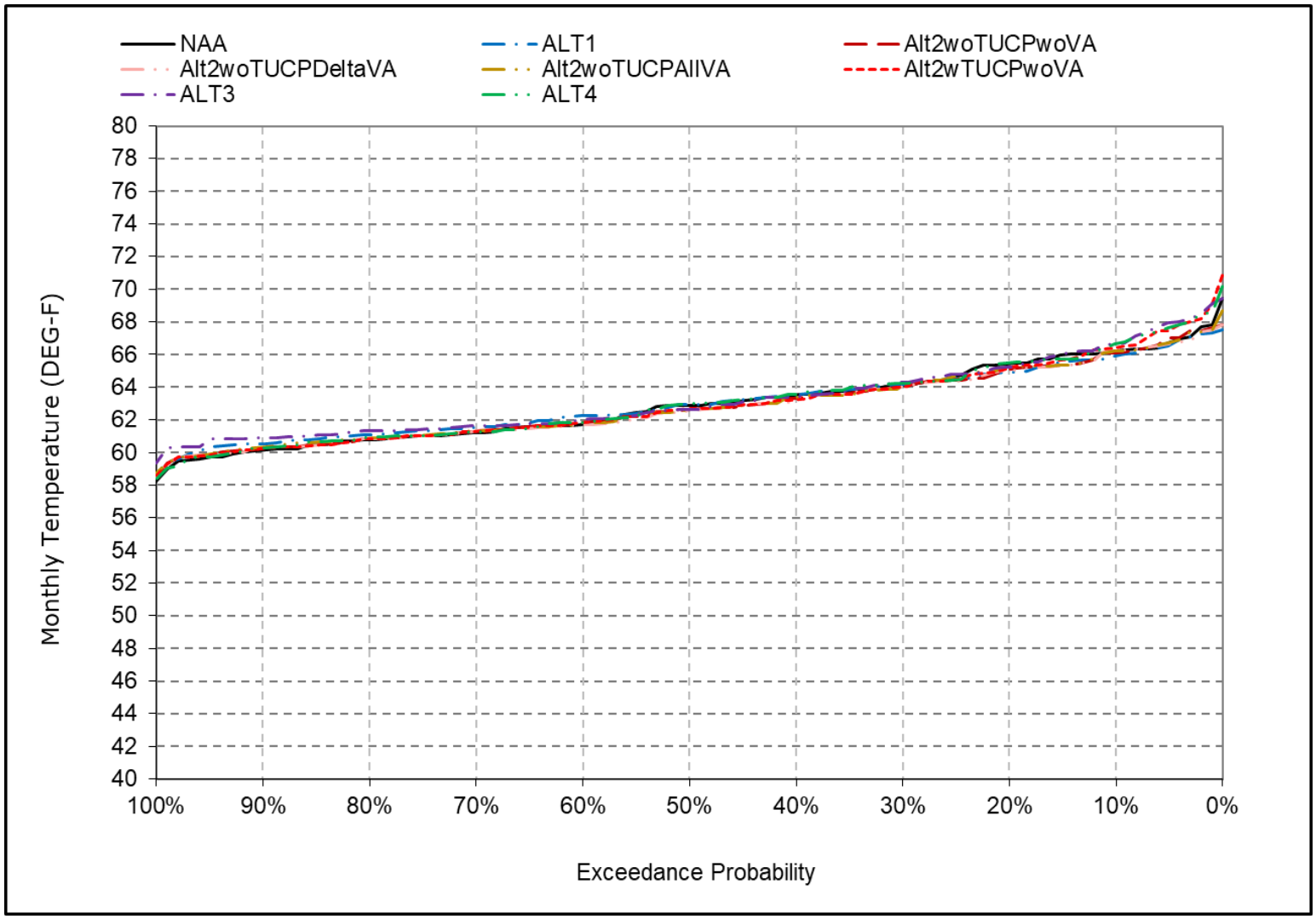
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-14. Sacramento River below Hamilton City, May



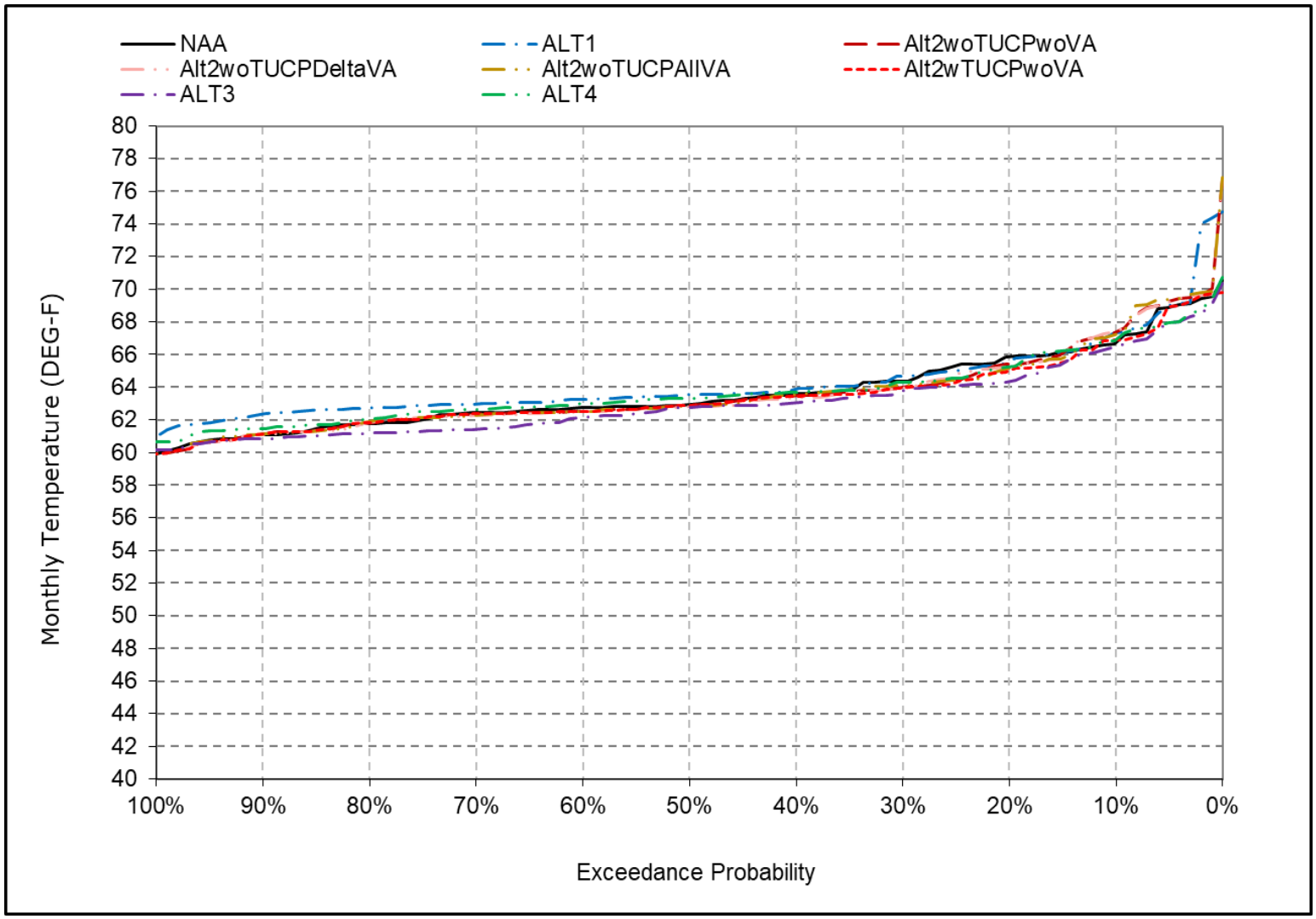
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-15. Sacramento River below Hamilton City, June



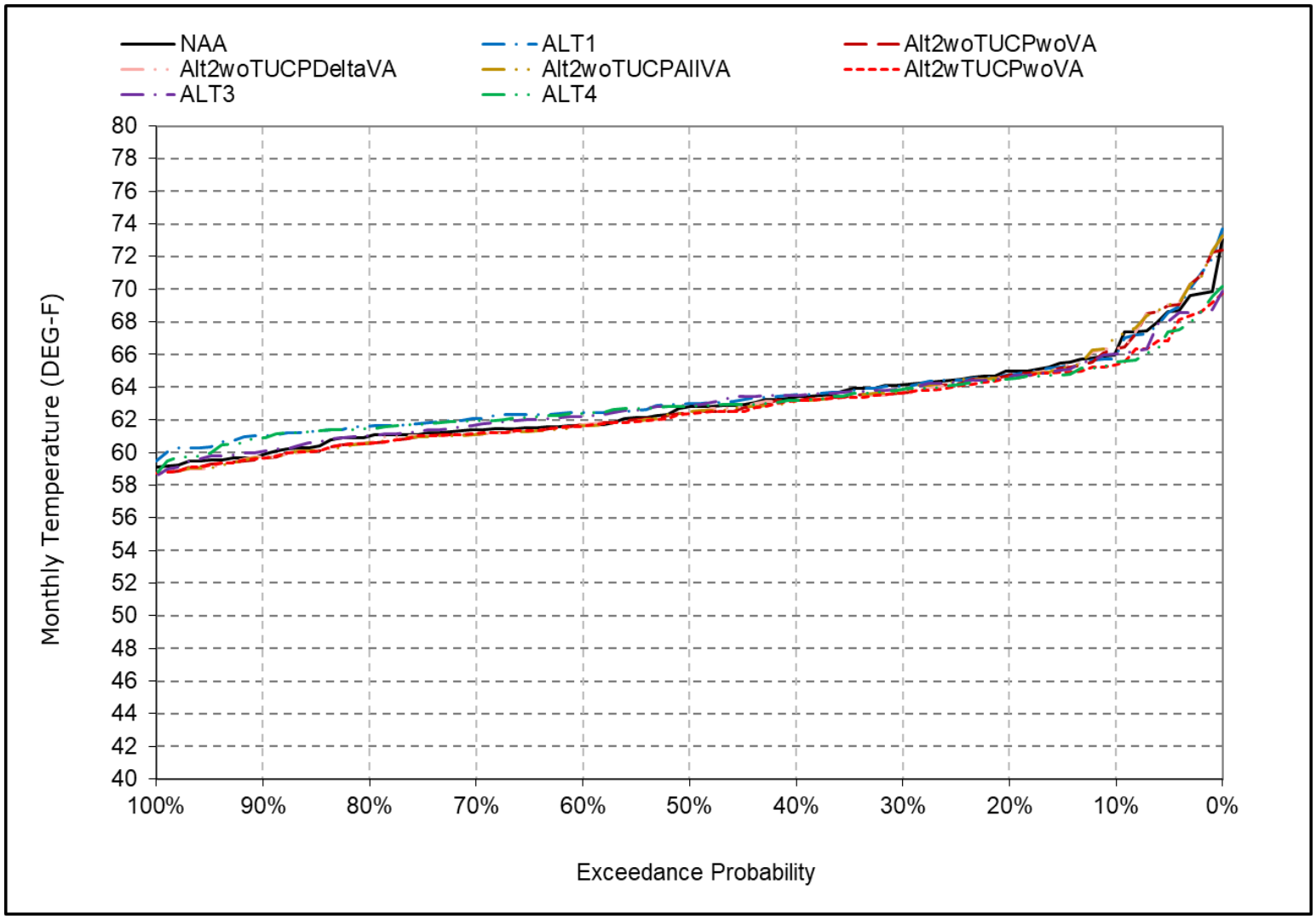
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-16. Sacramento River below Hamilton City, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-17. Sacramento River below Hamilton City, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-12-18. Sacramento River below Hamilton City, September

Table F.2.11-13-1a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-1b. American River below Nimbus Dam, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	54	50	50	53	56	61	67	68	69	70
20% Exceedance	67	59	53	49	49	53	54	61	66	67	69	68
30% Exceedance	66	58	52	48	49	52	53	60	65	67	68	68
40% Exceedance	65.1	57.8	51.9	47.8	48.3	51.6	52.9	58.6	64.2	66.1	67.5	67.0
50% Exceedance	63.6	57.4	51.2	47.2	47.9	51.3	52.8	58.0	63.3	65.7	67.1	66.7
60% Exceedance	63.0	56.8	50.8	46.8	47.0	50.7	52.5	57.4	62.1	65.2	66.4	66.1
70% Exceedance	62.2	56.2	50.2	46.2	46.8	50.2	52.2	57.1	61.0	64.4	66.2	65.3
80% Exceedance	61.6	55.4	49.3	45.8	46.5	49.7	51.9	56.5	59.9	63.9	65.6	64.7
90% Exceedance	61.0	54.7	48.2	45.1	46.1	48.9	51.5	55.7	59.3	63.1	64.2	64.2
Full Simulation Period Average[a]	64	57	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	68
Above Normal Years (14%)	64	56	51	48	48	51	53	58	63	65	67	67
Below Normal Years (18%)	63	57	51	48	48	52	53	59	63	65	66	66
Dry Years (24%)	63	57	50	47	48	52	54	60	64	66	67	66
Critical (16%)	66	60	53	49	50	54	54	61	65	67	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-1c. American River below Nimbus Dam, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.6	0.0	0.0	-0.1	0.2	0.4	1.9	0.2	0.2	-1.1	0.0	0.2
20% Exceedance	0	0	0	1	0	1	0	1	0	-1	0	0
30% Exceedance	0.5	-0.4	-0.2	0.2	0.0	0.5	0.2	0.4	0.7	-0.5	-0.1	-0.2
40% Exceedance	1	0	0	0	0	0	0	0	1	0	0	-1
50% Exceedance	0	0	0	0	0	0	0	0	0	-1	0	0
60% Exceedance	0	-1	0	0	0	0	0	0	1	0	0	-1
70% Exceedance	0	-1	0	0	0	0	0	0	0	-1	0	-1
80% Exceedance	0	-1	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.5	-0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.1	-0.7	-0.1	-0.2
Full Simulation Period Average[a]	0.3	-0.3	0.0	0.1	0.1	0.2	0.5	0.2	0.4	-0.6	-0.3	-0.4
Wet Water Years (28%)	0.8	-0.2	-0.2	0.1	0.0	0.1	0.0	-0.1	0.6	0.0	0.0	0.5
Above Normal Years (14%)	0.7	-0.5	0.4	0.1	0.1	0.1	0.6	-0.2	-0.2	-0.9	0.3	0.2
Below Normal Years (18%)	0.1	-0.6	0.1	0.1	0.2	0.4	0.6	-0.1	-0.1	-1.4	-0.7	-0.4
Dry Years (24%)	-0.3	-0.6	-0.6	-0.1	0.0	0.1	1.1	0.6	0.7	-0.6	0.0	-1.2
Critical (16%)	0	1	1	0	0	1	0	1	1	-1	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-2a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-2b. American River below Nimbus Dam, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67	60	54	49	50	53	54	61	67	69	69	70
20% Exceedance	66	59	53	49	49	53	53	60	66	68	69	69
30% Exceedance	66	58	52	48	49	52	53	60	65	67	68	68
40% Exceedance	64.4	58.0	51.9	47.8	48.1	51.6	52.7	58.5	64.5	66.7	67.8	67.5
50% Exceedance	63.6	57.5	51.5	47.2	47.7	51.1	52.5	58.0	63.4	66.4	67.4	67.1
60% Exceedance	63.1	57.1	50.6	46.7	47.1	50.5	52.3	57.5	62.0	65.6	66.9	66.7
70% Exceedance	62.3	56.6	50.1	46.2	46.7	50.1	52.1	57.1	60.8	65.1	66.1	66.1
80% Exceedance	61.5	55.9	49.2	45.6	46.5	49.8	51.9	56.6	60.0	64.6	65.6	65.2
90% Exceedance	60.6	55.3	48.0	44.9	46.0	48.9	51.4	55.6	59.4	64.0	64.4	64.6
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	68
Above Normal Years (14%)	63	56	51	48	48	51	52	58	63	66	67	66
Below Normal Years (18%)	62	57	51	47	48	51	53	59	64	67	67	66
Dry Years (24%)	63	57	51	47	48	52	53	59	64	67	67	67
Critical (16%)	66	59	52	48	50	53	54	60	66	67	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-2c. American River below Nimbus Dam, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	-0.2	-0.5	0.0	0.2	-0.1	0.2	0.1	0.0	0.1	0.2
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	-0.2	-0.2	0.1	-0.1	0.1	0.0	0.4	1.0	0.0	0.0	0.1
40% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	-0.3	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.1	0.2	0.1	0.3
Full Simulation Period Average[a]	0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.1
Wet Water Years (28%)	0.7	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5
Above Normal Years (14%)	-0.1	-0.2	-0.3	-0.2	0.0	-0.1	0.0	0.0	0.1	-0.2	0.4	-0.2
Below Normal Years (18%)	-0.3	-0.1	0.1	-0.2	-0.1	0.0	0.1	0.1	0.0	0.1	0.3	-0.5
Dry Years (24%)	-0.5	-0.1	-0.4	-0.1	0.0	0.0	0.0	0.3	1.0	0.2	-0.1	-0.1
Critical (16%)	0	0	0	0	0	0	0	0	1	0	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-3a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-3b. American River below Nimbus Dam, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67	60	54	50	50	53	54	61	67	69	70	69
20% Exceedance	67	59	53	49	49	53	53	60	66	68	69	69
30% Exceedance	66	59	52	48	49	52	53	60	65	67	68	68
40% Exceedance	64.8	57.9	52.0	47.6	48.1	51.4	52.8	58.6	64.5	66.7	67.8	67.4
50% Exceedance	63.7	57.5	51.4	47.3	47.7	51.1	52.5	58.0	63.1	66.4	67.4	66.8
60% Exceedance	63.1	57.1	50.6	46.7	47.1	50.6	52.2	57.5	61.8	65.6	66.9	66.4
70% Exceedance	62.4	56.7	50.1	46.2	46.7	50.1	52.0	57.0	60.7	65.1	66.3	65.8
80% Exceedance	61.5	55.8	49.5	45.7	46.4	49.7	51.9	56.5	59.9	64.3	65.7	65.0
90% Exceedance	60.6	55.2	48.3	45.0	46.0	48.9	51.5	55.6	59.4	63.8	64.5	64.4
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	60	65	68	68
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	67	66
Below Normal Years (18%)	62	57	51	47	48	51	53	59	64	66	67	66
Dry Years (24%)	63	57	51	47	48	51	53	59	64	66	67	66
Critical (16%)	66	60	52	48	50	53	54	60	66	68	68	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-3c. American River below Nimbus Dam, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.0	-0.2	-0.3	0.0	0.1	-0.1	-0.1	0.5	0.2	0.2	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.3	0.9	-0.1	-0.1	-0.2
40% Exceedance	1	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	-0.4	0.3	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.0	0.2	0.0
Full Simulation Period Average[a]	0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.4	0.0	0.0	-0.2
Wet Water Years (28%)	0.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.2	0.3
Above Normal Years (14%)	-0.2	0.0	-0.3	-0.1	0.0	-0.1	0.0	-0.1	0.1	0.0	0.5	-0.2
Below Normal Years (18%)	-0.3	-0.1	0.1	-0.2	-0.1	0.0	0.1	0.0	0.1	-0.2	0.1	-0.5
Dry Years (24%)	-0.5	-0.4	-0.4	-0.3	-0.1	-0.2	-0.1	0.2	0.9	0.2	0.2	-0.4
Critical (16%)	1	0	0	0	0	0	0	0	1	0	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-4a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-4b. American River below Nimbus Dam, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67	60	54	50	50	53	54	62	67	69	69	70
20% Exceedance	67	59	53	49	49	52	53	61	66	68	69	69
30% Exceedance	66	58	52	48	49	52	53	59	65	67	68	68
40% Exceedance	65.0	58.0	51.9	47.6	48.1	51.4	52.8	58.8	64.8	66.5	67.5	67.5
50% Exceedance	63.6	57.6	51.3	47.2	47.7	51.0	52.6	58.2	63.4	66.0	67.3	67.0
60% Exceedance	63.2	57.1	50.5	46.8	47.1	50.6	52.2	57.5	62.0	65.6	66.8	66.7
70% Exceedance	62.7	56.6	50.2	46.3	46.8	50.2	52.1	57.0	60.5	65.0	66.2	66.2
80% Exceedance	62.1	56.1	49.6	45.8	46.5	49.8	51.9	56.5	59.9	64.5	65.4	65.2
90% Exceedance	61.0	55.5	48.3	45.1	46.0	48.9	51.6	55.6	59.2	63.7	64.4	64.7
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	60	65	67	68
Above Normal Years (14%)	63	56	51	48	48	51	52	58	63	66	66	66
Below Normal Years (18%)	63	57	51	47	48	51	53	59	64	66	67	67
Dry Years (24%)	63	57	51	48	48	52	53	60	64	66	67	67
Critical (16%)	66	59	52	48	49	53	53	61	65	67	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-4c. American River below Nimbus Dam, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	-0.2	-0.3	0.0	0.2	-0.4	0.4	0.5	-0.3	-0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.5	-0.2	-0.3	-0.2	-0.1	-0.1	-0.1	0.2	0.9	-0.1	-0.3	0.0
40% Exceedance	1	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.5	-0.2	0.3	0.0	-0.1	0.0	0.1	-0.1	0.0	-0.1	0.1	0.3
Full Simulation Period Average[a]	0.3	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.2	0.4	-0.1	-0.2	0.1
Wet Water Years (28%)	0.6	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.1	0.3
Above Normal Years (14%)	0.0	-0.2	-0.2	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.2	-0.1	-0.2
Below Normal Years (18%)	-0.2	-0.3	-0.1	-0.3	-0.1	0.0	0.0	-0.1	0.5	-0.1	0.2	0.3
Dry Years (24%)	0.1	0.0	-0.3	0.0	0.0	-0.1	0.0	0.5	0.9	-0.1	-0.2	0.0
Critical (16%)	1	0	0	0	0	0	-1	1	1	0	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-5a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-5b. American River below Nimbus Dam, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67	60	54	50	50	53	54	61	67	69	70	70
20% Exceedance	66	59	53	49	49	52	53	60	66	68	69	69
30% Exceedance	65	58	53	48	49	52	53	59	65	67	69	68
40% Exceedance	64.3	58.2	52.0	47.9	48.2	51.4	52.8	58.4	64.3	67.0	67.9	67.5
50% Exceedance	63.6	57.5	51.5	47.3	47.5	51.1	52.6	58.0	63.3	66.4	67.5	67.1
60% Exceedance	63.0	57.3	50.6	46.8	47.0	50.6	52.3	57.5	61.4	65.7	66.9	66.5
70% Exceedance	62.1	56.6	50.2	46.2	46.7	50.1	52.2	57.1	60.7	65.0	66.4	65.9
80% Exceedance	61.5	55.9	49.6	45.7	46.5	49.7	51.9	56.6	59.9	64.6	65.6	65.2
90% Exceedance	60.7	55.5	47.9	44.9	46.0	48.9	51.5	55.7	59.3	63.9	64.7	64.5
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	68
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	67	67
Below Normal Years (18%)	62	57	51	48	48	51	53	59	64	67	67	66
Dry Years (24%)	63	57	51	47	48	52	53	59	64	67	67	67
Critical (16%)	65	59	52	49	50	53	54	59	64	67	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-5c. American River below Nimbus Dam, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	0.2	-0.2	0.1	0.2	0.0	-0.3	0.0	0.0	0.7	0.2
20% Exceedance	0	0	0	1	0	0	0	0	0	0	0	0
30% Exceedance	0.0	-0.2	0.2	0.2	0.0	0.1	0.0	-0.1	0.7	0.1	0.2	0.0
40% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.1	0.4	0.1
Full Simulation Period Average[a]	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.2	0.0
Wet Water Years (28%)	0.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.5
Above Normal Years (14%)	-0.1	-0.1	-0.2	0.0	0.0	-0.1	0.0	0.0	0.1	-0.1	0.7	0.0
Below Normal Years (18%)	-0.3	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.0	0.3	0.7	-0.4
Dry Years (24%)	-0.4	-0.1	-0.4	-0.1	0.0	0.0	0.0	0.2	1.0	0.2	0.0	-0.1
Critical (16%)	0	0	1	0	0	0	0	-1	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-6a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-6b. American River below Nimbus Dam, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67	60	54	50	50	54	54	62	66	68	69	70
20% Exceedance	67	59	54	49	49	52	53	60	65	68	69	69
30% Exceedance	66	59	53	49	49	52	53	60	65	67	68	68
40% Exceedance	65.1	58.1	52.1	48.0	48.2	51.3	52.8	59.0	63.8	66.5	67.6	67.5
50% Exceedance	64.2	57.9	51.6	47.4	47.6	51.0	52.6	58.5	62.9	66.3	67.3	66.9
60% Exceedance	63.7	57.7	51.1	47.1	47.3	50.6	52.5	58.2	62.2	66.0	66.5	66.7
70% Exceedance	62.9	57.0	50.5	46.8	46.9	50.2	52.3	57.8	61.3	65.4	66.0	66.1
80% Exceedance	62.2	56.4	49.9	46.2	46.5	49.8	52.1	57.0	60.1	65.1	65.5	65.1
90% Exceedance	61.6	55.6	48.8	45.2	46.1	49.0	51.6	55.6	59.5	63.9	64.6	64.5
Full Simulation Period Average[a]	64	58	52	48	48	51	53	59	63	66	67	67
Wet Water Years (28%)	65	58	52	46	47	50	52	57	61	65	67	67
Above Normal Years (14%)	64	56	51	48	48	51	53	59	63	66	66	67
Below Normal Years (18%)	64	58	52	48	48	51	53	59	63	66	67	67
Dry Years (24%)	63	58	52	48	48	52	53	59	64	66	67	67
Critical (16%)	66	59	52	49	50	54	54	60	65	67	68	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-6c. American River below Nimbus Dam, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.6	0.5	0.1	0.5	0.6	-0.1	0.5	-0.2	-0.5	-0.1	0.3
20% Exceedance	0	0	1	0	0	0	0	0	0	-1	0	0
30% Exceedance	0.6	0.0	0.4	0.4	0.0	0.0	0.0	0.3	0.1	-0.1	-0.1	0.3
40% Exceedance	1	0	0	0	0	0	0	1	0	0	0	0
50% Exceedance	1	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	1	0	0	0	0	0	0	1	1	0	0	0
70% Exceedance	0	0	0	1	0	0	0	1	1	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	1	0	0
90% Exceedance	1.1	0.0	0.8	0.2	0.1	0.0	0.2	0.0	0.3	0.1	0.4	0.1
Full Simulation Period Average[a]	0.6	0.2	0.4	0.2	0.1	0.1	0.1	0.4	0.2	0.0	-0.1	0.1
Wet Water Years (28%)	0.5	0.0	0.1	0.2	0.1	0.0	0.1	0.5	0.2	0.2	-0.4	0.1
Above Normal Years (14%)	0.9	-0.3	-0.3	0.1	0.0	-0.2	0.4	1.3	0.1	0.1	0.0	0.1
Below Normal Years (18%)	1.3	0.9	0.8	0.1	0.1	-0.1	0.0	0.1	-0.2	-0.1	0.4	0.4
Dry Years (24%)	0.3	0.5	0.6	0.2	0.1	0.2	0.1	0.2	0.2	-0.1	0.2	0.0
Critical (16%)	0	0	1	1	0	0	0	0	0	0	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-7a. American River below Nimbus Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	67.0	59.8	53.8	49.9	49.8	53.0	54.0	61.3	66.6	69.0	69.4	69.5
20% Exceedance	66.3	58.9	53.0	48.7	49.3	52.3	53.4	60.4	65.6	68.2	68.8	68.6
30% Exceedance	65.4	58.7	52.5	48.2	48.8	51.9	53.0	59.2	64.4	67.2	68.4	67.9
40% Exceedance	64.3	58.2	52.0	47.9	48.1	51.5	52.8	58.4	63.5	66.6	67.9	67.5
50% Exceedance	64	58	51	47	48	51	53	58	63	66	67	67
60% Exceedance	63	57	51	47	47	51	52	57	61	66	67	67
70% Exceedance	62	57	50	46	47	50	52	57	61	65	66	66
80% Exceedance	62	56	50	46	47	50	52	57	60	64	65	65
90% Exceedance	60	56	48	45	46	49	51	56	59	64	64	64
Full Simulation Period Average[a]	64	58	51	47	48	51	53	58	63	66	67	67
Wet Water Years (28%)	65	58	51	46	47	50	52	56	61	65	67	67
Above Normal Years (14%)	63	57	51	48	48	51	52	58	63	66	66	67
Below Normal Years (18%)	63	57	51	48	48	51	53	59	64	66	67	66
Dry Years (24%)	63.1	57.2	51.1	47.6	48.3	51.6	52.6	59.2	63.3	66.3	67.0	66.7
Critical (16%)	65	60	51	49	50	53	54	60	65	68	69	68

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-7b. American River below Nimbus Dam, Alternative 4, Monthly Temperature (°F)

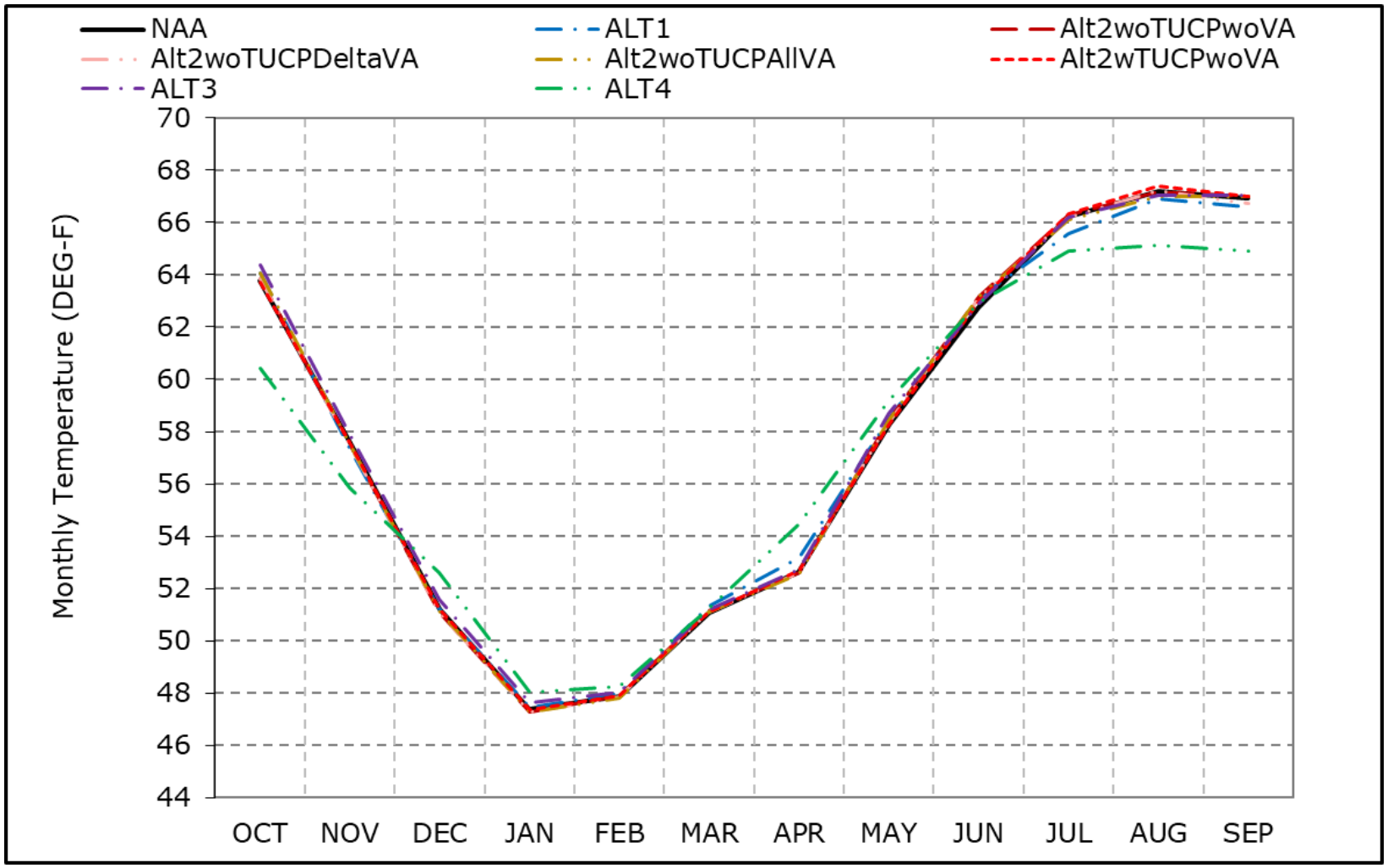
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	56	51	51	53	57	63	66	67	68	67
20% Exceedance	61	57	55	50	50	52	56	62	65	66	66	66
30% Exceedance	61	56	54	49	49	52	56	61	64	65	66	65
40% Exceedance	60.6	55.7	53.2	48.4	48.4	51.6	55.3	59.8	63.7	64.7	65.2	64.7
50% Exceedance	60.5	55.5	52.7	47.8	47.7	51.2	54.8	59.0	62.8	64.5	64.7	64.6
60% Exceedance	60.4	55.4	51.9	47.4	47.3	50.7	54.3	58.1	61.9	64.2	64.6	64.5
70% Exceedance	60.1	55.3	51.7	47.0	46.9	50.3	53.4	57.3	60.9	64.0	64.3	64.3
80% Exceedance	59.6	55.2	50.9	46.1	46.6	49.7	52.7	56.7	60.2	63.7	63.7	63.9
90% Exceedance	58.2	54.9	49.5	45.4	46.0	49.0	51.8	55.7	59.6	63.1	63.0	63.0
Full Simulation Period Average[a]	60	56	53	48	48	51	54	59	63	65	65	65
Wet Water Years (28%)	60	56	53	47	47	50	53	57	61	64	65	65
Above Normal Years (14%)	60	55	52	48	48	51	54	58	63	64	65	64
Below Normal Years (18%)	59	56	52	48	48	51	55	59	63	64	65	64
Dry Years (24%)	61	56	52	48	49	52	55	61	64	65	65	65
Critical (16%)	62	57	53	50	50	54	56	61	66	67	67	67

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-13-7c. American River below Nimbus Dam, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

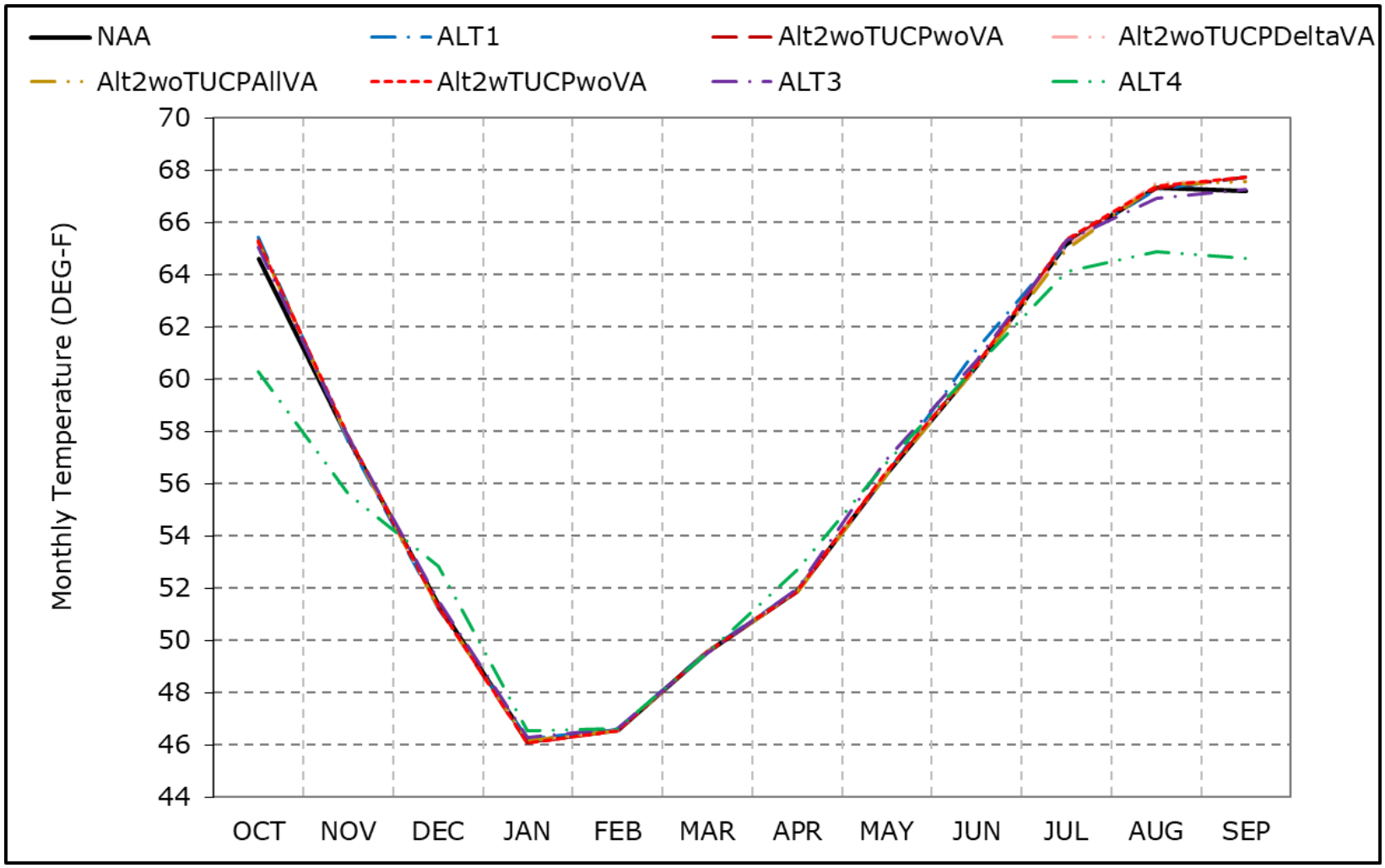
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-4.5	-1.8	2.0	0.9	1.2	0.5	2.7	1.5	-0.2	-1.7	-1.6	-2.0
20% Exceedance	-5	-2	2	1	1	0	3	1	0	-2	-3	-3
30% Exceedance	-4.7	-2.8	1.4	1.0	0.5	0.1	2.7	1.5	-0.1	-2.3	-2.8	-2.9
40% Exceedance	-4	-3	1	1	0	0	2	1	0	-2	-3	-3
50% Exceedance	-3	-2	1	0	0	0	2	1	0	-2	-3	-2
60% Exceedance	-3	-2	1	1	0	0	2	1	1	-1	-2	-2
70% Exceedance	-2	-2	1	1	0	0	1	0	0	-1	-2	-2
80% Exceedance	-2	-1	1	0	0	0	1	0	0	-1	-2	-1
90% Exceedance	-2.3	-0.7	1.6	0.3	-0.1	0.0	0.4	0.0	0.3	-0.7	-1.3	-1.4
Full Simulation Period Average[a]	-3.4	-1.8	1.4	0.7	0.3	0.1	1.8	0.9	0.2	-1.3	-2.1	-2.0
Wet Water Years (28%)	-4.3	-2.1	1.4	0.4	0.1	0.0	0.8	0.4	0.0	-1.1	-2.4	-2.6
Above Normal Years (14%)	-2.4	-2.0	1.3	0.5	0.1	-0.1	1.8	0.7	-0.6	-1.9	-1.8	-2.3
Below Normal Years (18%)	-3.6	-1.4	1.4	0.8	0.4	0.2	1.9	0.7	-0.3	-2.0	-1.9	-2.2
Dry Years (24%)	-2.5	-1.3	1.3	0.7	0.5	0.1	2.8	1.6	0.5	-1.5	-2.5	-1.9
Critical (16%)	-3	-2	2	1	1	1	2	1	1	0	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



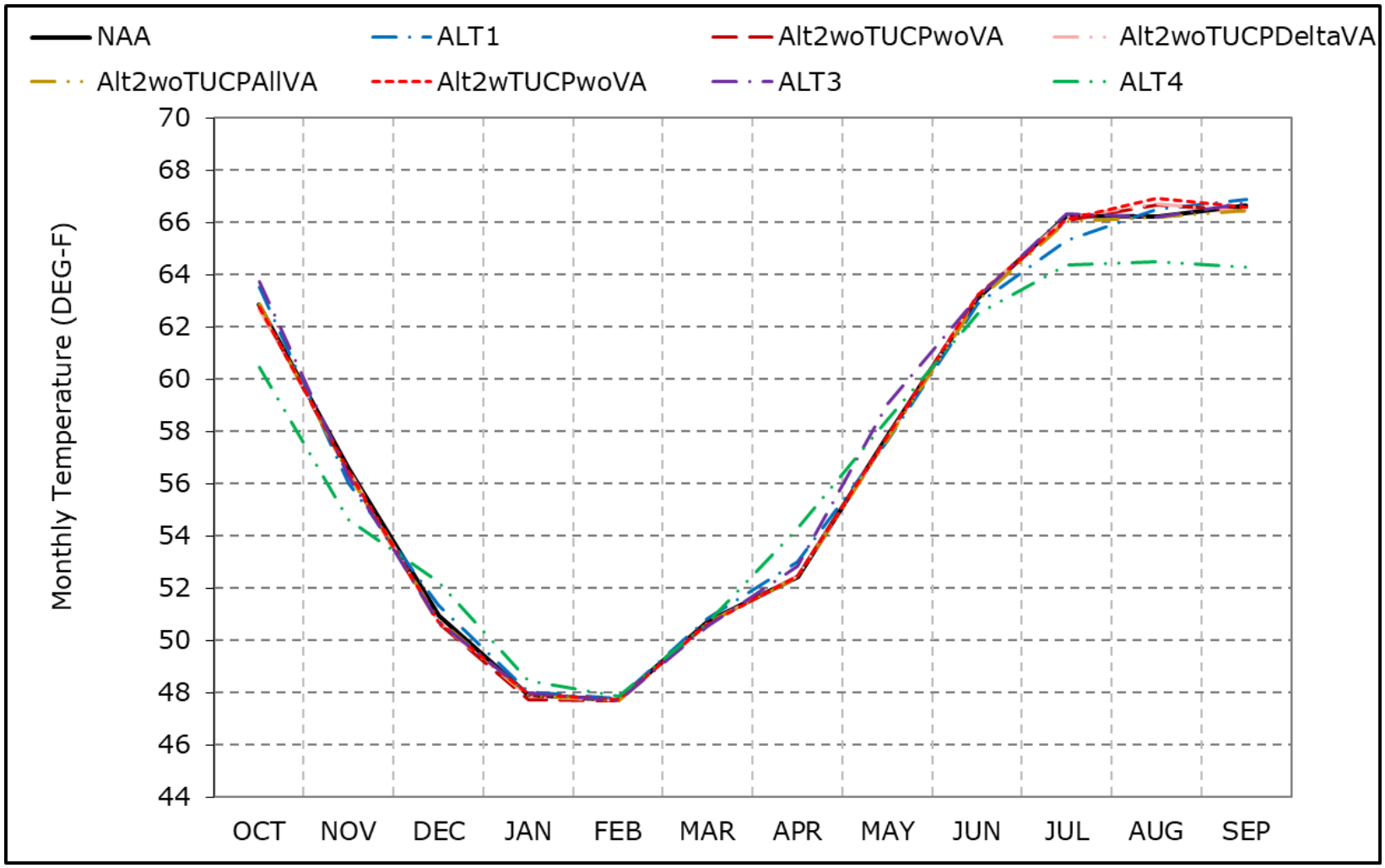
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-1. American River below Nimbus Dam, Long-Term Average Temperature



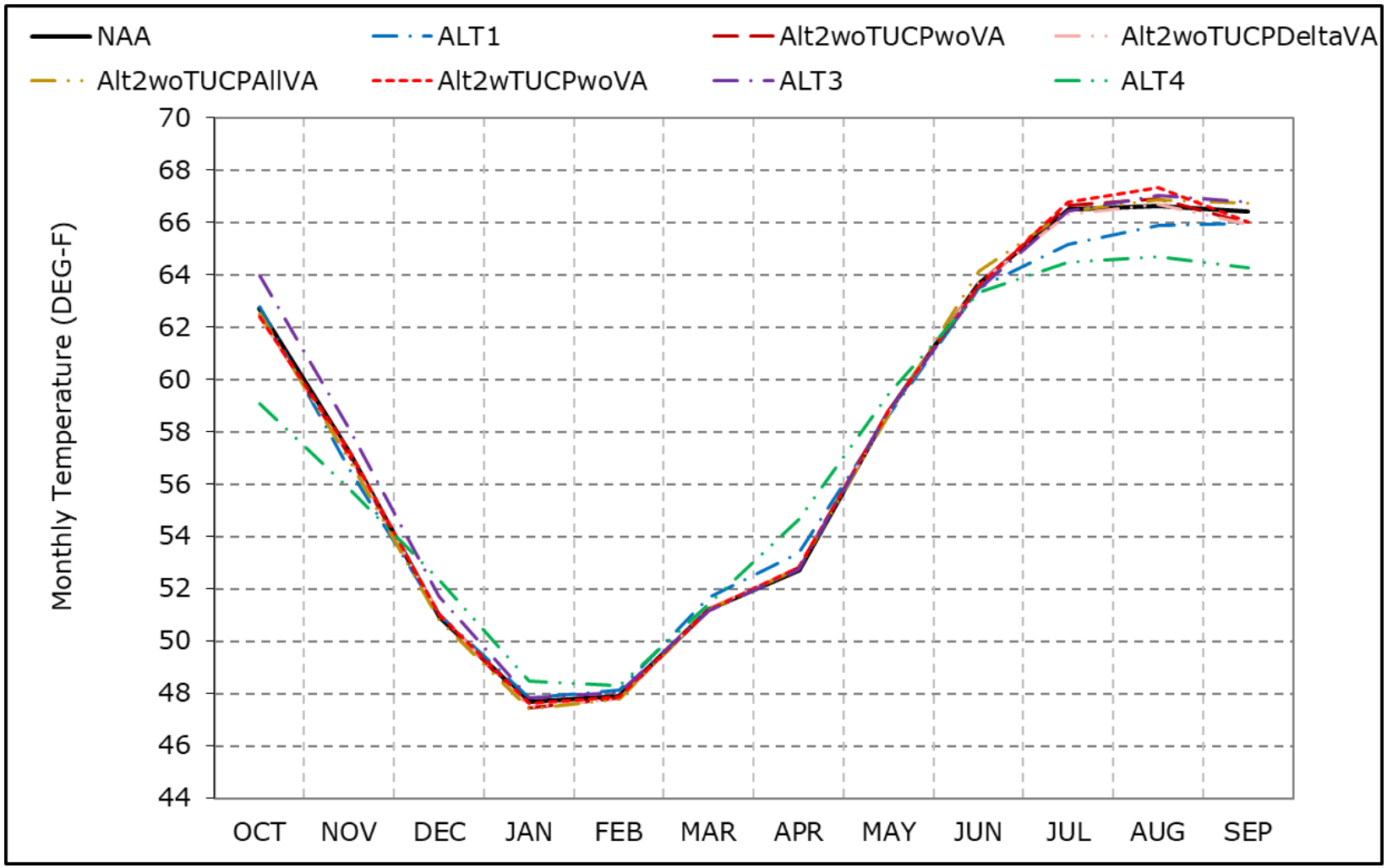
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-2. American River below Nimbus Dam, Wet Year Average Temperature



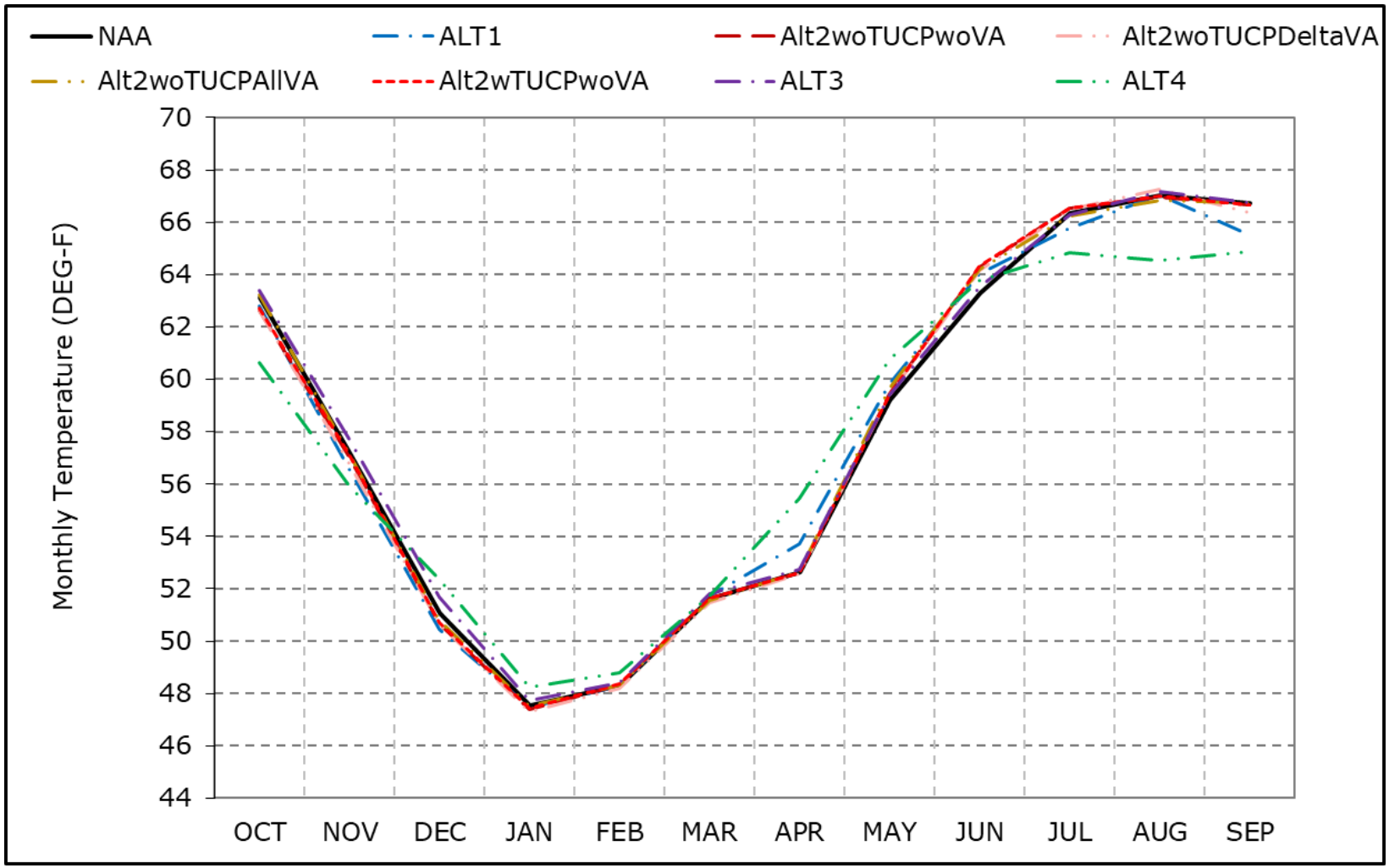
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-3. American River below Nimbus Dam, Above Normal Year Average Temperature



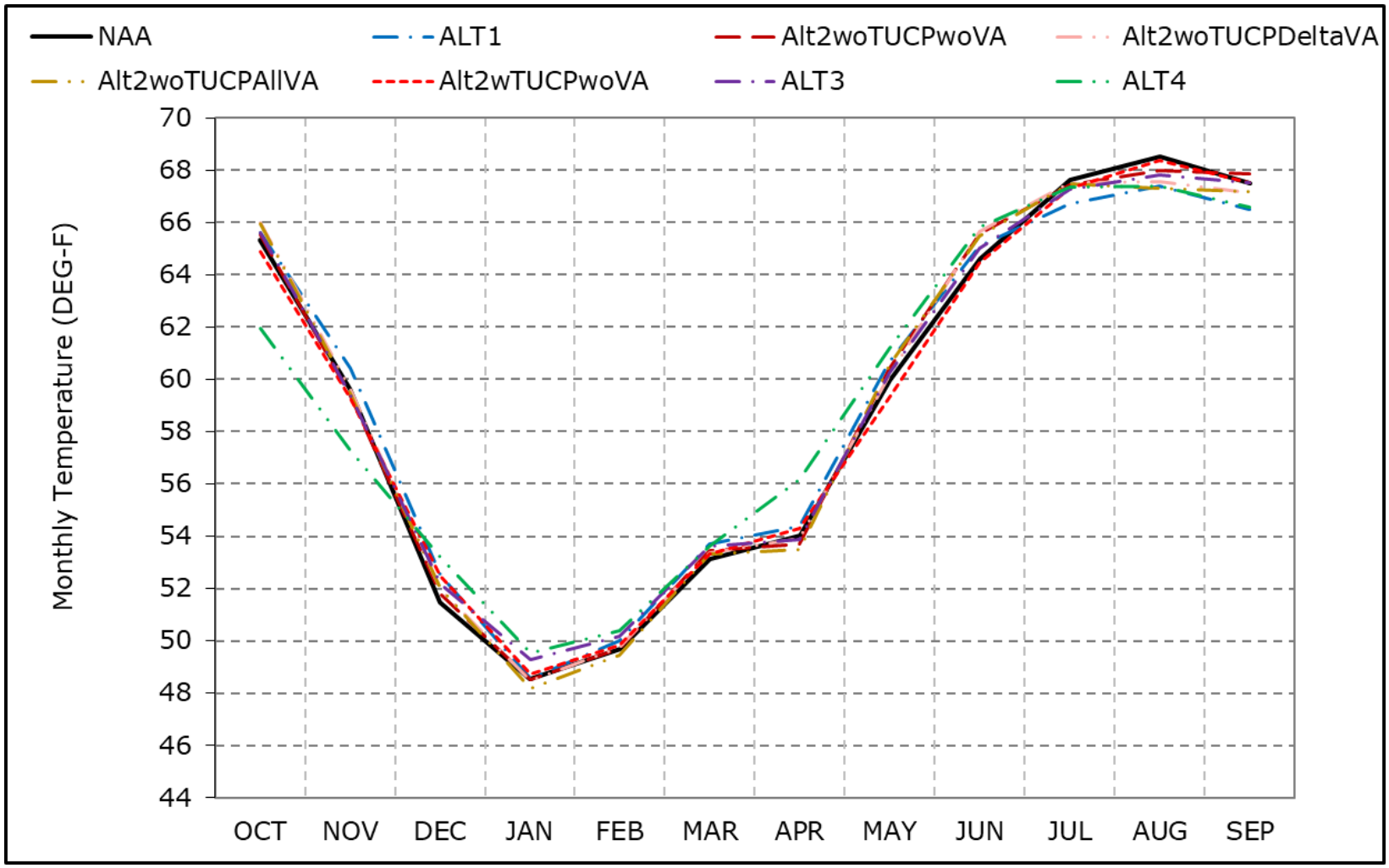
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-4. American River below Nimbus Dam, Below Normal Year Average Temperature



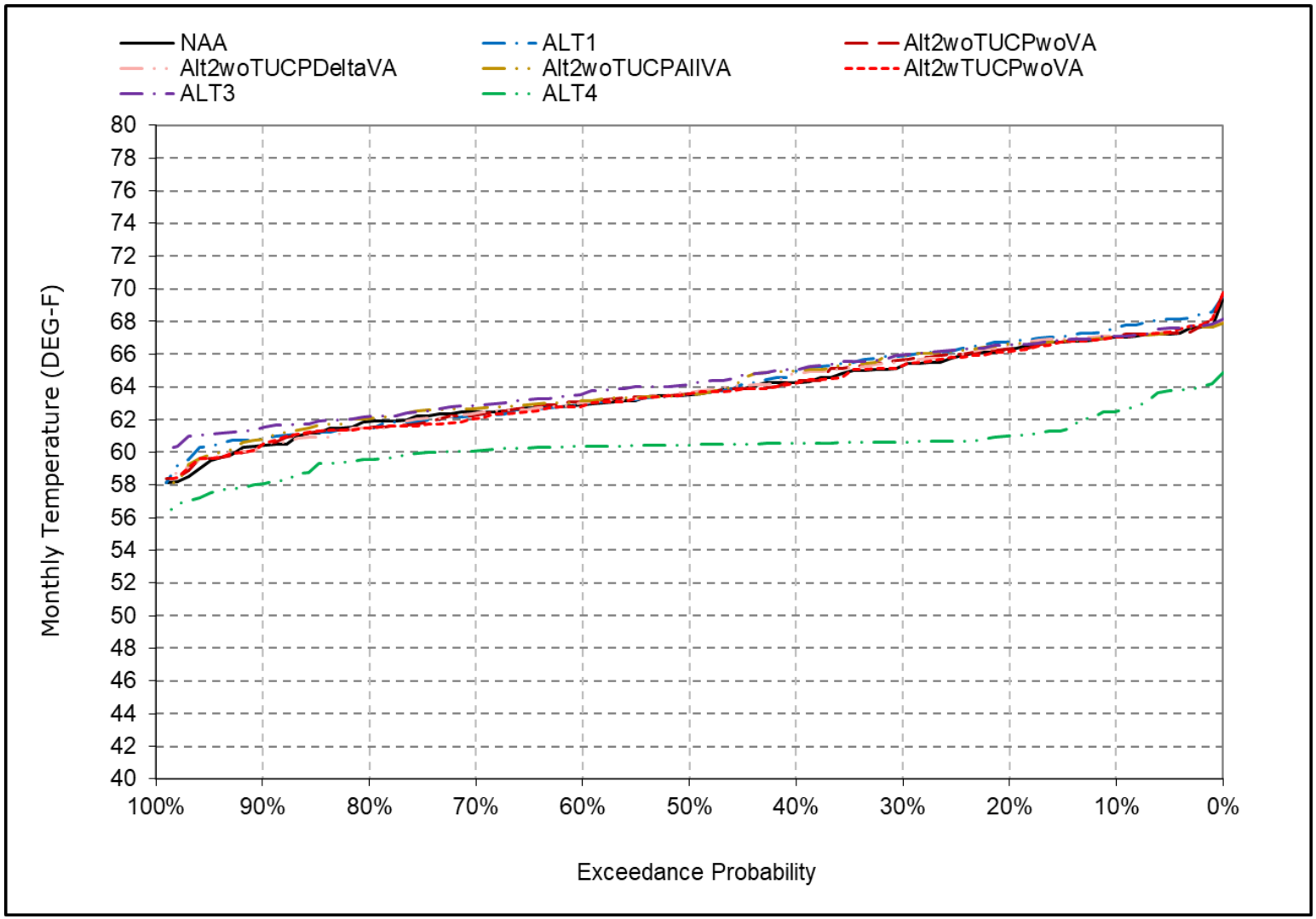
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-5. American River below Nimbus Dam, Dry Year Average Temperature



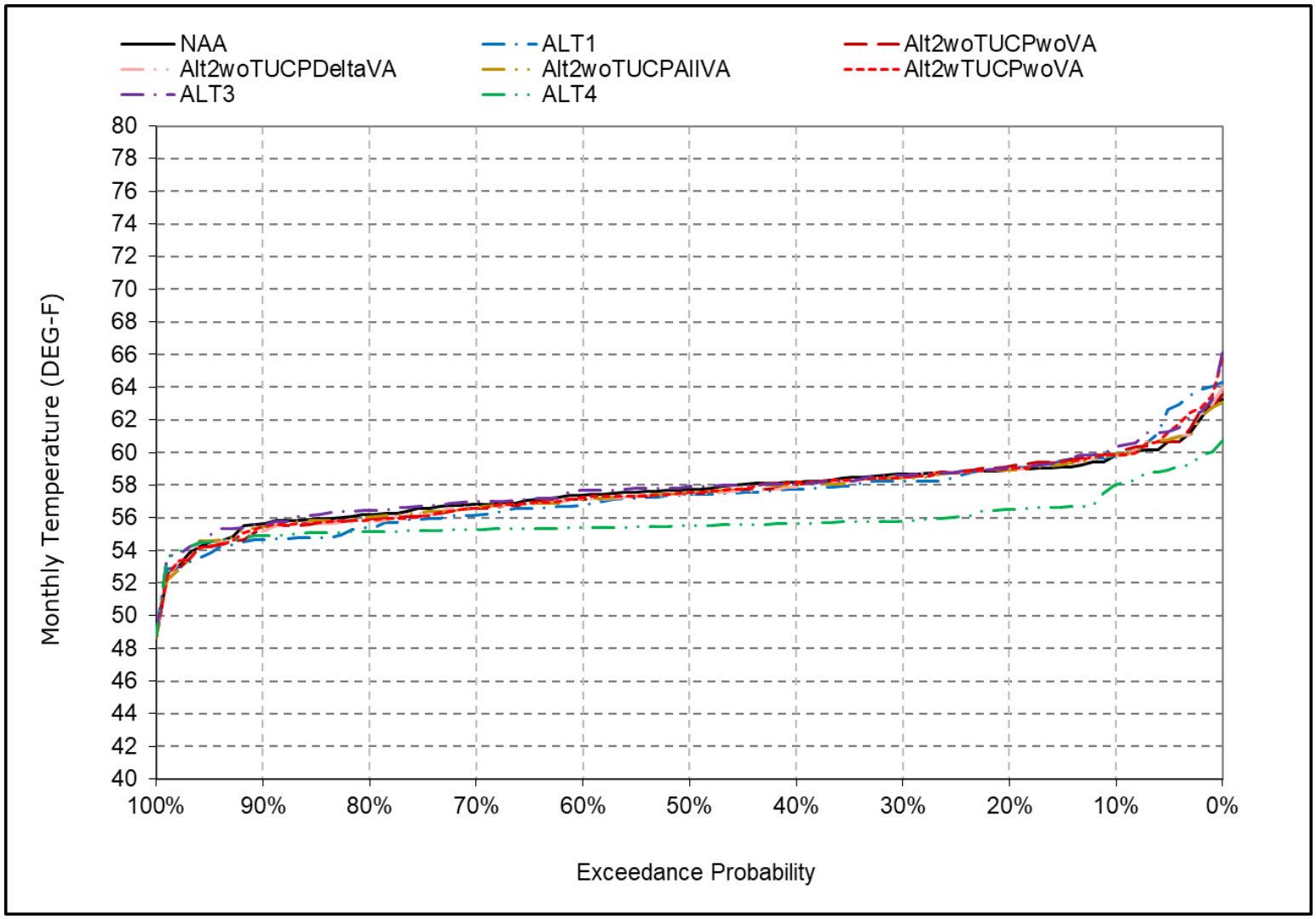
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-6. American River below Nimbus Dam, Critical Year Average Temperature



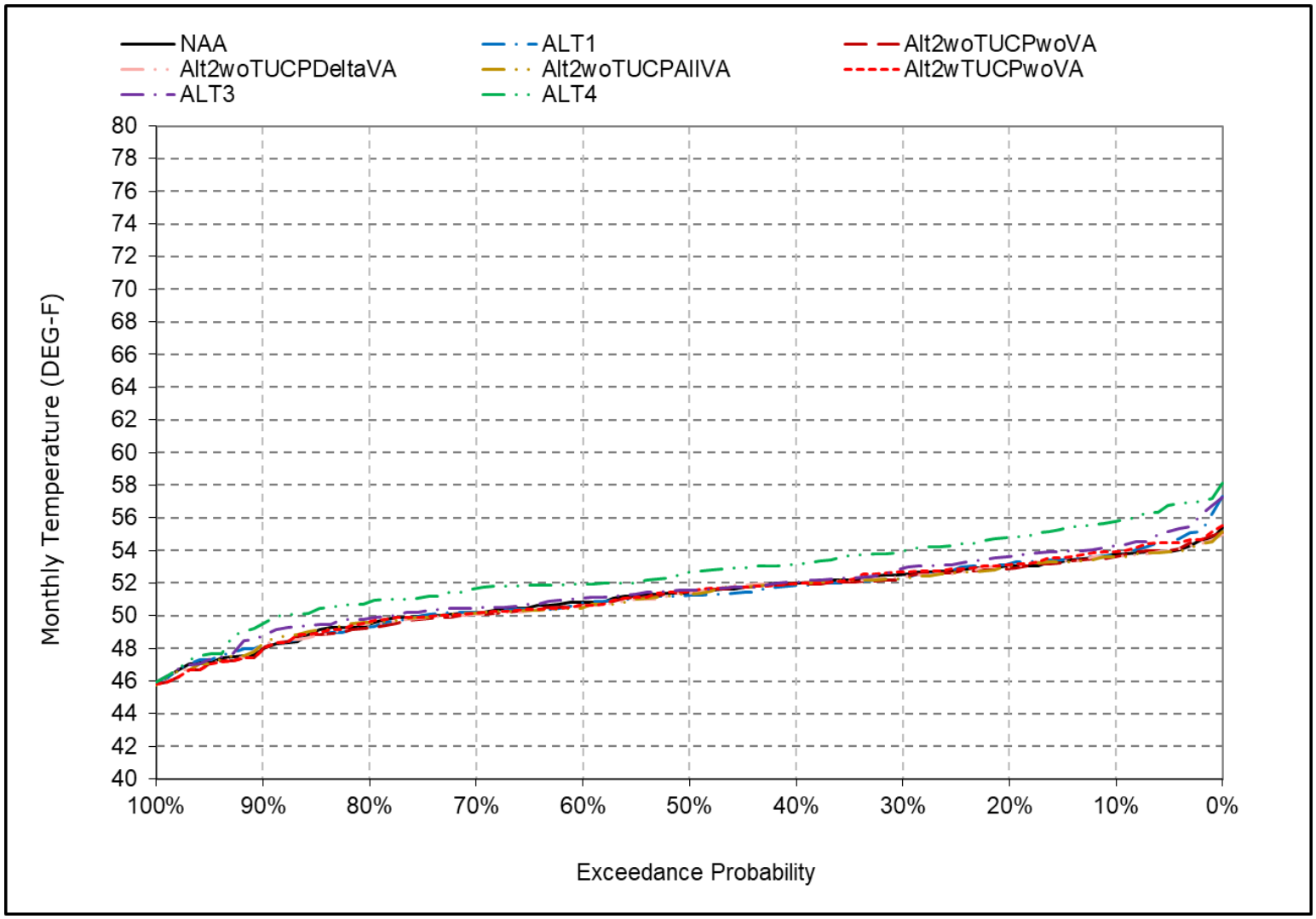
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-7. American River below Nimbus Dam, October



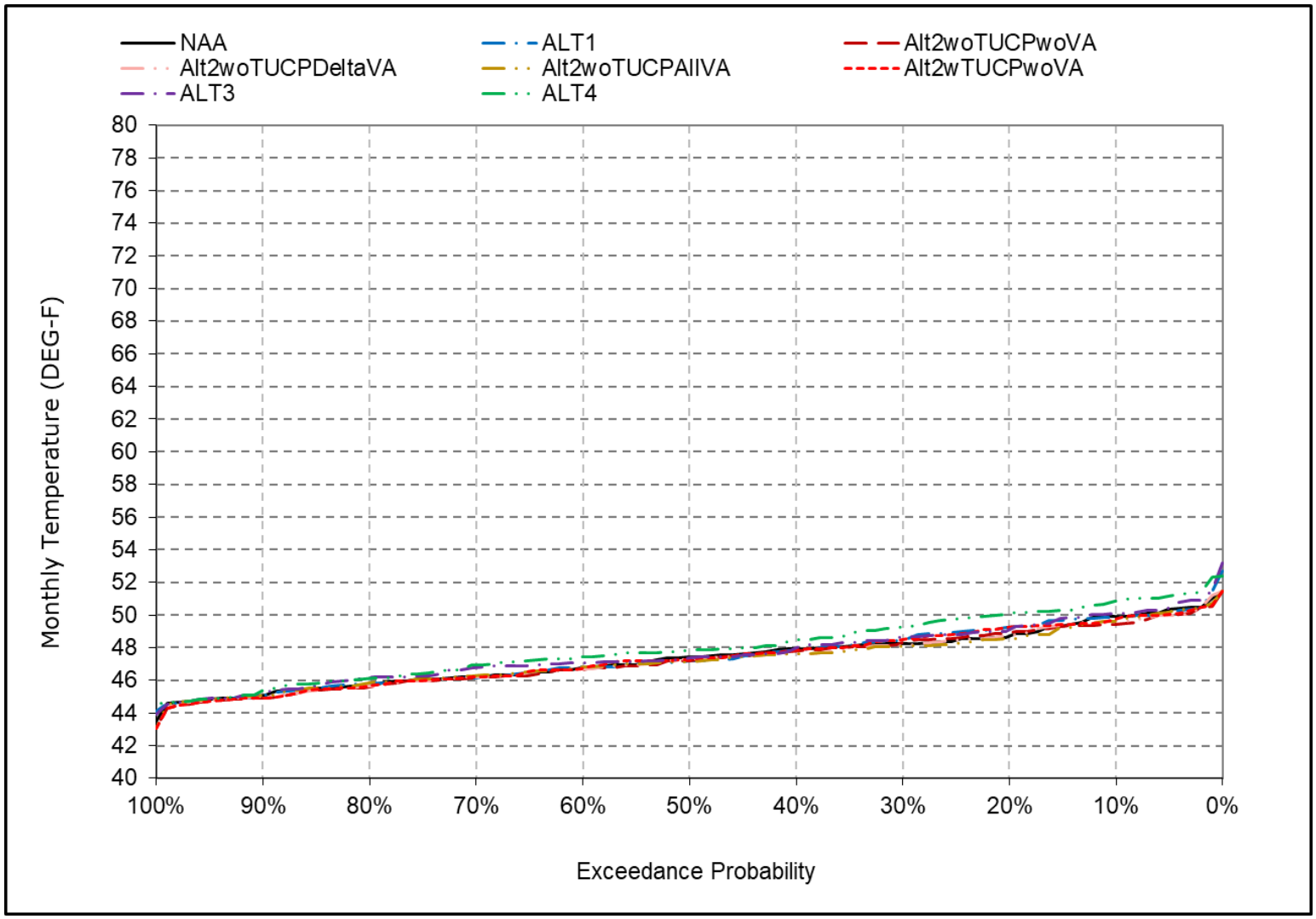
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-8. American River below Nimbus Dam, November



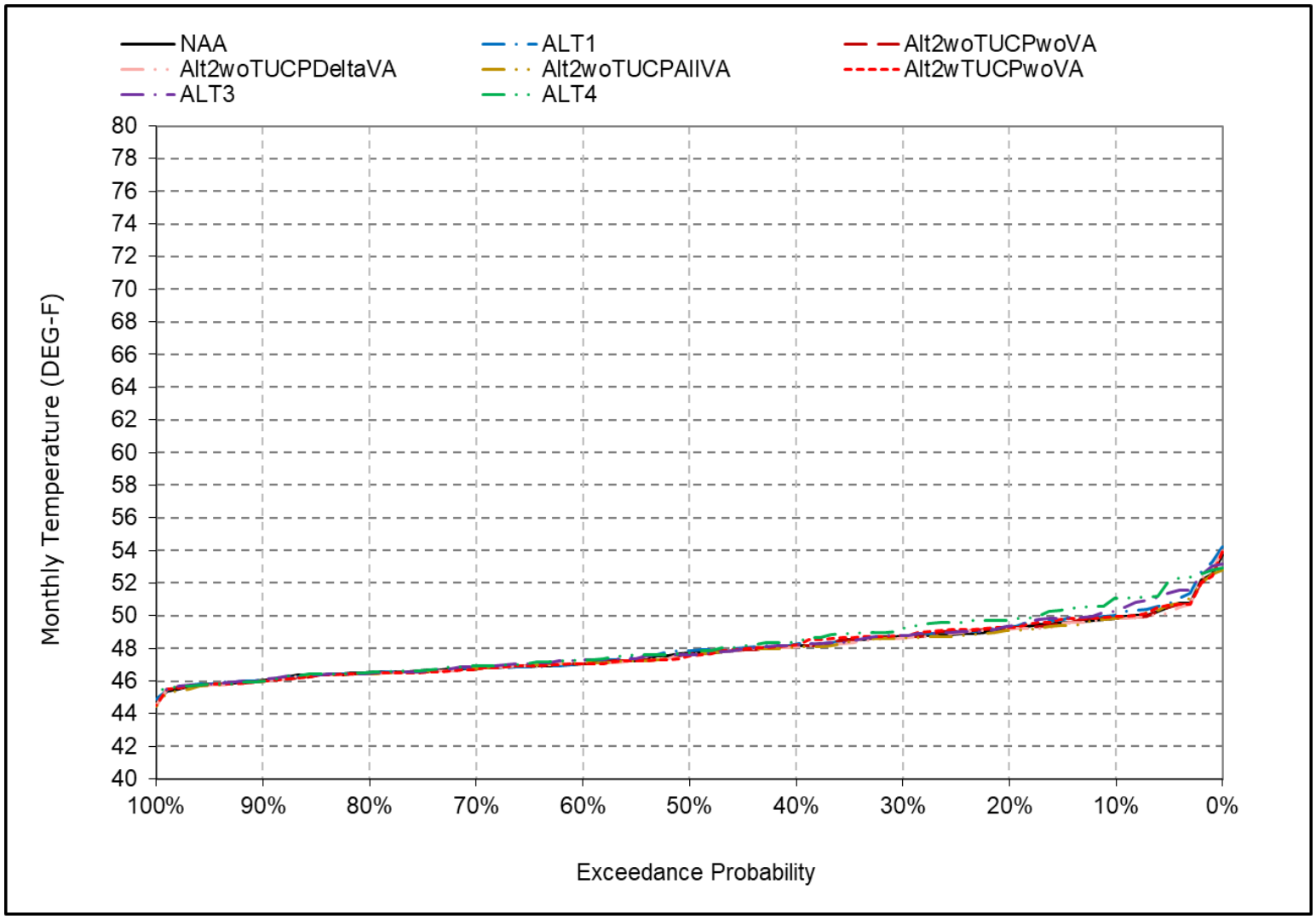
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-9. American River below Nimbus Dam, December



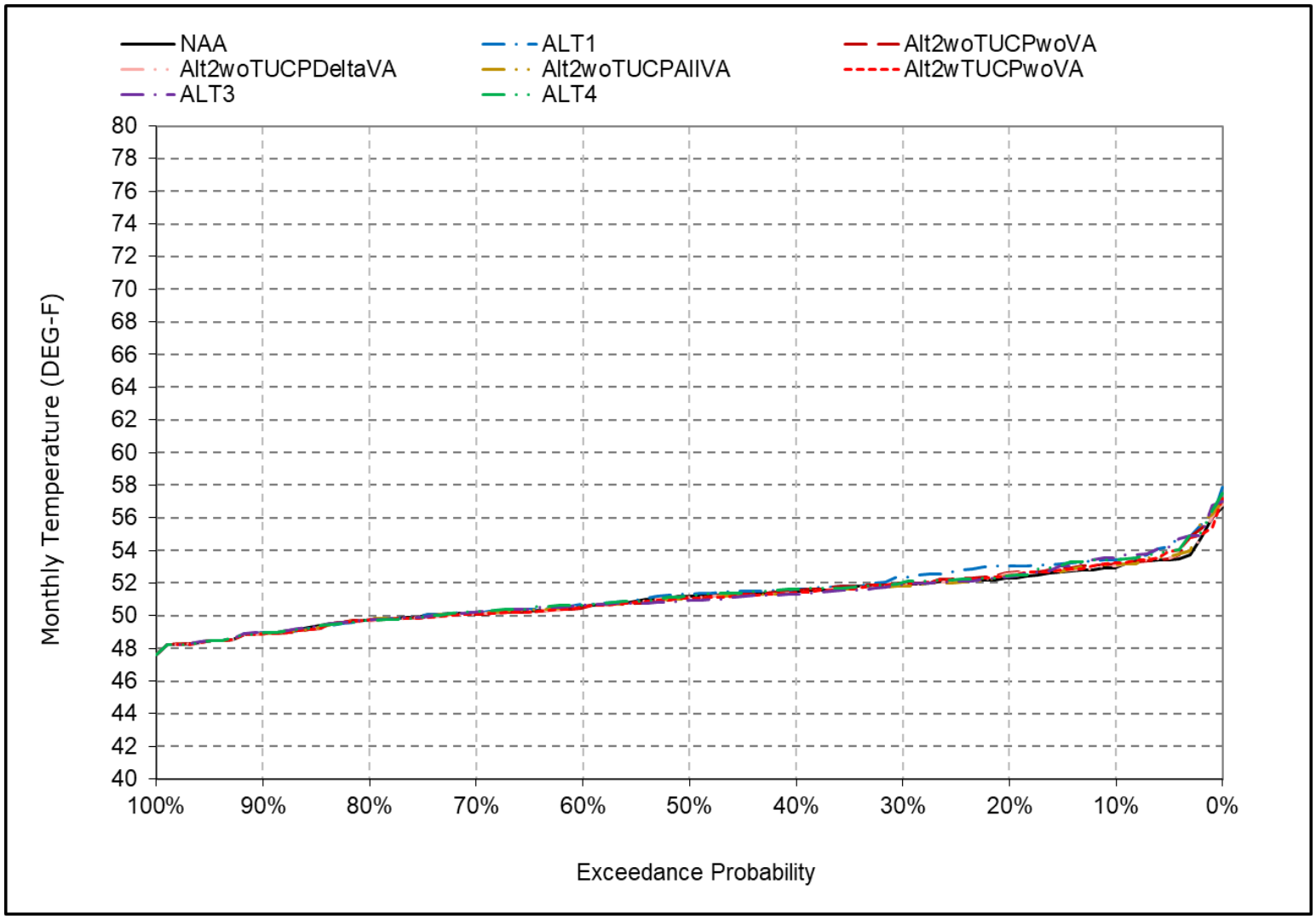
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-10. American River below Nimbus Dam, January



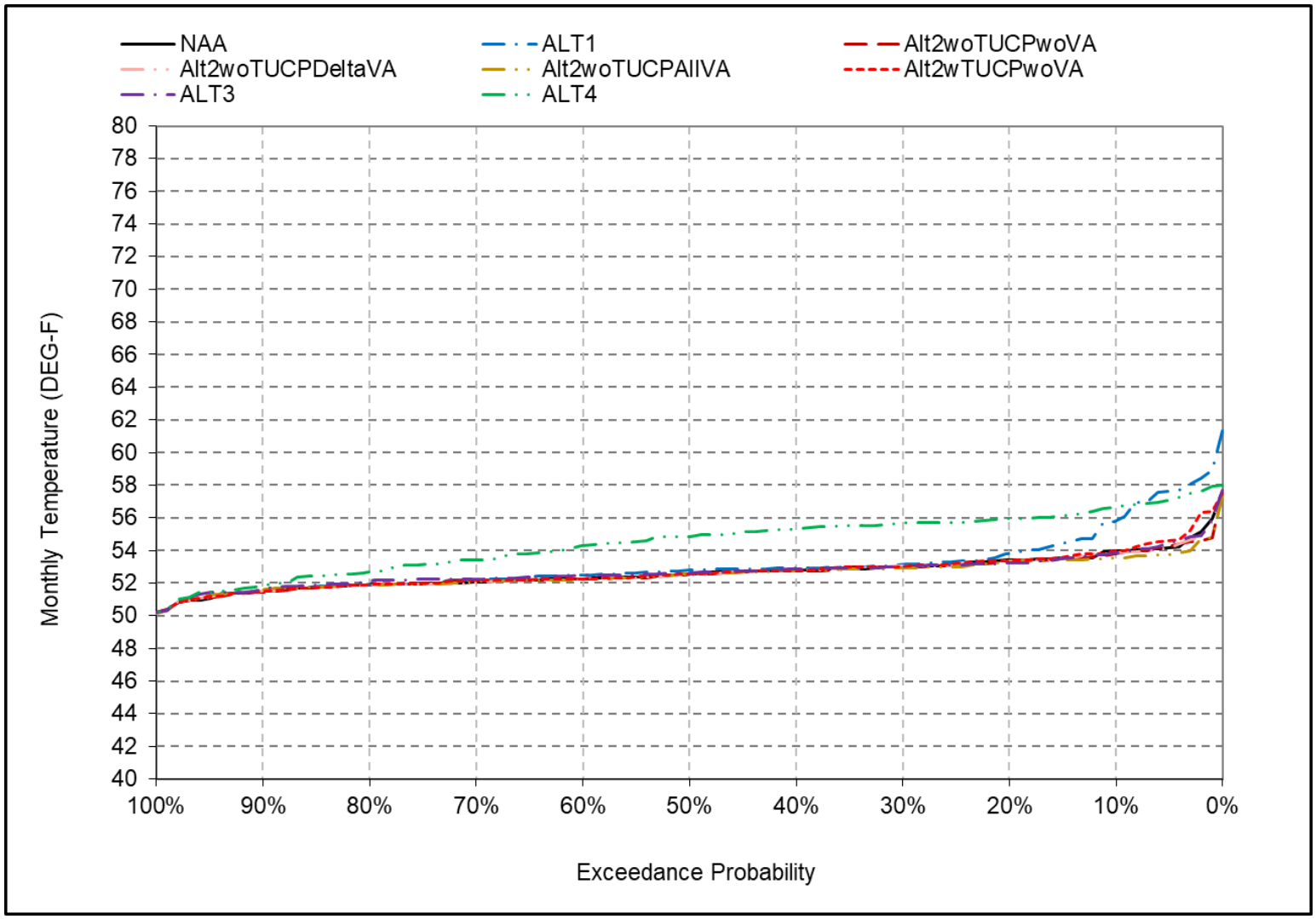
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-11. American River below Nimbus Dam, February



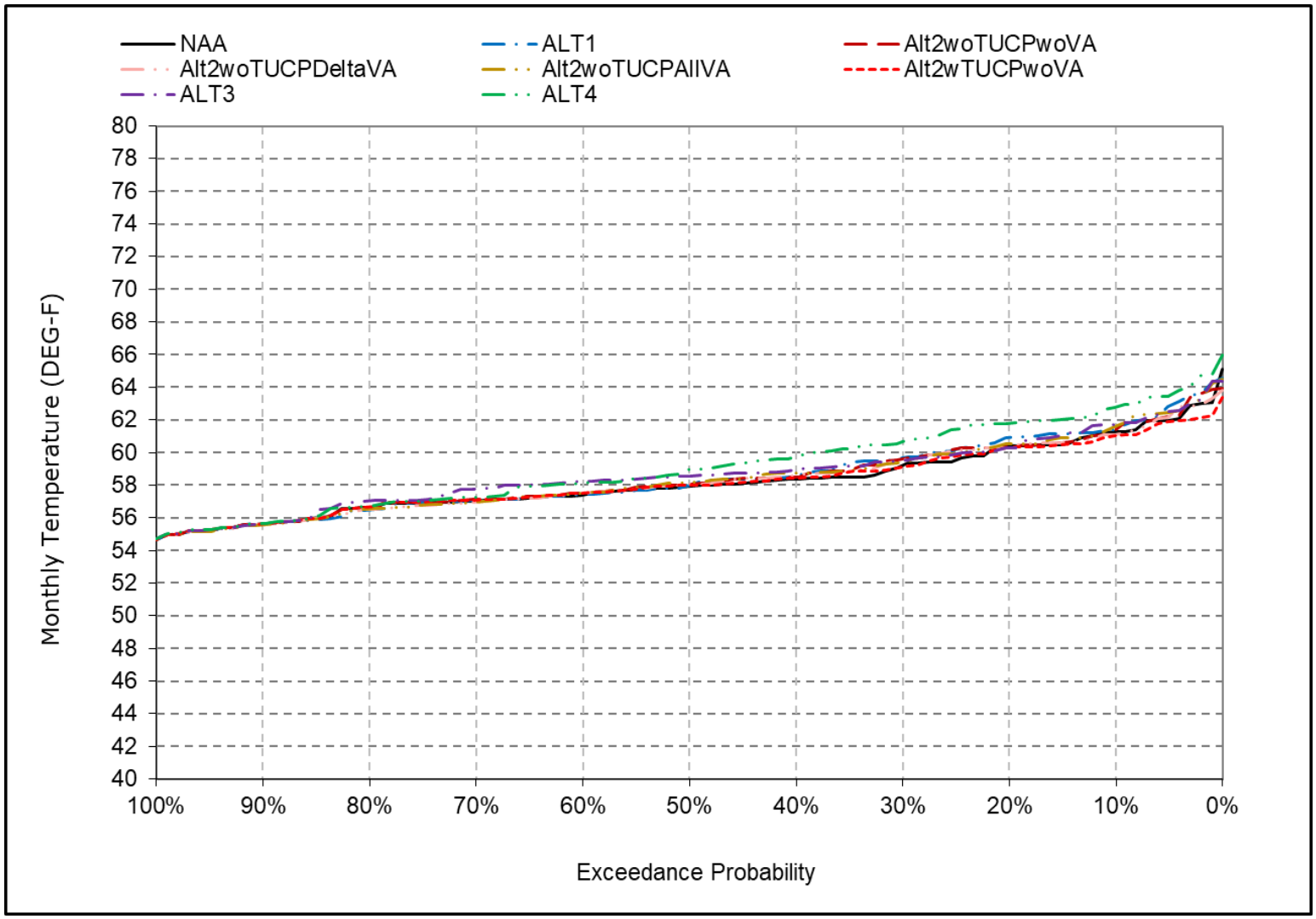
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-12. American River below Nimbus Dam, March



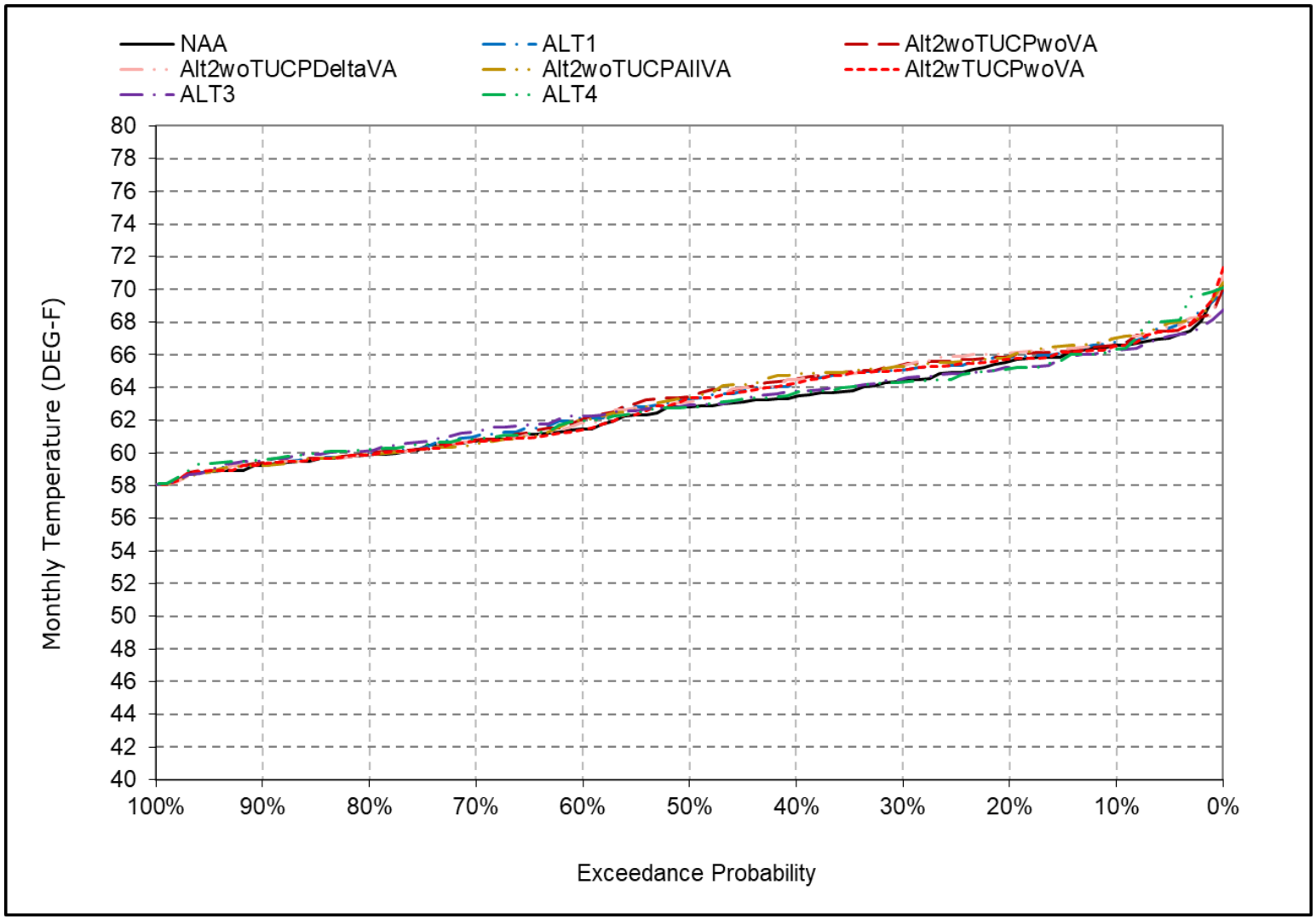
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-13. American River below Nimbus Dam, April



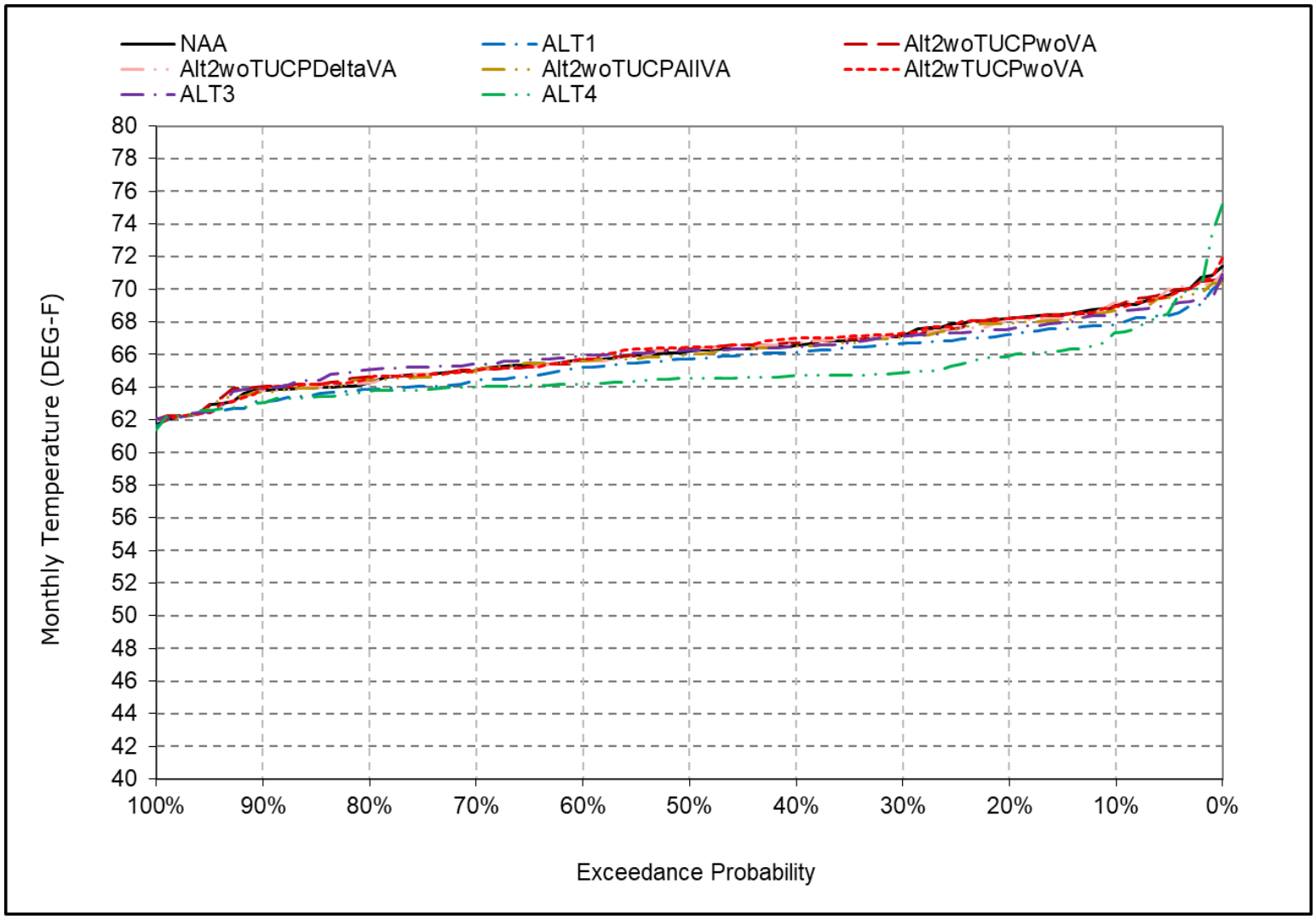
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-14. American River below Nimbus Dam, May



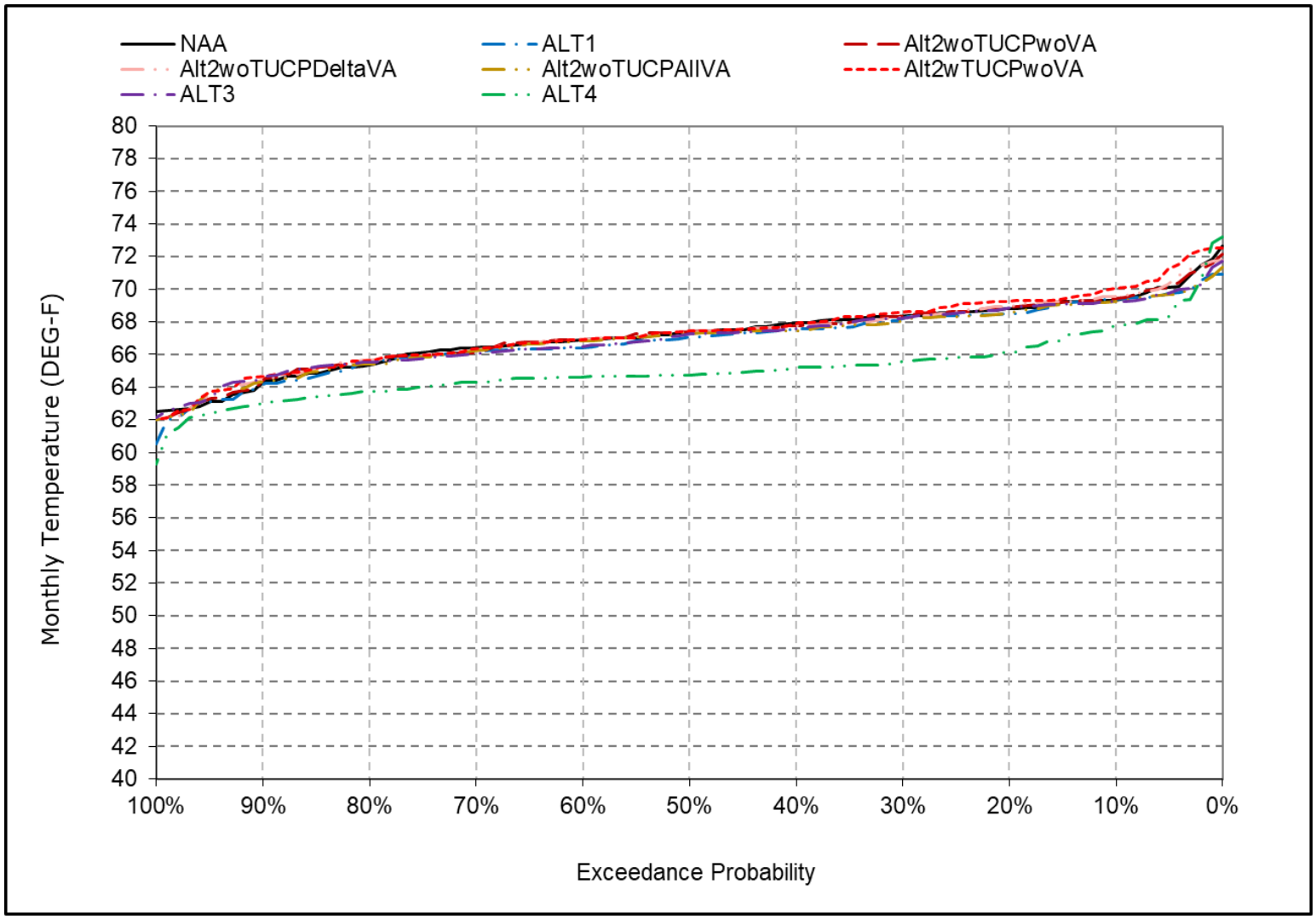
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-15. American River below Nimbus Dam, June



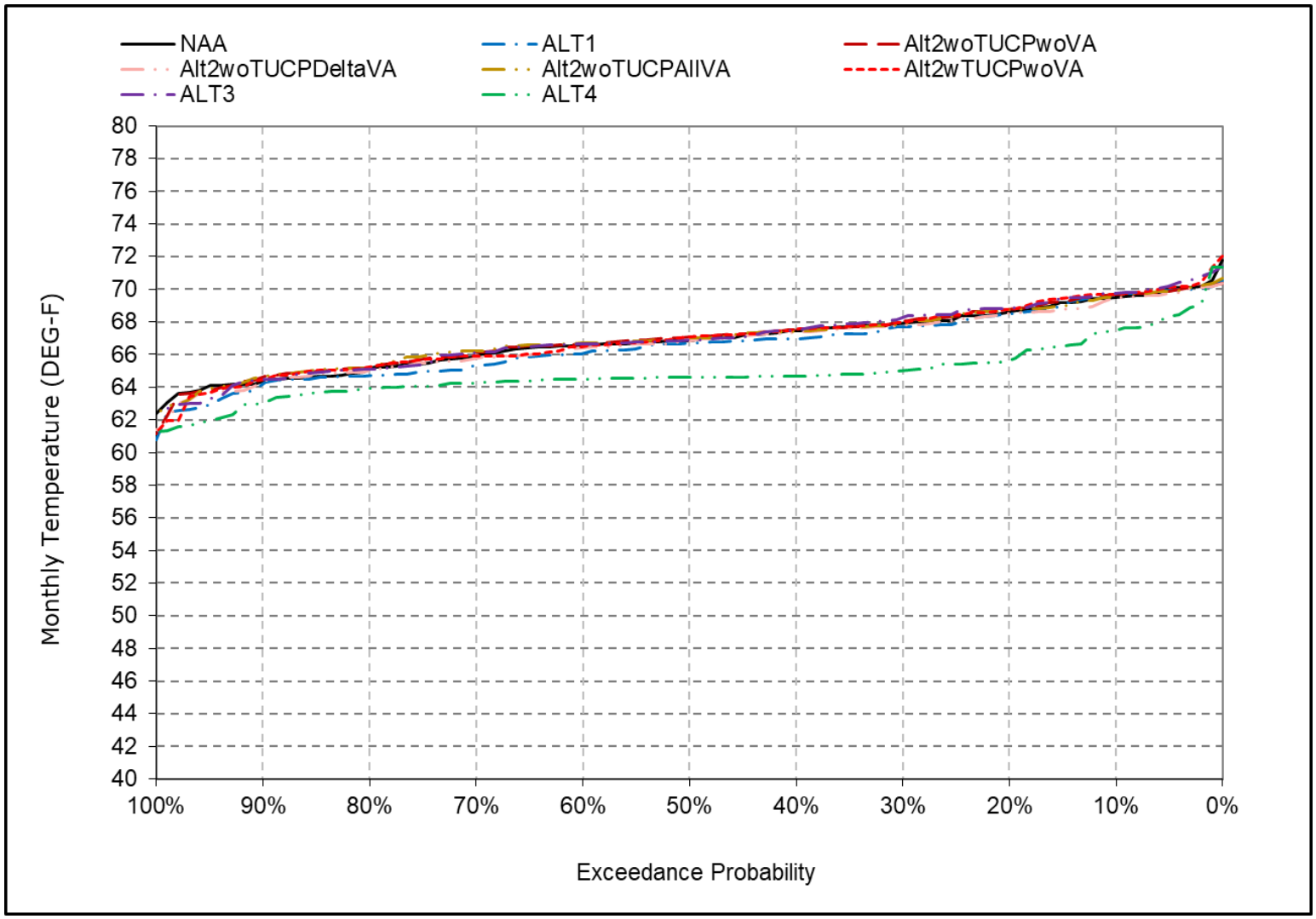
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-16. American River below Nimbus Dam, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-17. American River below Nimbus Dam, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-13-18. American River below Nimbus Dam, September

Table F.2.11-14-1a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-1b. American River at Watt Avenue, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	54	51	52	60	65	68	71	72	73	72
20% Exceedance	68	59	53	50	50	58	60	66	70	71	72	71
30% Exceedance	67	59	52	49	50	57	57	65	69	70	72	71
40% Exceedance	66.3	58.3	51.8	48.8	49.7	54.9	56.4	63.6	67.6	69.7	71.4	70.5
50% Exceedance	65.6	57.8	51.2	48.0	48.9	53.7	55.9	63.0	66.9	69.1	70.8	70.1
60% Exceedance	64.5	57.5	50.7	47.5	48.0	52.7	55.6	61.7	66.1	68.7	70.0	69.8
70% Exceedance	64.0	57.0	50.4	46.7	47.7	52.1	55.2	60.4	65.4	67.9	69.7	69.3
80% Exceedance	63.5	56.4	49.6	46.2	47.2	51.2	54.6	59.6	64.2	67.4	69.0	68.5
90% Exceedance	63.1	55.6	48.4	45.4	46.9	50.3	53.3	57.9	63.2	66.8	67.4	67.6
Full Simulation Period Average[a]	66	58	51	48	49	55	58	63	67	69	70	70
Wet Water Years (28%)	66	58	51	47	47	51	55	60	65	69	71	70
Above Normal Years (14%)	65	57	51	48	49	53	57	62	66	68	70	69
Below Normal Years (18%)	65	57	51	48	49	55	58	63	67	68	69	69
Dry Years (24%)	65	57	51	48	50	56	59	64	68	69	71	70
Critical (16%)	68	60	52	50	52	58	60	68	70	72	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-1c. American River at Watt Avenue, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.2	0.0	0.1	0.0	3.0	5.0	2.1	-0.9	-0.8	-0.2	0.4
20% Exceedance	0	0	0	0	0	2	1	1	0	-1	0	0
30% Exceedance	0.5	-0.2	0.0	0.5	-0.3	1.7	-0.6	0.2	0.4	-0.3	0.2	0.6
40% Exceedance	0	0	0	0	0	1	-1	0	-1	0	0	1
50% Exceedance	0	0	0	0	0	1	0	0	0	0	0	1
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
70% Exceedance	0	0	0	0	0	0	0	0	0	-1	0	1
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
90% Exceedance	0.8	-0.3	0.3	0.0	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.3	0.8
Full Simulation Period Average[a]	0.4	-0.1	0.0	0.1	0.1	1.0	0.7	0.5	-0.1	-0.4	0.0	0.6
Wet Water Years (28%)	0.7	-0.1	-0.2	0.1	0.0	0.1	0.2	0.0	0.2	0.3	0.3	0.8
Above Normal Years (14%)	0.7	-0.2	0.3	0.1	0.0	0.7	1.0	-0.1	-0.4	-0.5	0.4	0.6
Below Normal Years (18%)	0.3	-0.2	0.0	0.2	0.1	1.6	1.0	0.1	-1.0	-0.9	-0.6	0.2
Dry Years (24%)	-0.1	-0.4	-0.5	0.1	-0.3	1.7	1.9	0.4	0.5	-0.7	0.4	1.0
Critical (16%)	0	1	1	0	1	1	-1	2	0	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-2a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-2b. American River at Watt Avenue, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	53	51	52	57	60	66	72	73	73	72
20% Exceedance	67	59	53	50	51	56	59	65	70	72	72	71
30% Exceedance	67	59	52	49	50	56	57	65	69	71	72	71
40% Exceedance	65.7	58.3	51.8	48.4	49.7	54.3	56.5	63.8	68.8	70.0	71.5	70.1
50% Exceedance	65.2	58.0	51.5	48.0	48.8	53.1	56.2	62.7	67.4	69.2	70.6	69.7
60% Exceedance	64.5	57.5	50.8	47.4	48.0	52.6	55.7	61.9	66.5	68.9	70.0	69.2
70% Exceedance	64.0	57.1	50.3	46.6	47.7	52.0	55.2	60.4	65.3	68.4	69.8	68.7
80% Exceedance	63.4	56.4	49.5	46.0	47.1	51.2	54.7	59.8	64.2	68.0	69.2	67.6
90% Exceedance	62.7	55.6	48.3	45.4	46.8	50.2	53.3	57.9	63.4	67.5	67.1	66.9
Full Simulation Period Average[a]	65	58	51	48	49	54	57	63	67	70	71	69
Wet Water Years (28%)	66	58	51	46	47	51	54	60	64	69	70	70
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	70	68
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	68
Dry Years (24%)	65	58	51	48	50	55	57	63	69	70	70	69
Critical (16%)	68	60	52	49	52	57	59	67	71	73	73	72

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-2c. American River at Watt Avenue, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.3	-0.5	0.0	-0.2	0.3	0.1	0.0	0.5	0.3	-0.2	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	-0.1	0.0	0.2	0.0	0.6	-0.3	0.0	0.6	0.1	0.2	0.1
40% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.4	-0.3	0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.2	-0.5	0.1
Full Simulation Period Average[a]	0.1	-0.1	-0.1	-0.1	0.0	0.1	-0.2	0.0	0.3	0.1	0.1	0.1
Wet Water Years (28%)	0.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4
Above Normal Years (14%)	-0.1	-0.1	-0.3	-0.2	0.0	-0.1	0.0	-0.1	0.1	-0.1	0.3	-0.2
Below Normal Years (18%)	-0.1	-0.1	0.1	-0.1	-0.1	0.1	0.2	-0.1	0.0	0.1	0.2	-0.4
Dry Years (24%)	-0.3	-0.1	-0.3	0.0	0.0	0.3	0.0	-0.1	0.8	0.0	-0.1	0.0
Critical (16%)	0	0	0	0	0	0	-2	1	1	0	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-3a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-3b. American River at Watt Avenue, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	53	50	52	57	61	66	72	73	72	72
20% Exceedance	67	59	53	50	51	56	59	65	70	71	72	71
30% Exceedance	67	59	52	49	50	55	58	65	69	70	72	70
40% Exceedance	65.8	58.4	52.0	48.3	49.8	54.3	56.5	63.8	68.7	69.7	71.4	70.0
50% Exceedance	65.2	58.1	51.6	48.0	48.9	53.2	56.2	62.7	67.3	69.3	70.9	69.5
60% Exceedance	64.6	57.5	50.8	47.4	47.9	52.7	55.7	61.8	66.4	68.9	70.2	69.1
70% Exceedance	63.9	57.0	50.2	46.7	47.7	52.0	55.2	60.4	65.2	68.3	69.8	68.3
80% Exceedance	63.3	56.3	49.6	46.0	47.1	51.3	54.6	59.6	64.1	67.9	69.3	67.5
90% Exceedance	62.7	55.5	48.3	45.4	46.9	50.3	53.3	57.9	63.4	67.1	67.6	66.7
Full Simulation Period Average[a]	65	58	51	48	49	54	57	63	67	70	71	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	70	68
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	68
Dry Years (24%)	65	57	51	48	50	54	57	63	69	70	71	69
Critical (16%)	68	60	52	50	52	57	59	67	71	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-3c. American River at Watt Avenue, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.0	-0.3	-0.2	-0.2	0.3	0.1	-0.1	0.4	0.6	-0.4	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	-0.1	-0.2	-0.1	0.0	0.1	-0.2	0.0	0.6	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.4	-0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2
Full Simulation Period Average[a]	0.1	-0.1	-0.1	0.0	0.0	0.1	-0.1	0.0	0.3	0.0	0.1	-0.1
Wet Water Years (28%)	0.5	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Above Normal Years (14%)	-0.1	0.0	-0.2	0.0	0.0	-0.1	0.0	-0.1	0.1	0.0	0.4	-0.2
Below Normal Years (18%)	-0.1	-0.1	0.0	-0.1	-0.1	0.1	0.3	0.0	0.1	0.0	-0.1	-0.4
Dry Years (24%)	-0.3	-0.3	-0.3	-0.2	-0.1	0.1	0.0	0.0	0.6	0.0	0.1	-0.2
Critical (16%)	0	0	0	0	0	0	-1	0	1	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-4a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-4b. American River at Watt Avenue, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	54	50	52	57	60	66	72	73	72	72
20% Exceedance	67	59	53	49	51	56	59	65	70	71	72	71
30% Exceedance	67	59	52	49	50	55	58	64	70	70	72	71
40% Exceedance	66.1	58.4	51.9	48.3	49.7	54.3	56.4	63.8	68.7	69.7	71.2	70.0
50% Exceedance	65.4	58.1	51.4	48.0	48.6	53.1	56.1	63.0	67.6	69.2	70.6	69.7
60% Exceedance	64.8	57.5	50.8	47.4	48.0	52.7	55.6	61.6	66.2	68.7	70.1	69.3
70% Exceedance	64.3	57.1	50.2	46.8	47.7	52.1	55.2	60.4	65.1	68.4	69.7	68.8
80% Exceedance	63.8	56.6	49.8	46.3	47.1	51.2	54.7	59.7	64.1	67.9	69.0	67.8
90% Exceedance	63.0	55.8	48.4	45.4	46.9	50.2	53.3	57.9	63.3	67.3	67.7	66.8
Full Simulation Period Average[a]	65	58	51	48	49	54	56	63	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	59	64	68	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	57	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	65	58	51	48	50	54	57	63	69	70	70	69
Critical (16%)	68	60	52	49	52	57	58	66	71	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-4c. American River at Watt Avenue, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.0	-0.2	-0.2	-0.1	0.1	-0.7	-0.2	0.2	0.2	-0.3	0.2
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	-0.1	-0.2	-0.2	0.0	0.2	-0.3	-0.2	0.8	-0.3	0.0	0.3
40% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.7	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1
Full Simulation Period Average[a]	0.3	-0.1	-0.1	0.0	0.0	0.0	-0.4	0.0	0.3	0.0	0.0	0.1
Wet Water Years (28%)	0.5	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.1	0.3
Above Normal Years (14%)	0.0	-0.2	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	-0.1	0.0	-0.1
Below Normal Years (18%)	0.0	-0.2	-0.1	-0.2	-0.1	0.0	0.1	0.0	0.3	0.0	0.2	0.3
Dry Years (24%)	0.2	0.0	-0.2	0.0	0.0	0.0	-0.1	0.1	0.6	-0.1	-0.2	0.1
Critical (16%)	0	0	0	0	0	0	-2	0	1	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-5a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-5b. American River at Watt Avenue, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	54	51	52	57	61	66	72	73	73	72
20% Exceedance	67	59	53	50	51	56	60	65	70	72	72	71
30% Exceedance	66	59	53	49	50	55	58	65	69	71	72	70
40% Exceedance	65.7	58.5	52.1	48.6	49.7	54.3	57.0	63.5	68.5	70.1	71.5	69.8
50% Exceedance	65.3	58.0	51.6	47.9	48.7	53.2	56.3	62.6	67.4	69.4	70.5	69.6
60% Exceedance	64.6	57.5	50.7	47.5	48.0	52.7	55.7	61.4	66.3	68.8	70.0	69.0
70% Exceedance	63.8	57.1	50.4	46.6	47.7	52.0	55.2	60.4	65.2	68.3	69.8	68.6
80% Exceedance	63.3	56.4	49.6	46.0	47.1	51.2	54.7	59.8	64.0	67.9	69.2	67.6
90% Exceedance	62.6	55.6	48.3	45.4	46.8	50.2	53.3	57.9	63.4	67.4	67.9	67.1
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	71	69
Wet Water Years (28%)	66	58	51	46	47	51	54	60	64	69	70	70
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	70	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	68
Dry Years (24%)	65	58	51	48	50	55	57	63	69	70	70	69
Critical (16%)	67	59	52	50	52	57	61	66	71	73	73	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-5c. American River at Watt Avenue, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	0.1	0.2	0.1	0.2	0.5	0.5	-0.4	0.2	0.0	-0.1	0.2
20% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
30% Exceedance	-0.1	0.0	0.1	0.5	0.0	0.5	0.5	0.0	0.5	0.2	0.2	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.3	-0.3	0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.2
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.3	0.0	0.2	0.1
Wet Water Years (28%)	0.6	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4
Above Normal Years (14%)	-0.1	0.0	-0.2	0.0	0.0	-0.1	0.0	0.0	0.1	0.0	0.5	-0.1
Below Normal Years (18%)	-0.2	0.1	0.1	-0.1	-0.1	0.1	0.2	-0.1	0.0	0.3	0.5	-0.3
Dry Years (24%)	-0.3	0.0	-0.3	0.0	0.0	0.3	0.0	-0.1	0.8	0.0	-0.1	0.0
Critical (16%)	0	0	1	0	0	1	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-6a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-6b. American River at Watt Avenue, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	60	54	51	53	56	59	67	73	72	73	72
20% Exceedance	67	59	53	50	51	56	57	65	72	72	72	71
30% Exceedance	67	59	52	49	50	55	56	65	70	71	72	71
40% Exceedance	66.3	58.6	52.0	48.5	49.7	53.7	56.0	64.0	69.2	70.0	71.0	70.2
50% Exceedance	65.7	58.1	51.6	48.1	48.9	53.0	55.9	62.8	68.7	69.5	70.4	69.3
60% Exceedance	64.9	57.8	51.1	47.6	48.2	52.7	55.6	62.1	68.0	69.1	69.8	68.9
70% Exceedance	64.3	57.3	50.6	47.1	47.8	52.1	55.1	60.8	66.5	68.8	69.0	68.7
80% Exceedance	63.9	56.8	49.9	46.4	47.2	51.3	54.6	59.7	64.8	68.4	68.5	67.6
90% Exceedance	63.2	56.2	49.1	45.7	46.9	50.3	53.3	57.9	63.4	67.7	67.5	66.9
Full Simulation Period Average[a]	66	58	52	48	49	53	56	63	68	70	70	69
Wet Water Years (28%)	66	58	52	47	47	51	54	60	65	69	70	69
Above Normal Years (14%)	65	57	51	48	49	52	56	63	68	69	69	69
Below Normal Years (18%)	65	58	52	48	49	53	56	63	69	70	70	69
Dry Years (24%)	65	58	52	48	50	54	57	64	69	70	70	69
Critical (16%)	68	59	52	50	52	57	60	66	71	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-6c. American River at Watt Avenue, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.5	0.6	0.1	0.8	-0.3	-1.3	0.5	1.2	-0.4	-0.2	0.2
20% Exceedance	0	0	0	0	0	0	-2	0	2	0	0	0
30% Exceedance	0.4	0.0	0.0	0.3	-0.1	-0.4	-1.4	0.2	1.4	0.3	-0.1	0.3
40% Exceedance	0	0	0	0	0	0	-1	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
60% Exceedance	0	0	0	0	0	0	0	1	2	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	1	0	-1	0
80% Exceedance	0	0	0	0	0	0	0	0	1	1	0	0
90% Exceedance	0.9	0.3	1.0	0.2	0.1	0.0	0.0	0.0	0.1	0.4	-0.2	0.0
Full Simulation Period Average[a]	0.5	0.2	0.3	0.2	0.1	-0.2	-0.7	0.3	1.2	0.3	-0.2	0.1
Wet Water Years (28%)	0.4	0.0	0.1	0.2	0.1	-0.1	-0.2	0.4	0.7	0.2	-0.4	0.1
Above Normal Years (14%)	0.7	-0.3	-0.2	0.1	0.0	-0.4	-0.6	0.6	1.7	0.5	-0.5	0.2
Below Normal Years (18%)	1.0	0.8	0.7	0.1	0.2	-0.6	-1.3	0.2	1.1	0.6	0.1	0.2
Dry Years (24%)	0.2	0.4	0.5	0.0	0.0	0.0	-0.8	0.4	1.5	0.1	-0.2	0.0
Critical (16%)	0	0	0	1	0	0	-1	0	1	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-7a. American River at Watt Avenue, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68.0	59.9	53.7	50.7	51.8	56.7	60.4	66.4	71.6	72.7	72.7	71.5
20% Exceedance	67.3	59.3	52.8	49.6	50.8	56.0	59.2	65.2	69.8	71.5	72.0	70.9
30% Exceedance	66.5	58.9	52.4	48.9	50.4	55.0	57.8	64.5	68.7	70.5	71.6	70.4
40% Exceedance	65.9	58.6	52.2	48.5	49.6	54.1	57.2	63.6	68.3	69.6	71.1	69.8
50% Exceedance	65	58	52	48	49	53	56	63	67	69	71	70
60% Exceedance	64	58	51	47	48	53	56	61	66	69	70	69
70% Exceedance	64	57	50	47	48	52	55	60	65	69	70	69
80% Exceedance	63	57	50	46	47	51	55	60	64	68	69	68
90% Exceedance	62	56	48	45	47	50	53	58	63	67	68	67
Full Simulation Period Average[a]	65	58	51	48	49	54	57	62	67	70	70	69
Wet Water Years (28%)	66	58	51	47	47	51	54	60	64	69	70	69
Above Normal Years (14%)	64	57	51	48	49	53	56	62	67	69	69	69
Below Normal Years (18%)	64	58	51	48	49	54	57	63	68	69	70	69
Dry Years (24%)	64.9	57.7	51.1	48.3	49.8	54.4	57.3	63.3	67.9	69.7	70.4	69.4
Critical (16%)	67	60	52	49	52	57	60	66	70	73	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-7b. American River at Watt Avenue, Alternative 4, Monthly Temperature (°F)

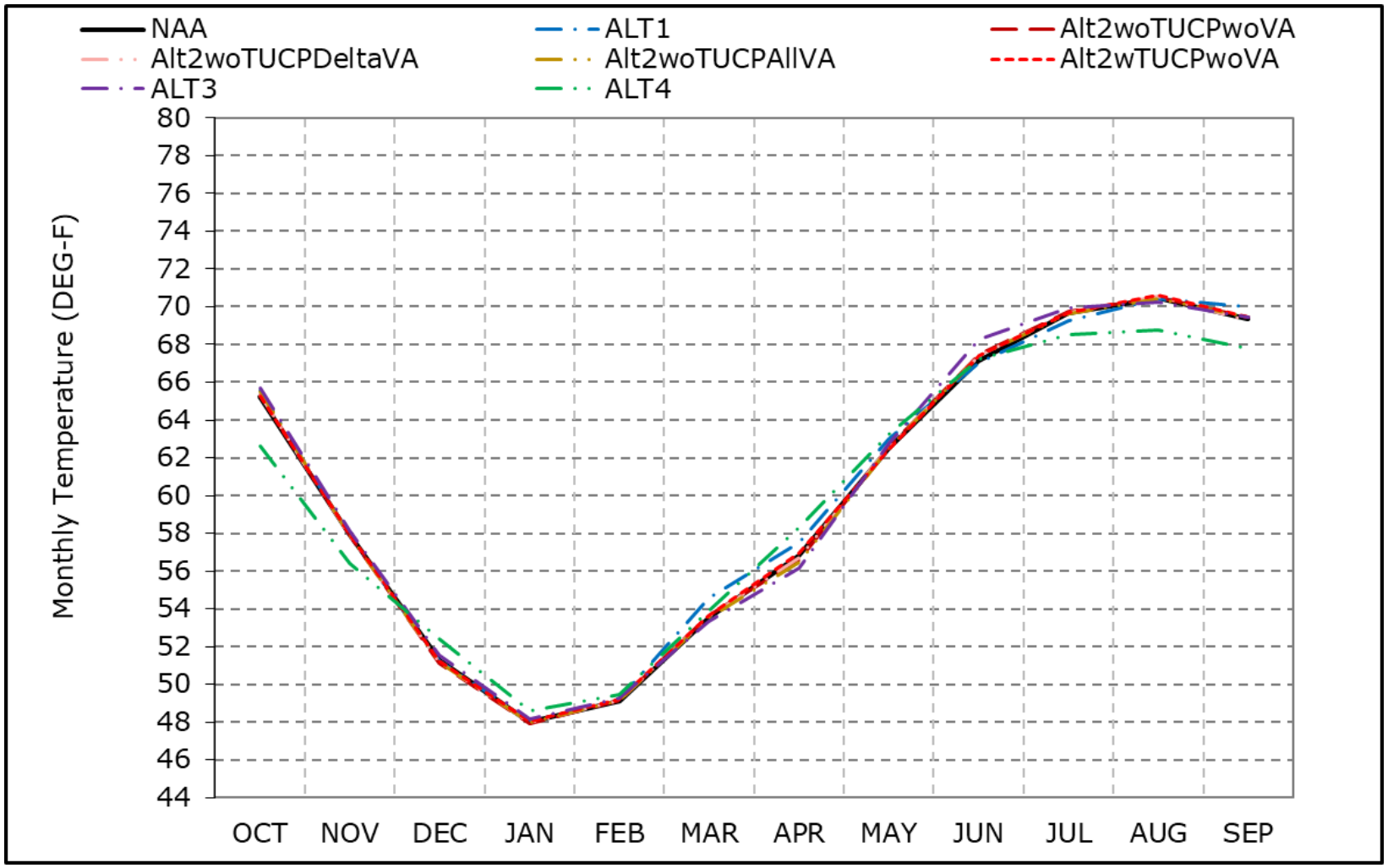
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	65	59	55	52	53	58	63	68	72	71	71	71
20% Exceedance	64	57	54	51	51	57	62	67	70	69	70	69
30% Exceedance	63	57	54	50	51	56	61	66	68	69	69	68
40% Exceedance	62.4	56.3	53.0	49.1	49.8	54.5	59.5	64.7	67.8	68.2	68.6	67.5
50% Exceedance	62.2	56.1	52.2	48.6	49.1	53.5	58.2	63.1	67.0	67.9	68.5	67.3
60% Exceedance	62.0	55.9	51.9	47.9	48.1	52.7	57.4	62.2	66.2	67.6	68.1	67.0
70% Exceedance	61.8	55.8	51.3	47.3	47.9	52.1	55.9	60.5	65.2	67.3	67.8	66.8
80% Exceedance	61.5	55.6	50.7	46.5	47.3	51.3	55.2	59.7	64.5	66.9	67.4	66.5
90% Exceedance	60.8	55.3	49.5	45.8	46.9	50.2	53.4	58.0	63.5	66.5	66.8	66.1
Full Simulation Period Average[a]	63	56	52	49	49	54	58	63	67	69	69	68
Wet Water Years (28%)	62	56	53	47	47	51	55	60	64	68	68	67
Above Normal Years (14%)	62	55	52	49	49	53	58	63	66	67	68	67
Below Normal Years (18%)	61	56	52	49	49	54	59	63	67	67	68	67
Dry Years (24%)	63	57	52	49	50	55	60	64	68	68	68	68
Critical (16%)	65	58	53	50	53	58	62	67	71	72	72	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-14-7c. American River at Watt Avenue, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

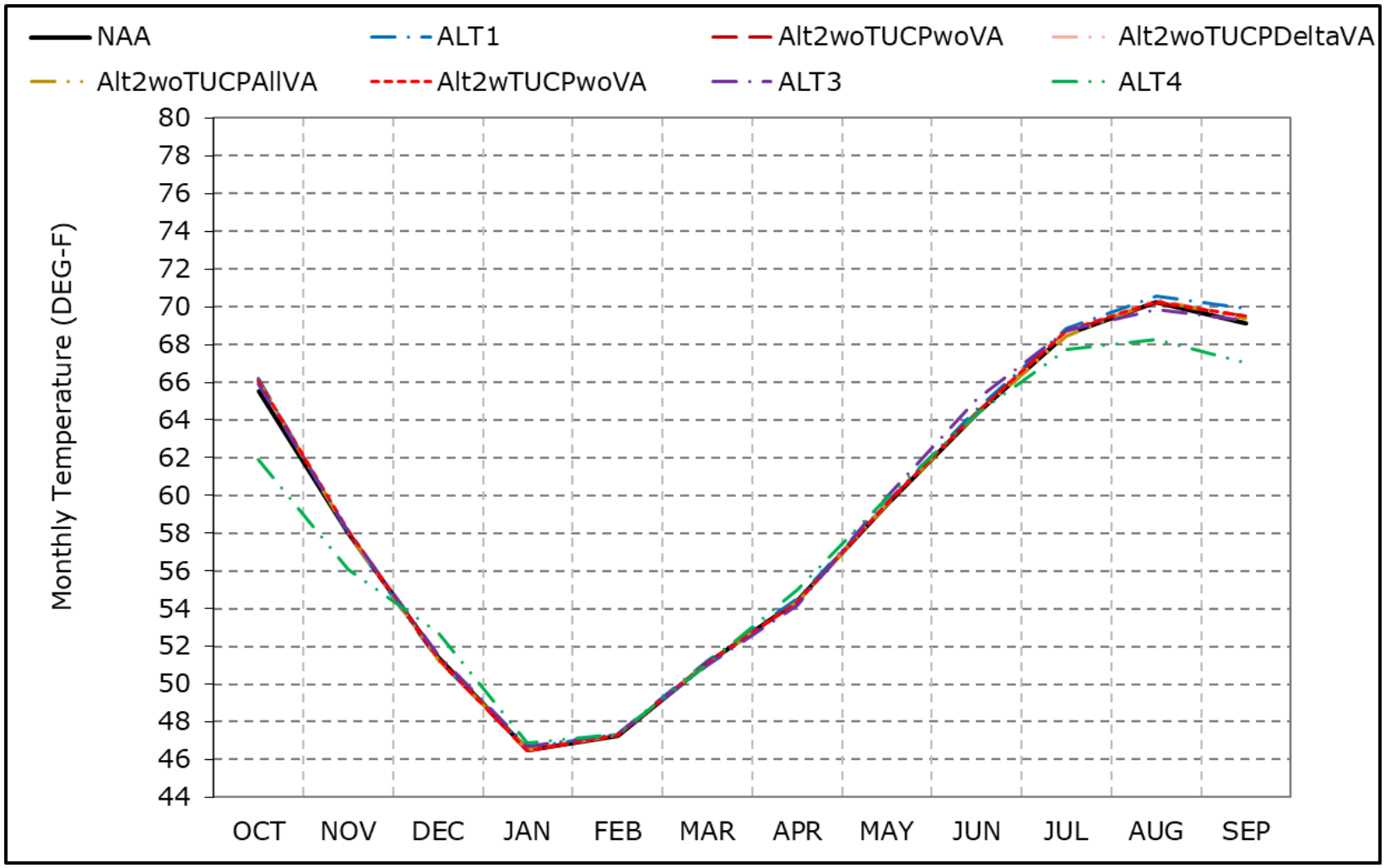
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2.9	-1.0	1.7	0.9	1.4	1.1	2.4	2.0	0.4	-1.5	-1.3	-0.7
20% Exceedance	-3	-2	2	1	0	1	3	1	0	-2	-2	-1
30% Exceedance	-3.5	-2.3	1.2	1.0	0.2	0.8	2.7	1.0	-0.4	-1.7	-2.7	-2.2
40% Exceedance	-3	-2	1	1	0	0	2	1	0	-1	-2	-2
50% Exceedance	-3	-2	1	1	0	0	2	0	0	-1	-2	-2
60% Exceedance	-2	-2	1	0	0	0	2	1	0	-1	-2	-2
70% Exceedance	-2	-1	1	1	0	0	1	0	0	-1	-2	-2
80% Exceedance	-2	-1	1	0	0	0	0	0	0	-1	-2	-1
90% Exceedance	-1.5	-0.6	1.5	0.4	0.0	0.0	0.0	0.0	0.1	-0.8	-0.8	-0.7
Full Simulation Period Average[a]	-2.6	-1.6	1.2	0.6	0.3	0.4	1.5	0.7	0.1	-1.1	-1.7	-1.6
Wet Water Years (28%)	-3.6	-2.0	1.3	0.4	0.1	0.0	0.6	0.3	0.0	-0.8	-2.0	-2.1
Above Normal Years (14%)	-1.9	-1.7	1.1	0.5	0.1	0.0	1.4	0.5	-0.5	-1.5	-1.3	-1.8
Below Normal Years (18%)	-2.9	-1.2	1.3	0.6	0.3	0.4	1.5	0.5	-0.5	-1.7	-1.5	-1.8
Dry Years (24%)	-1.8	-1.0	1.0	0.6	0.4	0.5	2.2	1.1	0.3	-1.3	-2.1	-1.5
Critical (16%)	-2	-2	1	1	1	1	2	1	1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



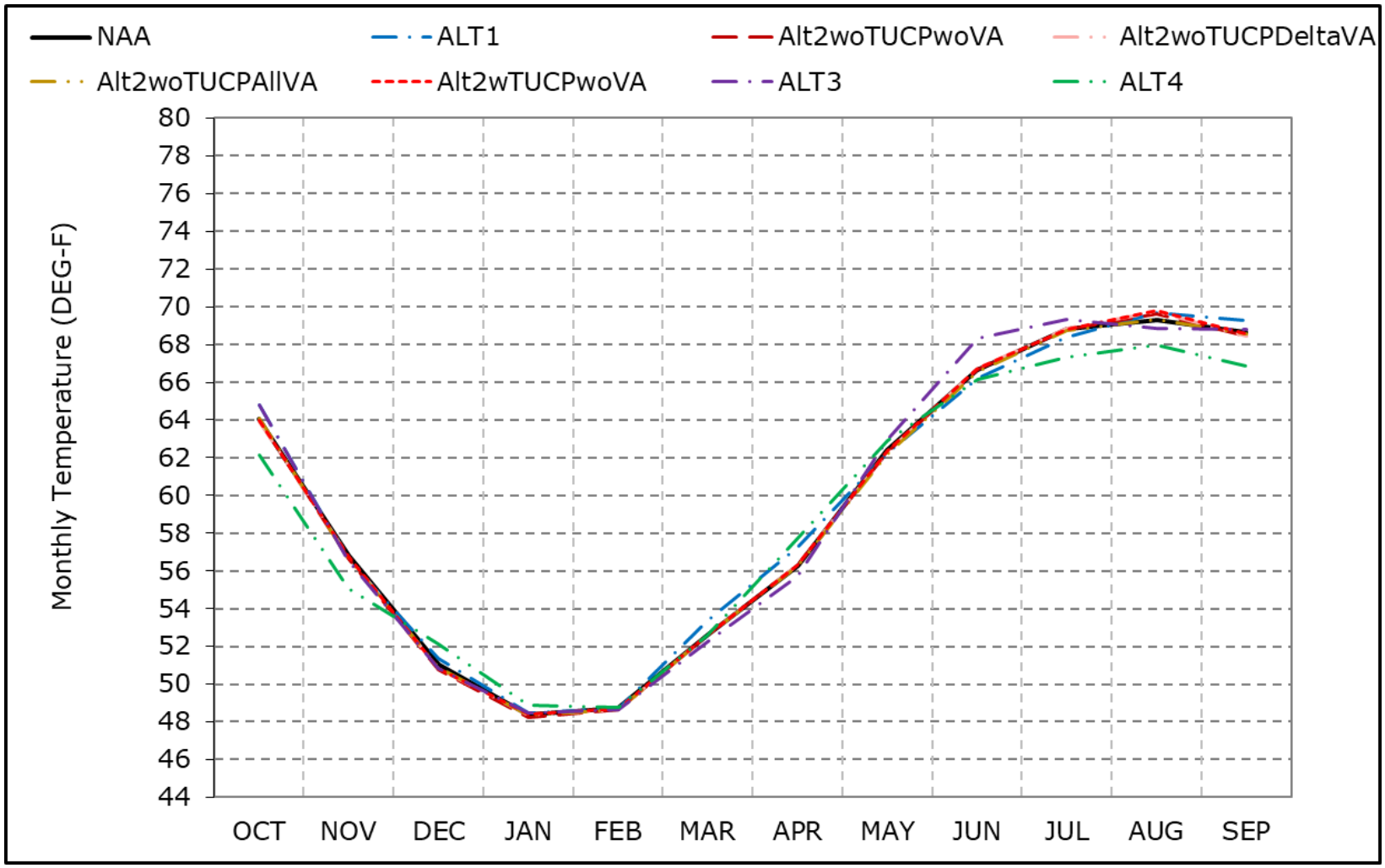
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-1. American River at Watt Avenue, Long-Term Average Temperature



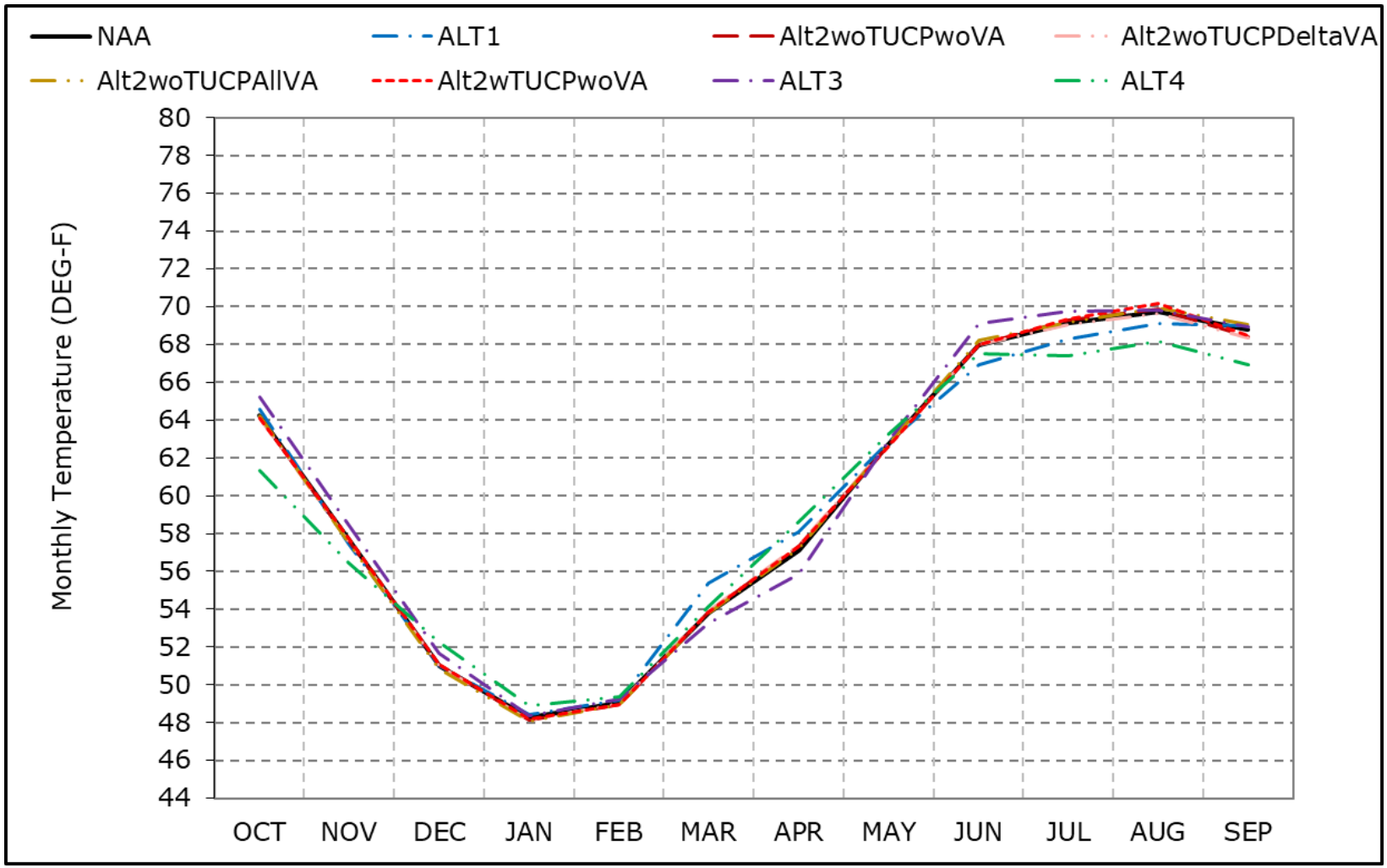
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-2. American River at Watt Avenue, Wet Year Average Temperature



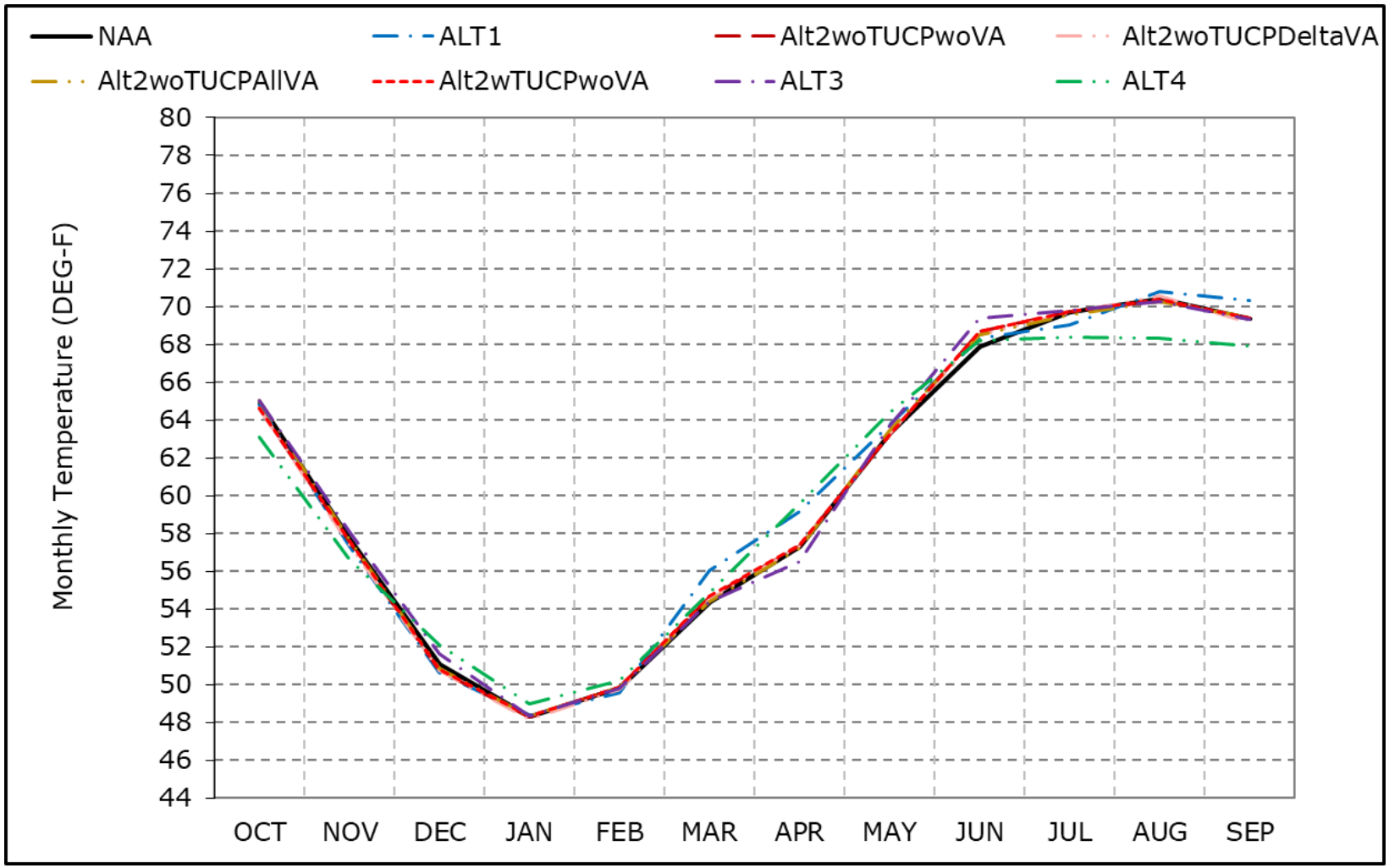
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-3. American River at Watt Avenue, Above Normal Year Average Temperature



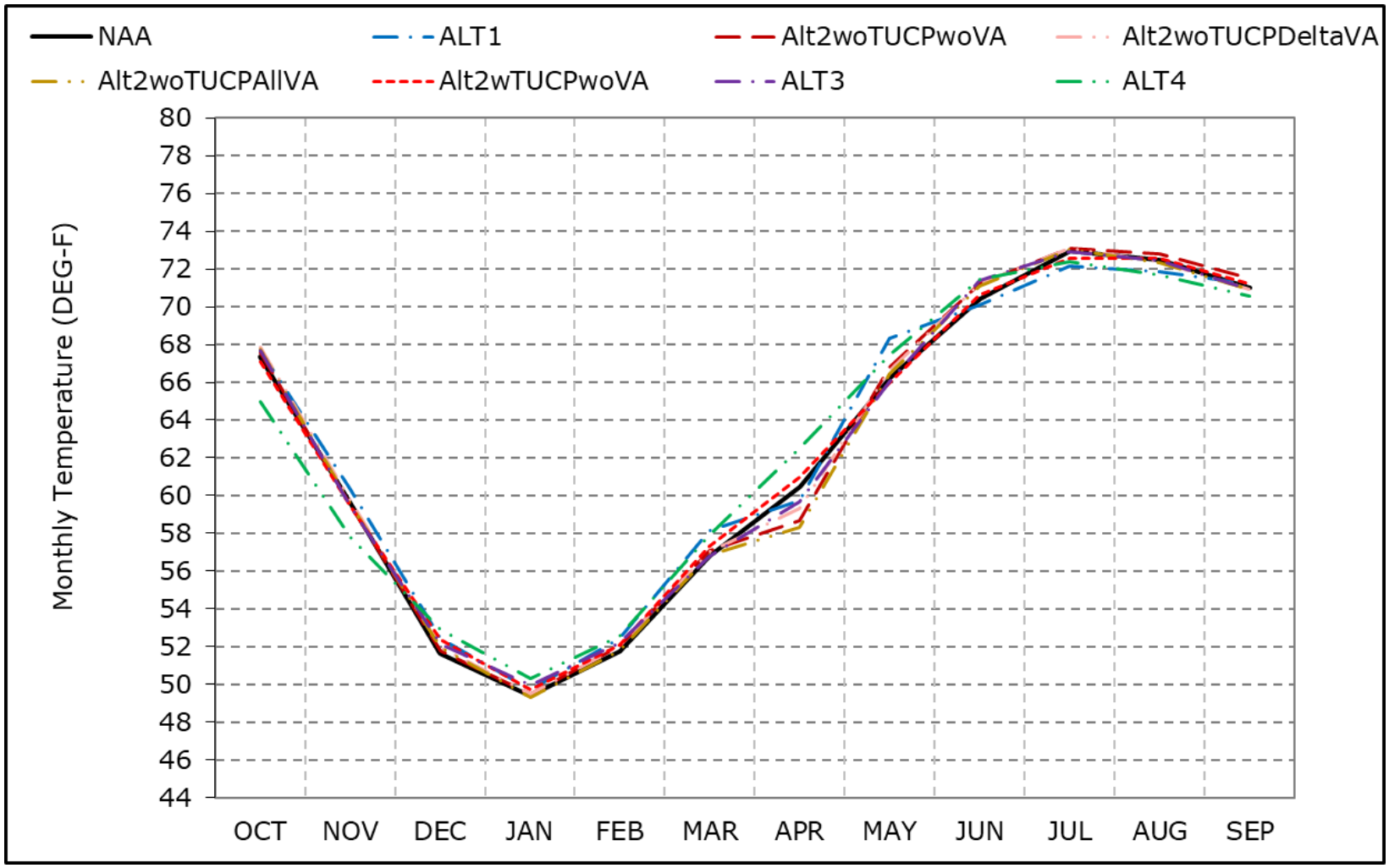
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-4. American River at Watt Avenue, Below Normal Year Average Temperature



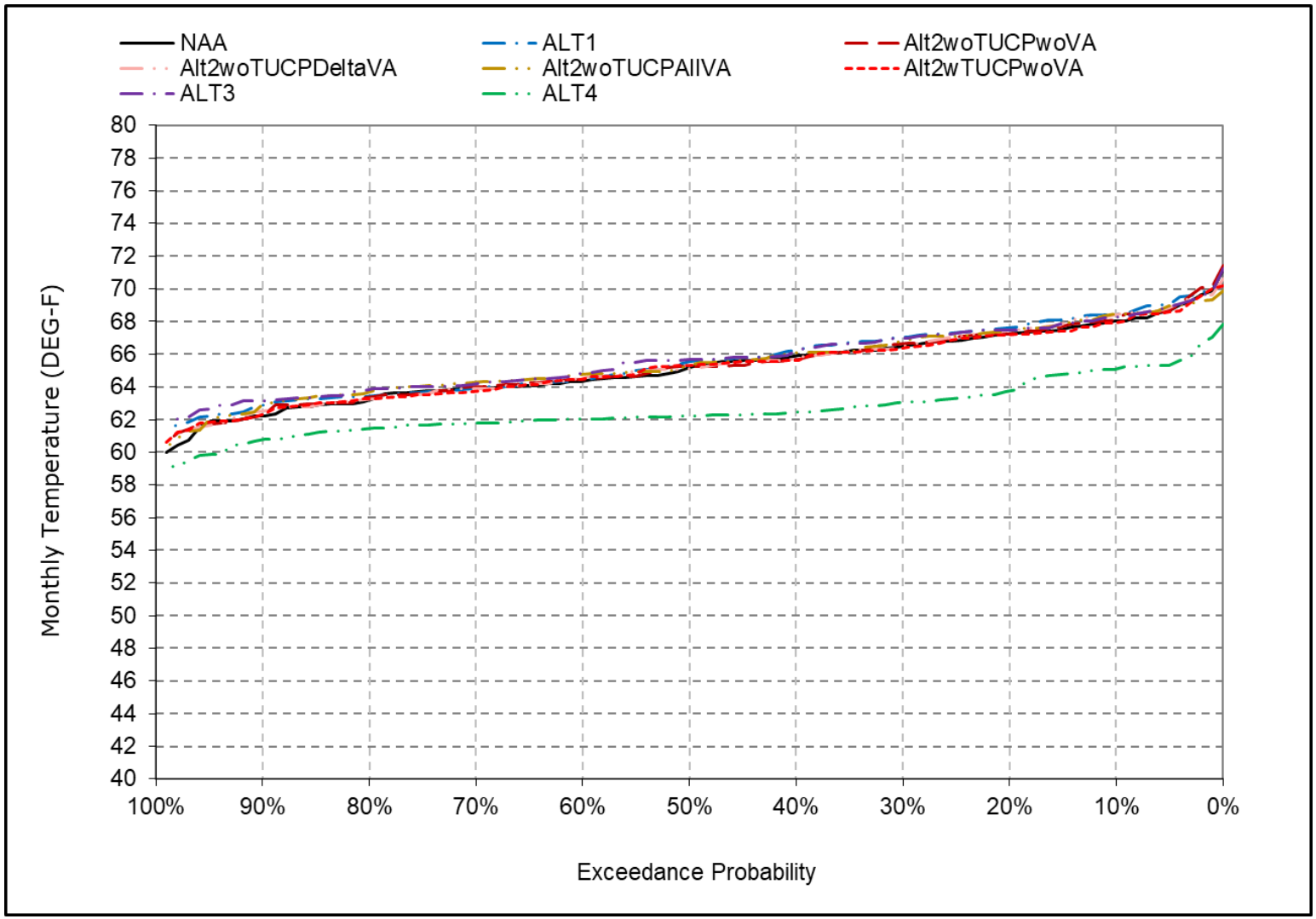
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-5. American River at Watt Avenue, Dry Year Average Temperature



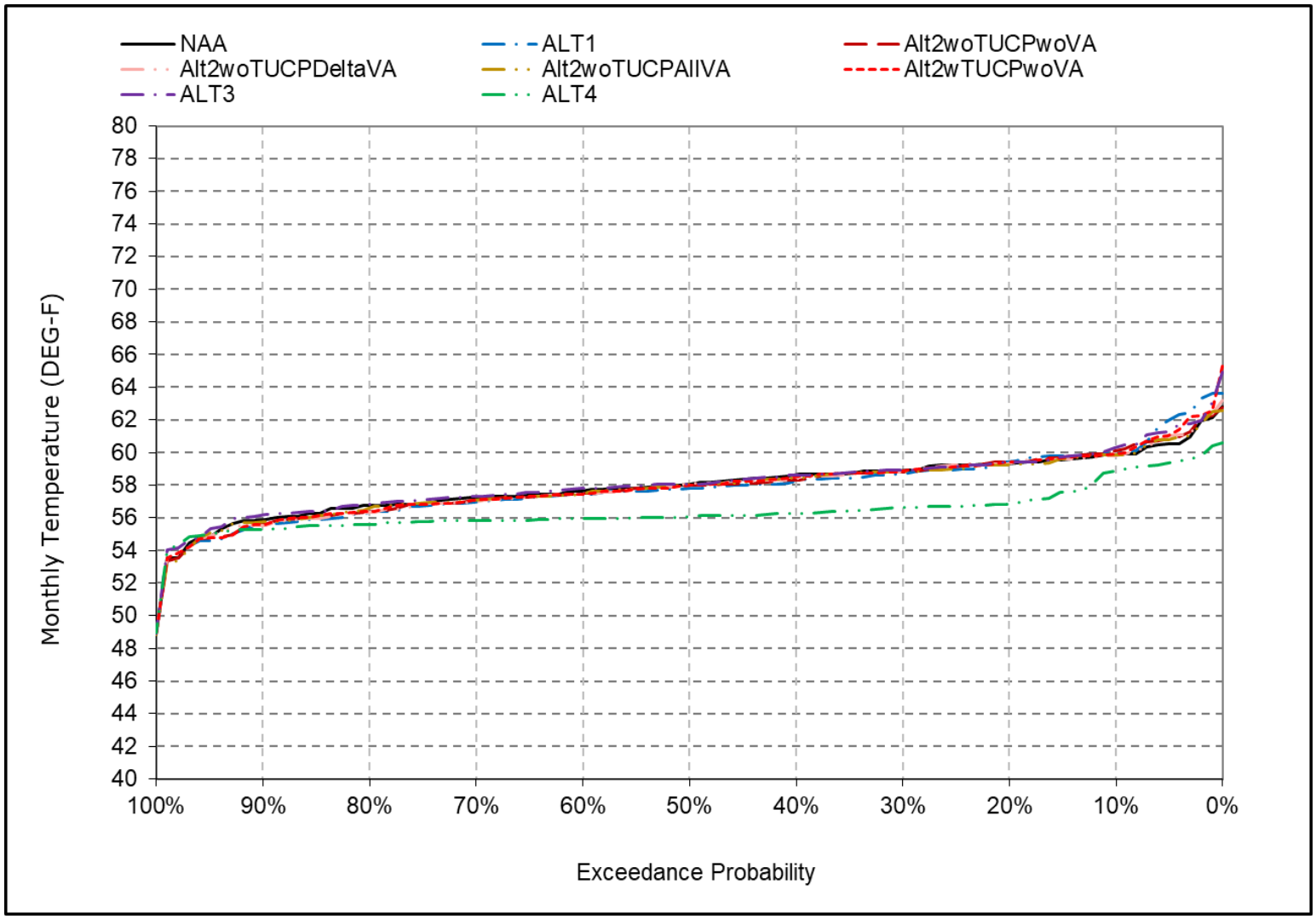
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-6. American River at Watt Avenue, Critical Year Average Temperature



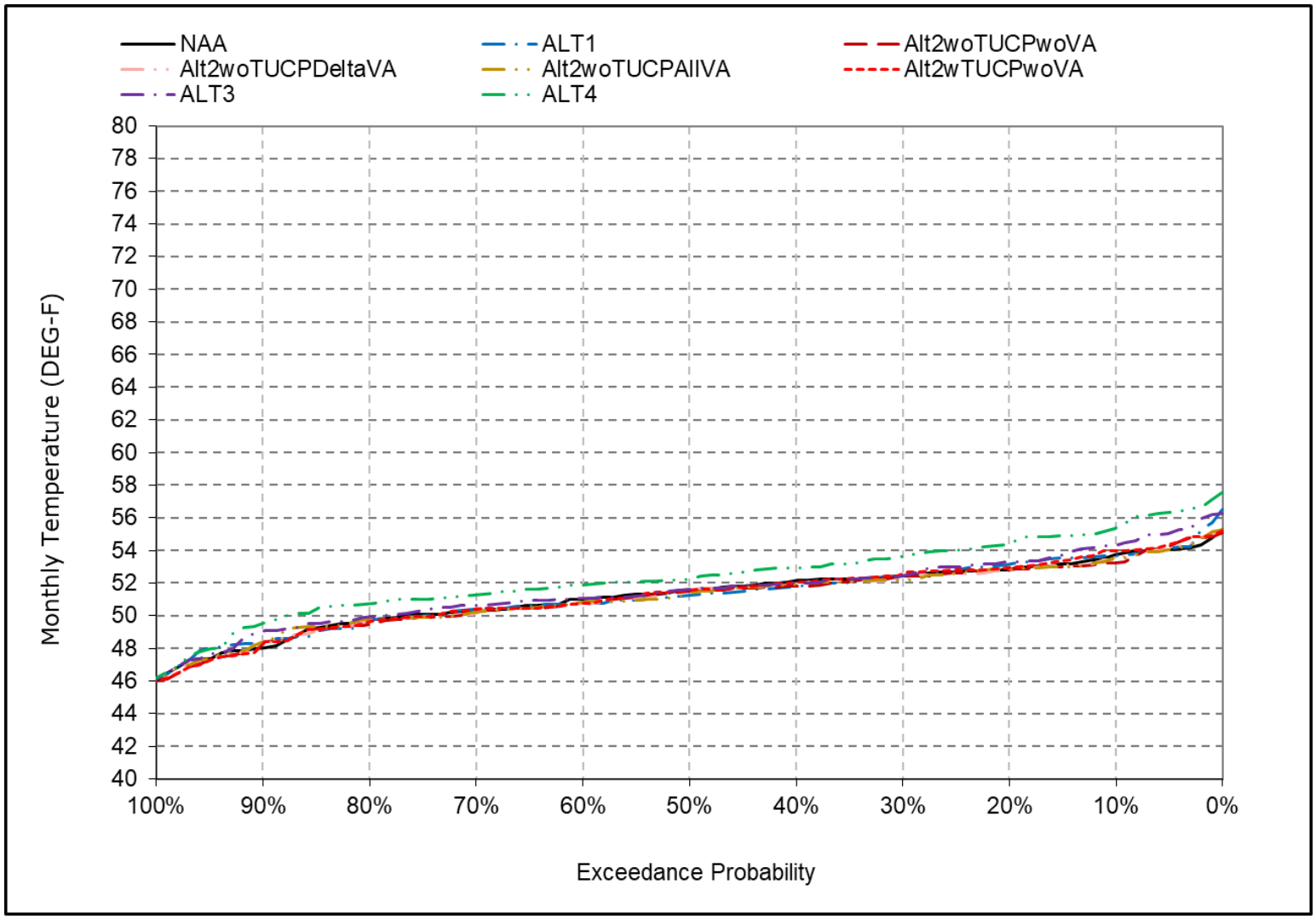
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-7. American River at Watt Avenue, October



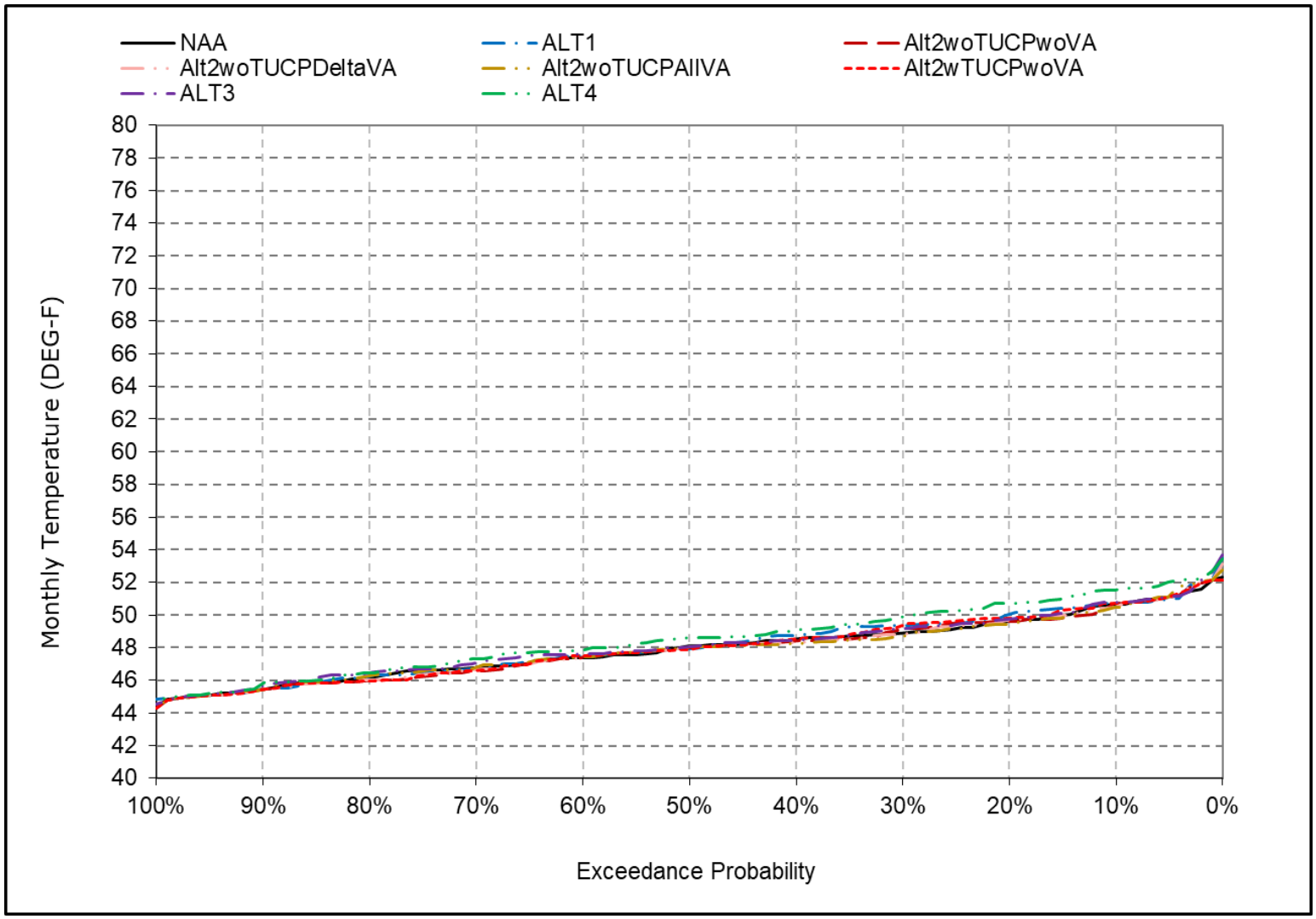
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-8. American River at Watt Avenue, November



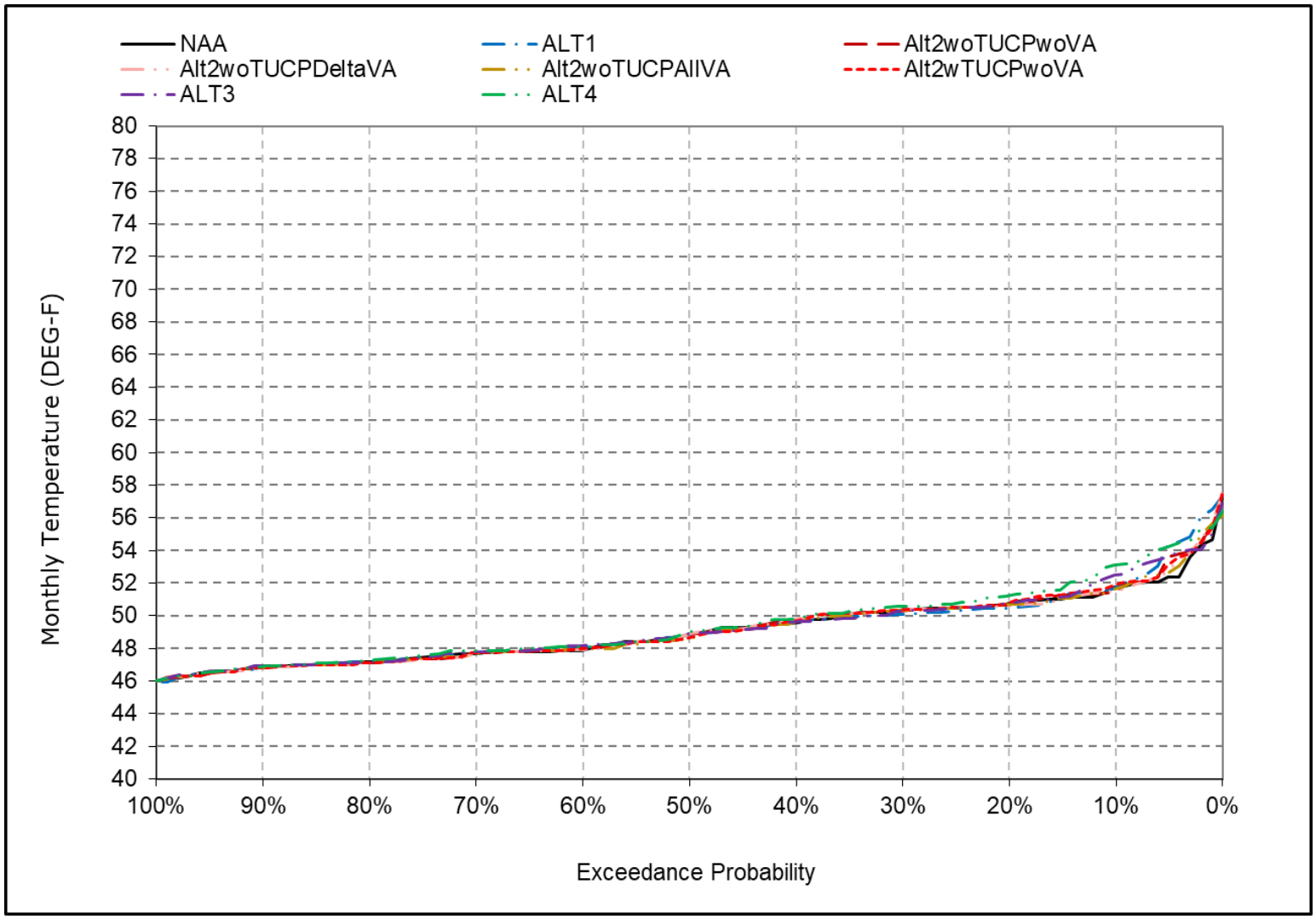
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-9. American River at Watt Avenue, December



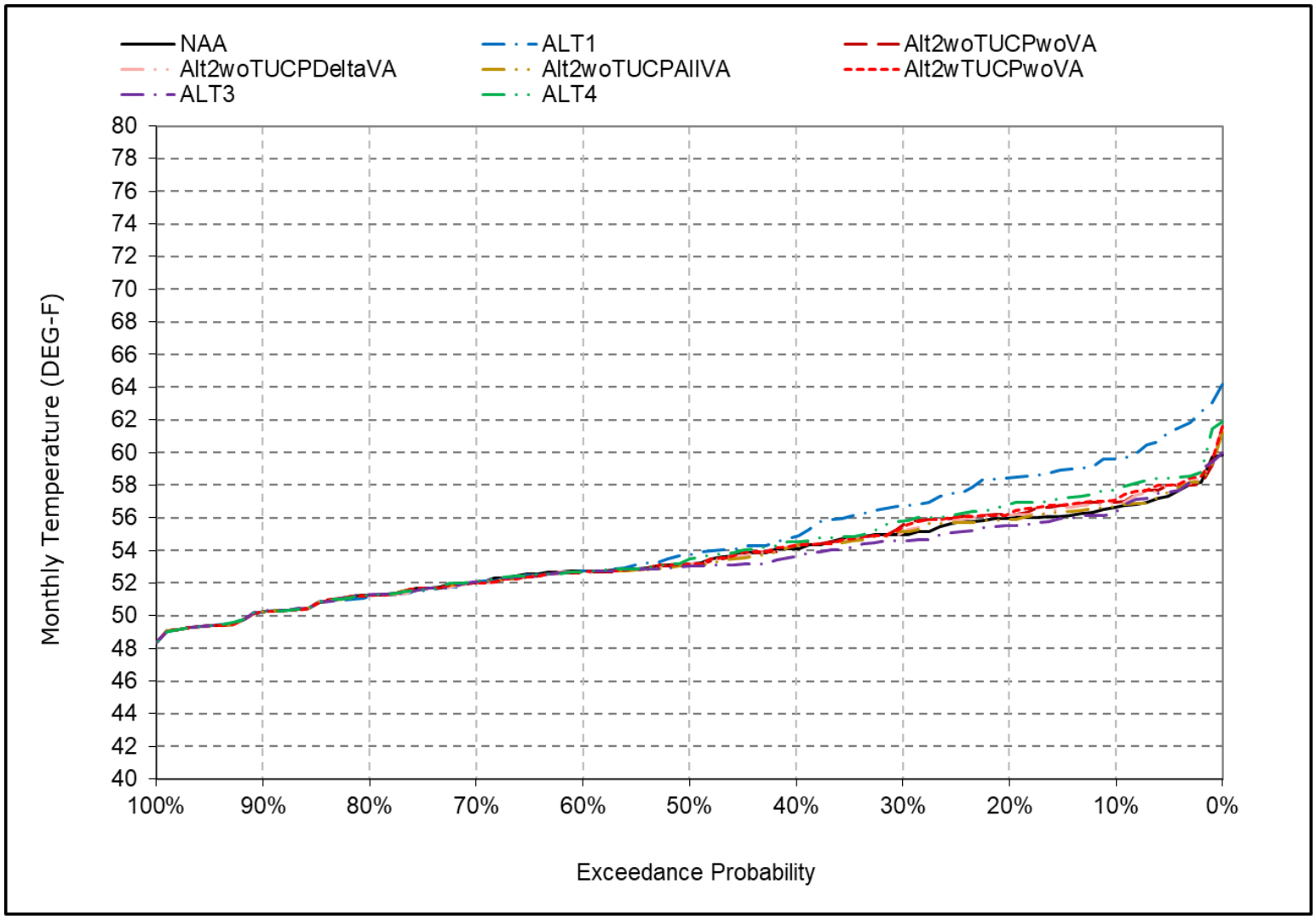
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-10. American River at Watt Avenue, January



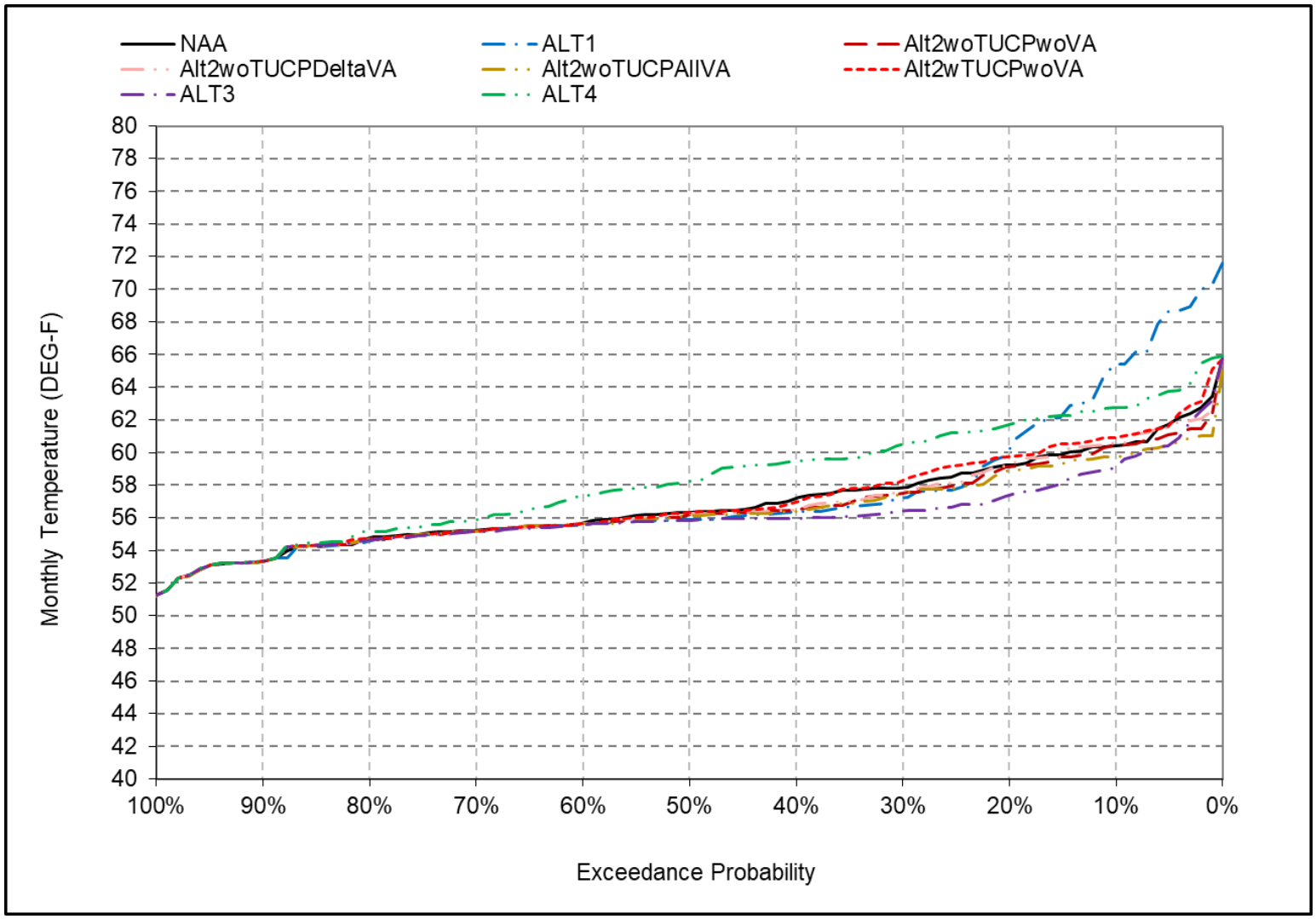
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-11. American River at Watt Avenue, February



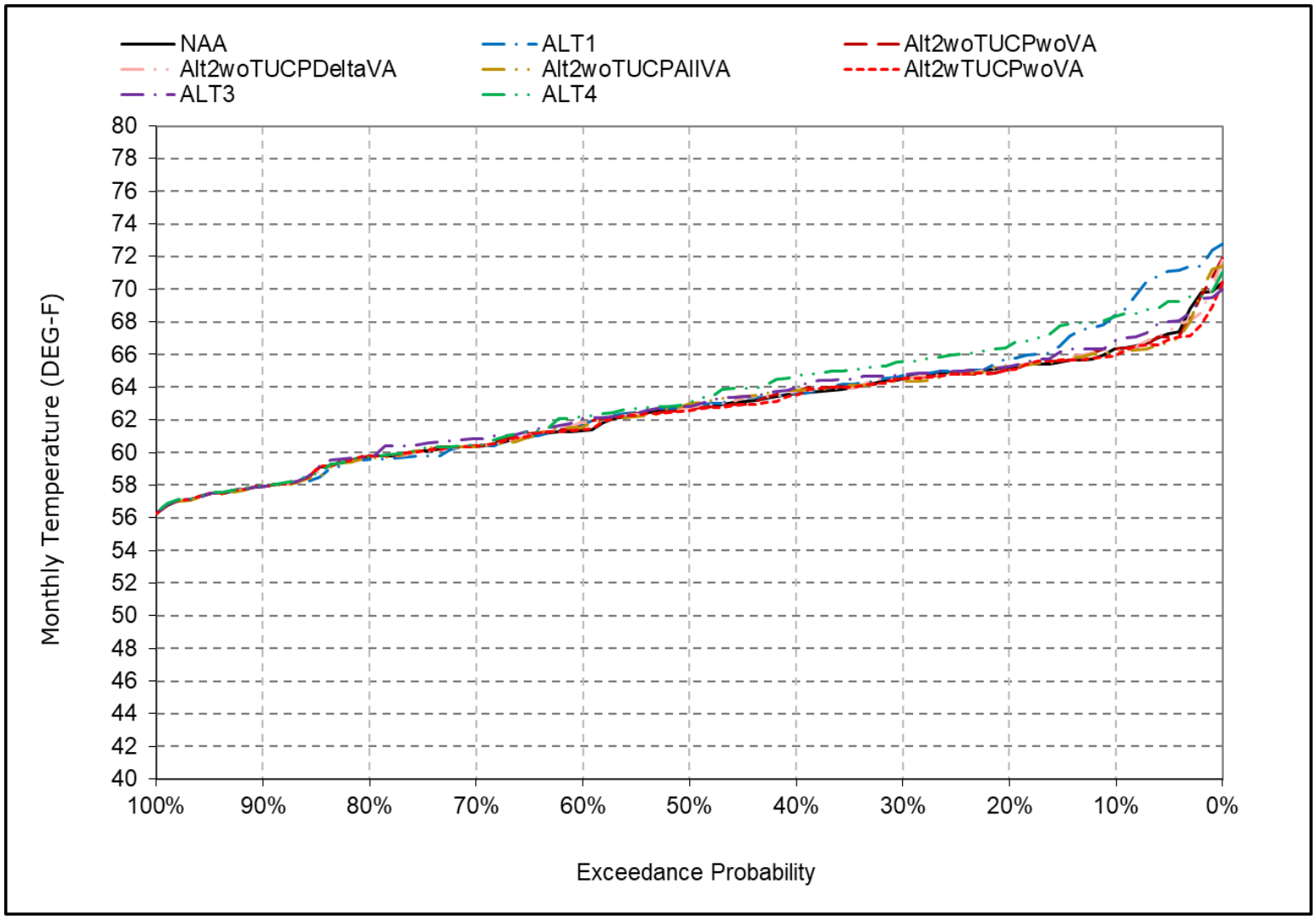
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-12. American River at Watt Avenue, March



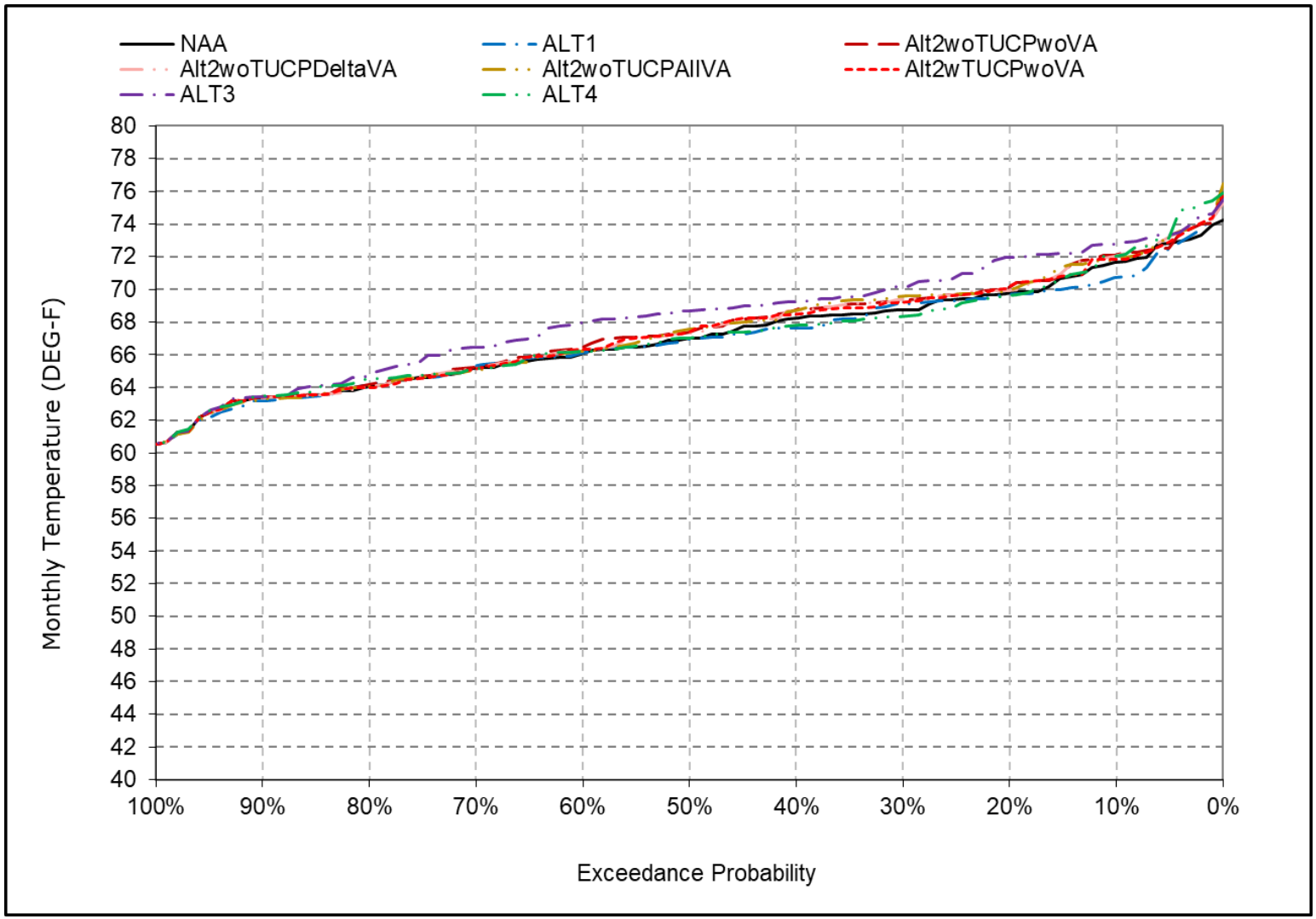
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-13. American River at Watt Avenue, April



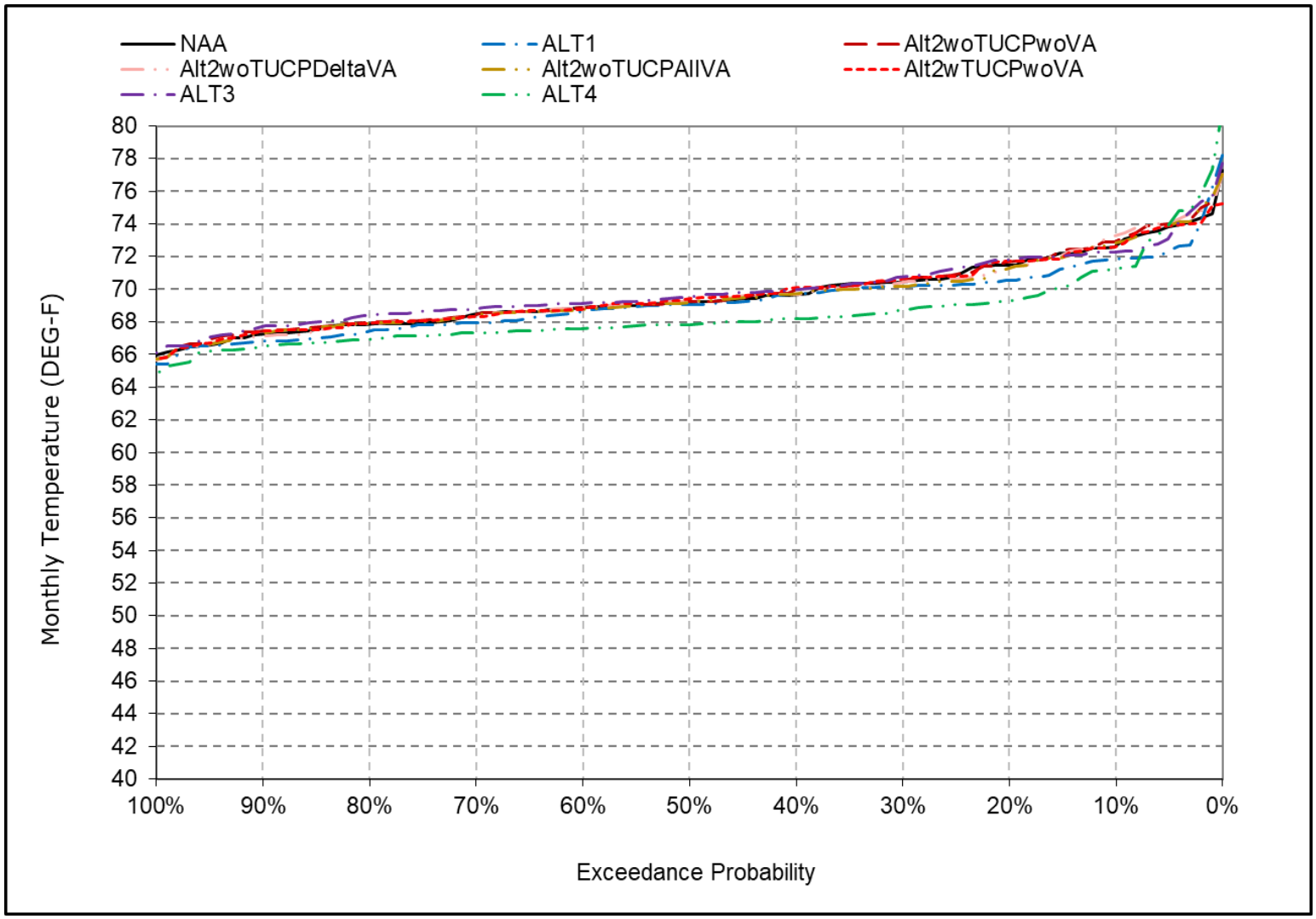
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-14. American River at Watt Avenue, May



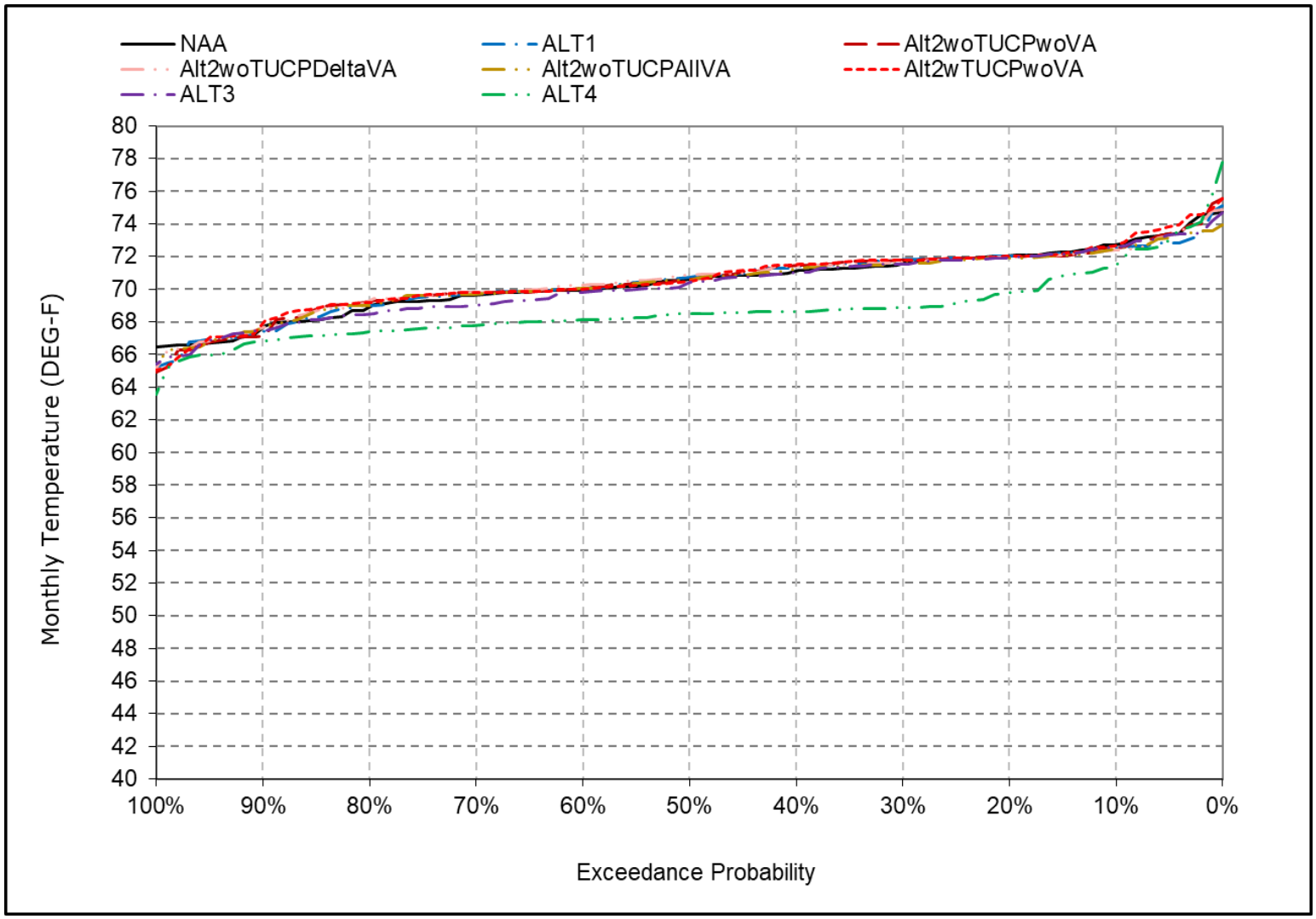
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-15. American River at Watt Avenue, June



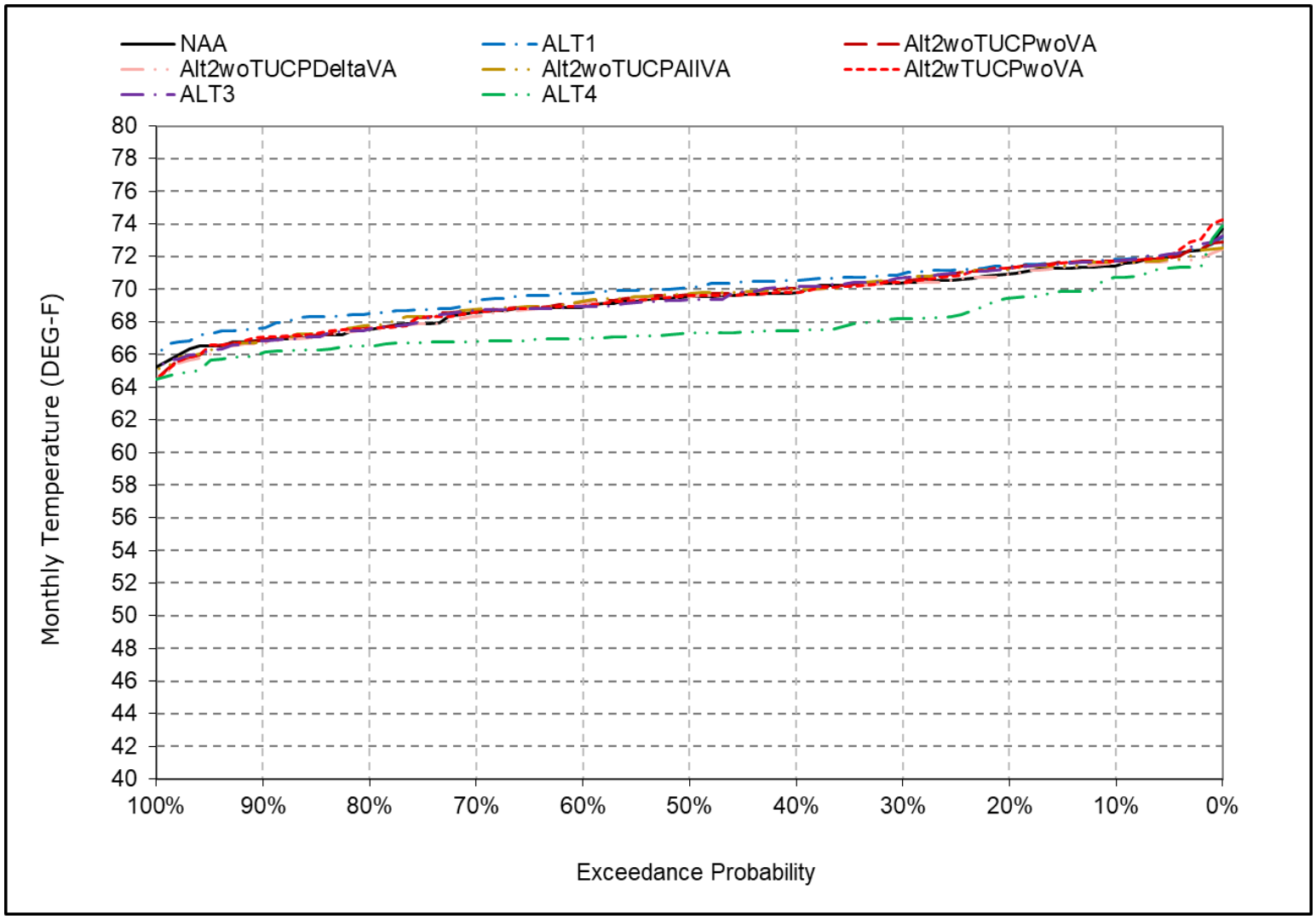
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-16. American River at Watt Avenue, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-17. American River at Watt Avenue, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-14-18. American River at Watt Avenue, September

Table F.2.11-15-1a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-1b. American River at the Mouth, Alternative 1, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	70	61	54	51	53	63	70	74	74	75	76	75
20% Exceedance	69	60	53	51	52	62	65	69	72	73	75	75
30% Exceedance	68	59	52	50	51	59	61	68	71	72	74	74
40% Exceedance	67.4	58.8	51.8	49.3	50.6	57.1	59.0	66.8	70.2	71.9	73.5	73.0
50% Exceedance	66.9	58.2	51.4	48.4	49.4	55.2	58.2	65.6	69.2	71.5	73.2	72.5
60% Exceedance	66.0	57.9	50.8	47.8	48.7	54.2	57.4	64.5	68.6	70.9	72.6	72.1
70% Exceedance	65.4	57.6	50.5	47.0	48.3	53.2	56.9	62.6	67.8	70.4	71.8	71.2
80% Exceedance	64.7	57.1	49.5	46.5	47.6	52.1	56.0	61.2	66.6	69.9	71.2	70.5
90% Exceedance	64.2	56.0	48.6	45.6	47.2	50.9	54.3	59.1	65.7	69.2	69.8	70.0
Full Simulation Period Average[a]	67	58	51	49	50	57	60	66	70	72	73	73
Wet Water Years (28%)	67	58	51	47	48	52	56	62	67	71	73	72
Above Normal Years (14%)	66	57	51	49	49	55	60	65	68	70	72	71
Below Normal Years (18%)	66	58	51	49	50	58	61	66	69	70	71	71
Dry Years (24%)	66	58	51	49	50	59	63	66	71	71	74	74
Critical (16%)	69	60	52	50	54	61	63	73	74	76	75	75

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-1c. American River at the Mouth, Alternative 1 minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.8	0.4	-0.1	0.1	-0.2	4.2	5.3	3.6	-1.6	-0.9	0.6	1.6
20% Exceedance	1	0	0	0	0	3	1	0	-2	-1	0	2
30% Exceedance	0.3	-0.2	0.1	0.3	-0.4	1.9	-1.2	-0.4	-0.8	-0.1	0.0	1.6
40% Exceedance	0	0	0	0	0	1	-1	0	0	0	0	1
50% Exceedance	1	0	0	0	0	0	-1	0	0	0	0	1
60% Exceedance	1	0	0	0	0	0	-1	0	0	0	0	2
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
80% Exceedance	0	0	0	0	0	0	0	0	-1	0	0	1
90% Exceedance	0.5	-0.2	0.5	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.2	-0.1	1.3
Full Simulation Period Average[a]	0.5	0.1	0.0	0.2	0.0	1.4	0.6	0.5	-0.5	-0.3	0.2	1.4
Wet Water Years (28%)	0.6	0.0	-0.1	0.1	0.0	0.1	0.3	0.1	-0.1	0.5	0.6	1.0
Above Normal Years (14%)	0.7	0.1	0.2	0.0	0.0	1.0	1.0	-0.1	-0.6	-0.1	0.5	0.9
Below Normal Years (18%)	0.5	0.1	0.0	0.2	0.1	2.1	1.1	0.2	-1.7	-0.5	-0.5	0.7
Dry Years (24%)	0.1	-0.2	-0.3	0.1	-0.4	2.2	2.0	0.3	0.2	-0.8	0.6	2.6
Critical (16%)	0	1	1	0	1	2	-2	2	-1	-1	0	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-2a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-2b. American River at the Mouth, Alt2woTUCPwoVA, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	70	61	54	51	53	60	65	71	76	76	76	74
20% Exceedance	68	60	53	50	52	59	63	69	74	74	74	73
30% Exceedance	68	59	52	50	51	58	61	68	72	73	74	72
40% Exceedance	67.0	58.8	51.8	48.8	50.7	55.9	59.5	66.7	71.2	72.0	73.7	71.9
50% Exceedance	66.3	58.2	51.5	48.3	49.4	54.8	58.7	65.5	69.7	71.3	72.9	71.4
60% Exceedance	65.7	57.8	50.9	47.7	48.5	54.1	57.5	64.6	69.2	70.9	72.4	70.7
70% Exceedance	65.1	57.5	50.4	46.9	48.2	53.2	57.0	62.8	68.4	70.6	71.7	70.2
80% Exceedance	64.7	56.9	49.6	46.2	47.7	52.2	56.2	61.4	66.8	70.1	71.3	69.4
90% Exceedance	64.0	56.0	48.2	45.7	47.2	50.9	54.3	59.1	66.0	69.5	69.7	68.6
Full Simulation Period Average[a]	67	58	51	48	50	55	59	65	70	72	73	71
Wet Water Years (28%)	67	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	65	69	71	72	70
Below Normal Years (18%)	66	58	51	49	50	56	60	65	71	71	72	70
Dry Years (24%)	66	58	51	49	51	57	61	66	72	72	73	71
Critical (16%)	69	60	52	50	54	60	62	71	75	77	76	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-2c. American River at the Mouth, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.4	-0.4	0.1	0.3	0.6	-0.3	0.3	0.6	0.1	0.1	0.4
20% Exceedance	0	0	0	0	0	1	-1	0	0	0	0	0
30% Exceedance	0.1	-0.1	-0.1	0.4	-0.1	0.2	-0.9	-0.5	0.5	0.1	0.2	0.1
40% Exceedance	0	0	0	0	0	0	-1	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.3	-0.3	0.1	0.0	-0.1	0.0	0.0	0.0	0.1	0.1	-0.2	-0.1
Full Simulation Period Average[a]	0.1	0.0	-0.1	0.0	0.1	0.2	-0.4	0.0	0.3	0.1	0.1	0.1
Wet Water Years (28%)	0.5	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.3
Above Normal Years (14%)	-0.1	-0.1	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.2	-0.2
Below Normal Years (18%)	0.0	0.0	0.1	-0.1	-0.1	0.1	0.3	-0.2	0.1	0.2	0.1	-0.3
Dry Years (24%)	-0.2	-0.1	-0.3	0.0	0.1	0.4	0.0	-0.4	0.6	-0.1	-0.2	0.1
Critical (16%)	0	0	0	0	0	0	-3	1	1	0	1	1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-3a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-3b. American River at the Mouth, Alt2woTUCPDeltaVA, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	70	61	54	51	53	60	66	71	76	76	76	74
20% Exceedance	68	60	53	50	52	59	64	69	74	74	74	73
30% Exceedance	68	59	52	50	51	58	62	68	72	72	74	72
40% Exceedance	66.8	58.8	51.9	48.8	50.7	55.9	60.0	67.0	71.0	71.8	73.7	71.7
50% Exceedance	66.4	58.2	51.5	48.4	49.4	54.9	58.8	65.6	69.8	71.2	73.1	71.4
60% Exceedance	65.8	57.8	51.0	47.7	48.5	53.9	57.6	64.1	69.1	71.0	72.3	70.6
70% Exceedance	65.2	57.4	50.4	47.0	48.2	53.1	56.9	62.8	68.1	70.5	71.8	69.9
80% Exceedance	64.5	56.9	49.7	46.2	47.6	52.2	56.2	61.4	66.9	70.0	71.2	69.2
90% Exceedance	63.9	55.9	48.4	45.6	47.2	50.9	54.3	59.1	65.8	69.3	70.0	68.6
Full Simulation Period Average[a]	67	58	51	48	50	55	59	65	70	72	73	71
Wet Water Years (28%)	67	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	65	69	71	72	70
Below Normal Years (18%)	66	58	51	49	50	56	61	66	71	71	72	70
Dry Years (24%)	66	58	51	49	51	57	61	66	71	72	73	71
Critical (16%)	69	60	52	50	54	60	63	71	75	77	76	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-3c. American River at the Mouth, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.6	0.2	-0.4	0.0	0.3	0.4	0.3	0.2	0.4	0.3	0.1	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	-0.2	0.1	0.0	0.0	-0.4	-0.4	0.1	0.0	0.1	0.0
40% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	-0.3	0.3	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1
Full Simulation Period Average[a]	0.1	0.0	-0.1	0.0	0.0	0.1	-0.2	0.0	0.2	0.0	0.1	0.0
Wet Water Years (28%)	0.4	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Above Normal Years (14%)	-0.1	0.0	-0.2	0.0	0.0	0.0	0.1	-0.1	0.0	0.1	0.3	-0.2
Below Normal Years (18%)	0.0	0.0	0.0	-0.1	-0.1	0.1	0.4	0.0	0.1	0.1	-0.2	-0.3
Dry Years (24%)	-0.1	-0.2	-0.3	-0.1	0.0	0.3	0.1	-0.2	0.5	-0.2	0.0	-0.1
Critical (16%)	0	0	0	0	0	0	-2	0	1	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-4a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-4b. American River at the Mouth, Alt2woTUCPAllVA, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	70	61	54	51	53	59	64	70	76	76	76	74
20% Exceedance	68	60	53	50	52	59	63	69	74	74	75	73
30% Exceedance	68	59	52	49	51	58	61	68	72	72	74	72
40% Exceedance	67.0	58.8	51.9	48.8	50.6	55.7	59.4	67.0	71.0	71.9	73.5	71.8
50% Exceedance	66.6	58.3	51.5	48.4	49.3	54.5	58.6	65.6	69.7	71.4	73.0	71.5
60% Exceedance	65.9	57.9	50.9	47.8	48.6	53.9	57.4	64.1	68.8	70.9	72.4	70.7
70% Exceedance	65.5	57.4	50.4	47.1	48.2	53.2	56.9	62.7	68.0	70.6	71.6	70.3
80% Exceedance	64.8	57.0	49.8	46.5	47.7	52.2	56.2	61.4	67.0	70.0	71.2	69.6
90% Exceedance	64.1	55.9	48.4	45.7	47.2	50.9	54.3	59.2	65.8	69.6	70.2	68.6
Full Simulation Period Average[a]	67	58	51	48	50	55	59	65	70	72	73	71
Wet Water Years (28%)	67	58	51	47	48	52	56	61	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	65	69	71	72	70
Below Normal Years (18%)	66	58	51	49	50	56	60	66	71	71	72	71
Dry Years (24%)	67	58	51	49	51	56	60	66	71	72	73	72
Critical (16%)	69	60	52	50	53	59	62	70	75	77	76	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-4c. American River at the Mouth, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.6	0.2	-0.3	-0.1	0.5	0.2	-1.1	-0.3	-0.1	0.3	0.1	0.3
20% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
30% Exceedance	0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.9	-0.1	0.0	0.0	0.2	0.3
40% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
70% Exceedance	1	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.4	-0.3	0.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.2	0.2	-0.1
Full Simulation Period Average[a]	0.3	0.0	-0.1	0.0	0.0	0.0	-0.6	-0.1	0.2	0.0	0.1	0.1
Wet Water Years (28%)	0.5	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Above Normal Years (14%)	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.2	-0.1	0.1	0.0	-0.1
Below Normal Years (18%)	0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2
Dry Years (24%)	0.2	0.0	-0.2	0.1	0.1	0.1	-0.3	-0.2	0.4	-0.1	-0.2	0.1
Critical (16%)	0	0	0	0	0	0	-3	0	0	0	1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-5a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-5b. American River at the Mouth, Alt2wTUCPwoVA, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69	61	54	51	53	60	66	71	76	75	76	74
20% Exceedance	68	60	53	50	52	59	64	69	74	74	74	73
30% Exceedance	68	59	52	50	51	58	62	68	72	73	74	72
40% Exceedance	67.1	58.8	52.1	48.9	50.7	56.0	60.4	66.7	71.1	72.0	73.7	71.9
50% Exceedance	66.5	58.3	51.6	48.3	49.4	54.9	59.0	65.5	69.7	71.4	73.2	71.3
60% Exceedance	65.8	57.8	50.9	47.7	48.5	54.2	57.7	64.0	69.0	71.1	72.5	70.7
70% Exceedance	65.3	57.5	50.4	46.9	48.2	53.2	57.0	62.6	68.2	70.8	71.7	70.3
80% Exceedance	64.5	56.9	49.5	46.2	47.7	52.2	56.2	61.3	66.8	70.1	71.3	69.3
90% Exceedance	63.9	56.0	48.2	45.7	47.2	50.9	54.3	59.1	66.0	69.5	69.7	68.8
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	67	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	65	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	70
Dry Years (24%)	66	58	51	49	51	57	61	66	72	72	73	71
Critical (16%)	69	60	52	50	54	60	66	71	75	76	76	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-5c. American River at the Mouth, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.4	-0.1	0.0	0.3	0.7	0.7	0.6	0.3	-0.1	0.3	0.4
20% Exceedance	0	0	0	0	0	1	1	0	0	0	0	0
30% Exceedance	0.1	0.0	0.1	0.5	-0.1	0.3	0.5	-0.6	0.5	0.2	0.1	0.1
40% Exceedance	0	0	0	0	0	0	0	0	1	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	-0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.3	0.1
Full Simulation Period Average[a]	0.1	0.0	0.0	0.1	0.1	0.2	0.2	-0.1	0.3	0.0	0.1	0.1
Wet Water Years (28%)	0.5	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3
Above Normal Years (14%)	-0.1	0.0	-0.2	0.0	0.0	-0.1	0.0	-0.1	0.0	0.1	0.3	-0.1
Below Normal Years (18%)	0.0	0.1	0.1	0.0	-0.1	0.1	0.3	-0.2	0.1	0.3	0.3	-0.2
Dry Years (24%)	-0.1	0.0	-0.2	0.0	0.1	0.4	0.1	-0.4	0.7	-0.1	-0.1	0.1
Critical (16%)	0	0	1	0	0	1	1	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-6a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-6b. American River at the Mouth, Alternative 3, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	70	61	54	51	54	59	63	71	78	76	76	74
20% Exceedance	68	60	53	50	52	58	60	69	76	74	74	73
30% Exceedance	68	59	52	50	51	56	59	68	74	73	74	72
40% Exceedance	67.1	58.8	52.0	48.9	50.7	55.2	58.3	67.3	73.3	72.5	73.1	71.8
50% Exceedance	66.6	58.4	51.5	48.5	49.4	54.5	57.7	65.6	72.4	71.8	72.3	71.0
60% Exceedance	66.0	58.0	51.1	47.9	48.7	54.1	57.3	64.4	71.3	71.3	71.7	70.6
70% Exceedance	65.5	57.6	50.7	47.4	48.3	53.1	56.8	62.9	69.8	70.9	70.9	70.1
80% Exceedance	64.8	57.3	50.0	46.6	47.7	52.2	55.9	61.6	68.0	70.7	70.4	69.1
90% Exceedance	64.4	56.5	48.8	45.9	47.2	50.9	54.3	59.2	66.3	69.9	69.4	68.6
Full Simulation Period Average[a]	67	58	52	49	50	55	58	66	72	73	73	71
Wet Water Years (28%)	67	58	52	47	48	52	56	62	68	71	72	71
Above Normal Years (14%)	66	57	51	49	49	53	58	66	72	71	71	70
Below Normal Years (18%)	66	59	52	49	50	55	58	66	73	72	72	71
Dry Years (24%)	66	58	52	49	51	56	59	67	73	72	73	71
Critical (16%)	69	60	52	50	54	59	64	70	76	77	76	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-6c. American River at the Mouth, Alternative 3 minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.4	0.5	-0.1	1.1	-0.3	-2.0	0.4	1.7	0.2	0.5	0.1
20% Exceedance	0	0	0	0	0	-1	-3	0	2	0	0	0
30% Exceedance	0.1	-0.2	0.0	0.1	-0.4	-1.0	-2.6	0.1	2.4	1.0	-0.2	0.1
40% Exceedance	0	0	0	0	0	-1	-2	0	3	1	0	0
50% Exceedance	0	0	0	0	0	0	-1	0	3	1	0	0
60% Exceedance	0	0	0	0	0	0	-1	0	2	0	-1	0
70% Exceedance	1	0	0	0	0	0	0	0	2	0	-1	0
80% Exceedance	0	0	0	0	0	0	0	0	1	1	-1	0
90% Exceedance	0.7	0.3	0.7	0.2	-0.1	0.0	0.0	0.0	0.5	0.5	-0.6	-0.1
Full Simulation Period Average[a]	0.4	0.1	0.3	0.1	0.1	-0.3	-1.2	0.1	1.8	0.5	-0.3	0.1
Wet Water Years (28%)	0.3	0.0	0.1	0.2	0.1	-0.1	-0.4	0.2	1.1	0.2	-0.4	0.2
Above Normal Years (14%)	0.6	-0.2	-0.2	0.1	-0.1	-0.5	-1.3	0.0	2.9	0.9	-0.8	0.2
Below Normal Years (18%)	0.8	0.7	0.6	0.1	0.2	-0.9	-2.1	0.3	2.1	1.2	-0.2	0.0
Dry Years (24%)	0.1	0.3	0.4	-0.1	-0.1	-0.1	-1.5	0.5	2.4	0.3	-0.4	-0.1
Critical (16%)	0	0	0	0	0	0	-1	-1	1	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-7a. American River at the Mouth, No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	69.3	60.5	53.9	51.2	52.9	59.2	65.2	70.3	75.8	75.6	75.5	73.9
20% Exceedance	68.0	59.7	52.8	50.2	52.0	58.4	63.8	69.1	73.9	74.1	74.4	72.8
30% Exceedance	67.6	59.3	52.4	49.5	51.4	57.5	61.9	68.2	71.9	72.5	73.8	72.2
40% Exceedance	66.9	58.9	52.0	49.0	50.6	55.9	60.5	66.9	70.5	71.7	73.4	71.6
50% Exceedance	66	58	52	48	49	55	59	66	70	71	73	71
60% Exceedance	66	58	51	48	49	54	58	64	69	71	72	71
70% Exceedance	65	57	50	47	48	53	57	63	68	71	71	70
80% Exceedance	65	57	50	46	48	52	56	61	67	70	71	69
90% Exceedance	64	56	48	46	47	51	54	59	66	69	70	69
Full Simulation Period Average[a]	66	58	51	48	50	55	60	65	70	72	73	71
Wet Water Years (28%)	66	58	51	47	48	52	56	62	67	71	72	71
Above Normal Years (14%)	65	57	51	49	49	54	59	66	69	71	72	70
Below Normal Years (18%)	65	58	51	49	50	56	60	65	71	71	72	71
Dry Years (24%)	66.4	58.2	51.1	48.9	50.9	56.3	60.6	66.2	71.0	72.1	73.0	71.4
Critical (16%)	69	60	52	50	53	59	65	71	74	77	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-7b. American River at the Mouth, Alternative 4, Monthly Temperature (above the confluence with the Sacramento River) (°F)

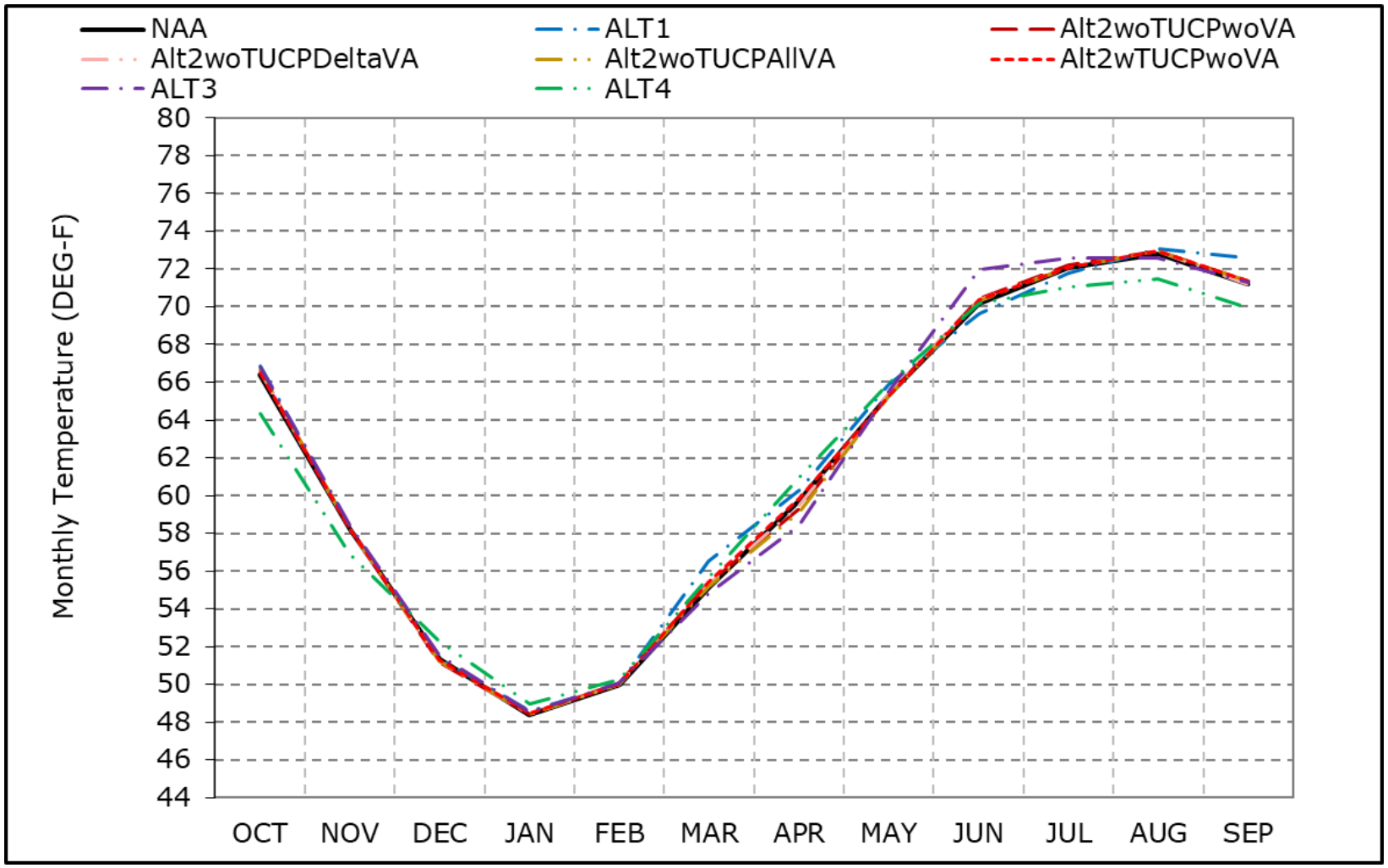
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	68	59	55	52	55	61	67	72	75	74	75	73
20% Exceedance	66	58	54	51	52	60	66	70	73	73	72	72
30% Exceedance	65	57	53	51	51	58	64	69	71	71	72	70
40% Exceedance	64.2	56.7	52.9	49.5	50.7	56.6	62.0	67.5	70.2	70.6	71.4	69.7
50% Exceedance	63.6	56.5	52.2	48.9	49.6	55.2	61.1	65.9	69.6	70.3	70.9	69.3
60% Exceedance	63.4	56.4	51.8	48.1	48.8	54.2	59.4	64.7	68.9	69.9	70.7	68.9
70% Exceedance	63.1	56.2	51.2	47.6	48.4	53.2	57.6	62.5	68.0	69.5	70.4	68.7
80% Exceedance	62.7	55.9	50.7	46.7	47.7	52.2	56.5	61.5	67.3	69.1	69.8	68.3
90% Exceedance	62.2	55.7	49.6	45.8	47.3	50.9	54.3	59.2	66.0	68.6	69.0	67.9
Full Simulation Period Average[a]	64	57	52	49	50	56	61	66	70	71	71	70
Wet Water Years (28%)	63	56	53	47	48	52	56	62	67	70	71	69
Above Normal Years (14%)	63	55	52	49	49	54	60	66	69	69	71	69
Below Normal Years (18%)	63	57	52	49	50	56	61	66	70	69	71	69
Dry Years (24%)	65	57	52	49	51	57	62	67	71	71	71	70
Critical (16%)	68	58	53	51	54	61	67	72	75	76	75	74

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-15-7c. American River at the Mouth, Alternative 4 minus No Action Alternative, Monthly Temperature (above the confluence with the Sacramento River) (°F)

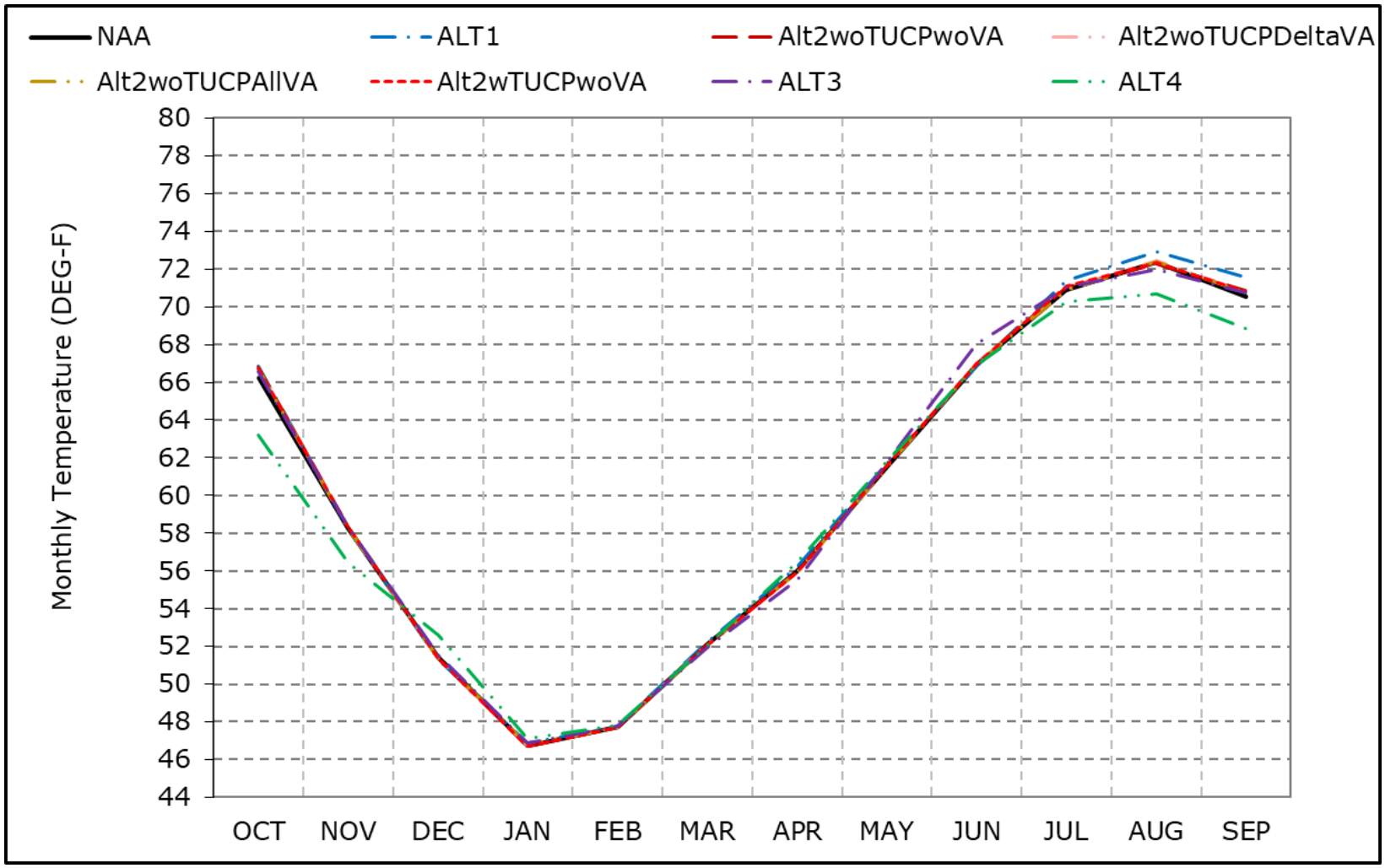
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1.2	-1.0	1.3	0.6	1.6	1.6	2.1	1.9	-0.4	-1.3	-0.7	-0.6
20% Exceedance	-2	-2	1	1	0	1	2	1	0	-1	-2	-1
30% Exceedance	-2.5	-2.1	1.0	1.1	0.0	0.8	2.1	0.9	-0.5	-1.5	-2.2	-1.9
40% Exceedance	-3	-2	1	1	0	1	2	1	0	-1	-2	-2
50% Exceedance	-3	-2	1	0	0	0	2	0	0	-1	-2	-2
60% Exceedance	-2	-1	1	0	0	0	1	0	0	-1	-2	-2
70% Exceedance	-2	-1	1	0	0	0	1	0	0	-1	-1	-1
80% Exceedance	-2	-1	1	0	0	0	0	0	0	-1	-1	-1
90% Exceedance	-1.5	-0.6	1.5	0.1	0.0	0.0	0.0	0.0	0.2	-0.8	-1.0	-0.8
Full Simulation Period Average[a]	-2.1	-1.4	1.0	0.5	0.3	0.5	1.2	0.6	0.0	-1.0	-1.4	-1.2
Wet Water Years (28%)	-3.1	-1.8	1.1	0.4	0.1	0.0	0.5	0.3	0.0	-0.6	-1.7	-1.7
Above Normal Years (14%)	-1.6	-1.6	0.9	0.5	0.0	0.0	1.1	0.4	-0.4	-1.2	-1.0	-1.4
Below Normal Years (18%)	-2.3	-1.1	1.1	0.5	0.2	0.5	1.2	0.4	-0.6	-1.5	-1.2	-1.6
Dry Years (24%)	-1.3	-0.9	0.8	0.6	0.4	0.7	1.8	0.7	0.2	-1.2	-1.9	-1.2
Critical (16%)	-2	-2	1	1	1	1	2	1	1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



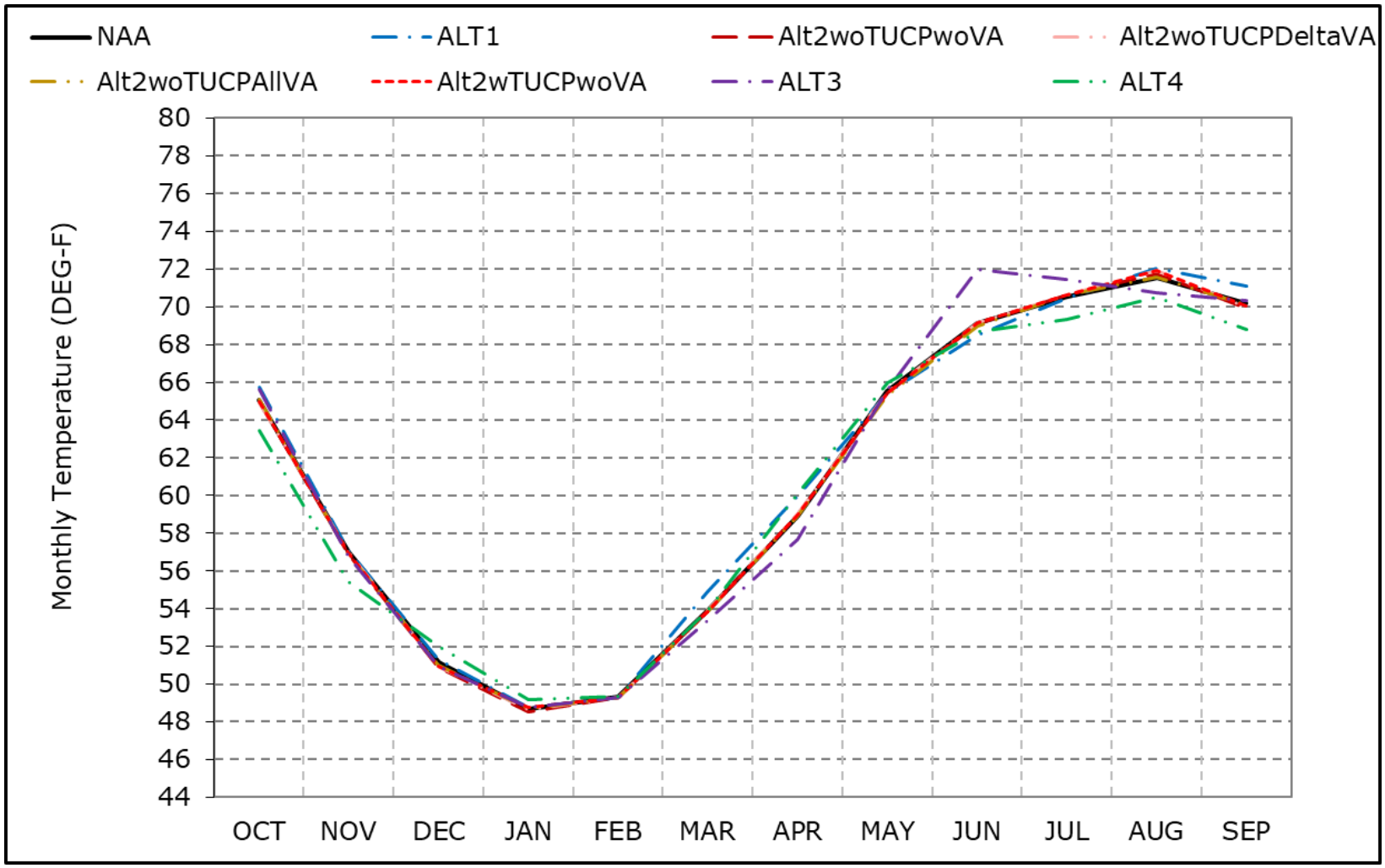
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-1. American River at the Mouth, Long-Term Average Temperature



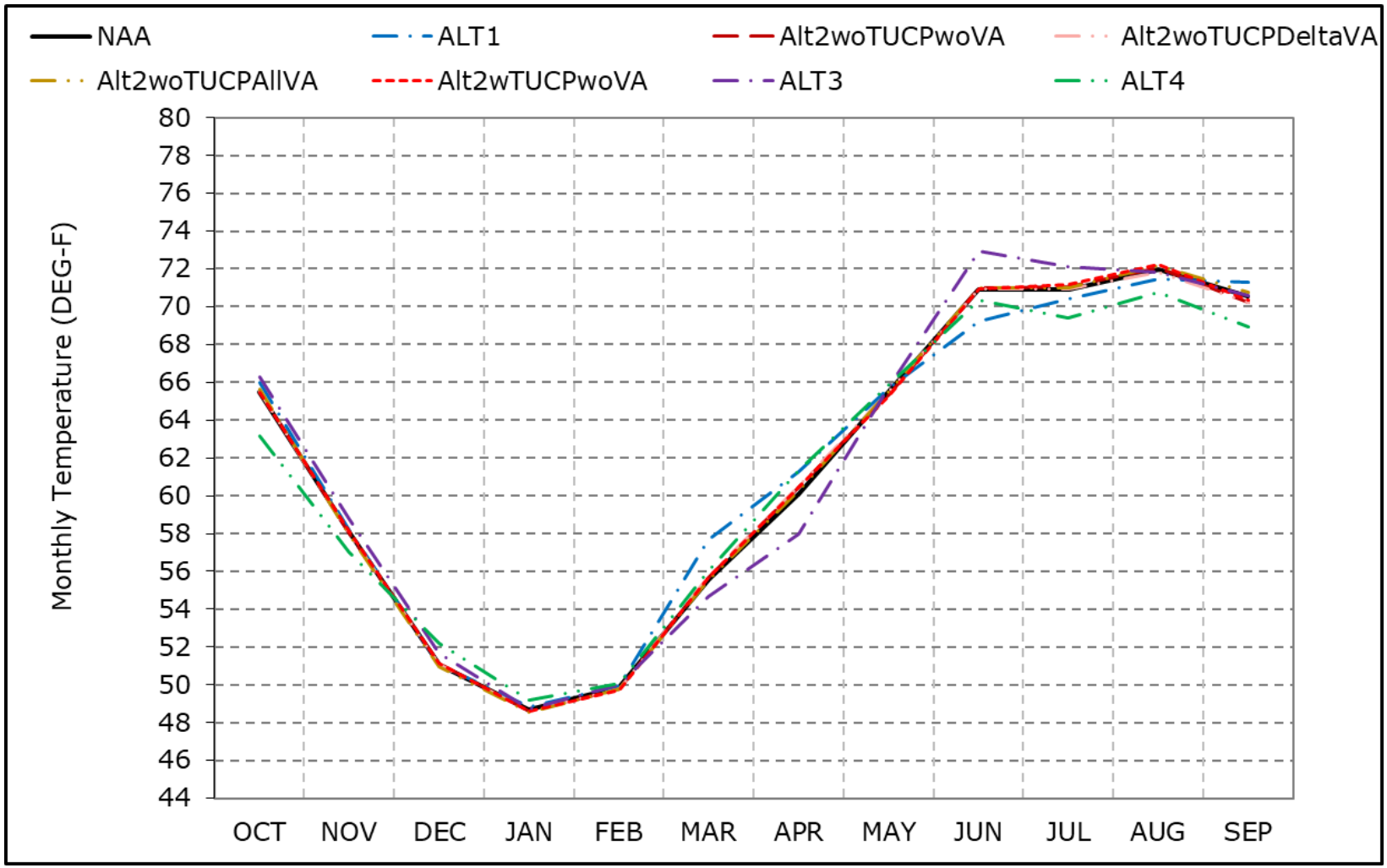
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-2. American River at the Mouth, Wet Year Average Temperature



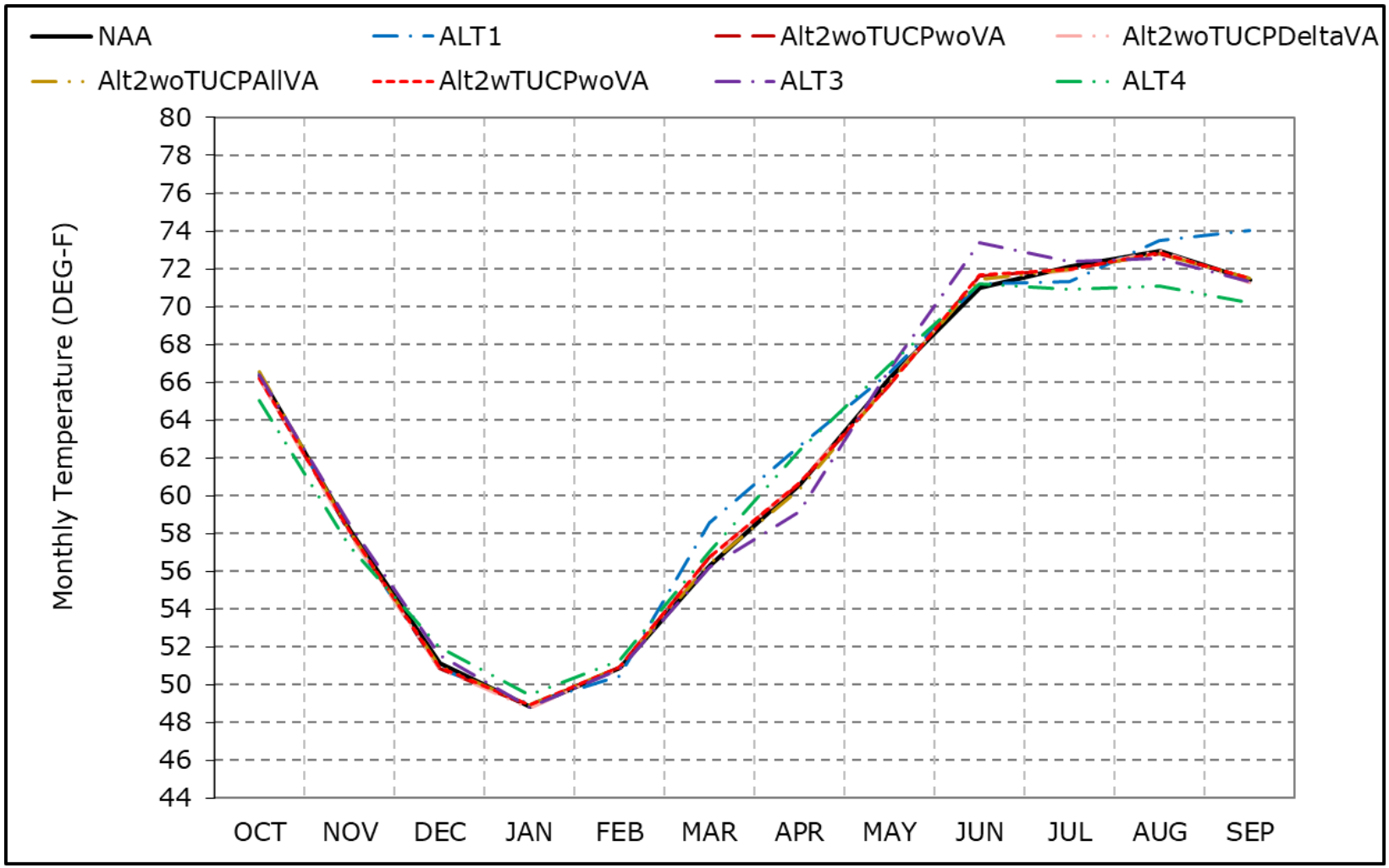
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-3. American River at the Mouth, Above Normal Year Average Temperature



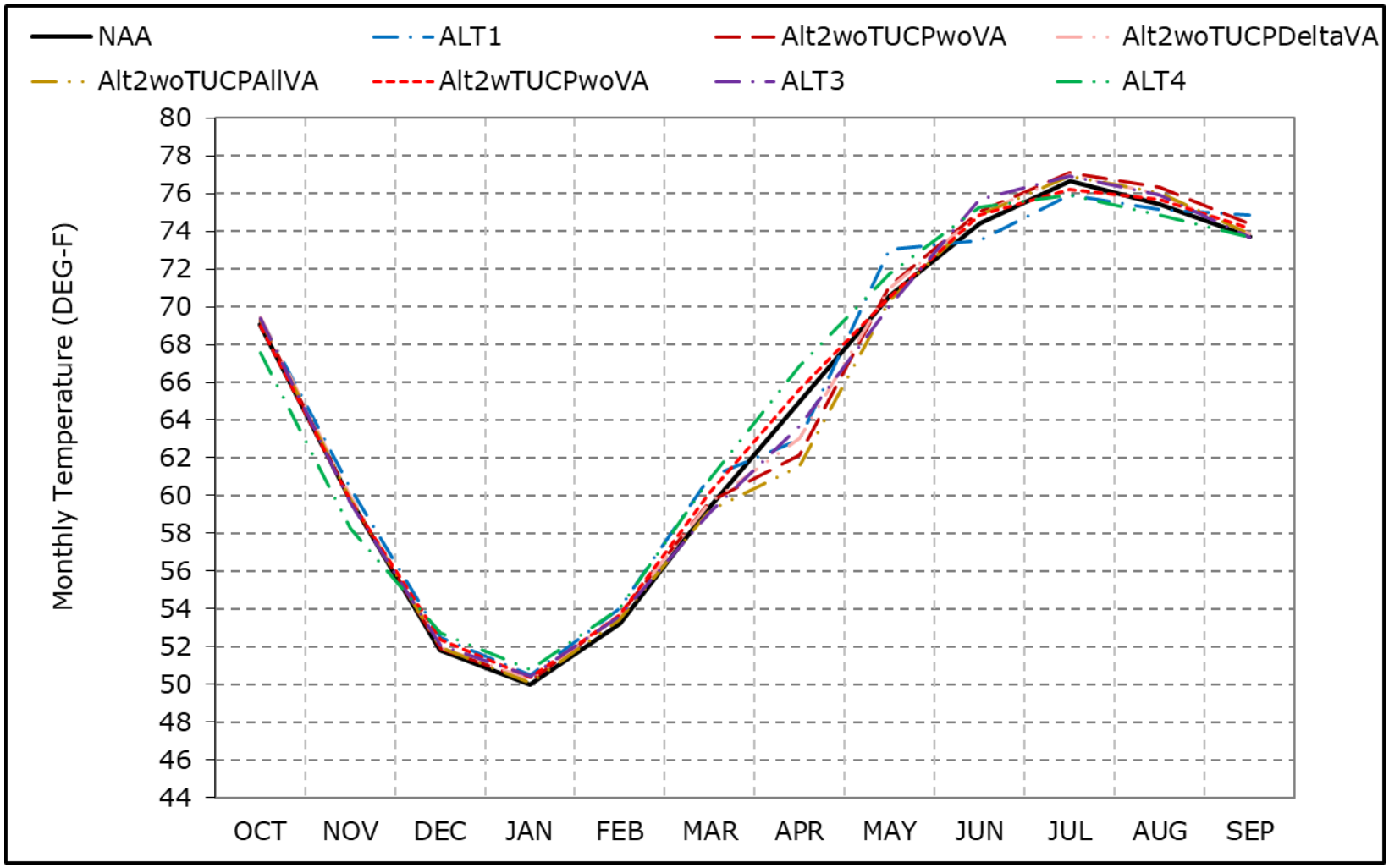
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-4. American River at the Mouth, Below Normal Year Average Temperature



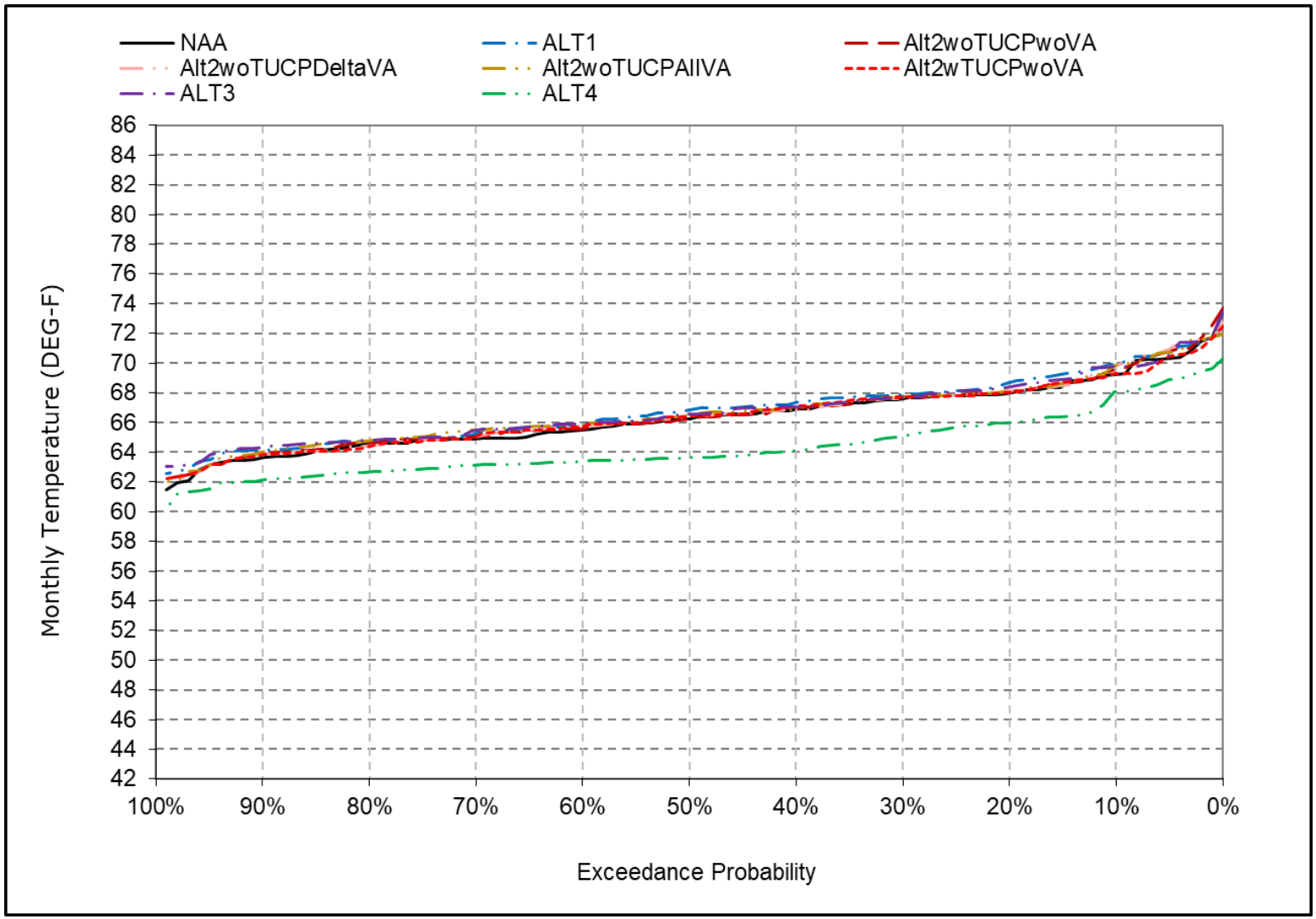
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-5. American River at the Mouth, Dry Year Average Temperature



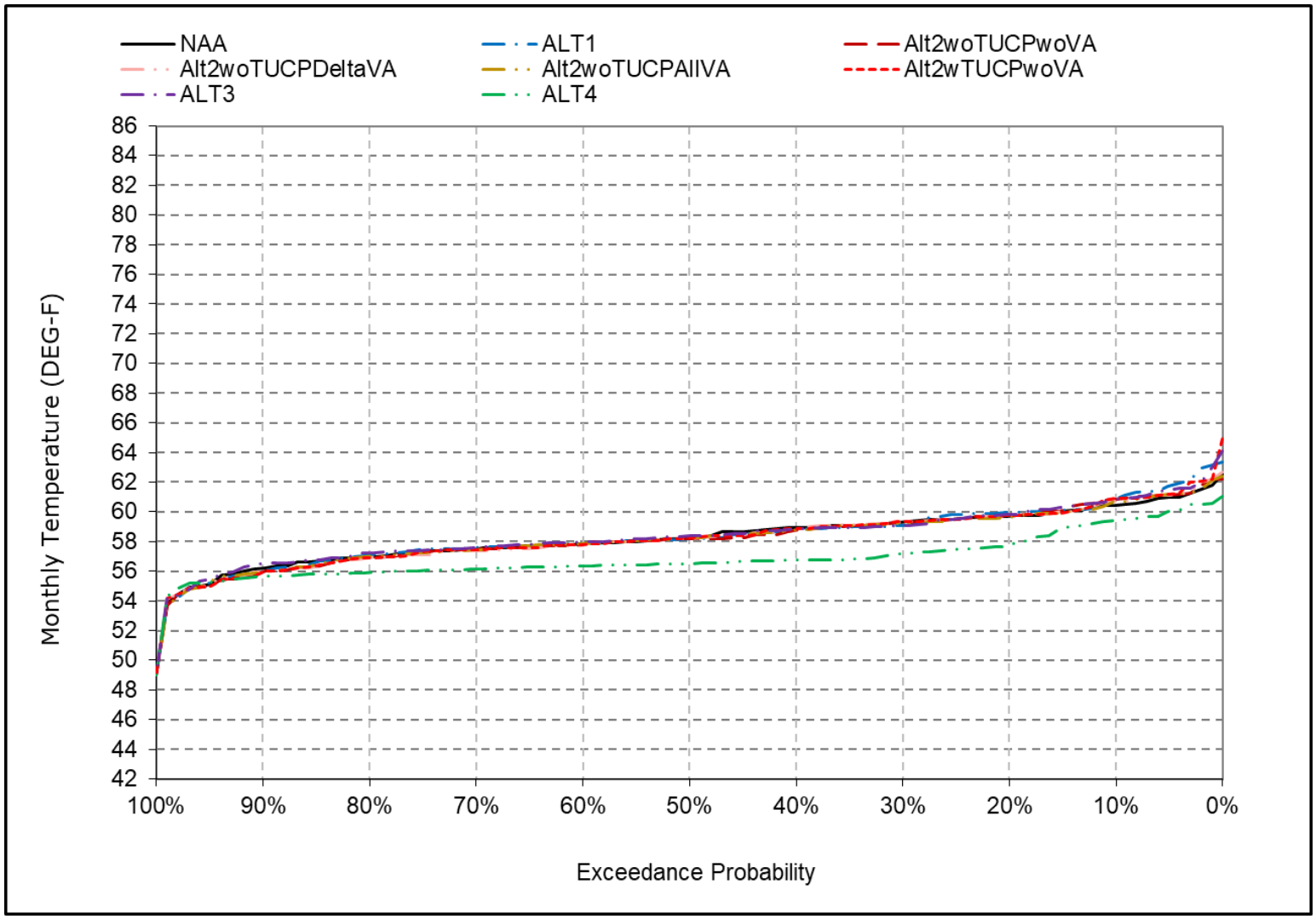
As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-6. American River at the Mouth, Critical Year Average Temperature



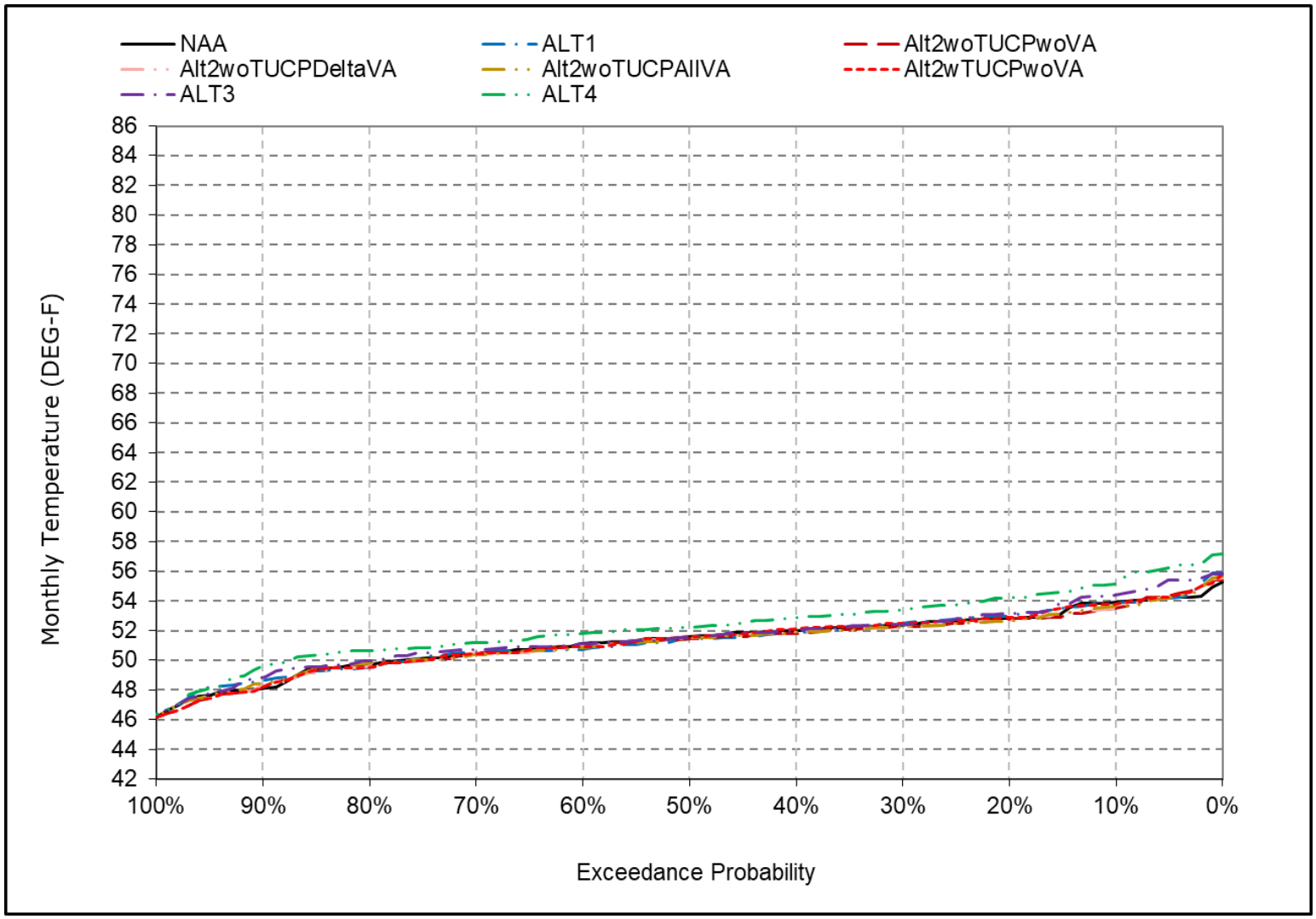
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-7. American River at the Mouth, October



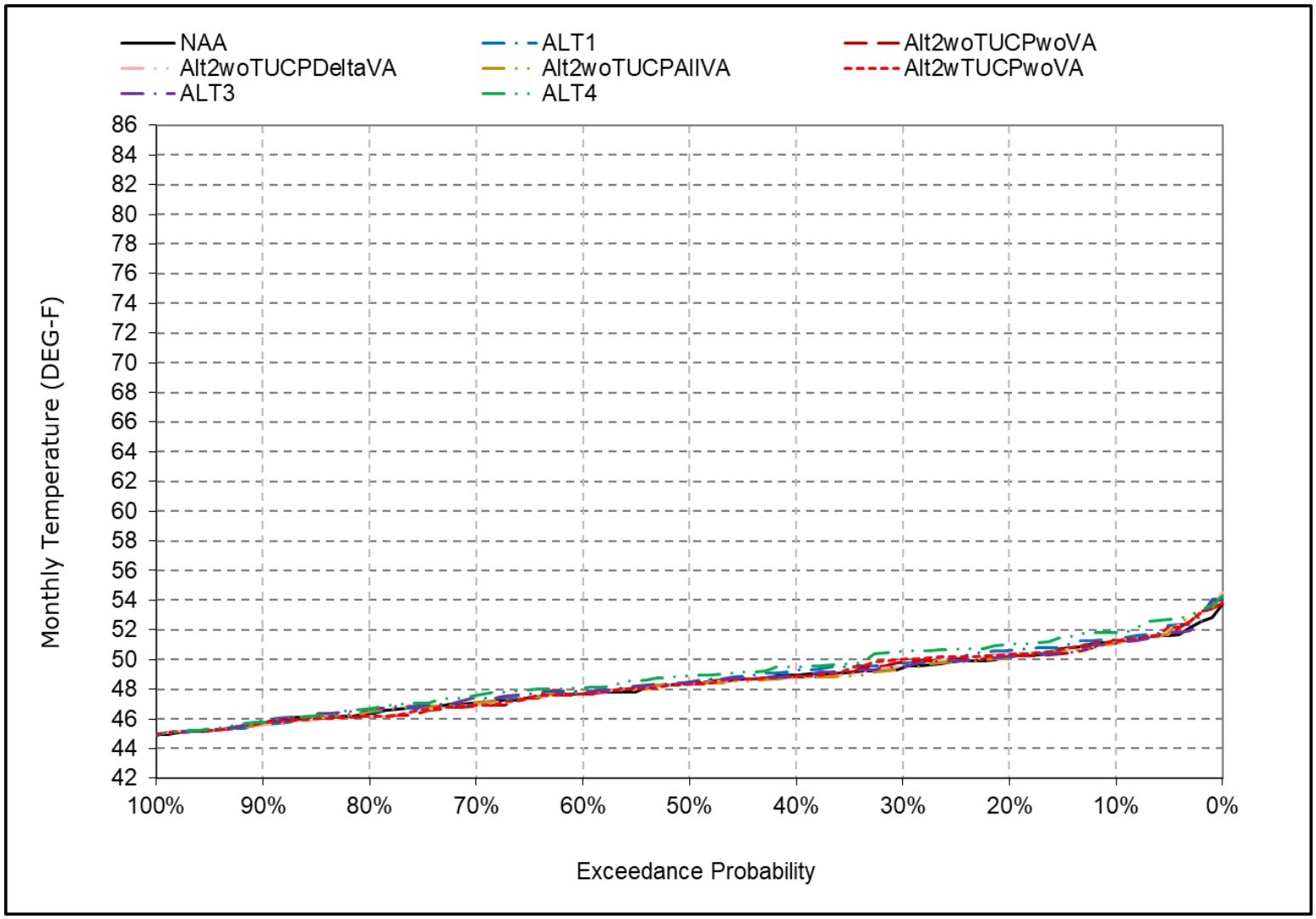
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-8. American River at the Mouth, November



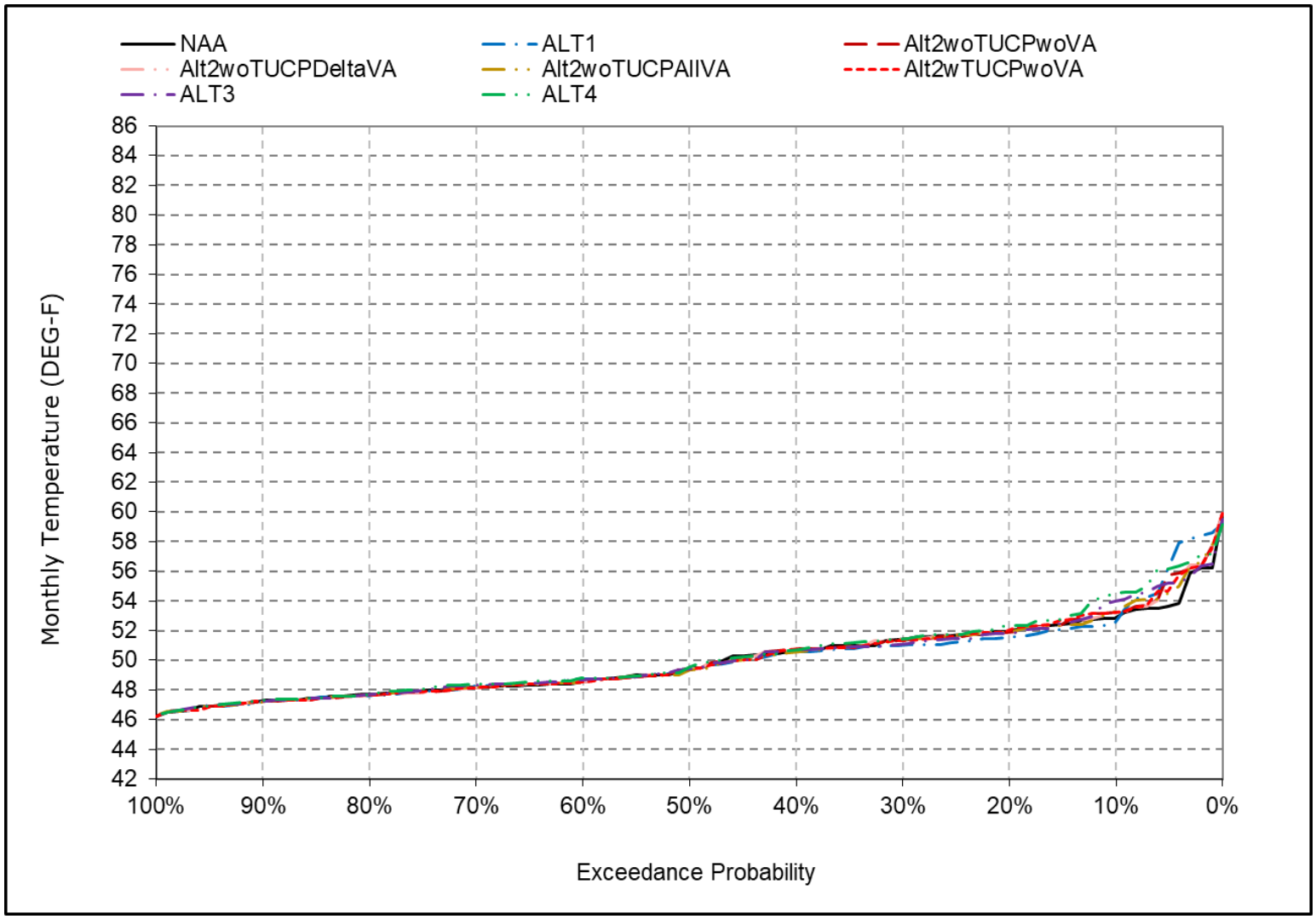
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-9. American River at the Mouth, December



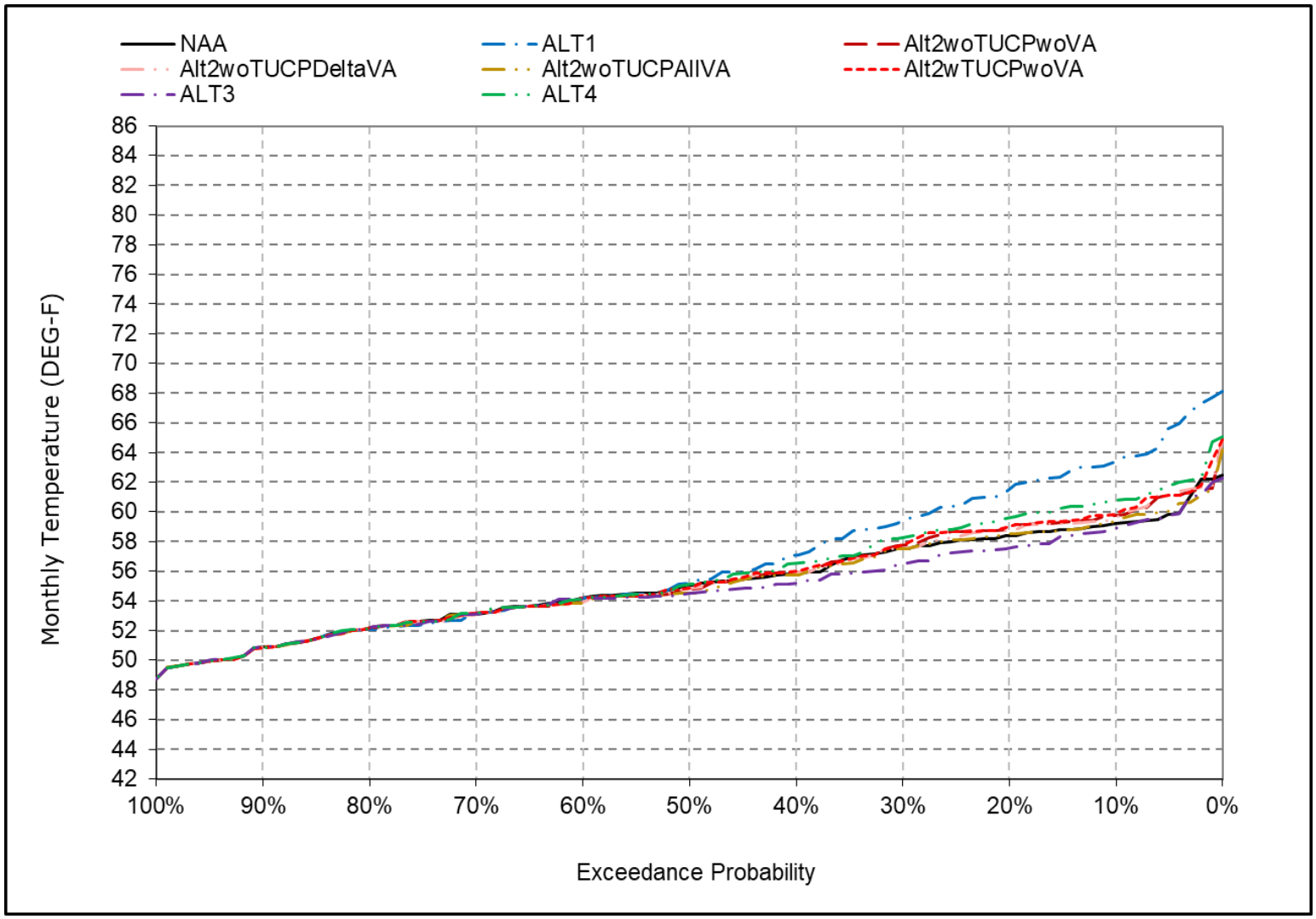
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-10. American River at the Mouth, January



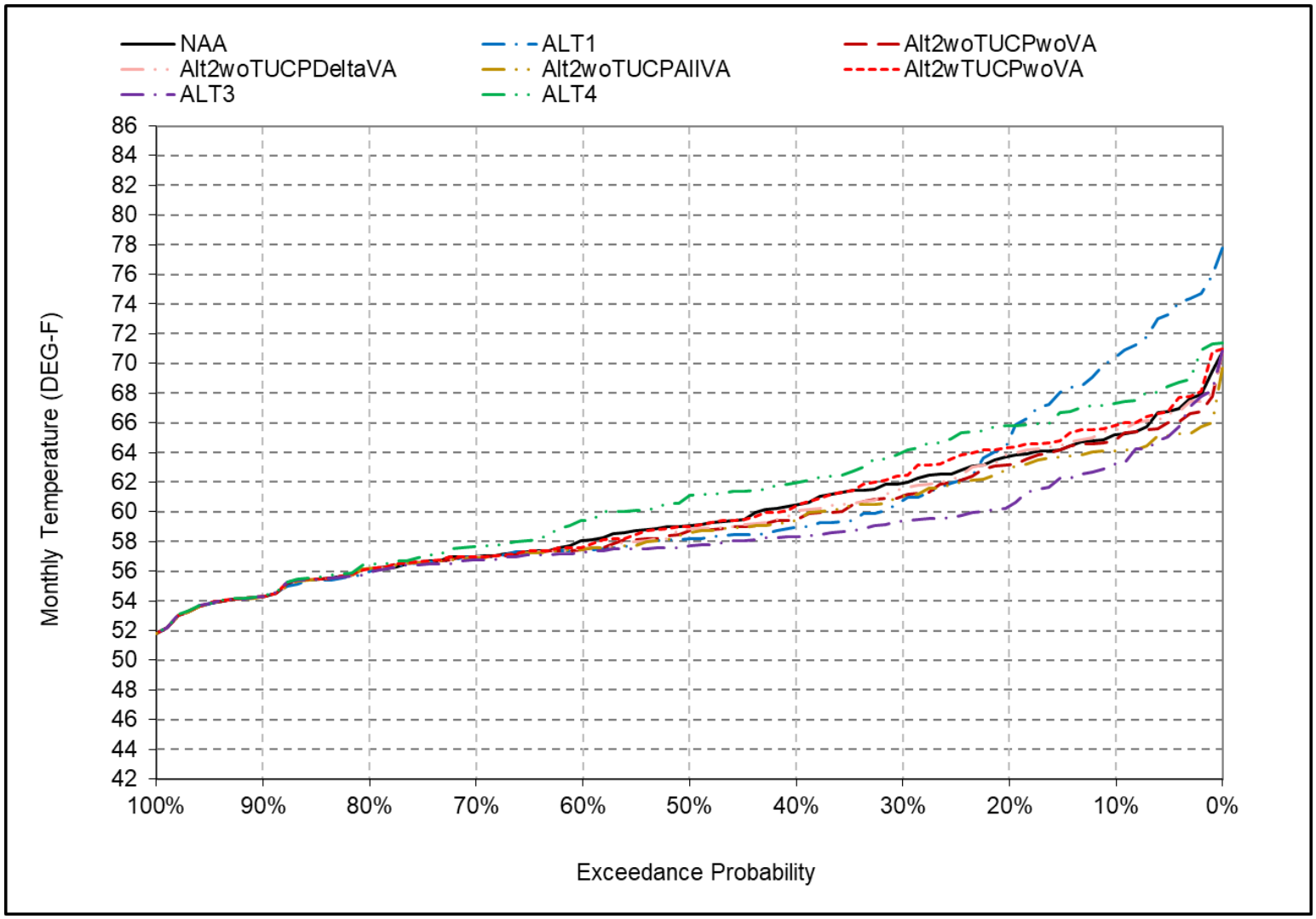
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-11. American River at the Mouth, February



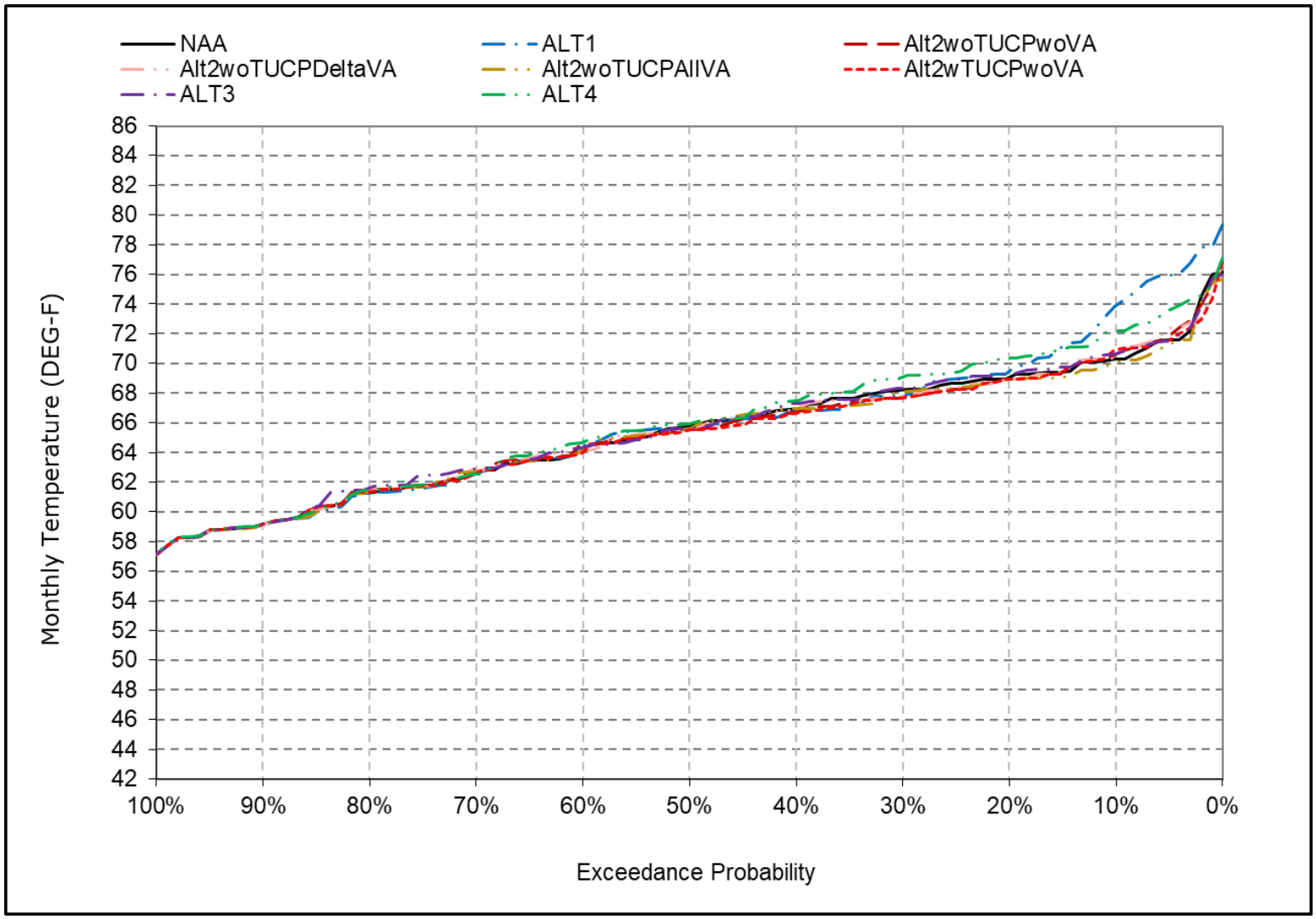
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-12. American River at the Mouth, March



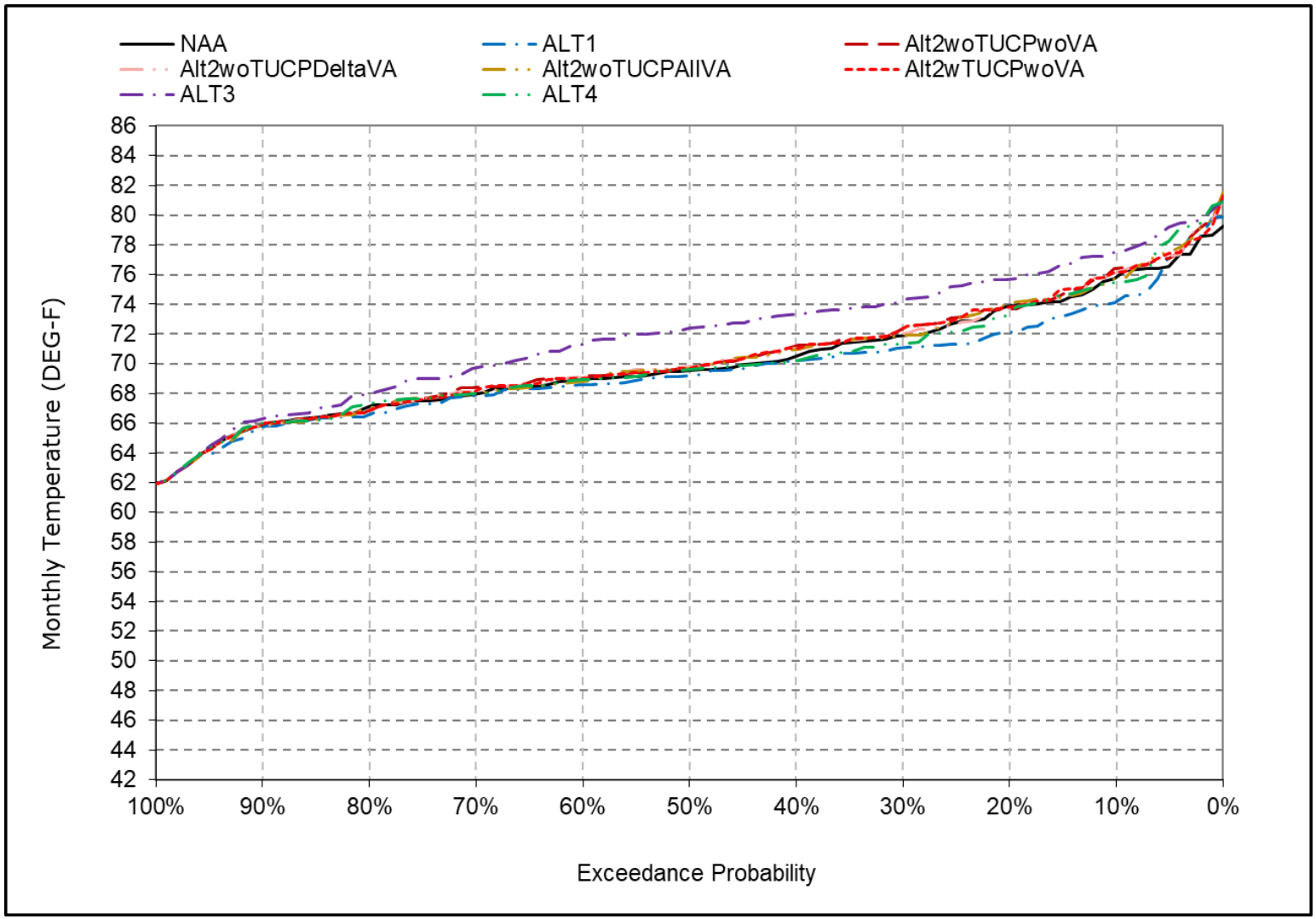
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-13. American River at the Mouth, April



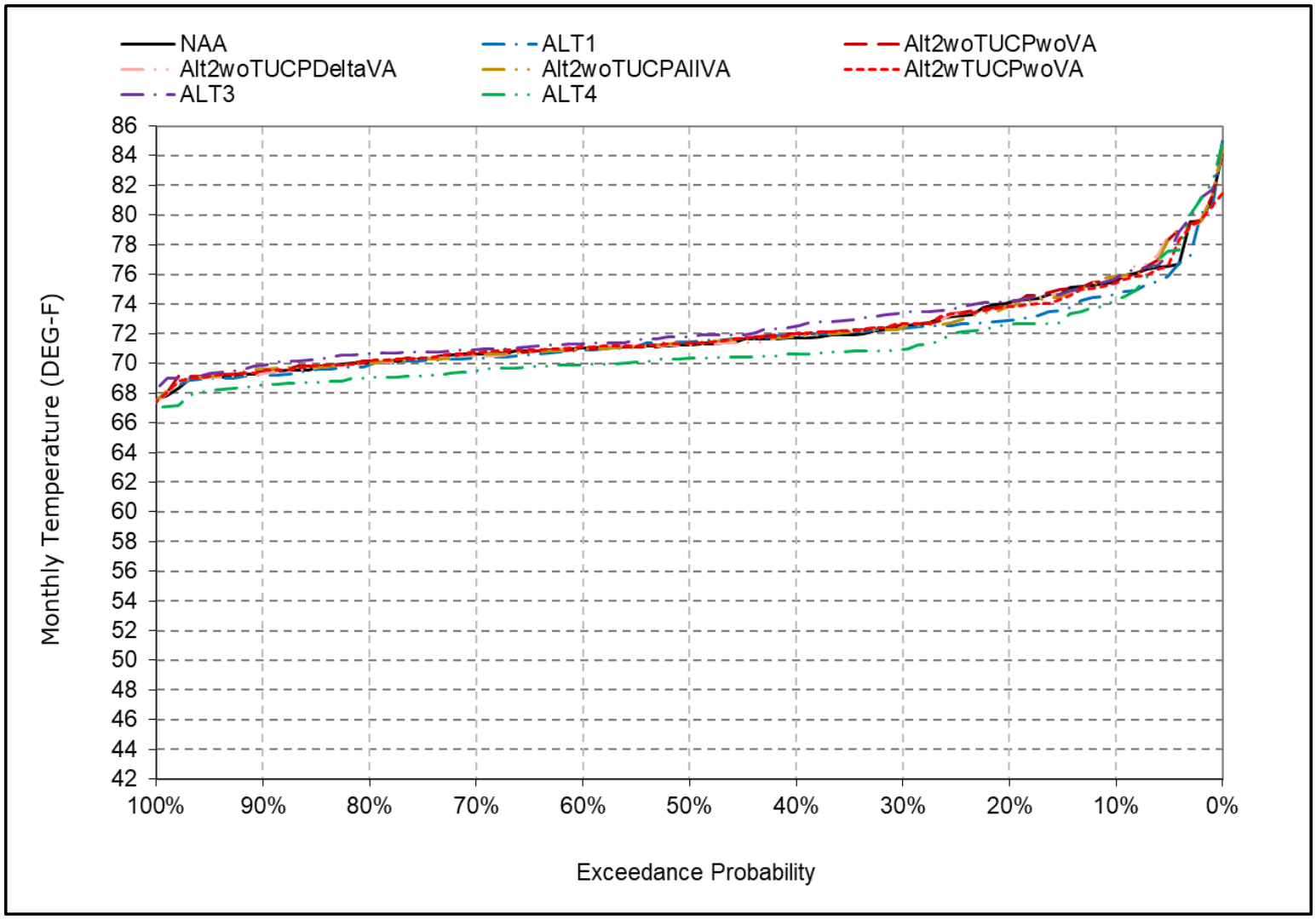
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-14. American River at the Mouth, May



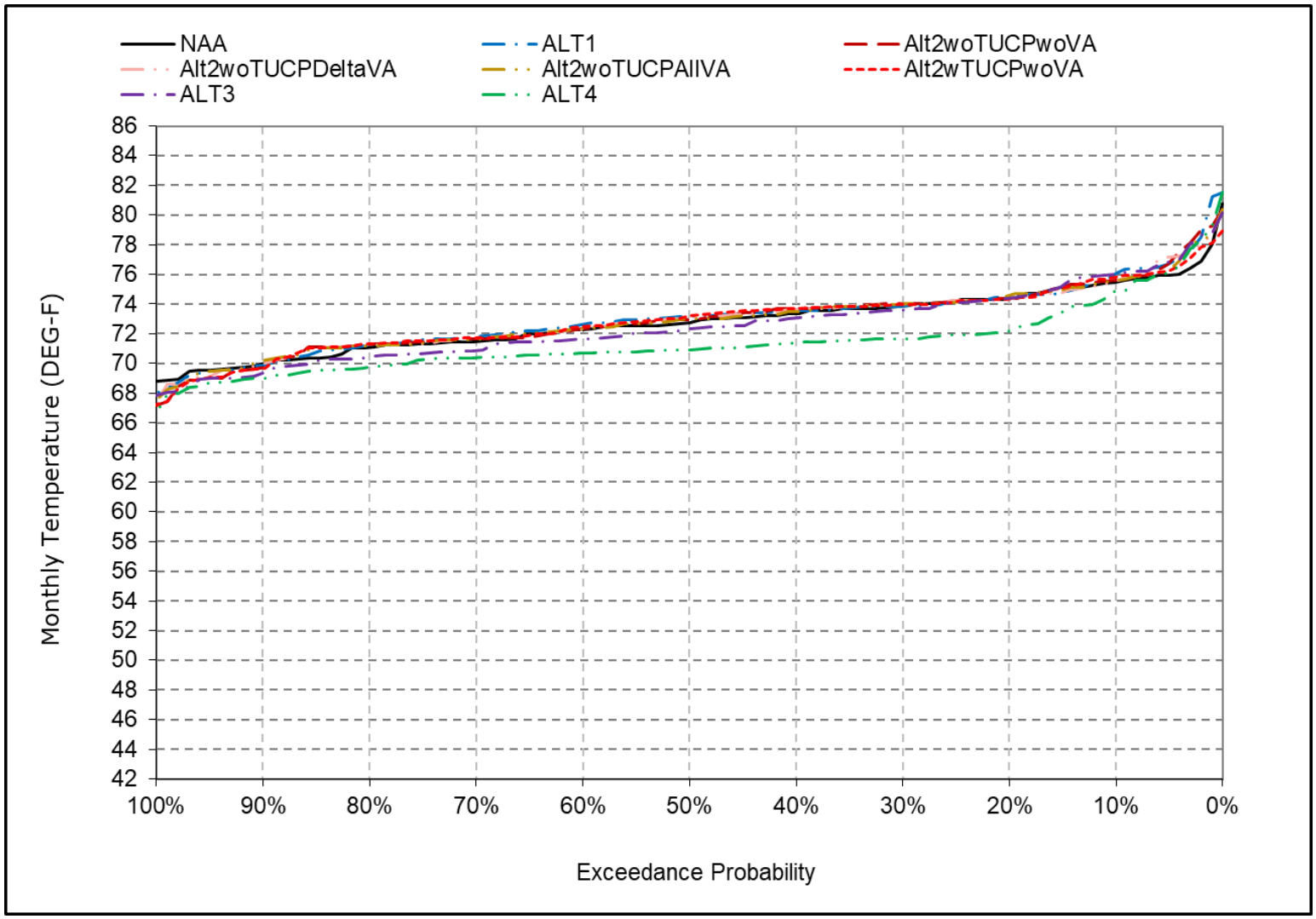
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-15. American River at the Mouth, June



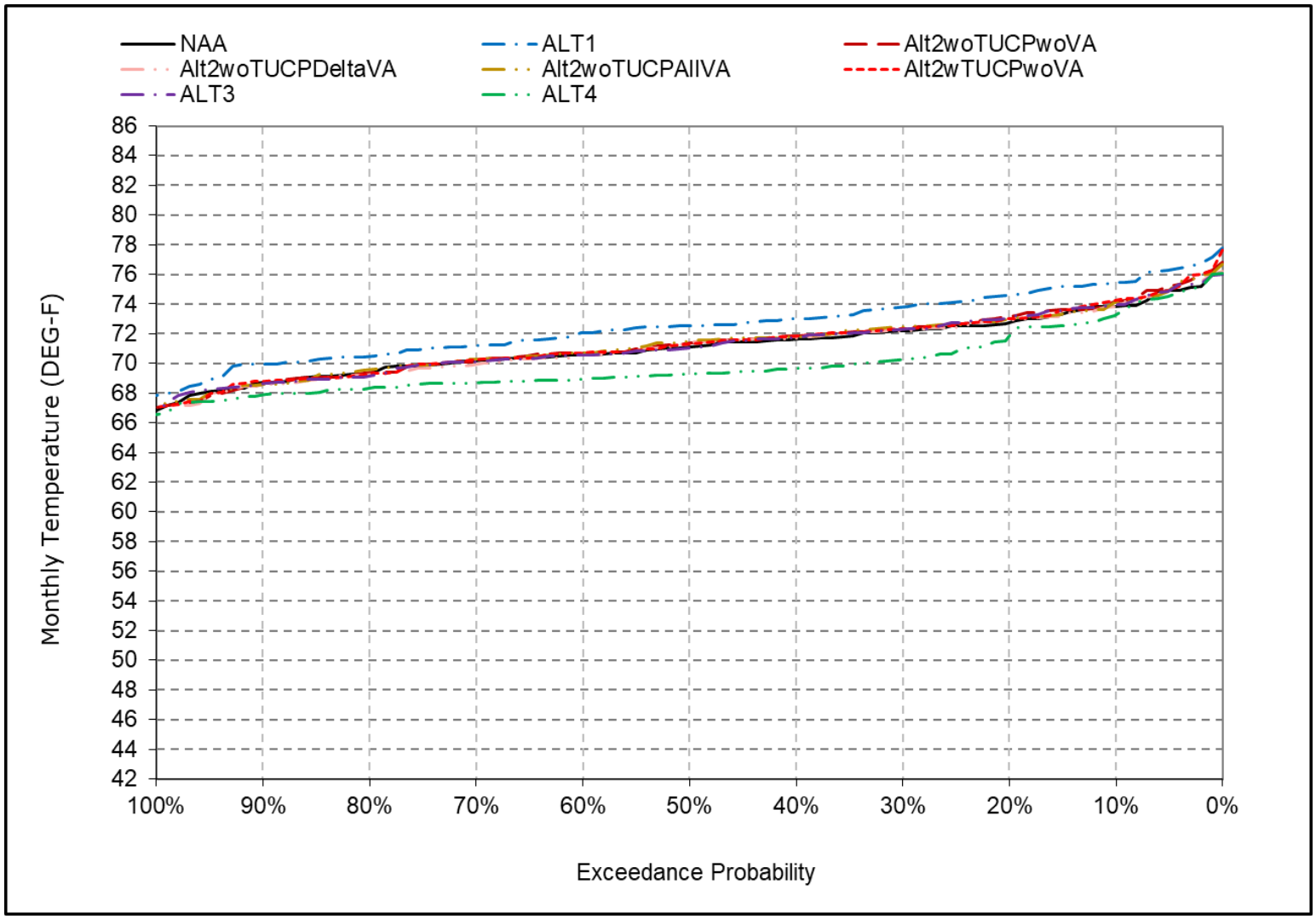
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-16. American River at the Mouth, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-17. American River at the Mouth, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-15-18. American River at the Mouth, September

Table F.2.11-16-1a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-1b. Stanislaus River below New Melones Reservoir, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	53	52	52	51	50	51	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	52	52	51	51	50	50	50	50	50	51	51	51
40% Exceedance	51.1	51.2	51.1	50.3	49.5	49.3	49.4	49.7	50.0	50.3	50.6	50.9
50% Exceedance	50.7	50.9	50.8	50.0	49.2	48.9	49.0	49.3	49.6	49.9	50.3	50.6
60% Exceedance	50.5	50.6	50.5	49.7	48.9	48.7	48.8	49.1	49.3	49.6	50.0	50.2
70% Exceedance	50.2	50.4	50.3	49.4	48.7	48.4	48.5	48.8	49.1	49.3	49.7	49.9
80% Exceedance	49.8	49.9	50.0	49.2	48.4	48.1	48.2	48.4	48.6	48.9	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.7	47.5	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	50	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	50	49	49	50	50	50	51	51
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-1c. Stanislaus River below New Melones Reservoir, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	-0.1	-0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.0	0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	-0.1	-0.1	-0.1	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Full Simulation Period Average[a]	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Wet Water Years (22%)	-0.2	-0.2	-0.1	0.0	0.1	0.2	0.0	0.0	0.0	-0.1	-0.1	-0.1
Above Normal Years (12%)	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Years (17%)	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-2a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-2b. Stanislaus River below New Melones Reservoir, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	53	52	52	51	50	50	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	51	52	51	51	50	50	50	50	50	50	51	51
40% Exceedance	51.1	51.1	51.1	50.2	49.5	49.3	49.3	49.6	49.9	50.2	50.6	50.9
50% Exceedance	50.9	51.0	50.9	50.0	49.1	48.9	49.0	49.3	49.6	49.9	50.2	50.6
60% Exceedance	50.6	50.7	50.5	49.7	48.9	48.7	48.8	49.0	49.2	49.6	50.1	50.3
70% Exceedance	50.1	50.3	50.1	49.4	48.7	48.4	48.4	48.7	49.1	49.3	49.6	49.9
80% Exceedance	49.8	49.9	49.9	49.1	48.3	48.1	48.2	48.4	48.7	49.0	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.5	47.4	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	50	51
Critical (34%)	53	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-2c. Stanislaus River below New Melones Reservoir, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years (22%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Dry Years (17%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-3a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-3b. Stanislaus River below New Melones Reservoir, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	53	52	52	51	50	50	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	51	52	51	51	50	50	50	50	50	50	51	51
40% Exceedance	51.1	51.1	51.1	50.2	49.5	49.3	49.3	49.6	49.9	50.2	50.6	50.9
50% Exceedance	50.9	51.0	50.9	50.0	49.1	48.9	49.0	49.3	49.6	49.9	50.2	50.6
60% Exceedance	50.6	50.7	50.5	49.7	48.9	48.7	48.8	49.0	49.2	49.6	50.1	50.3
70% Exceedance	50.1	50.3	50.1	49.4	48.7	48.4	48.4	48.7	49.1	49.3	49.6	49.9
80% Exceedance	49.8	49.9	49.9	49.1	48.3	48.1	48.2	48.4	48.7	49.0	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.5	47.4	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	50	51
Critical (34%)	53	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-3c. Stanislaus River below New Melones Reservoir, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years (22%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Dry Years (17%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-4a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-4b. Stanislaus River below New Melones Reservoir, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	53	52	52	51	50	50	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	51	52	51	51	50	50	50	50	50	51	51	51
40% Exceedance	51.0	51.1	51.1	50.2	49.5	49.3	49.3	49.6	49.9	50.2	50.5	50.8
50% Exceedance	50.9	51.0	50.8	50.0	49.1	49.0	49.0	49.3	49.6	49.8	50.2	50.6
60% Exceedance	50.5	50.6	50.5	49.7	48.9	48.7	48.8	49.0	49.3	49.6	50.0	50.3
70% Exceedance	50.1	50.3	50.2	49.4	48.7	48.4	48.4	48.7	49.1	49.3	49.6	49.9
80% Exceedance	49.8	49.9	49.9	49.1	48.3	48.1	48.2	48.5	48.7	49.0	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.5	47.4	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	50	51
Critical (34%)	53	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-4c. Stanislaus River below New Melones Reservoir, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years (22%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Dry Years (17%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-5a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-5b. Stanislaus River below New Melones Reservoir, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	53	52	52	51	50	50	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	51	52	51	51	50	50	50	50	50	51	51	51
40% Exceedance	51.1	51.1	51.1	50.2	49.5	49.3	49.3	49.6	49.9	50.2	50.5	50.8
50% Exceedance	50.9	51.0	50.8	50.0	49.1	49.0	49.0	49.3	49.6	49.8	50.2	50.6
60% Exceedance	50.5	50.6	50.5	49.7	48.9	48.7	48.8	49.0	49.3	49.6	50.1	50.3
70% Exceedance	50.1	50.3	50.2	49.4	48.7	48.4	48.4	48.7	49.1	49.3	49.6	49.9
80% Exceedance	49.8	49.9	49.9	49.1	48.3	48.1	48.2	48.5	48.7	49.0	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.5	47.4	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	50	51
Critical (34%)	53	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-5c. Stanislaus River below New Melones Reservoir, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years (22%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Dry Years (17%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-6a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-6b. Stanislaus River below New Melones Reservoir, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	53	52	51	51	50	51	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	52	52	52	51	50	49	50	50	50	51	51	51
40% Exceedance	51.2	51.3	51.1	50.2	49.5	49.2	49.4	49.7	49.9	50.2	50.6	50.9
50% Exceedance	50.9	50.9	50.8	50.1	49.1	48.9	49.0	49.3	49.6	50.0	50.3	50.6
60% Exceedance	50.5	50.7	50.5	49.7	48.8	48.7	48.9	49.1	49.4	49.7	50.0	50.2
70% Exceedance	50.3	50.4	50.3	49.4	48.7	48.3	48.5	48.7	49.0	49.4	49.7	50.0
80% Exceedance	49.8	50.0	50.0	49.1	48.3	48.0	48.1	48.4	48.7	49.0	49.3	49.6
90% Exceedance	49.4	49.5	49.5	48.7	47.7	47.2	47.4	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	49	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	48	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	51	51
Critical (34%)	52	52	52	51	50	50	50	50	51	51	51	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-6c. Stanislaus River below New Melones Reservoir, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.2	0.1	0.1	0.0	-0.1	0.0	0.0	0.0	0.1	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.0	-0.1	0.0	0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
Full Simulation Period Average[a]	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1
Wet Water Years (22%)	-0.1	-0.1	0.0	0.0	0.1	-0.1	0.1	0.1	0.1	0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
Dry Years (17%)	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-7a. Stanislaus River below New Melones Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52.6	52.7	52.3	51.5	50.7	50.4	50.5	50.8	51.1	51.6	51.9	52.2
20% Exceedance	52.0	52.1	51.9	50.8	50.0	49.8	49.9	50.2	50.7	51.1	51.5	51.8
30% Exceedance	51.4	51.5	51.4	50.5	49.8	49.6	49.7	50.0	50.2	50.5	50.8	51.1
40% Exceedance	51.0	51.1	51.1	50.3	49.5	49.3	49.4	49.6	49.9	50.2	50.5	50.8
50% Exceedance	51	51	51	50	49	49	49	49	50	50	50	51
60% Exceedance	51	51	50	50	49	49	49	49	49	50	50	50
70% Exceedance	50	50	50	49	49	48	48	49	49	49	50	50
80% Exceedance	50	50	50	49	48	48	48	48	49	49	49	50
90% Exceedance	49	50	50	49	48	47	48	48	48	48	49	49
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	51	51	51	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51.0	51.1	50.8	50.2	49.5	49.3	49.4	49.7	49.9	50.2	50.5	50.7
Critical (34%)	52	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-7b. Stanislaus River below New Melones Reservoir, Alternative 4, Monthly Temperature (°F)

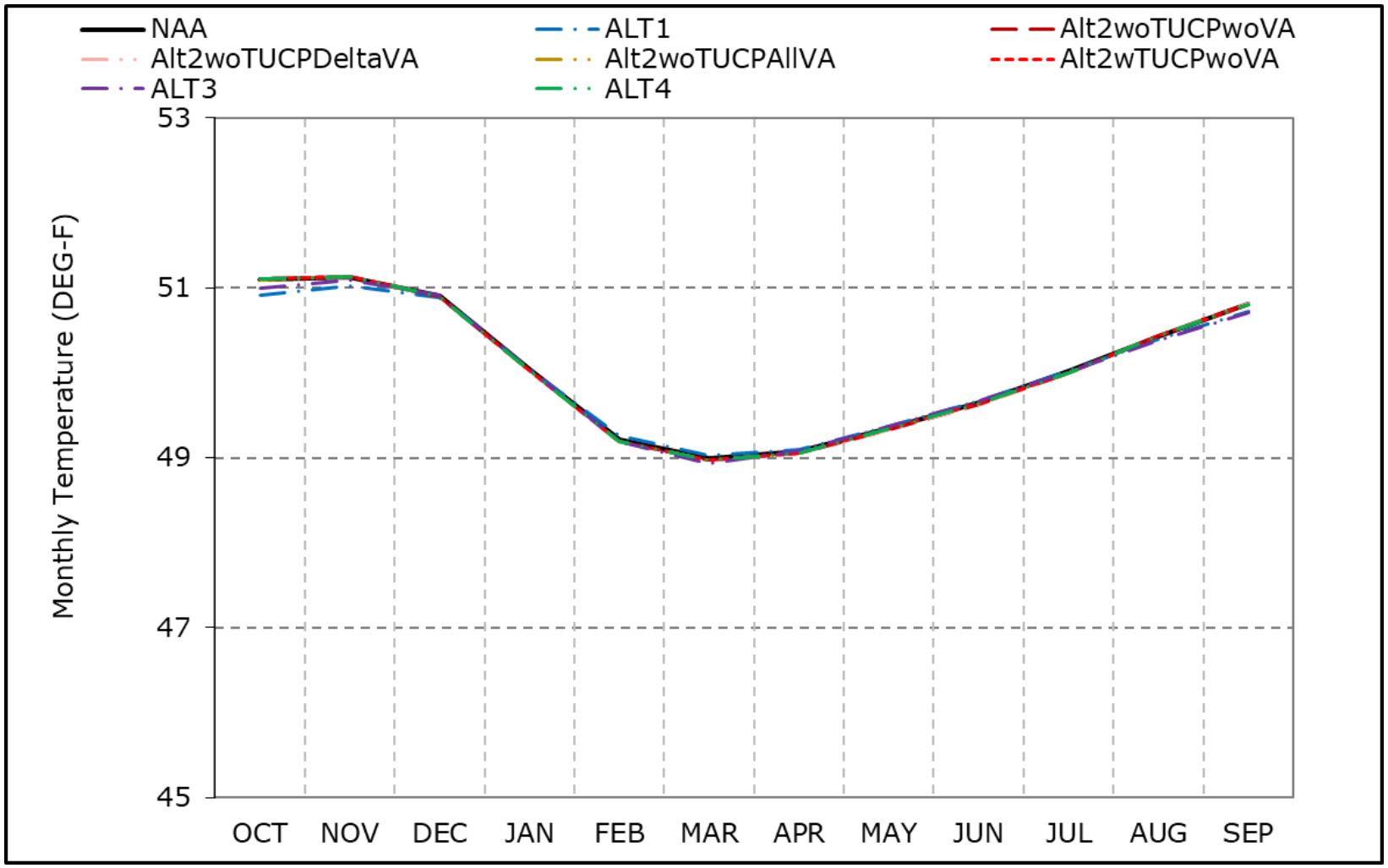
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	53	52	52	51	50	50	51	51	52	52	52
20% Exceedance	52	52	52	51	50	50	50	50	51	51	51	52
30% Exceedance	51	52	51	51	50	50	50	50	50	51	51	51
40% Exceedance	51.1	51.1	51.1	50.2	49.5	49.3	49.3	49.6	49.9	50.2	50.5	50.8
50% Exceedance	50.9	51.0	50.8	50.0	49.1	49.0	49.0	49.3	49.6	49.8	50.2	50.6
60% Exceedance	50.5	50.6	50.5	49.7	48.9	48.7	48.8	49.0	49.3	49.6	50.1	50.3
70% Exceedance	50.1	50.3	50.2	49.4	48.7	48.4	48.4	48.7	49.1	49.3	49.6	49.9
80% Exceedance	49.8	49.9	49.9	49.1	48.3	48.1	48.2	48.5	48.7	49.0	49.3	49.6
90% Exceedance	49.3	49.4	49.5	48.7	47.5	47.4	47.5	47.7	48.0	48.3	48.7	49.1
Full Simulation Period Average[a]	51	51	51	50	49	49	49	49	50	50	50	51
Wet Water Years (22%)	50	50	50	49	48	48	48	48	48	49	49	50
Above Normal Years (12%)	50	51	50	50	49	48	49	49	49	49	50	50
Below Normal Years (15%)	50	50	50	50	49	49	49	49	49	50	50	50
Dry Years (17%)	51	51	51	50	49	49	49	50	50	50	50	51
Critical (34%)	53	52	52	51	50	50	50	50	51	51	52	52

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-16-7c. Stanislaus River below New Melones Reservoir, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

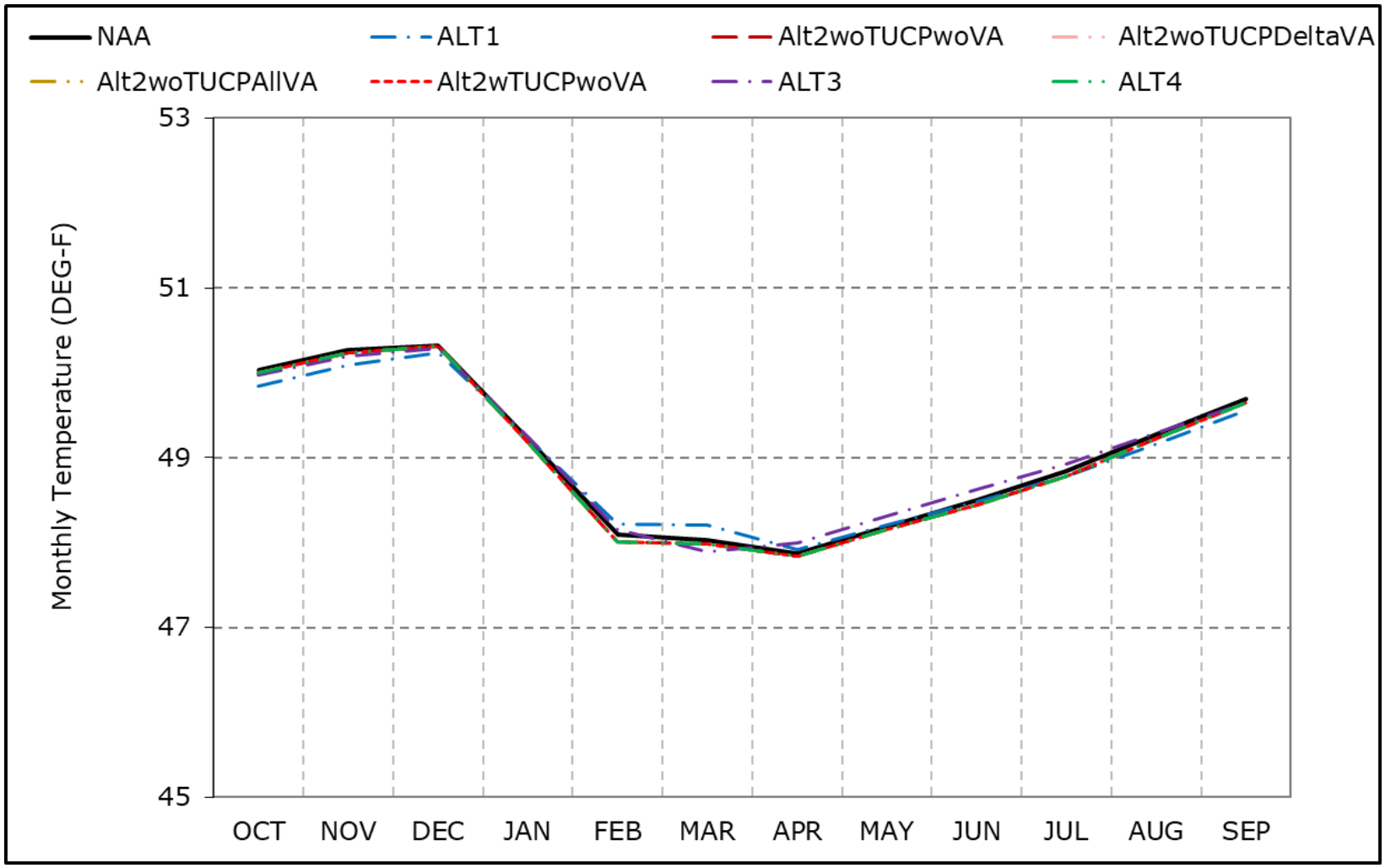
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years (22%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Dry Years (17%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



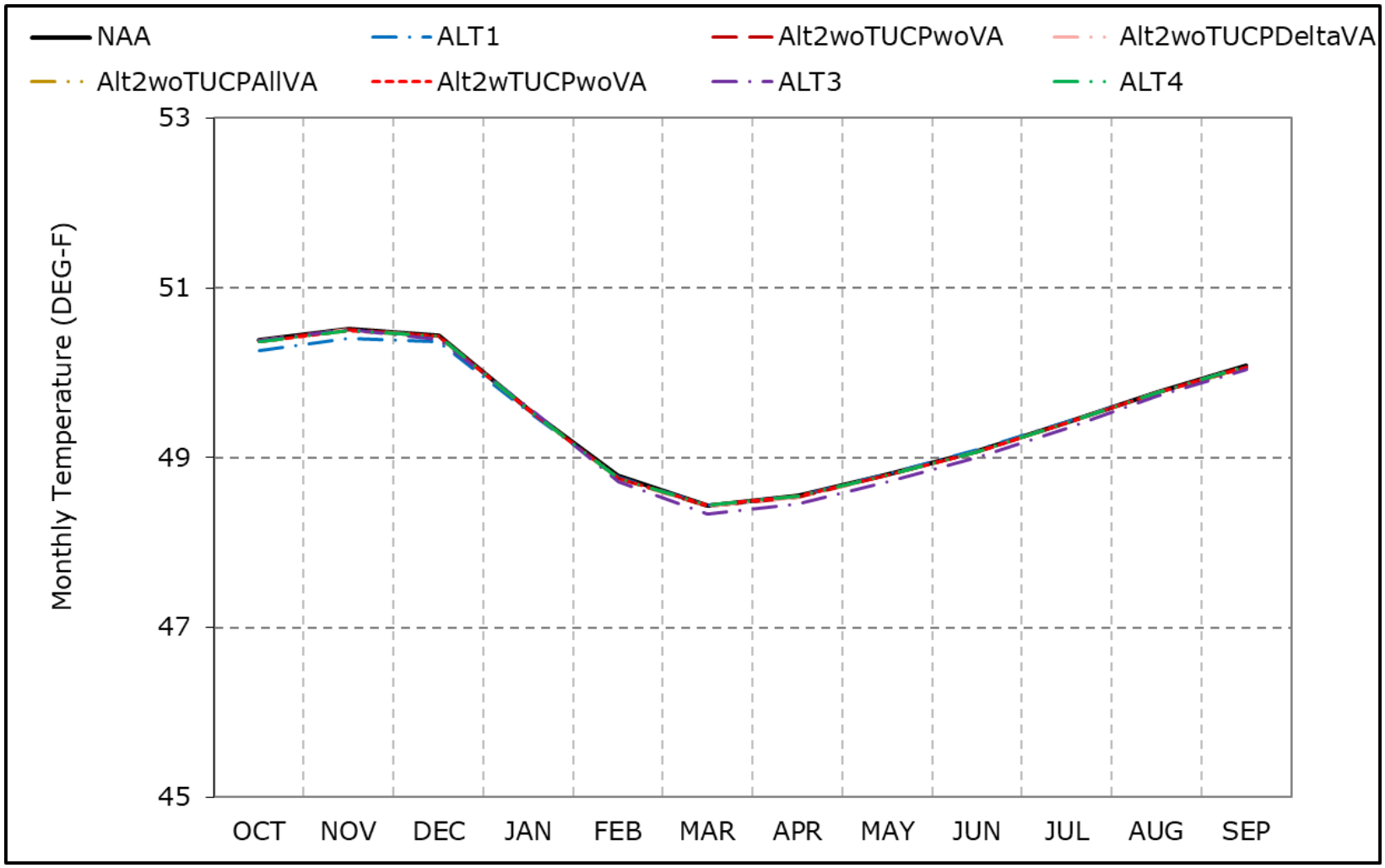
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-1. Stanislaus River below New Melones Reservoir, Long-Term Average Temperature



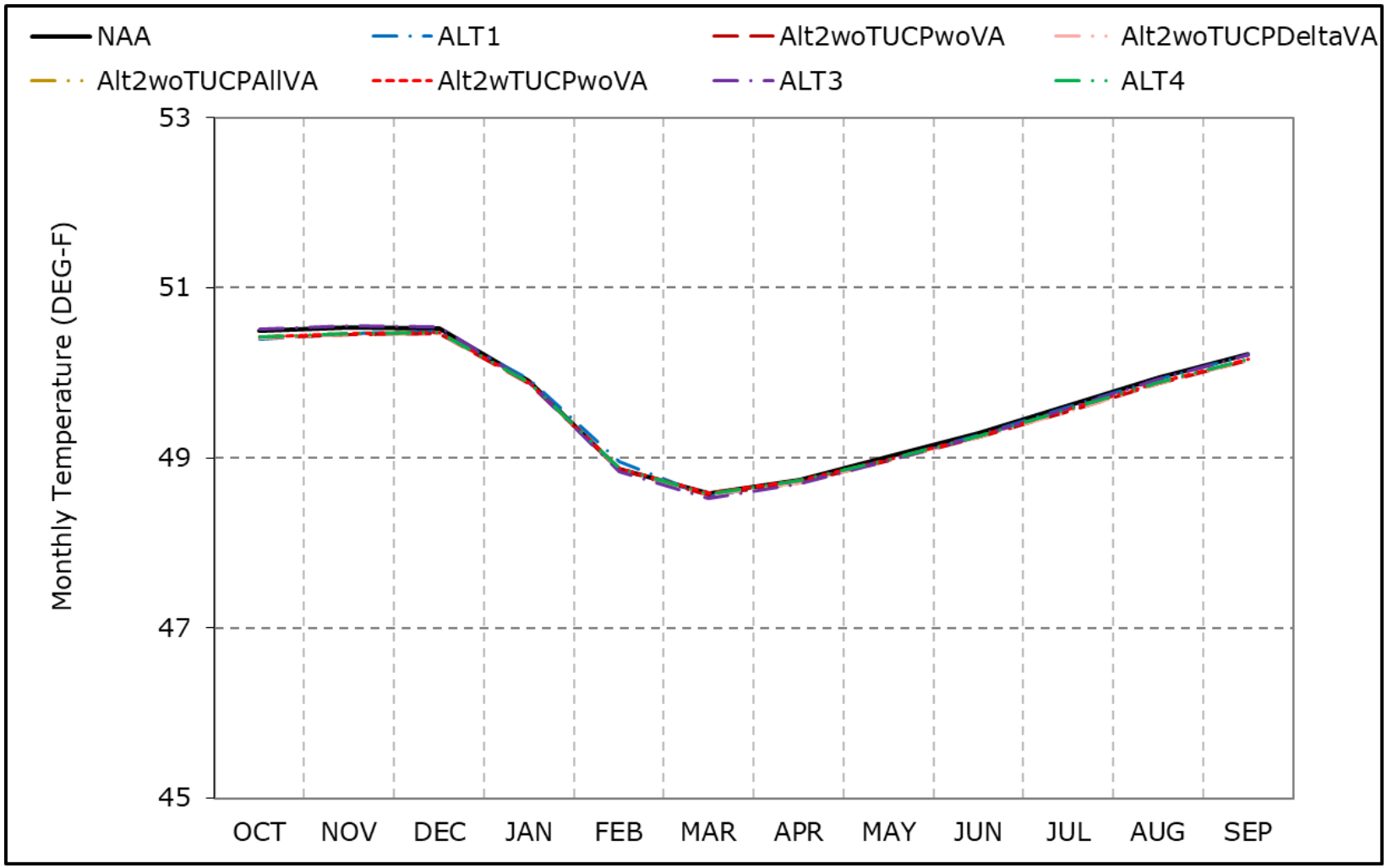
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-2. Stanislaus River below New Melones Reservoir, Wet Year Average Temperature



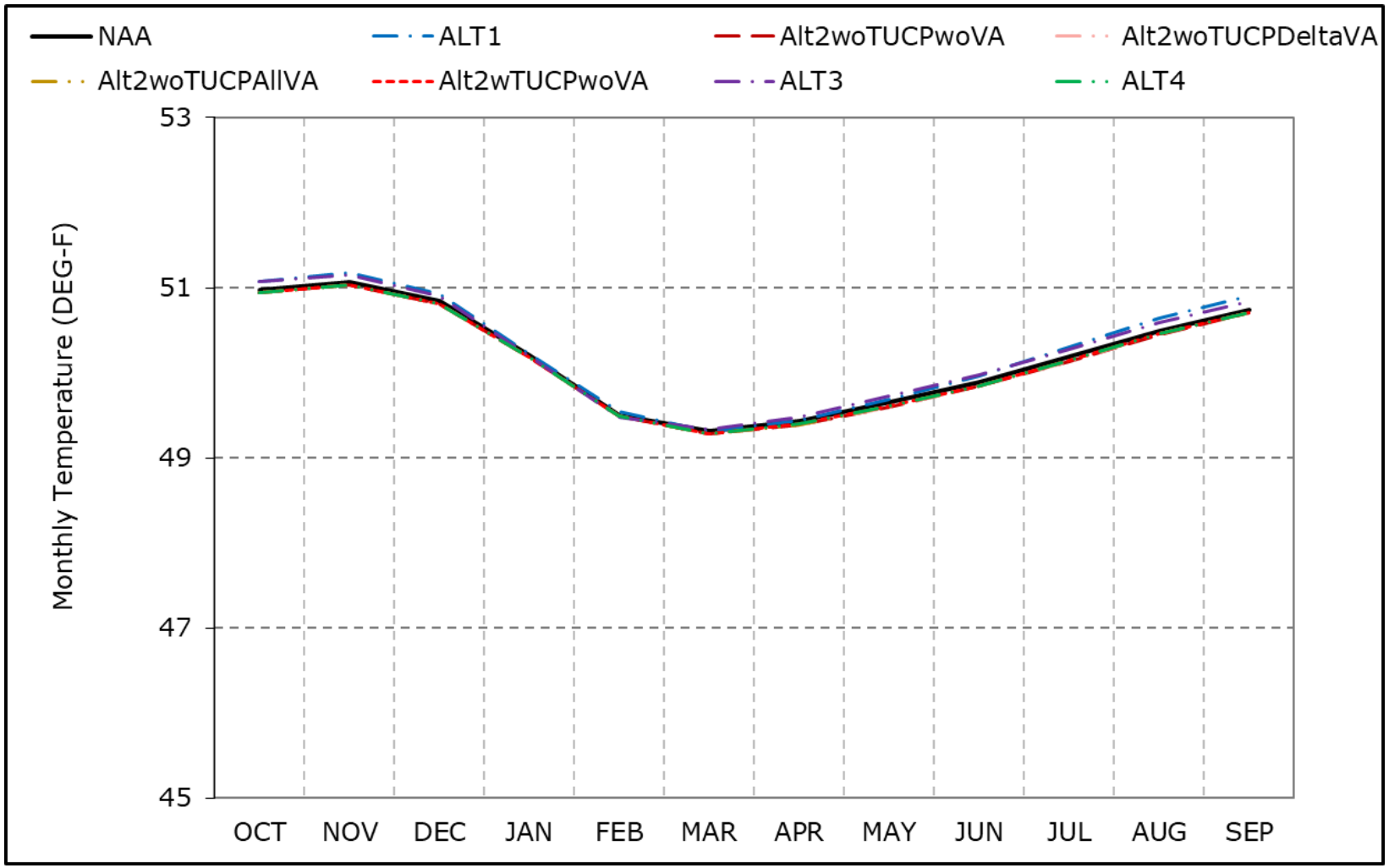
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-3. Stanislaus River below New Melones Reservoir, Above Normal Year Average Temperature



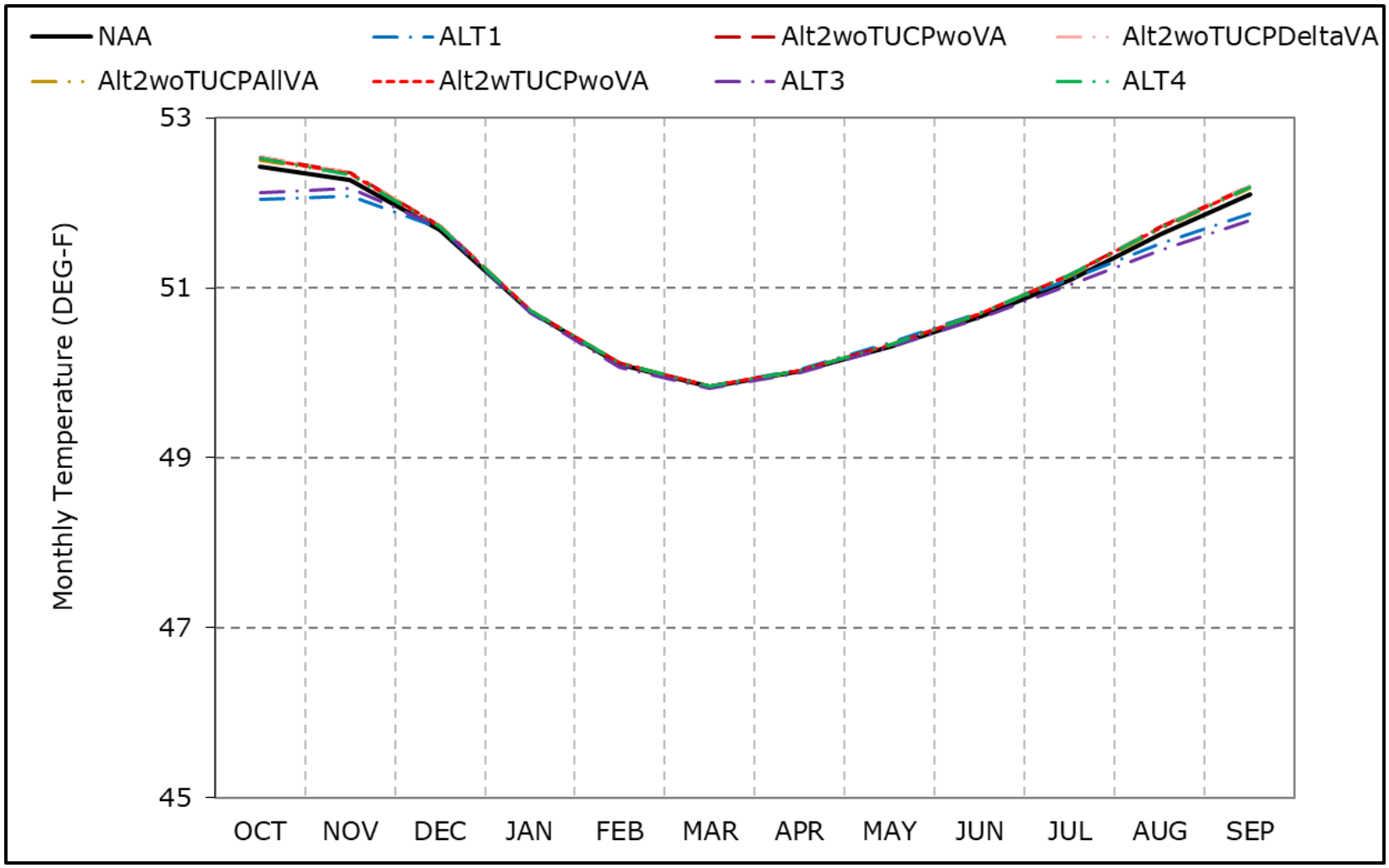
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-4. Stanislaus River below New Melones Reservoir, Below Normal Year Average Temperature



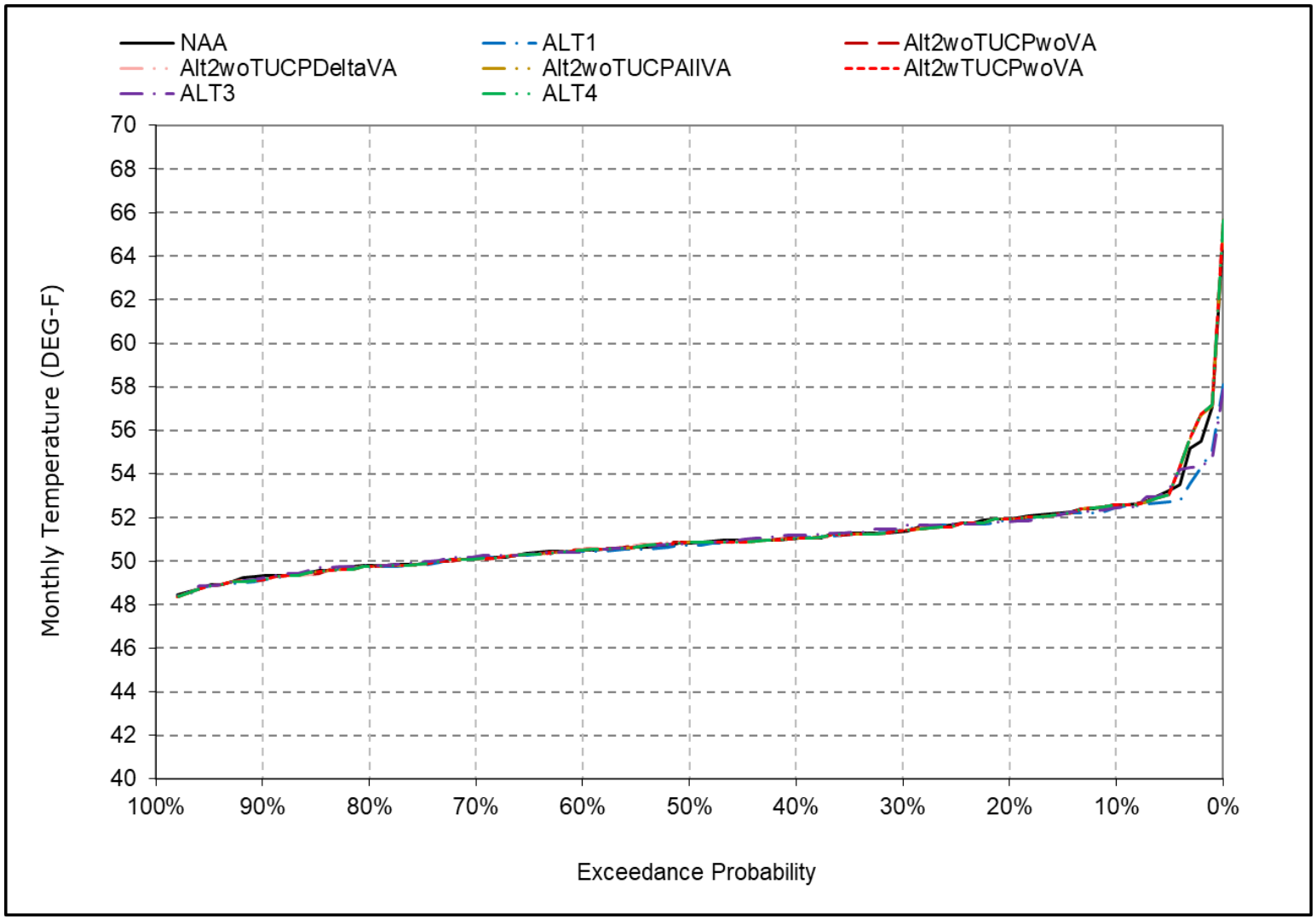
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-5. Stanislaus River below New Melones Reservoir, Dry Year Average Temperature



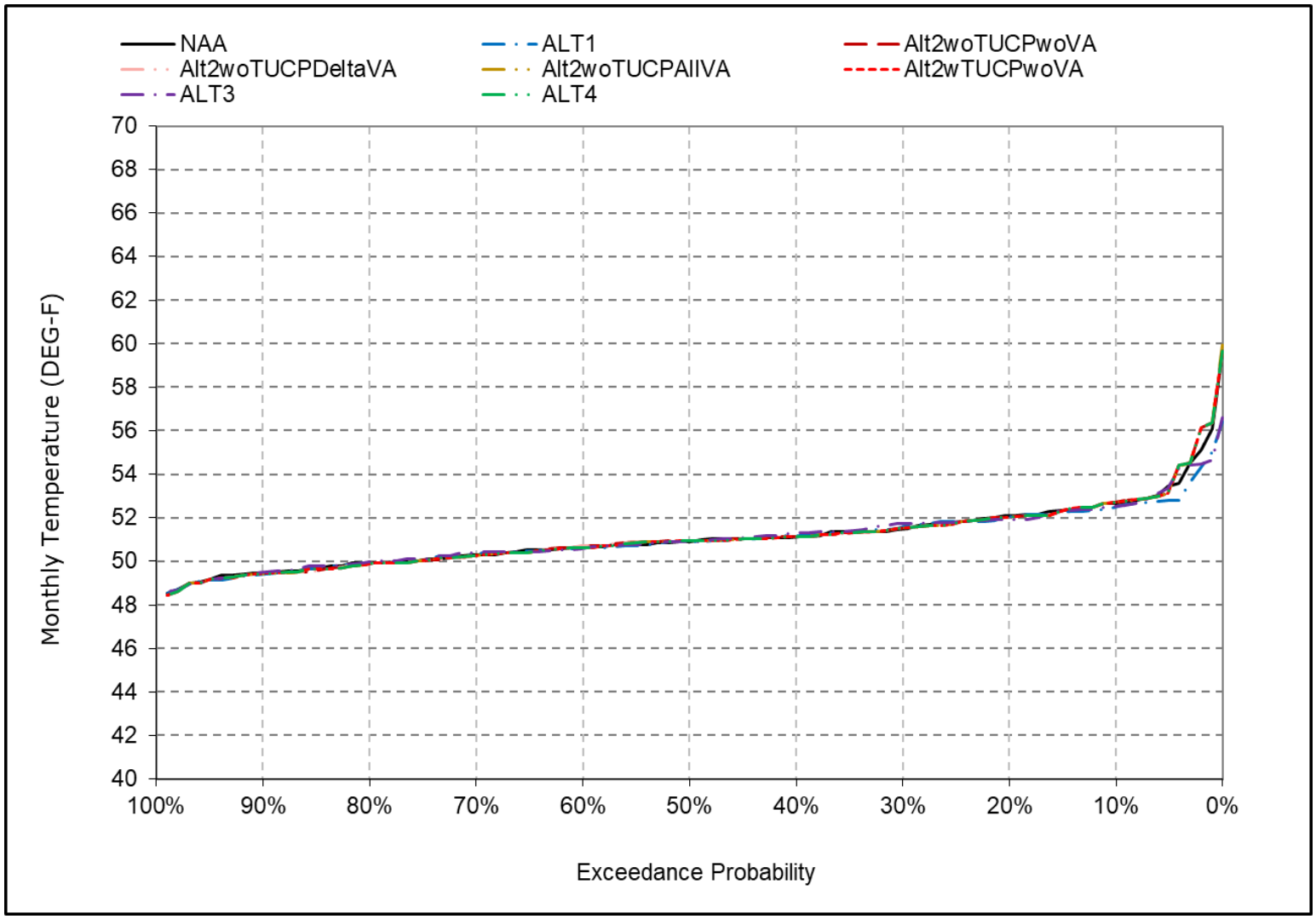
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-6. Stanislaus River below New Melones Reservoir, Critical Year Average Temperature



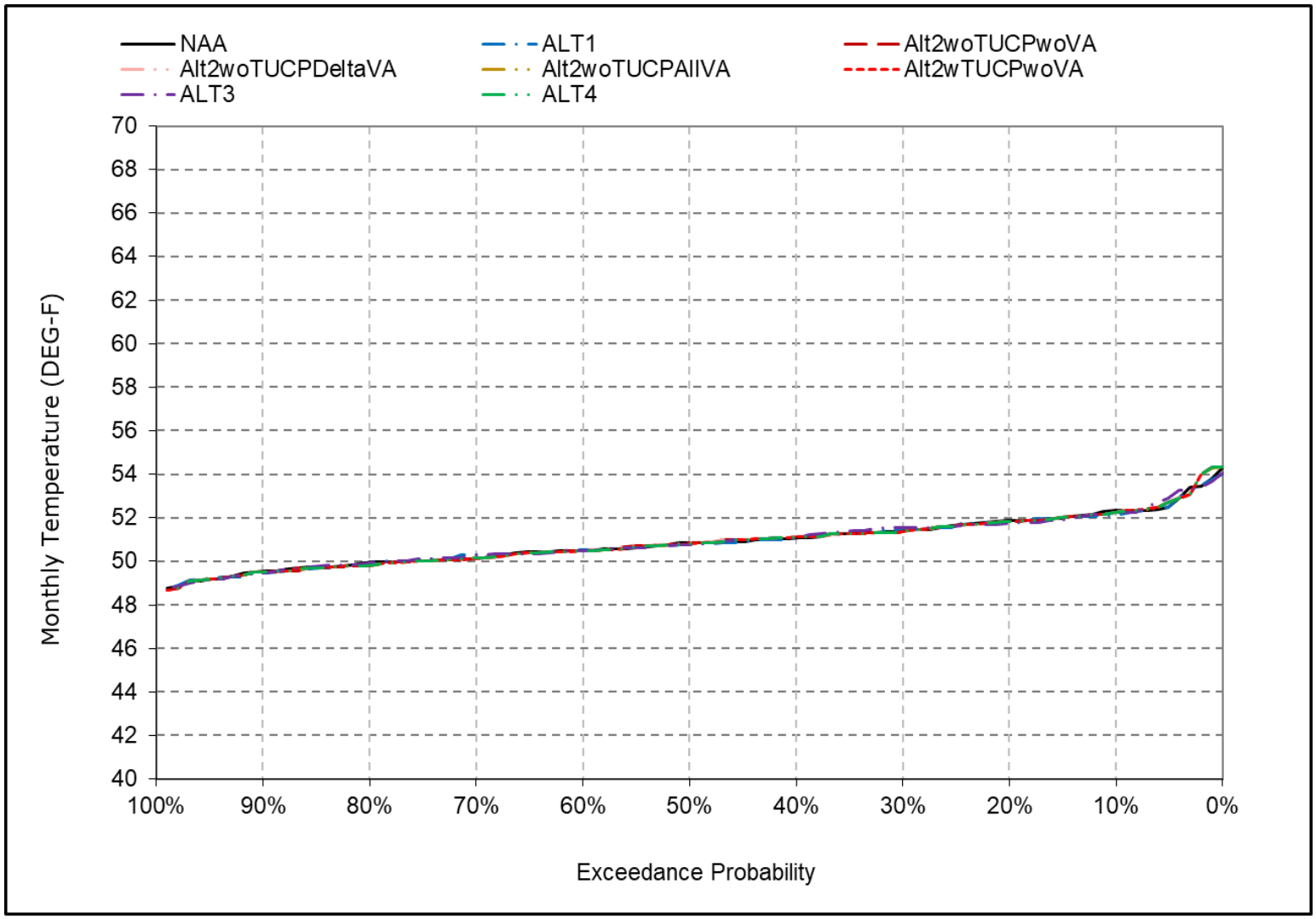
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-7. Stanislaus River below New Melones Reservoir, October



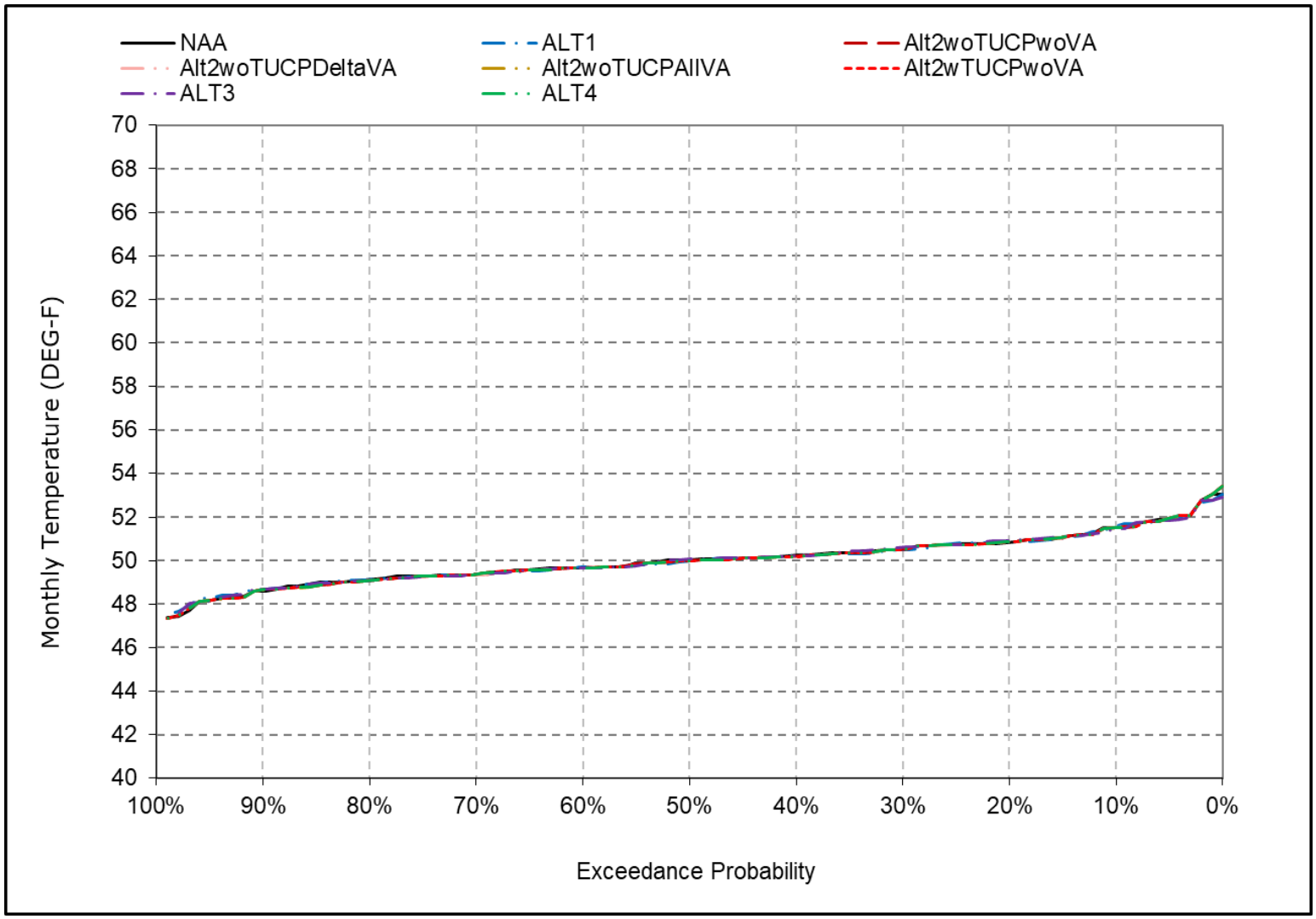
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-8. Stanislaus River below New Melones Reservoir, November



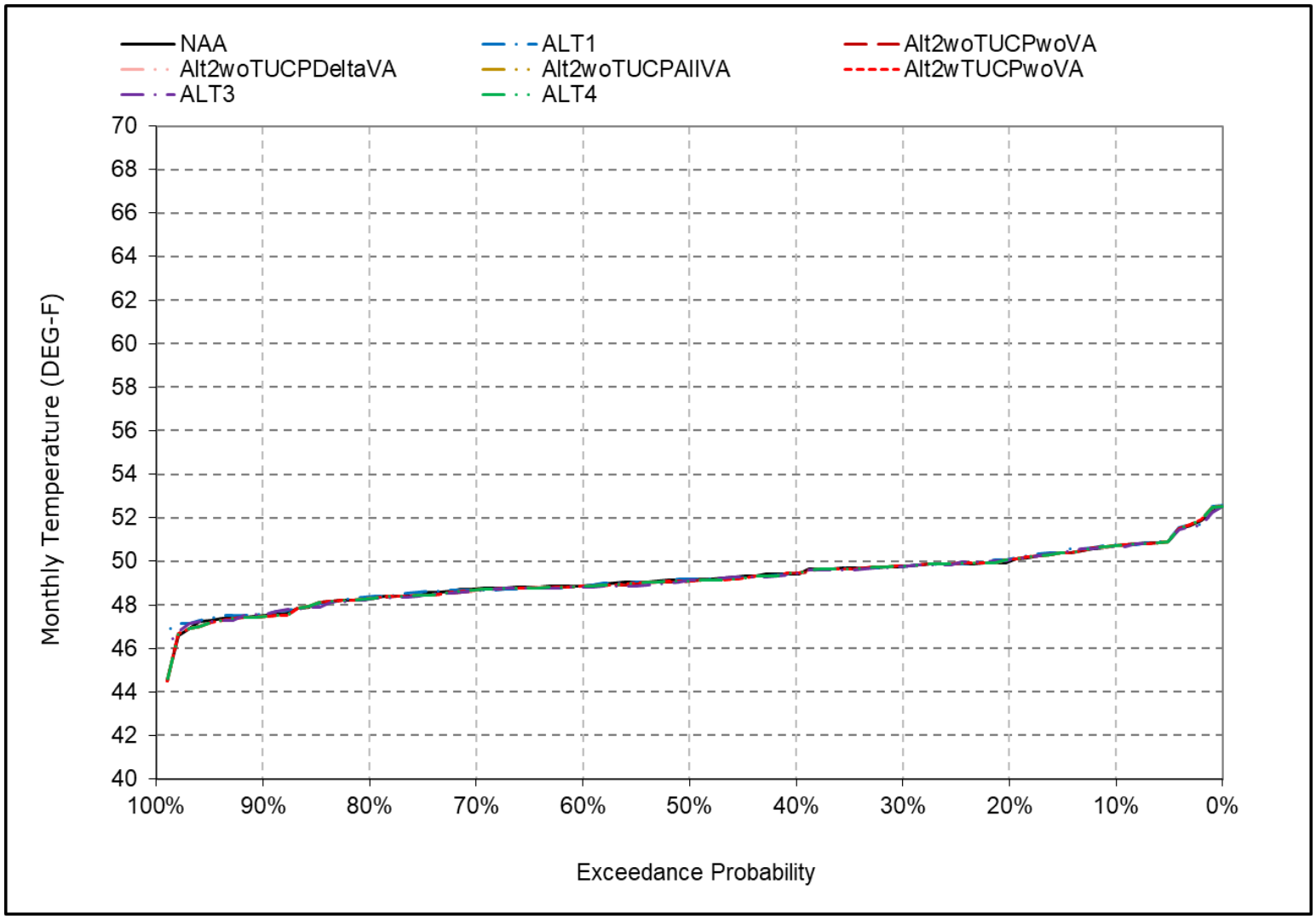
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-9. Stanislaus River below New Melones Reservoir, December



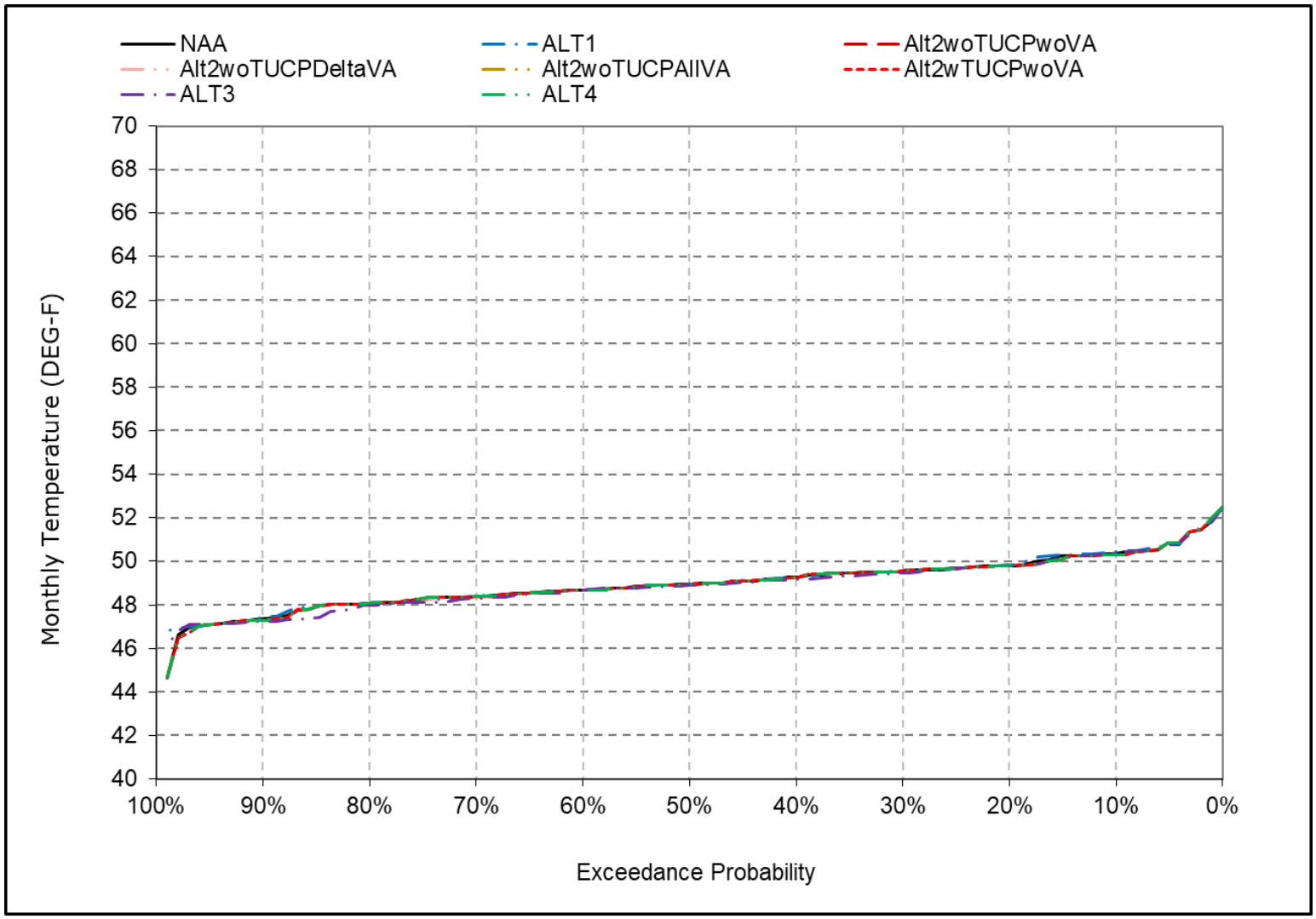
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-10. Stanislaus River below New Melones Reservoir, January



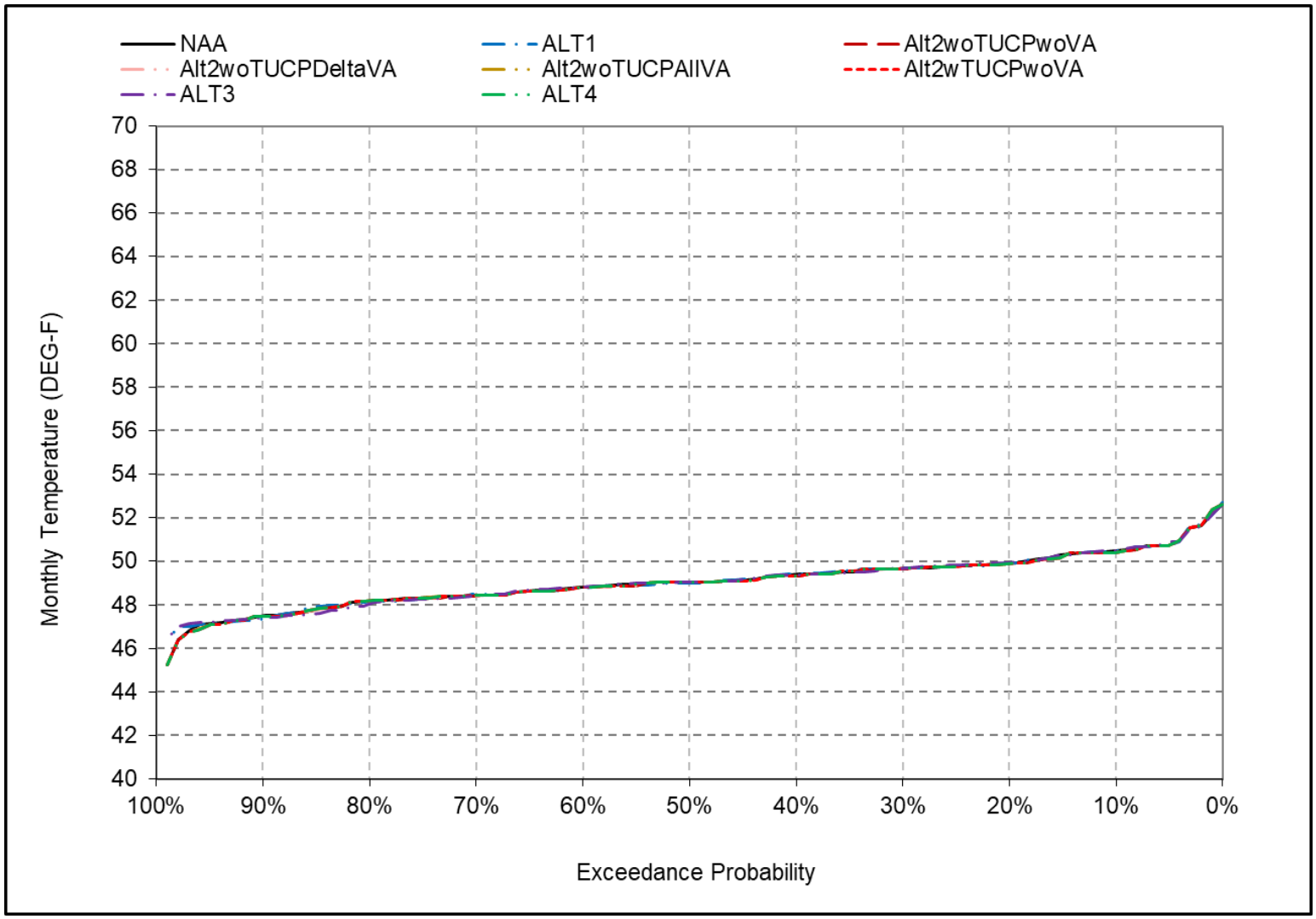
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-11. Stanislaus River below New Melones Reservoir, February



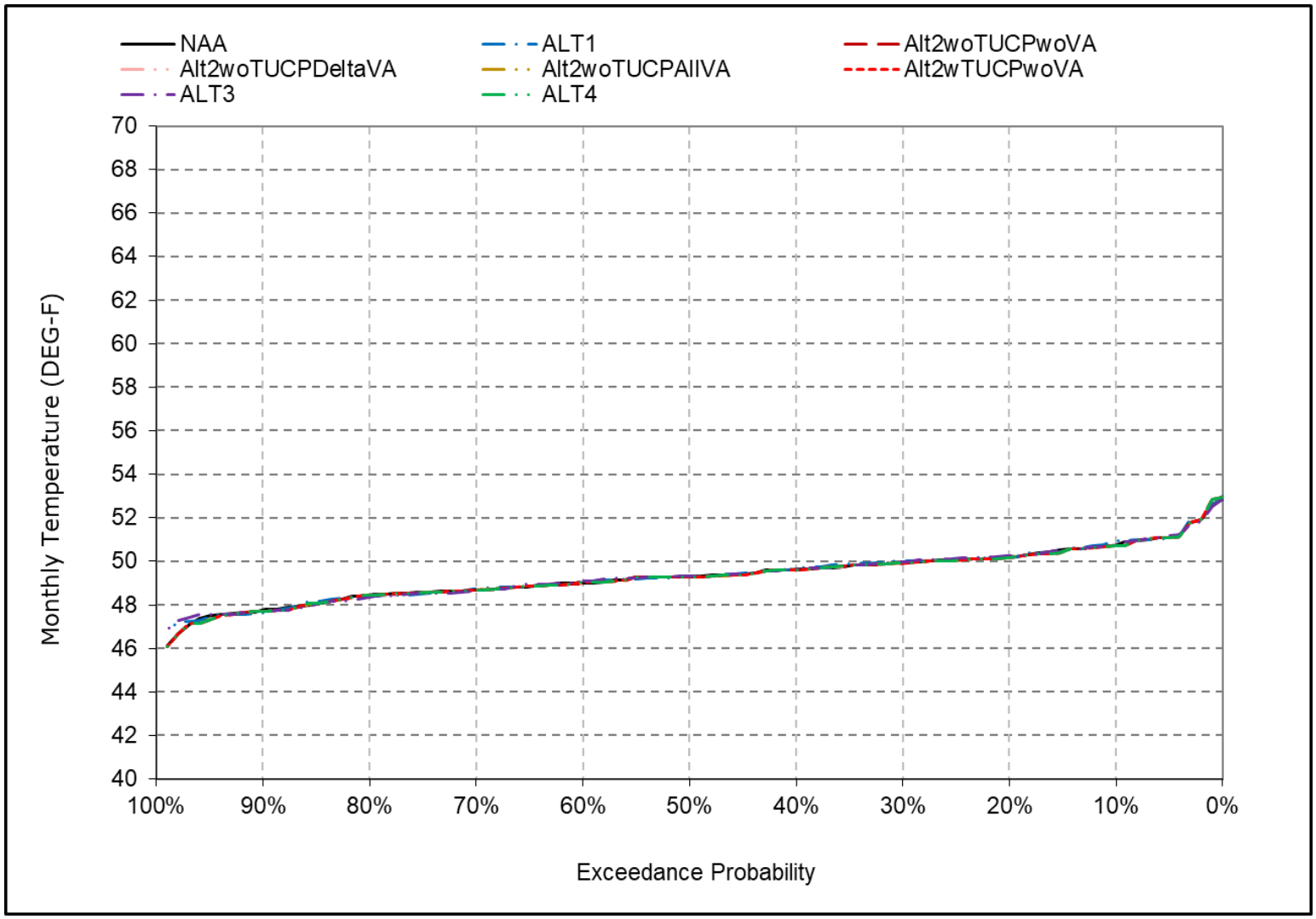
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-12. Stanislaus River below New Melones Reservoir, March



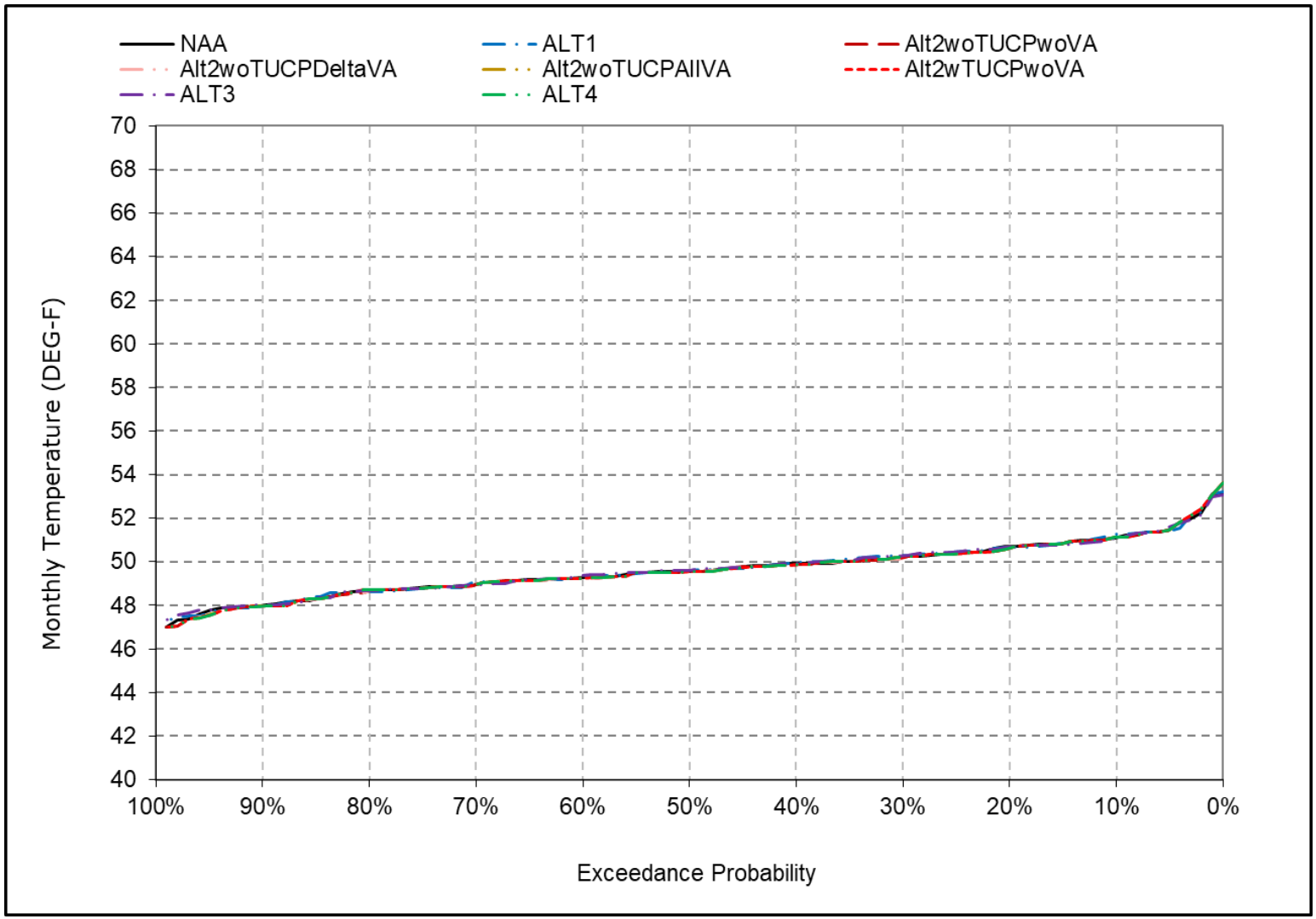
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-13. Stanislaus River below New Melones Reservoir, April



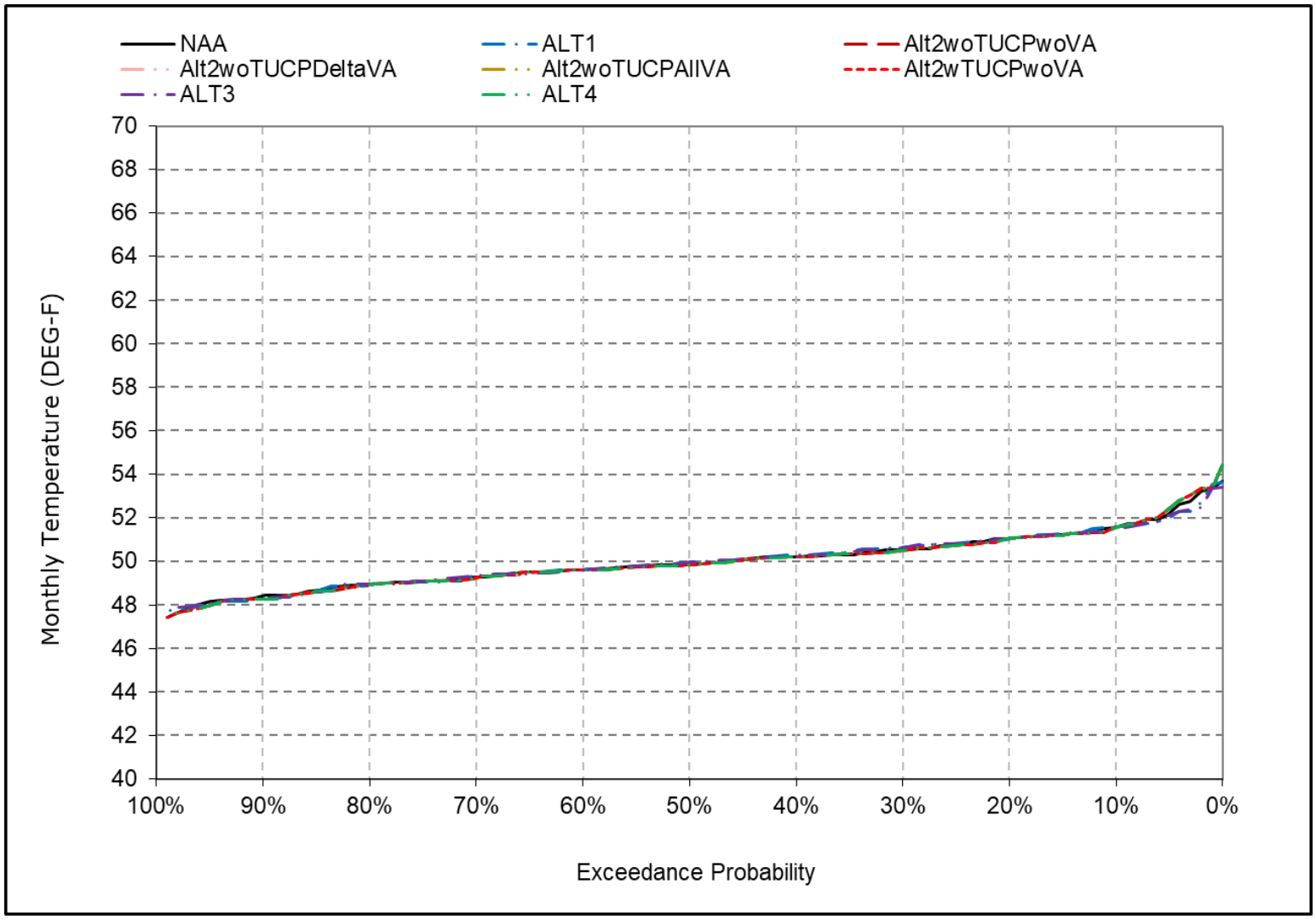
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-14. Stanislaus River below New Melones Reservoir, May



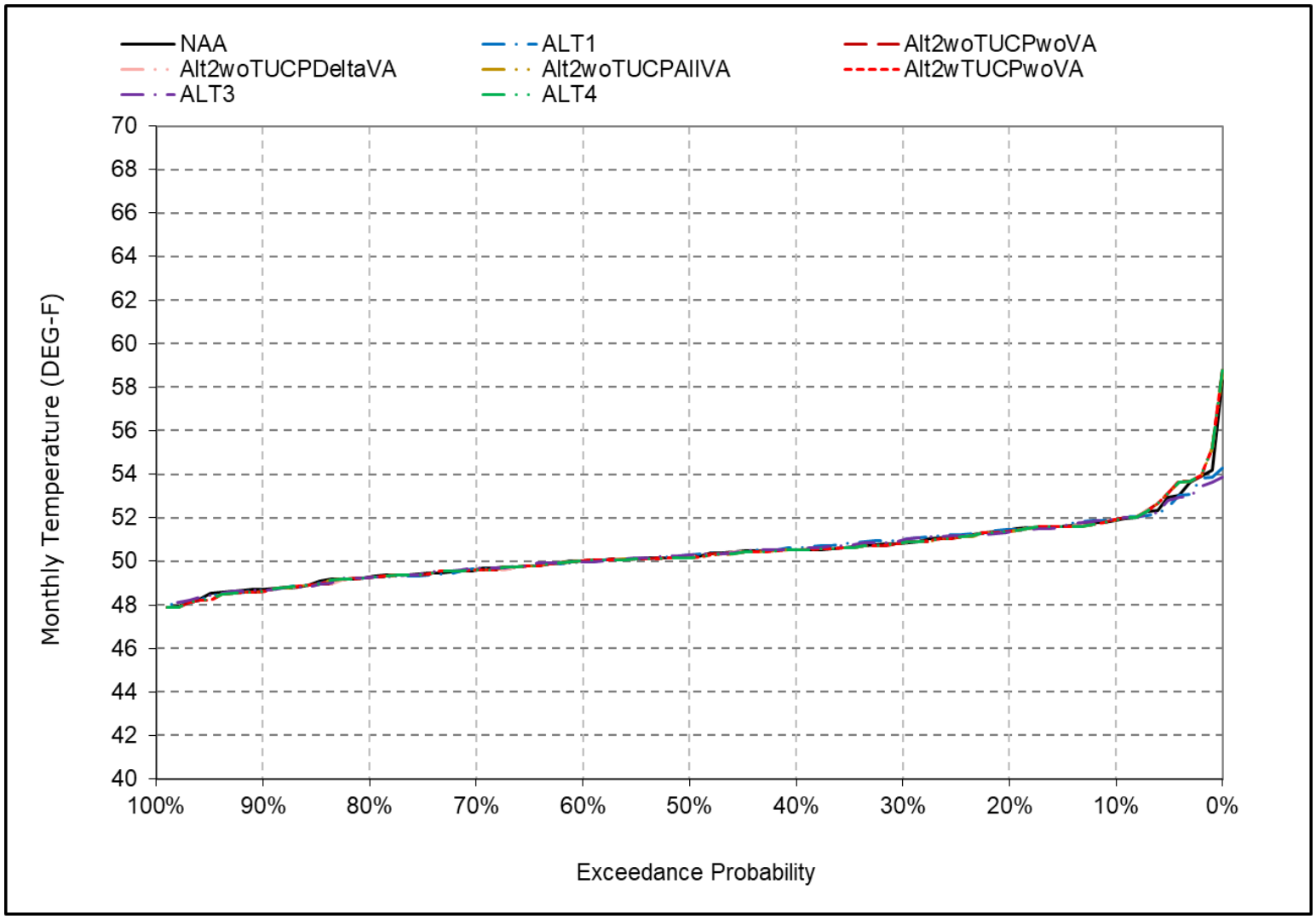
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-15. Stanislaus River below New Melones Reservoir, June



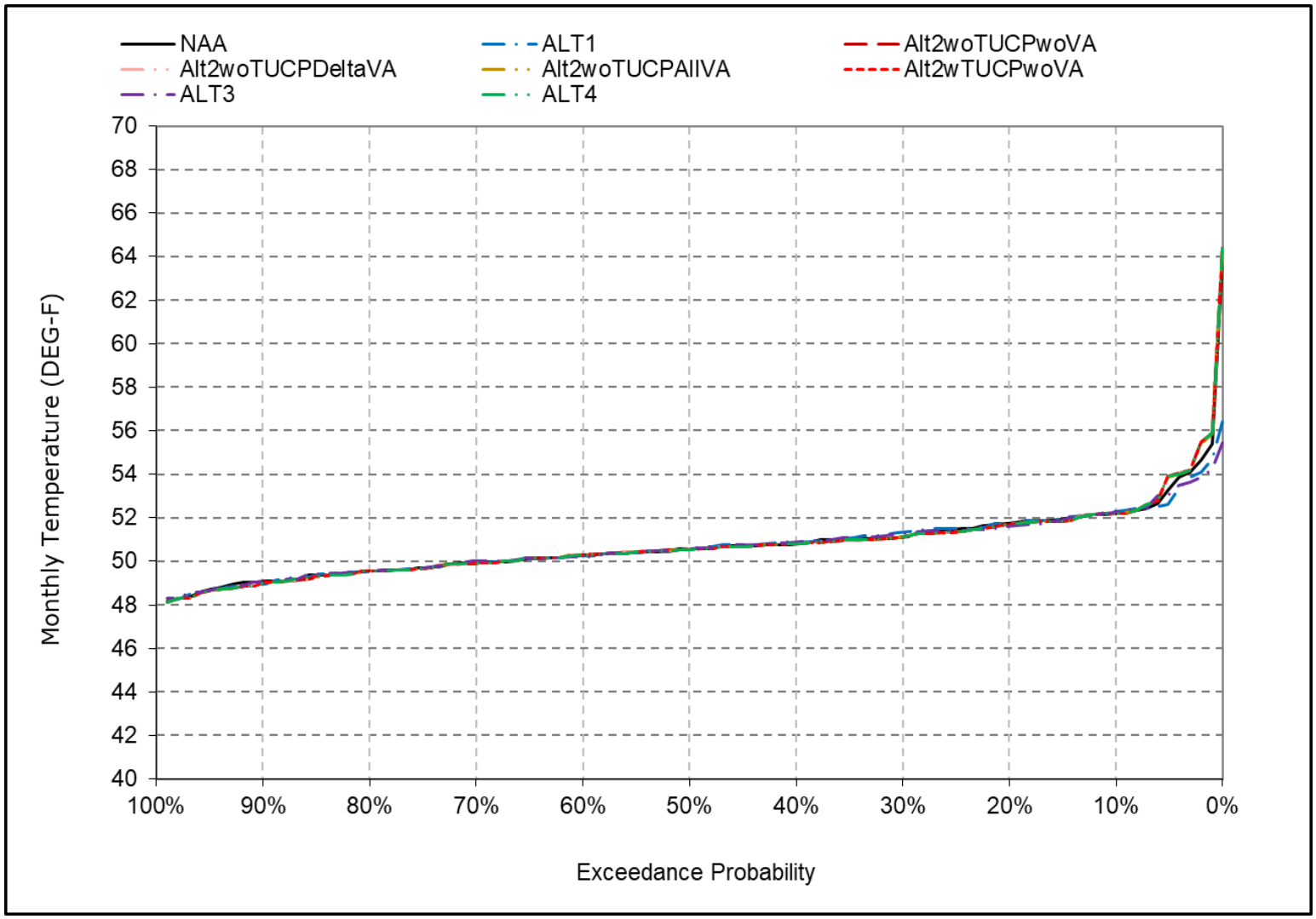
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-16. Stanislaus River below New Melones Reservoir, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-17. Stanislaus River below New Melones Reservoir, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-16-18. Stanislaus River below New Melones Reservoir, September

Table F.2.11-17-1a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-1b. Stanislaus River below Tulloch Reservoir, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	53	51	51	51	52	53	54	54	55	55
20% Exceedance	55	55	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	49	50	52	52	53	53	54	54
40% Exceedance	53.9	53.6	51.6	49.3	49.1	50.1	51.1	51.9	52.5	53.1	53.5	53.8
50% Exceedance	53.5	53.1	51.3	49.0	48.8	49.7	50.8	51.7	52.0	52.6	53.2	53.3
60% Exceedance	53.1	52.8	51.0	48.8	48.5	49.4	50.5	51.4	51.7	52.3	52.9	53.0
70% Exceedance	52.6	52.2	50.7	48.4	48.2	49.2	50.2	51.2	51.3	51.9	52.6	52.5
80% Exceedance	52.2	52.0	50.3	48.1	47.8	48.8	49.9	50.8	50.8	51.5	52.1	52.2
90% Exceedance	51.6	51.5	49.9	47.6	47.2	48.3	49.4	50.4	50.4	51.0	51.5	51.9
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	53
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	53	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	53	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	54	54	52	49	49	50	51	52	52	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-1c. Stanislaus River below Tulloch Reservoir, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.1	-0.1	-0.1	0.1	0.0	0.0	-0.1	0.1	0.1	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	-0.1	-0.1	0.1
Full Simulation Period Average[a]	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Wet Water Years (22%)	-0.1	-0.1	-0.1	0.1	0.2	0.0	0.1	0.0	0.2	-0.1	-0.1	-0.1
Above Normal Years (12%)	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.0	0.0
Below Normal Years (15%)	0.1	0.2	0.0	0.1	-0.1	0.0	0.0	0.1	0.0	-0.1	0.0	0.0
Dry Years (17%)	0.3	0.4	0.2	0.1	0.1	0.1	0.0	-0.1	-0.1	0.0	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-2a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-2b. Stanislaus River below Tulloch Reservoir, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	55	55	55
20% Exceedance	55	55	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	50	50	52	52	53	54	54	54
40% Exceedance	53.8	53.5	51.7	49.3	49.1	50.0	51.2	52.1	52.7	53.1	53.5	53.8
50% Exceedance	53.3	53.0	51.3	49.0	48.8	49.8	50.9	51.7	52.1	52.7	53.3	53.4
60% Exceedance	53.1	52.7	51.0	48.8	48.5	49.4	50.6	51.5	51.7	52.4	52.9	53.0
70% Exceedance	52.5	52.1	50.7	48.5	48.2	49.1	50.2	51.2	51.2	52.0	52.6	52.6
80% Exceedance	52.2	51.8	50.2	48.2	47.8	48.7	49.9	50.8	50.8	51.7	52.1	52.2
90% Exceedance	51.7	51.4	49.9	47.5	47.3	48.3	49.5	50.4	50.3	51.1	51.7	51.8
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	52	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	50	51	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-2c. Stanislaus River below Tulloch Reservoir, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.0	0.0	0.0
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.2	0.1	0.0	0.2	0.0	0.0	-0.1	0.1	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-3a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-3b. Stanislaus River below Tulloch Reservoir, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	55	55	55
20% Exceedance	55	55	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	50	50	52	52	53	54	54	54
40% Exceedance	53.8	53.5	51.7	49.3	49.1	50.0	51.2	52.1	52.7	53.1	53.5	53.8
50% Exceedance	53.3	53.0	51.3	49.0	48.8	49.8	50.9	51.7	52.1	52.7	53.3	53.4
60% Exceedance	53.1	52.7	51.0	48.8	48.5	49.4	50.6	51.5	51.7	52.4	52.9	53.0
70% Exceedance	52.5	52.1	50.7	48.5	48.2	49.1	50.2	51.2	51.2	52.0	52.6	52.6
80% Exceedance	52.2	51.8	50.2	48.2	47.8	48.7	49.9	50.8	50.8	51.7	52.1	52.2
90% Exceedance	51.7	51.4	49.9	47.5	47.3	48.3	49.5	50.4	50.3	51.1	51.7	51.8
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	52	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	50	51	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-3c. Stanislaus River below Tulloch Reservoir, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.0	0.0	0.0
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.2	0.1	0.0	0.2	0.0	0.0	-0.1	0.1	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-4a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-4b. Stanislaus River below Tulloch Reservoir, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	55	55	55
20% Exceedance	55	54	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	50	50	52	52	53	54	54	54
40% Exceedance	53.8	53.5	51.7	49.3	49.1	50.0	51.2	52.1	52.6	53.1	53.5	53.8
50% Exceedance	53.3	53.0	51.3	49.0	48.8	49.8	50.9	51.7	52.1	52.8	53.3	53.3
60% Exceedance	53.1	52.7	51.0	48.8	48.5	49.4	50.6	51.5	51.7	52.4	52.9	53.0
70% Exceedance	52.5	52.1	50.7	48.5	48.2	49.1	50.2	51.2	51.3	52.0	52.6	52.6
80% Exceedance	52.1	51.8	50.2	48.2	47.8	48.7	49.9	50.8	50.9	51.6	52.1	52.2
90% Exceedance	51.6	51.4	49.9	47.5	47.3	48.3	49.4	50.4	50.3	51.1	51.7	51.8
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	52	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	50	51	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-4c. Stanislaus River below Tulloch Reservoir, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.2
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.1	0.2	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.0	0.0	0.0
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.0	0.2	0.0	0.0	-0.1	0.1	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Dry Years (17%)	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-5a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-5b. Stanislaus River below Tulloch Reservoir, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	55	55	55
20% Exceedance	55	55	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	50	50	52	52	53	54	54	54
40% Exceedance	53.8	53.5	51.7	49.3	49.1	50.0	51.2	52.1	52.7	53.2	53.5	53.8
50% Exceedance	53.3	53.0	51.3	49.0	48.8	49.8	50.9	51.7	52.1	52.8	53.3	53.3
60% Exceedance	53.1	52.7	51.0	48.8	48.5	49.4	50.6	51.5	51.7	52.4	52.9	53.0
70% Exceedance	52.5	52.1	50.7	48.5	48.2	49.1	50.2	51.2	51.3	52.0	52.6	52.6
80% Exceedance	52.2	51.8	50.2	48.2	47.8	48.7	49.9	50.8	50.9	51.7	52.1	52.2
90% Exceedance	51.7	51.4	49.9	47.5	47.3	48.3	49.5	50.4	50.3	51.1	51.7	51.8
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	52	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	50	51	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-5c. Stanislaus River below Tulloch Reservoir, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.1	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.0	0.0
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.2	0.1	0.0	0.2	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-6a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-6b. Stanislaus River below Tulloch Reservoir, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	54	55	55
20% Exceedance	55	54	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	49	50	52	52	53	54	54	54
40% Exceedance	53.7	53.3	51.6	49.2	49.1	50.0	51.1	52.0	52.6	53.1	53.5	53.8
50% Exceedance	53.4	53.0	51.3	49.0	48.9	49.7	50.8	51.8	52.0	52.7	53.2	53.4
60% Exceedance	53.1	52.6	51.0	48.7	48.6	49.4	50.6	51.4	51.7	52.4	52.9	53.1
70% Exceedance	52.6	52.3	50.7	48.4	48.2	49.1	50.1	51.0	51.2	52.0	52.6	52.8
80% Exceedance	52.2	52.0	50.4	48.1	47.8	48.8	49.8	50.7	50.9	51.6	52.1	52.3
90% Exceedance	51.8	51.4	49.9	47.7	47.3	48.3	49.3	50.2	50.4	51.0	51.6	51.9
Full Simulation Period Average[a]	53	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	49	50	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	54	54
Critical (34%)	55	54	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-6c. Stanislaus River below Tulloch Reservoir, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.0	0.3	0.0	-0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.2	-0.1	-0.1	-0.1	0.1	0.0	0.1	0.0	0.2	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.1	0.0	0.1	0.1	0.0	-0.1	-0.2	0.2	-0.1	-0.1	0.1
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Wet Water Years (22%)	0.1	0.0	0.1	0.0	0.4	0.1	0.1	0.0	0.3	0.0	-0.1	0.2
Above Normal Years (12%)	0.0	0.0	0.0	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.1
Below Normal Years (15%)	0.0	0.1	0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.1	0.0	0.1	0.1	0.0	-0.1	0.0	0.2	0.2	0.2
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-7a. Stanislaus River below Tulloch Reservoir, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.1	55.0	53.2	50.8	50.9	51.3	52.4	53.1	53.6	54.4	55.0	55.1
20% Exceedance	54.7	54.3	52.6	50.2	49.8	50.8	51.9	52.5	53.2	53.9	54.3	54.6
30% Exceedance	54.0	53.7	52.3	49.8	49.6	50.3	51.6	52.3	52.8	53.4	53.8	54.1
40% Exceedance	53.7	53.2	51.7	49.3	49.0	50.1	51.2	52.0	52.5	53.1	53.5	53.7
50% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
60% Exceedance	53	53	51	49	48	49	51	51	52	52	53	53
70% Exceedance	52	52	51	48	48	49	50	51	51	52	53	53
80% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
90% Exceedance	52	51	50	48	47	48	49	50	50	51	52	52
Full Simulation Period Average[a]	53	53	51	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	51	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	52	53
Below Normal Years (15%)	53	52	51	49	49	49	51	51	52	52	53	53
Dry Years (17%)	53.6	53.2	51.6	49.3	49.0	50.0	51.3	52.0	52.5	53.0	53.3	53.6
Critical (34%)	55	55	52	50	50	51	52	53	53	54	54	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-7b. Stanislaus River below Tulloch Reservoir, Alternative 4, Monthly Temperature (°F)

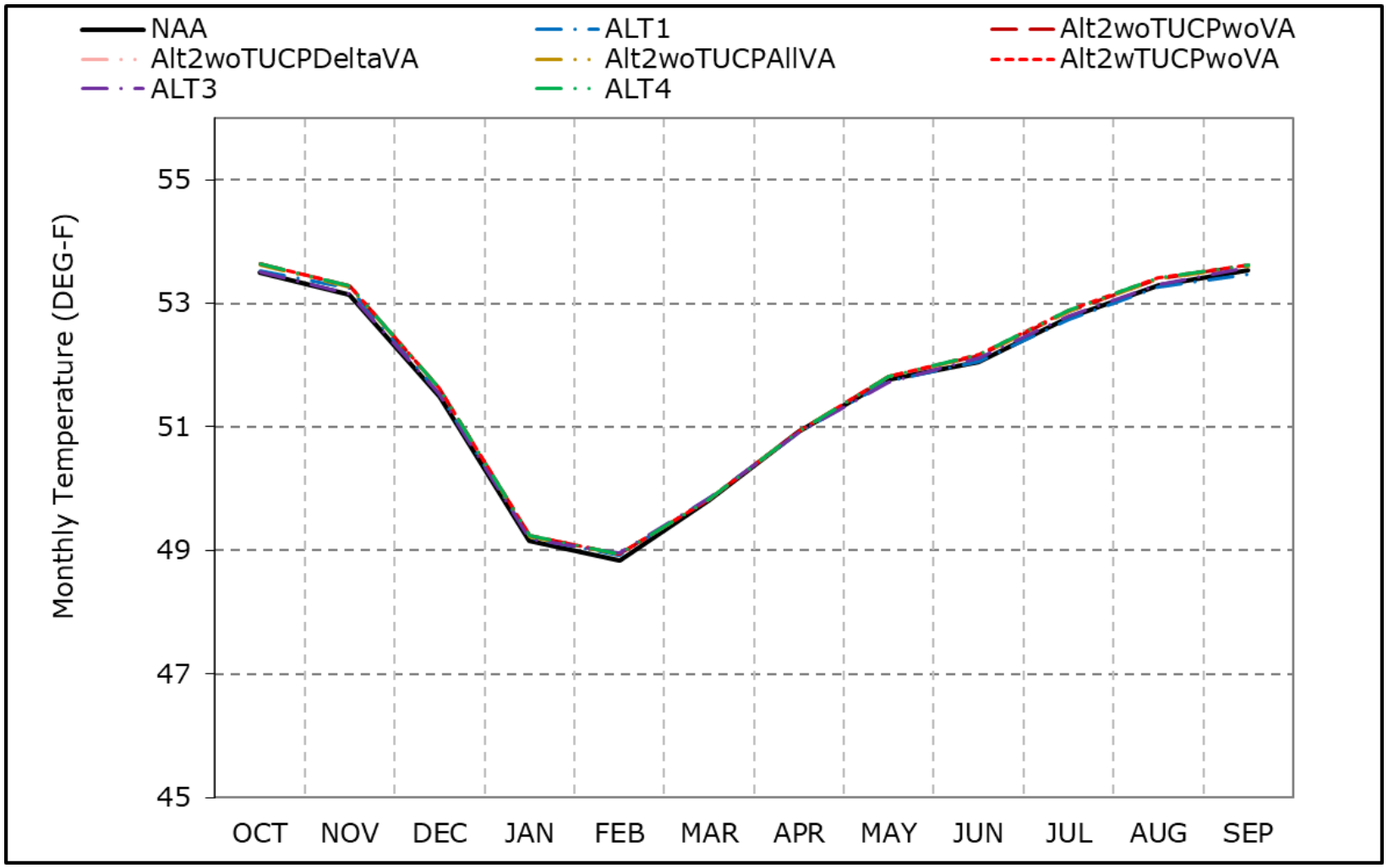
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55	55	54	51	51	51	52	53	54	55	55	55
20% Exceedance	55	55	53	50	50	51	52	53	53	54	54	55
30% Exceedance	54	54	52	50	50	50	52	52	53	54	54	54
40% Exceedance	53.8	53.5	51.7	49.3	49.1	50.0	51.2	52.1	52.7	53.2	53.5	53.8
50% Exceedance	53.3	53.0	51.3	49.0	48.8	49.8	50.9	51.7	52.1	52.8	53.3	53.3
60% Exceedance	53.1	52.7	51.0	48.8	48.5	49.4	50.6	51.5	51.7	52.4	52.9	53.0
70% Exceedance	52.5	52.1	50.7	48.5	48.2	49.1	50.2	51.2	51.3	52.0	52.6	52.6
80% Exceedance	52.2	51.8	50.2	48.2	47.8	48.7	49.9	50.8	50.9	51.7	52.1	52.2
90% Exceedance	51.7	51.4	49.9	47.5	47.3	48.3	49.5	50.4	50.3	51.1	51.7	51.8
Full Simulation Period Average[a]	54	53	52	49	49	50	51	52	52	53	53	54
Wet Water Years (22%)	52	52	51	49	48	49	50	51	51	52	52	52
Above Normal Years (12%)	53	52	51	49	48	49	50	51	51	52	53	53
Below Normal Years (15%)	53	52	51	49	49	50	51	51	52	52	53	53
Dry Years (17%)	54	53	52	49	49	50	51	52	53	53	53	54
Critical (34%)	55	55	53	50	50	51	52	53	53	54	55	55

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-17-7c. Stanislaus River below Tulloch Reservoir, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

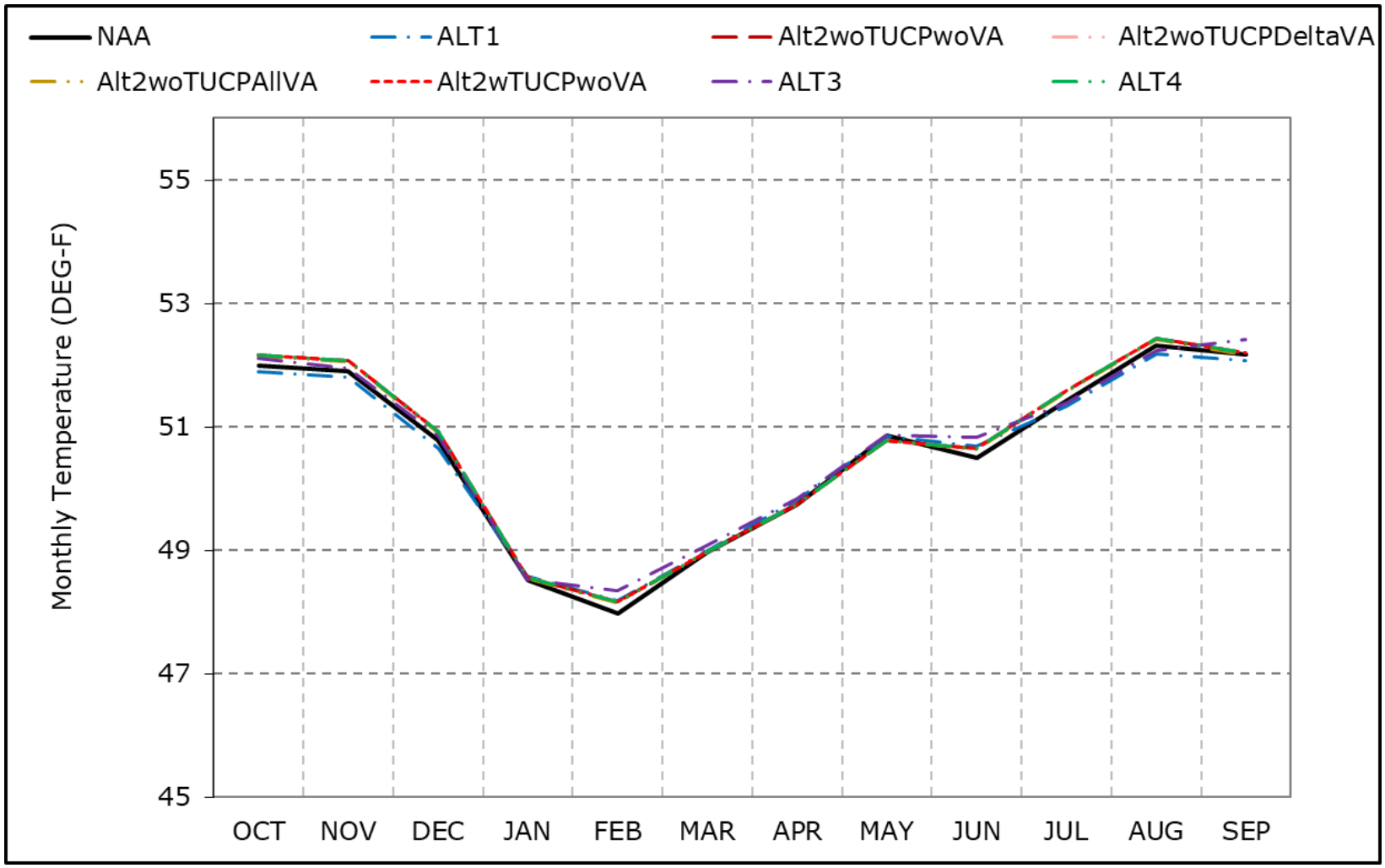
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.3	0.1	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.0	0.0
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.2	0.1	0.0	0.2	0.0	0.0	-0.1	0.1	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



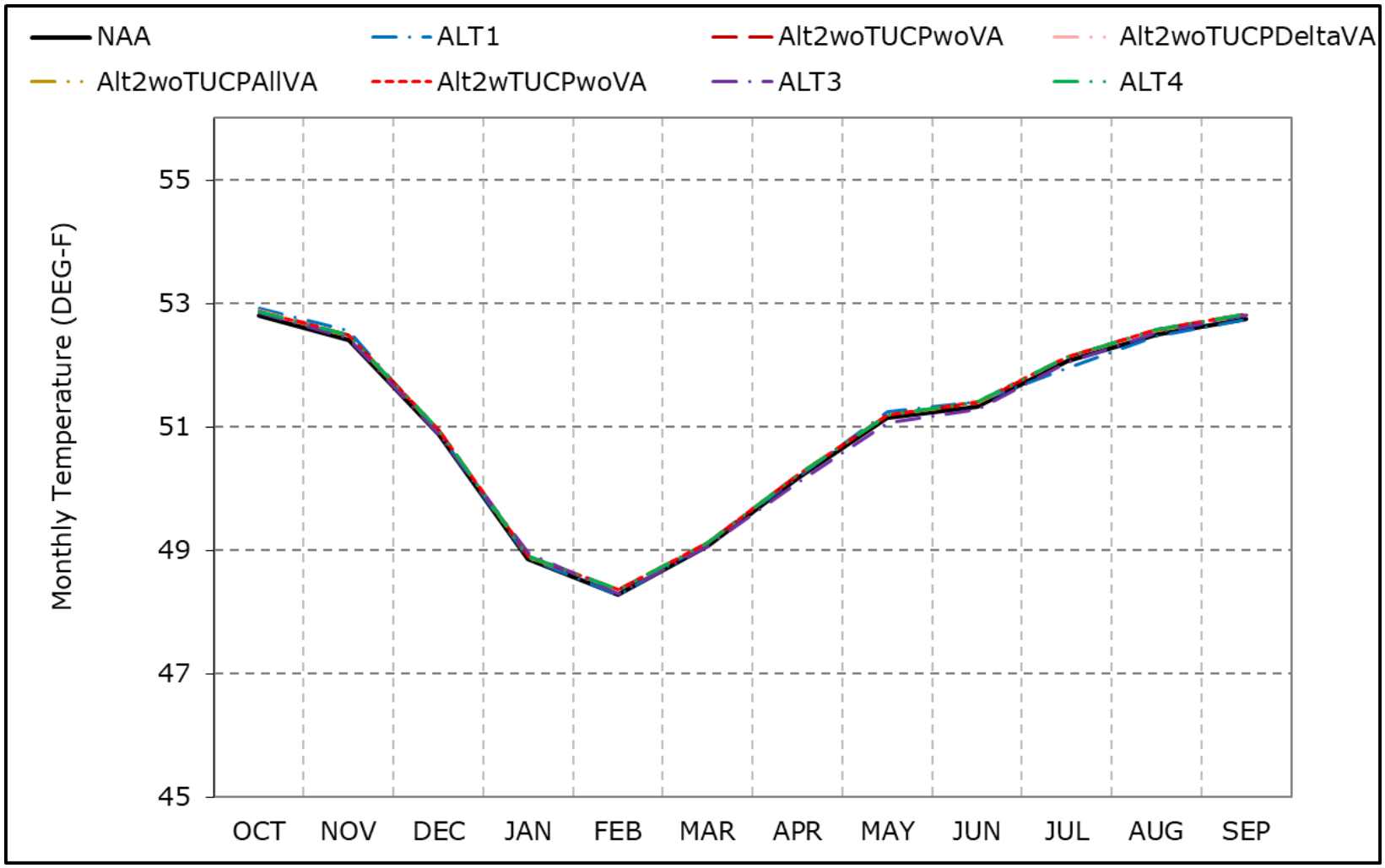
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-1. Stanislaus River below Tulloch Reservoir, Long-Term Average Temperature



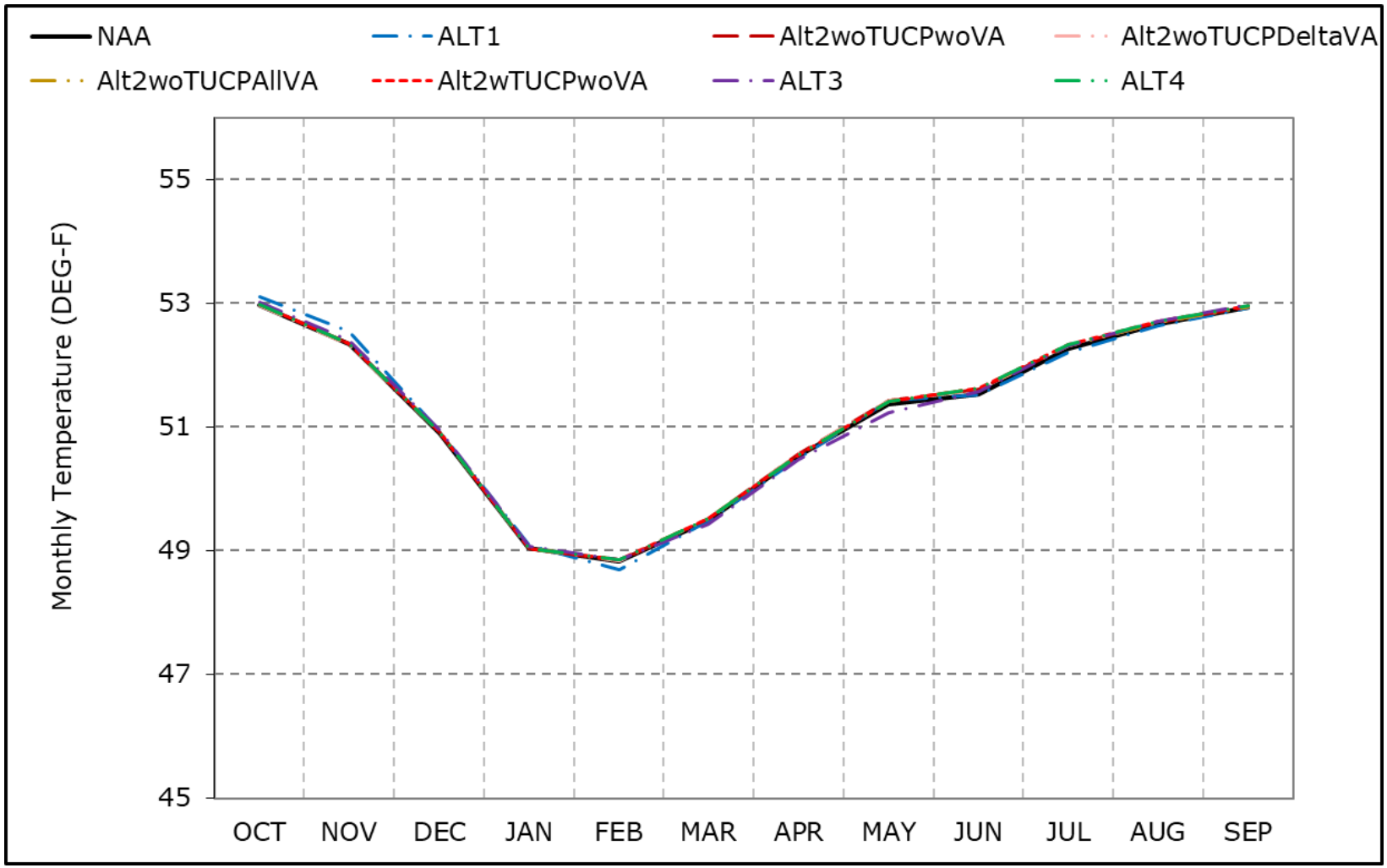
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-2. Stanislaus River below Tulloch Reservoir, Wet Year Average Temperature



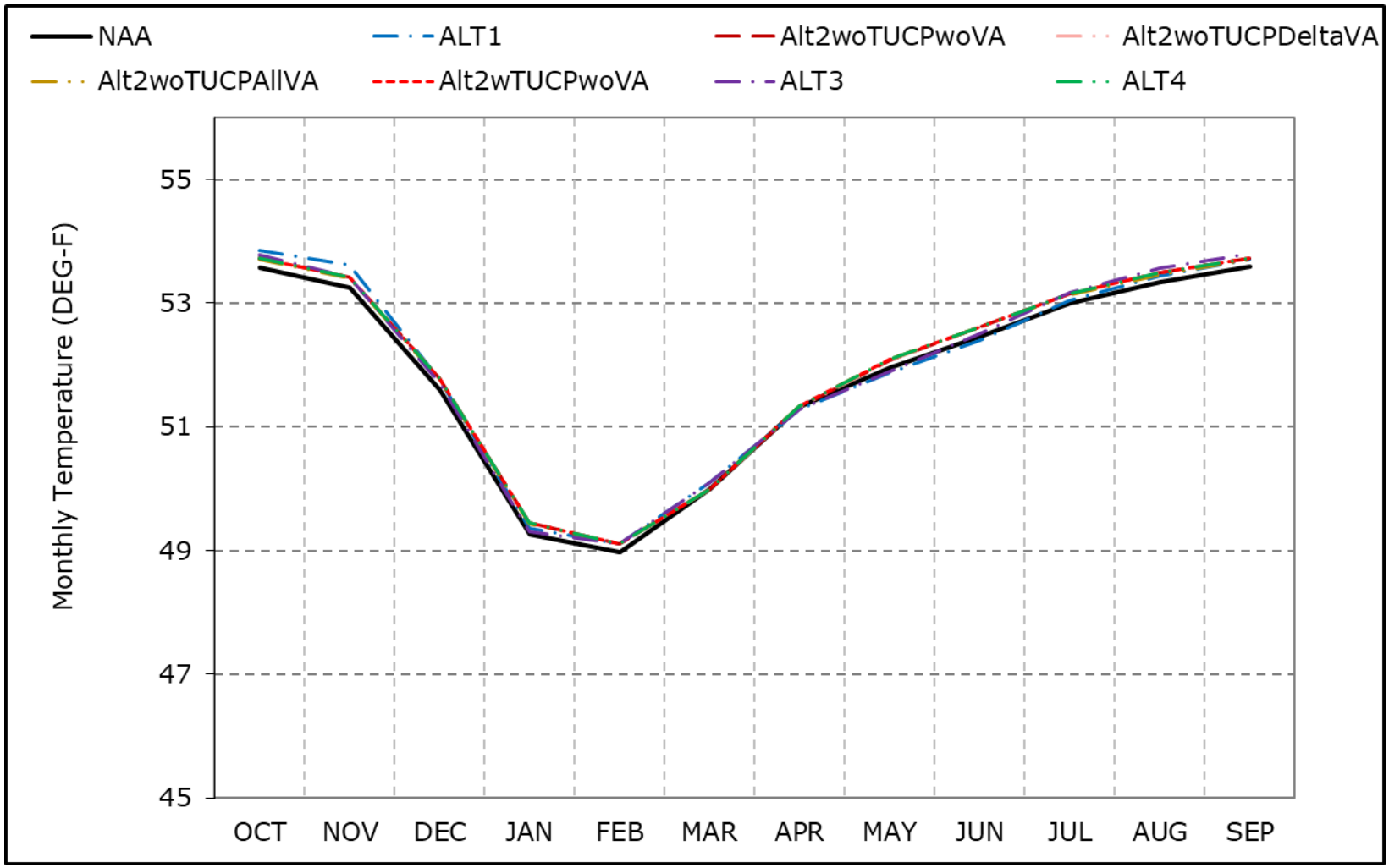
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-3. Stanislaus River below Tulloch Reservoir, Above Normal Year Average Temperature



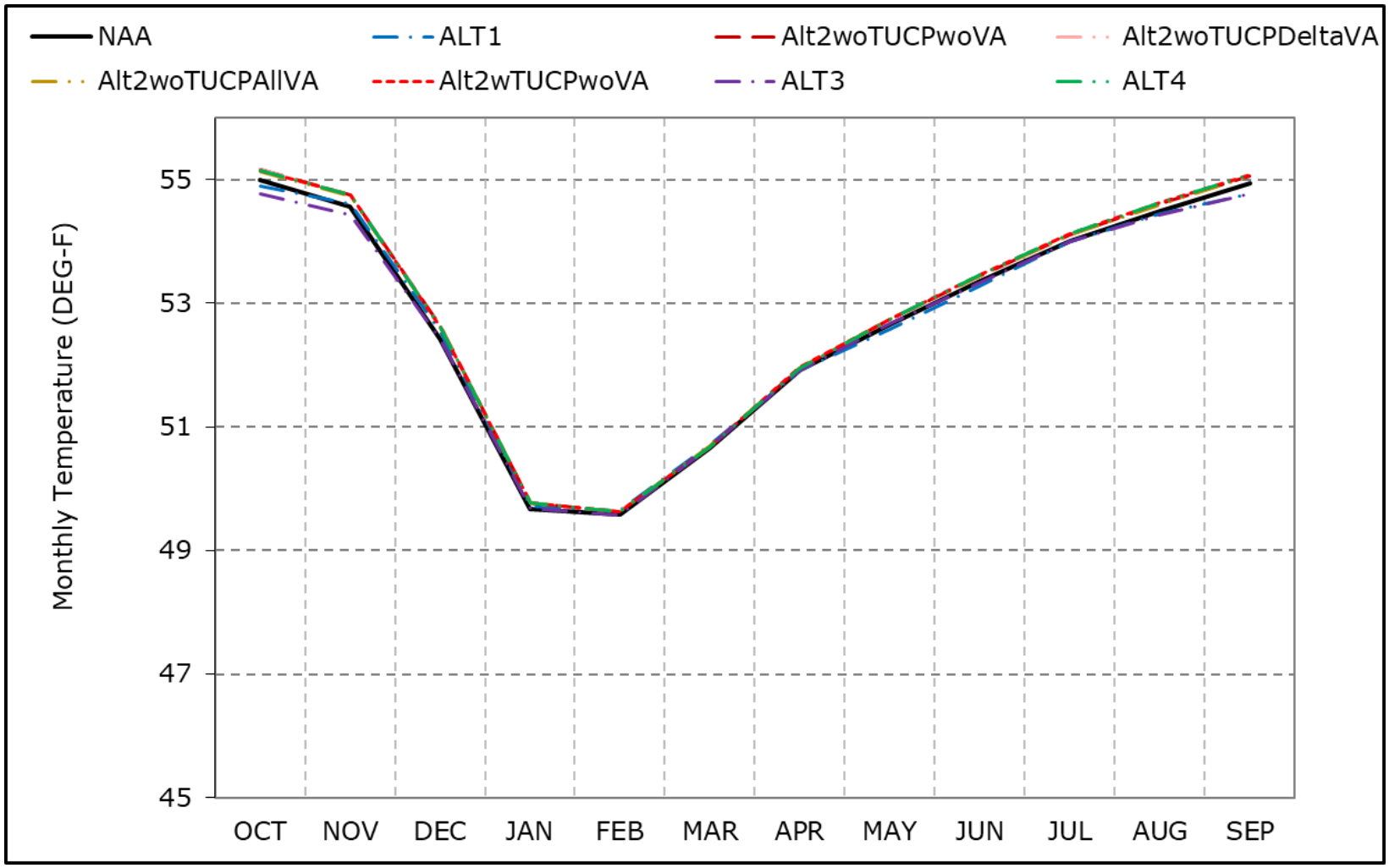
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-4. Stanislaus River below Tulloch Reservoir, Below Normal Year Average Temperature



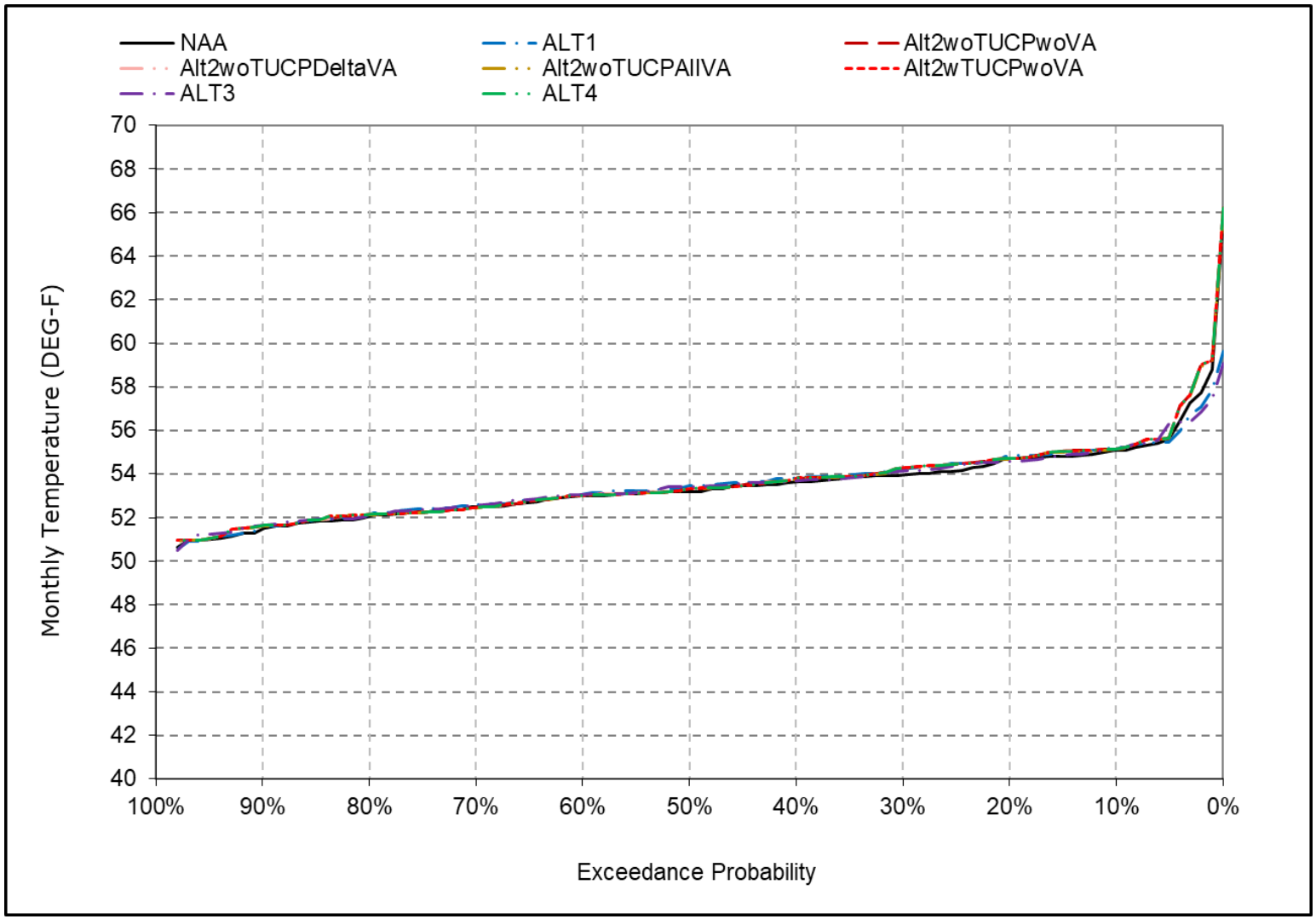
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-5. Stanislaus River below Tulloch Reservoir, Dry Year Average Temperature



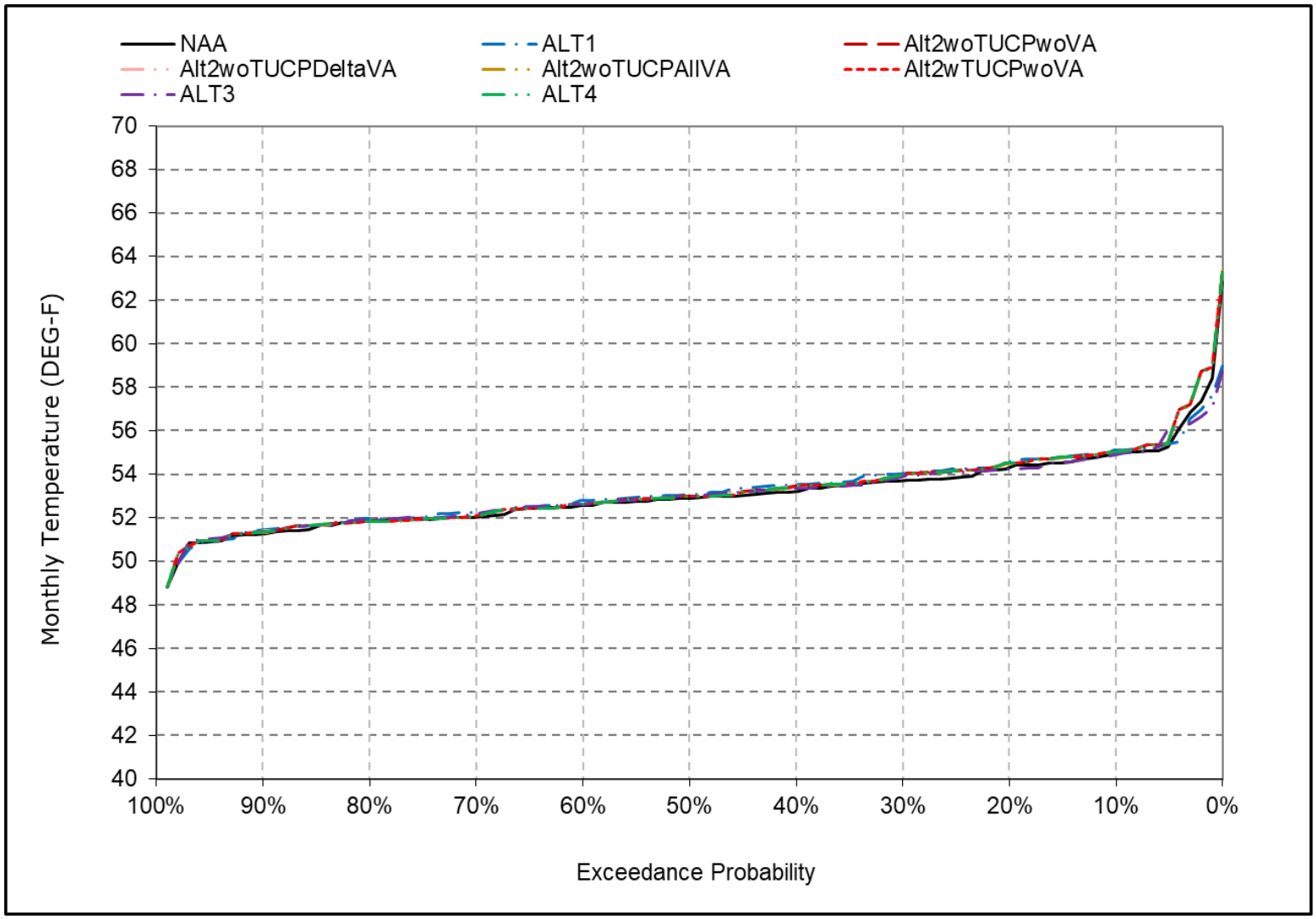
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-6. Stanislaus River below Tulloch Reservoir, Critical Year Average Temperature



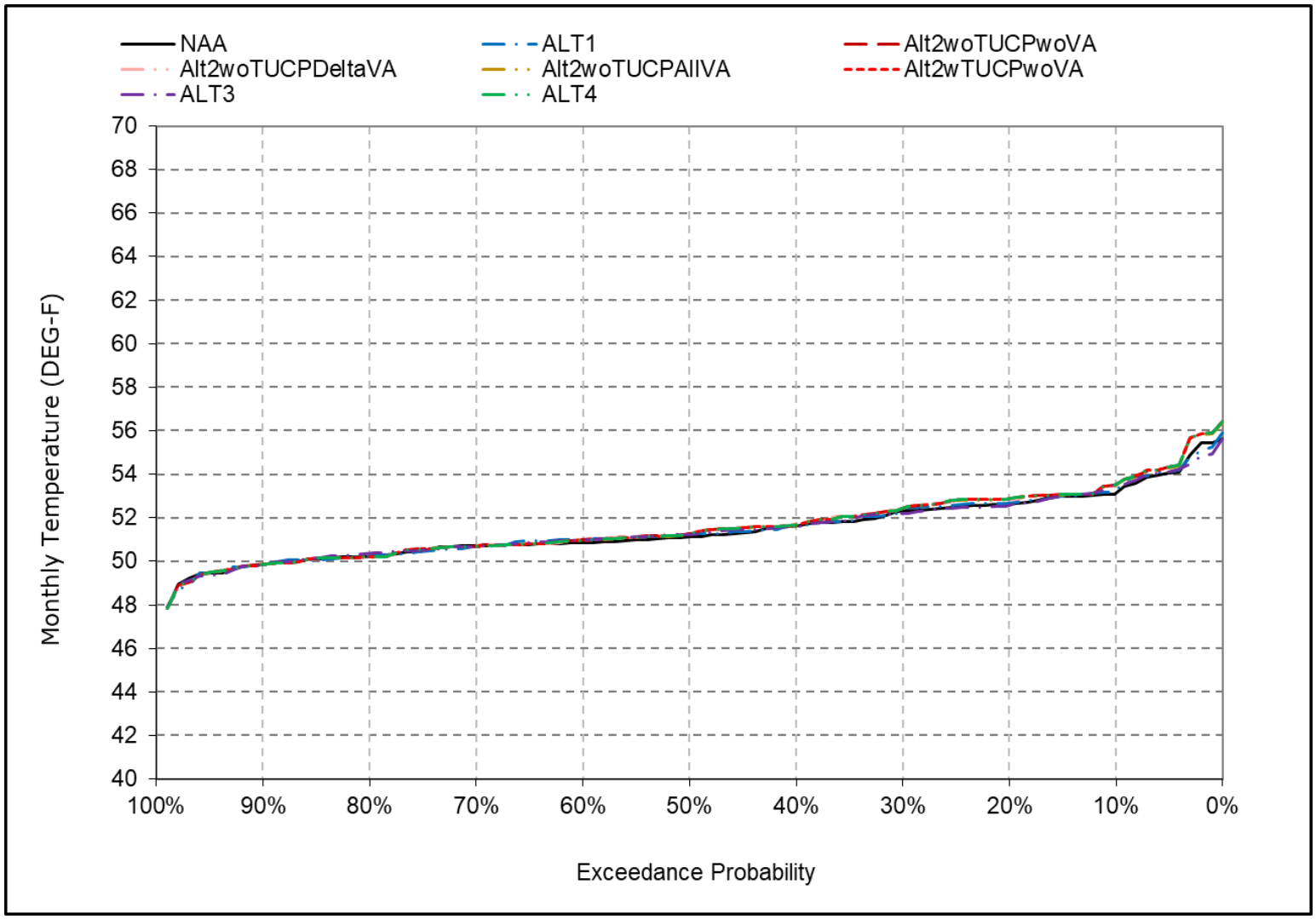
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-7. Stanislaus River below Tulloch Reservoir, October



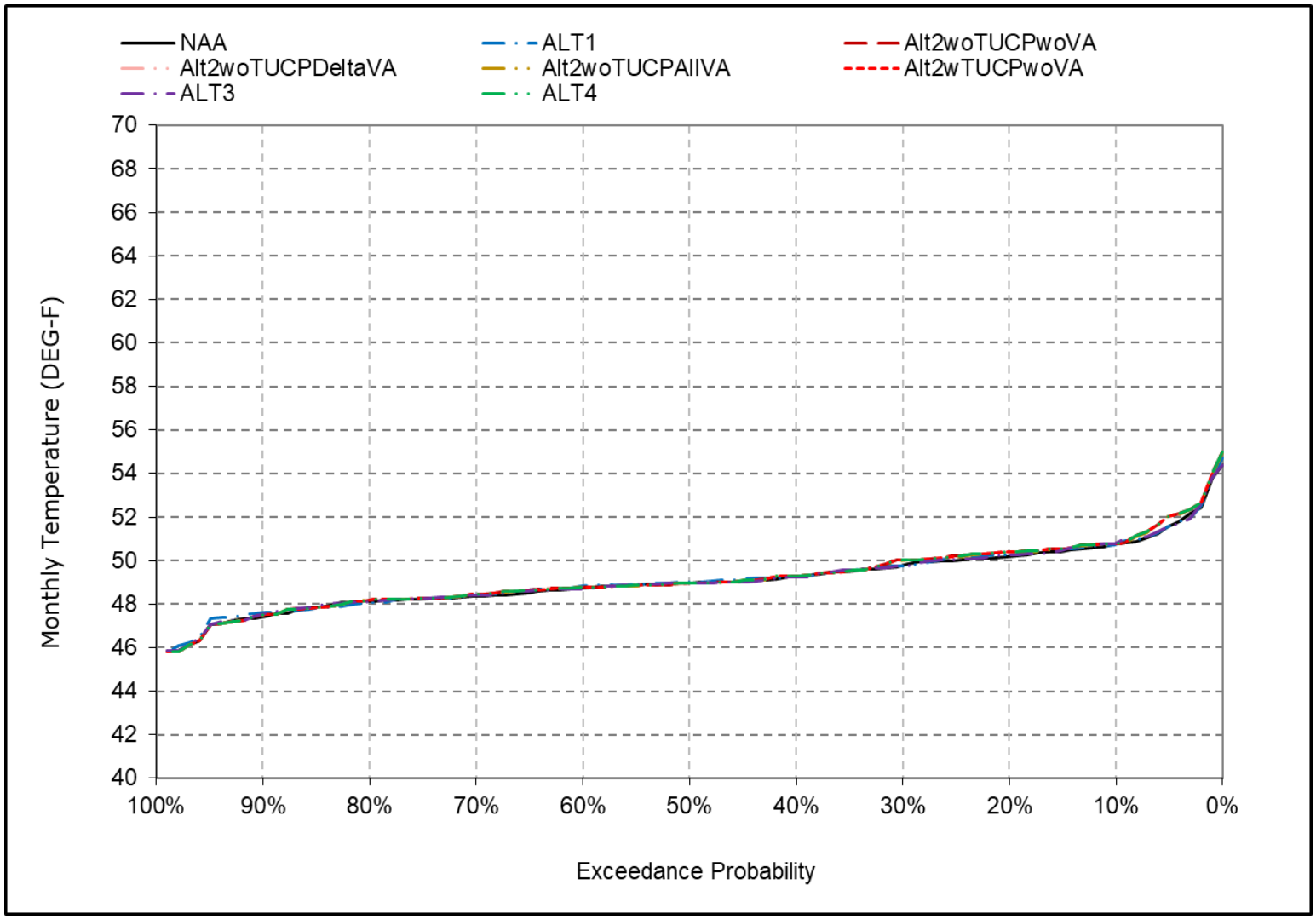
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-8. Stanislaus River below Tulloch Reservoir, November



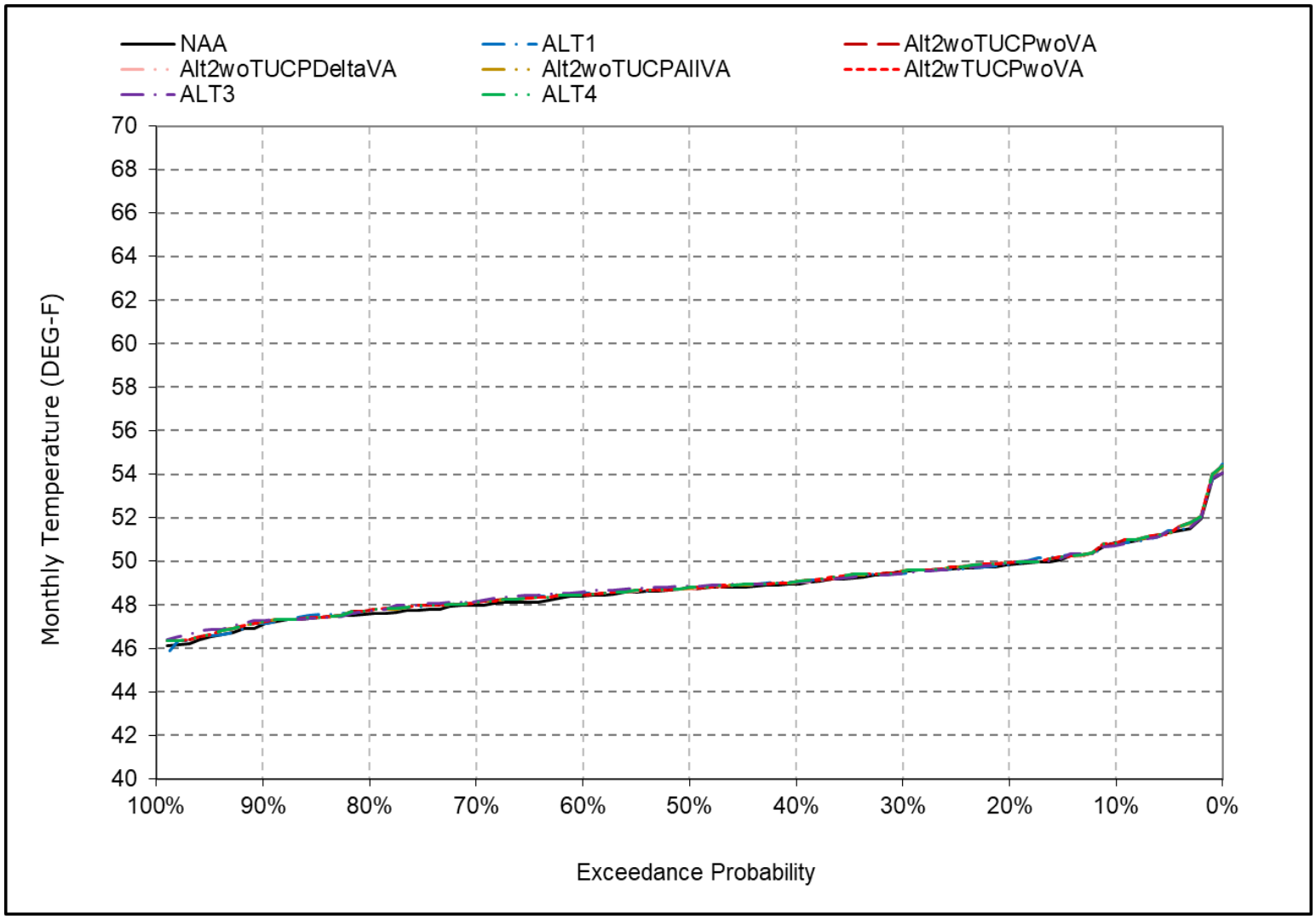
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-9. Stanislaus River below Tulloch Reservoir, December



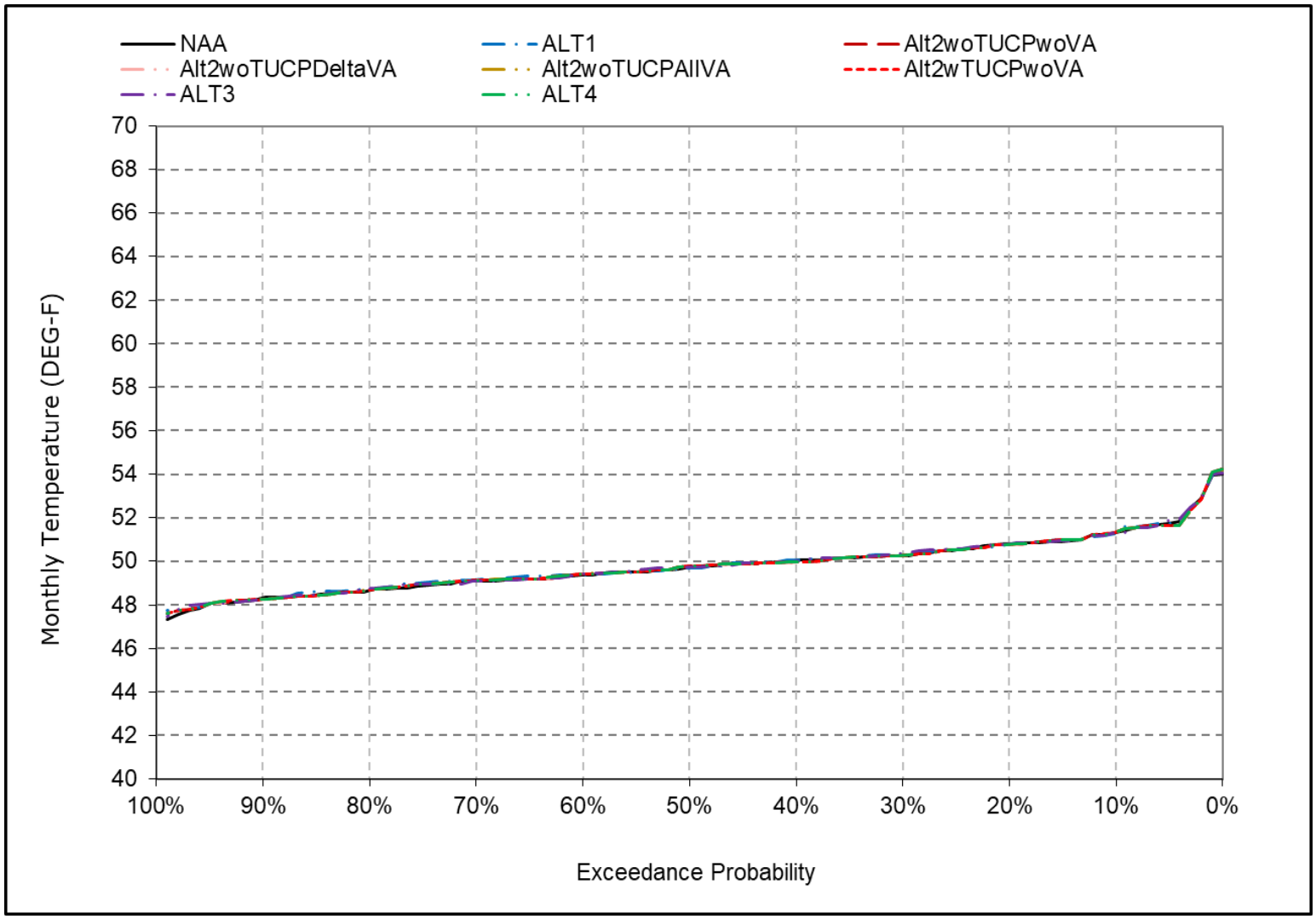
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-10. Stanislaus River below Tulloch Reservoir, January



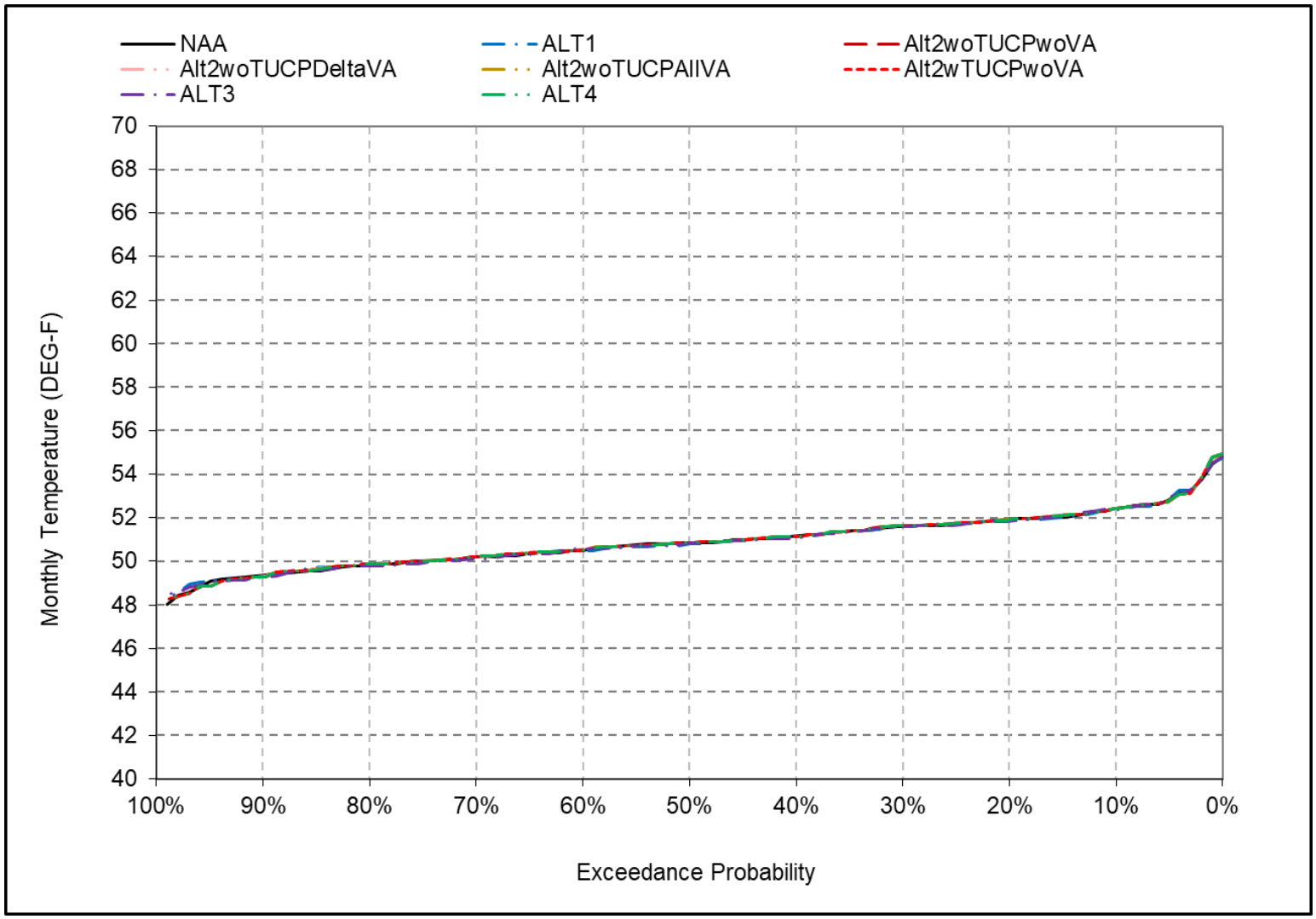
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-11. Stanislaus River below Tulloch Reservoir, February



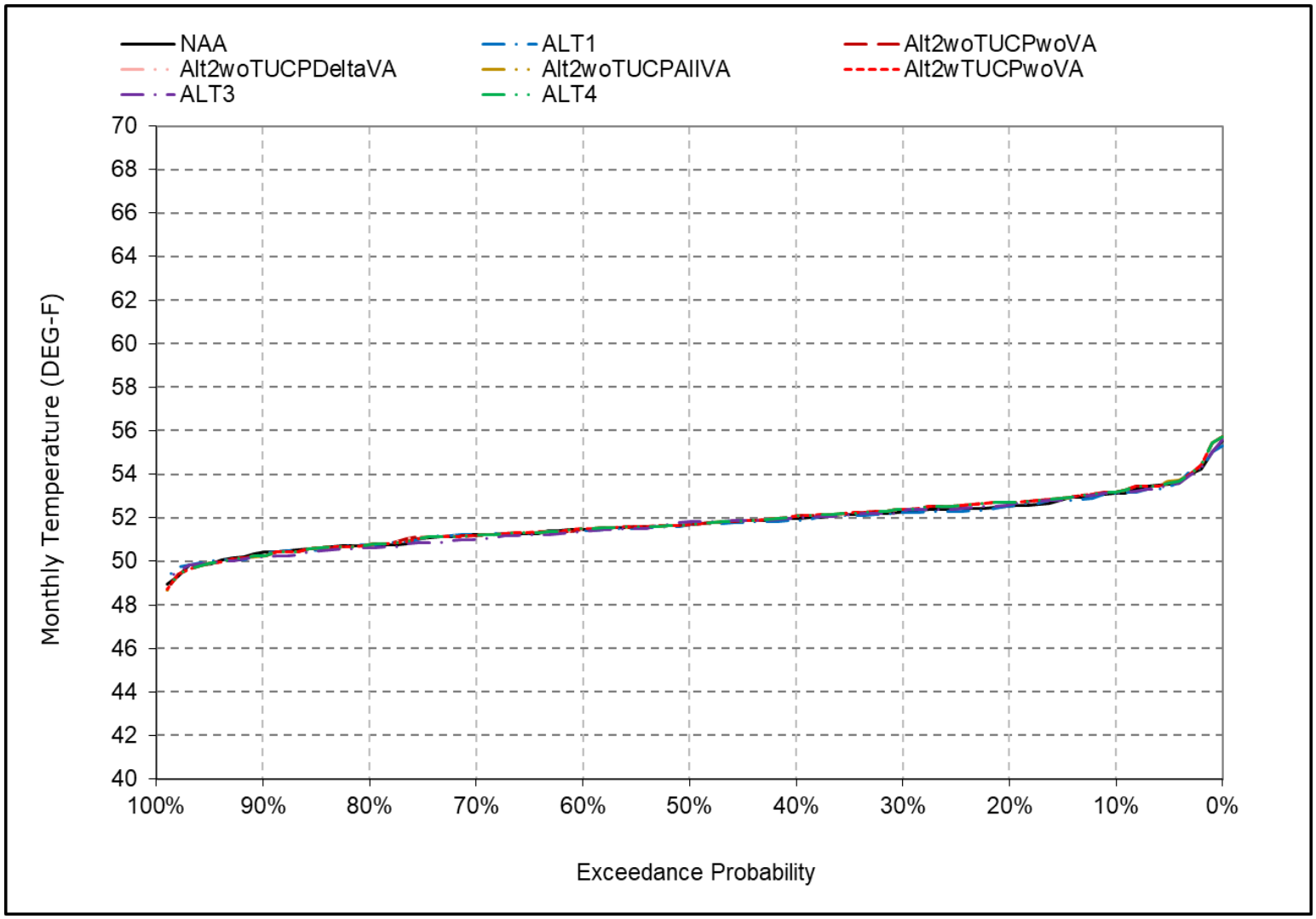
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-12. Stanislaus River below Tulloch Reservoir, March



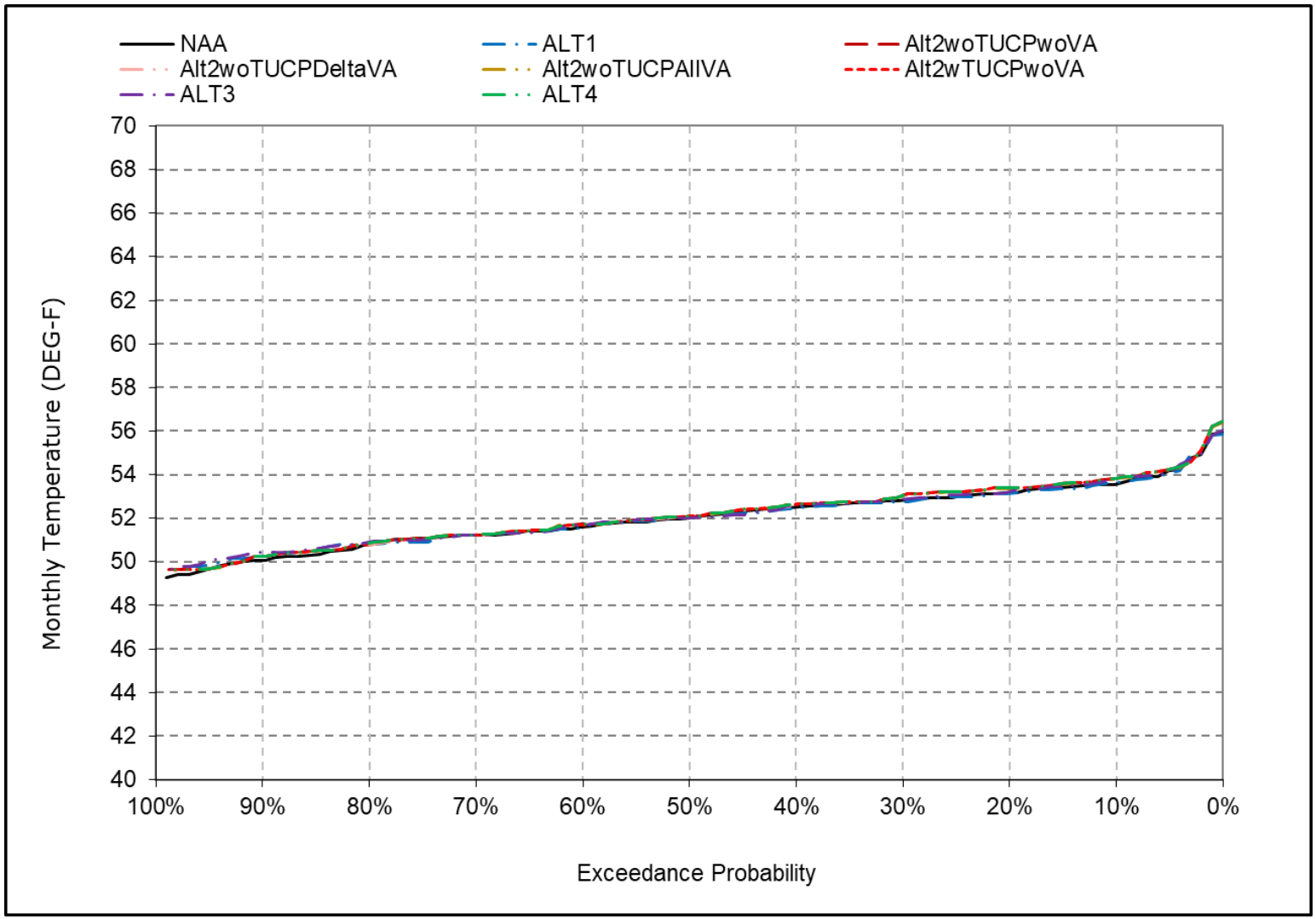
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-13. Stanislaus River below Tulloch Reservoir, April



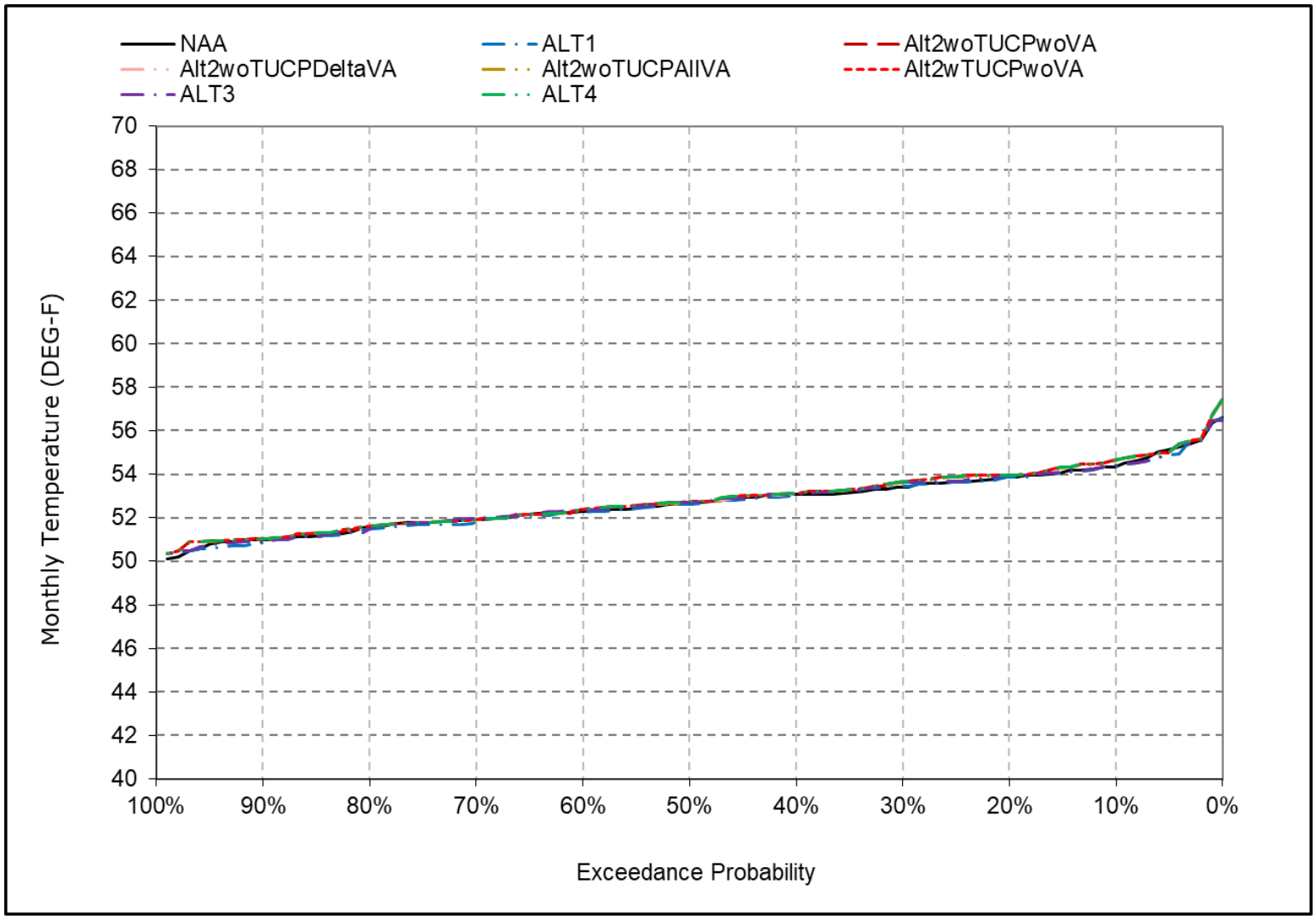
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-14. Stanislaus River below Tulloch Reservoir, May



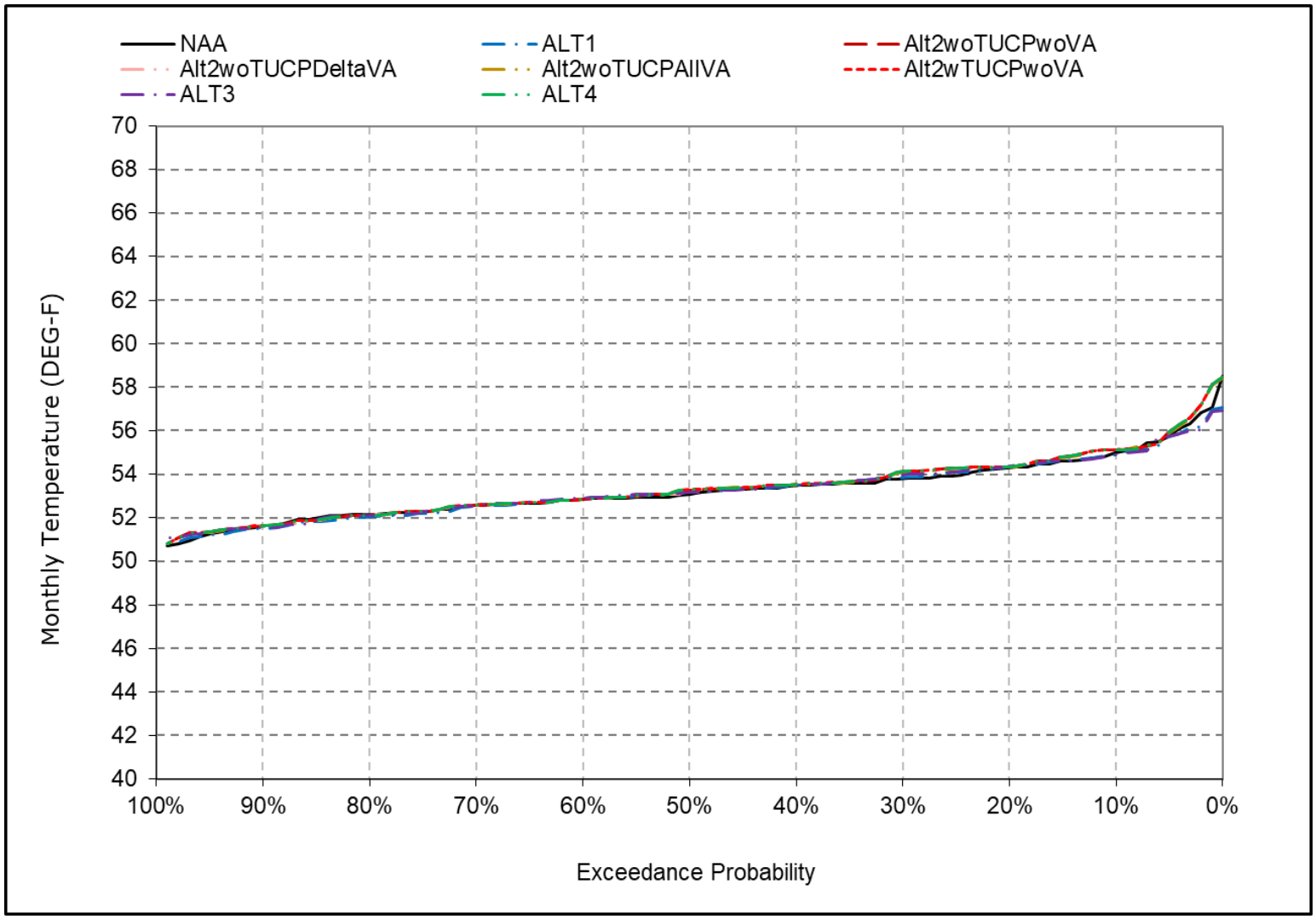
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-15. Stanislaus River below Tulloch Reservoir, June



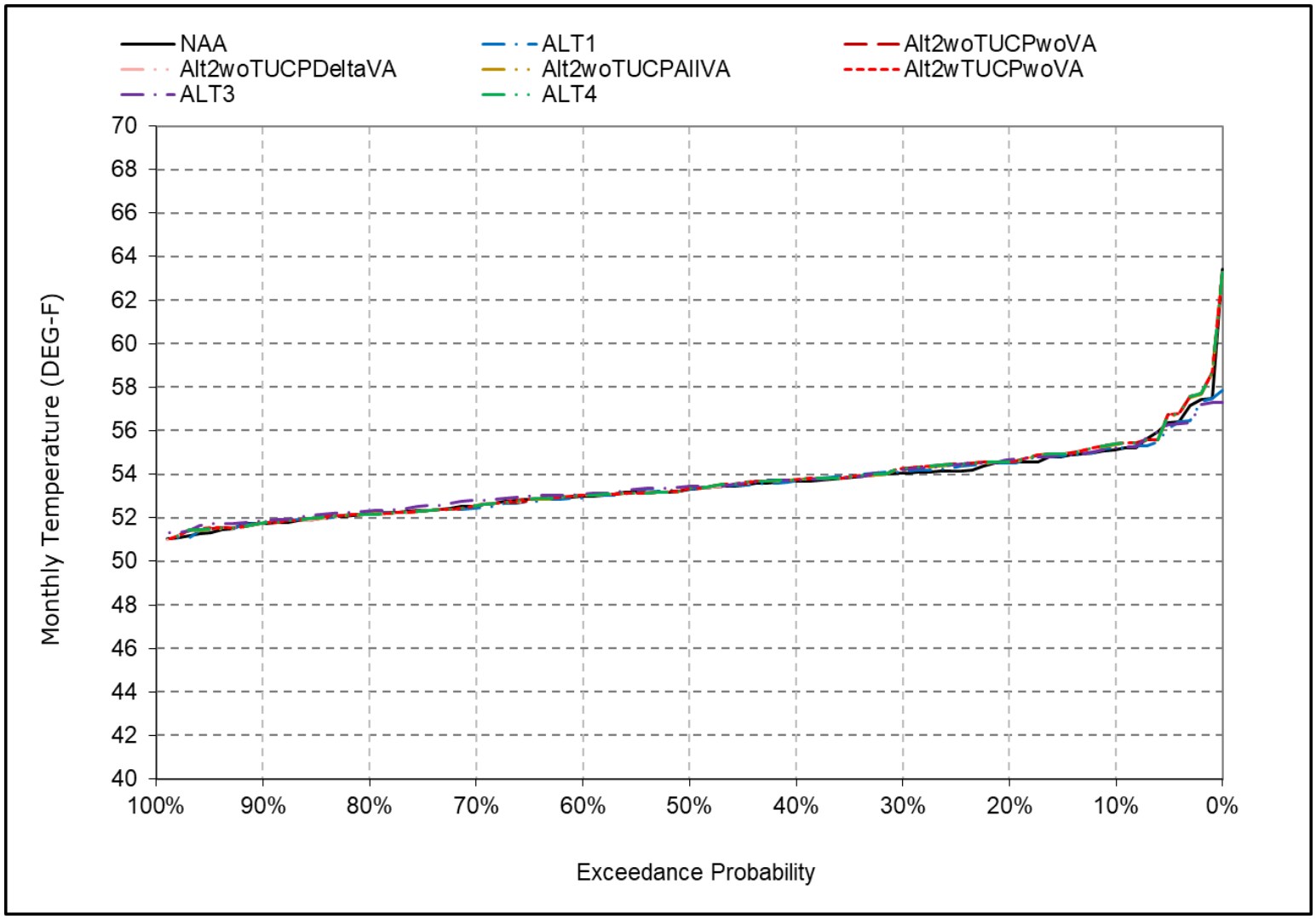
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-16. Stanislaus River below Tulloch Reservoir, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-17. Stanislaus River below Tulloch Reservoir, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-17-18. Stanislaus River below Tulloch Reservoir, September

Table F.2.11-18-1a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-1b. Stanislaus River below Goodwin Dam, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	55	56	56
20% Exceedance	56	55	53	51	51	52	52	53	54	55	55	55
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.6	53.8	51.6	49.6	49.8	51.2	51.7	52.5	53.3	54.0	54.2	54.6
50% Exceedance	54.2	53.4	51.2	49.2	49.4	50.8	51.3	52.1	52.7	53.5	53.9	54.2
60% Exceedance	53.8	53.1	51.0	49.0	49.1	50.4	51.0	51.9	52.3	53.1	53.6	53.8
70% Exceedance	53.2	52.6	50.7	48.7	48.7	50.0	50.6	51.7	51.9	52.8	53.3	53.2
80% Exceedance	52.9	52.2	50.3	48.3	48.2	49.6	50.3	51.2	51.5	52.3	52.8	52.9
90% Exceedance	52.2	51.8	50.0	47.8	47.8	49.1	49.8	50.8	51.0	51.8	52.3	52.4
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	54	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	54	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	55	54	52	50	50	51	52	52	53	54	54	55
Critical (34%)	56	55	52	50	51	52	52	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-1c. Stanislaus River below Goodwin Dam, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.5	0.1	0.2	0.0	-0.1	0.0	-0.2	0.0	0.0	-0.1	0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.5	0.3	0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.1	0.1	0.1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	1	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	-0.1	0.0
Full Simulation Period Average[a]	0.3	0.1	0.0	0.0	0.1	0.1	0.0	-0.1	0.0	0.0	0.0	-0.1
Wet Water Years (22%)	0.0	-0.1	-0.1	0.0	0.0	0.3	0.1	0.0	0.2	-0.1	-0.1	-0.1
Above Normal Years (12%)	0.4	0.1	0.1	0.0	0.0	-0.1	0.1	0.1	0.0	-0.1	0.0	0.0
Below Normal Years (15%)	0.4	0.1	0.0	0.0	0.1	0.1	-0.1	0.1	0.0	-0.1	0.0	0.0
Dry Years (17%)	0.6	0.3	0.2	0.1	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-2a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-2b. Stanislaus River below Goodwin Dam, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	56	56	56
20% Exceedance	55	55	53	51	51	52	52	53	54	55	55	56
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.3	53.7	51.7	49.6	49.6	51.2	51.8	52.7	53.5	54.0	54.4	54.6
50% Exceedance	53.7	53.2	51.4	49.2	49.4	50.7	51.4	52.3	53.0	53.5	53.9	54.1
60% Exceedance	53.5	52.9	51.0	49.0	49.1	50.4	51.1	52.0	52.5	53.2	53.5	53.9
70% Exceedance	52.9	52.6	50.7	48.7	48.6	50.0	50.7	51.6	52.0	52.7	53.3	53.2
80% Exceedance	52.6	52.1	50.2	48.3	48.2	49.7	50.4	51.3	51.5	52.4	52.9	52.9
90% Exceedance	52.1	51.8	49.9	47.7	47.7	49.2	49.8	50.8	51.0	51.8	52.4	52.5
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	56	55	53	50	50	52	53	54	54	55	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-2c. Stanislaus River below Goodwin Dam, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.2	0.2	0.3	-0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.3
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1	0.2	0.0	0.0	0.1
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	-0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-3a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-3b. Stanislaus River below Goodwin Dam, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	56	56	56
20% Exceedance	55	55	53	51	51	52	52	53	54	55	55	56
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.3	53.7	51.7	49.6	49.6	51.2	51.8	52.7	53.5	54.0	54.4	54.6
50% Exceedance	53.7	53.2	51.4	49.2	49.4	50.7	51.4	52.3	53.0	53.5	53.9	54.1
60% Exceedance	53.5	52.9	51.0	49.0	49.1	50.4	51.1	52.0	52.5	53.2	53.5	53.9
70% Exceedance	52.9	52.6	50.7	48.7	48.6	50.0	50.7	51.6	52.0	52.7	53.3	53.2
80% Exceedance	52.6	52.1	50.2	48.3	48.2	49.7	50.4	51.3	51.5	52.4	52.9	52.9
90% Exceedance	52.1	51.8	49.9	47.7	47.7	49.2	49.8	50.8	51.0	51.8	52.4	52.5
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	56	55	53	50	50	52	53	54	54	55	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-3c. Stanislaus River below Goodwin Dam, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.3	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.2	0.2	0.3	-0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.3
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1	0.2	0.0	0.0	0.1
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	-0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-4a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-4b. Stanislaus River below Goodwin Dam, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	56	56	56
20% Exceedance	55	55	53	51	51	52	52	53	54	55	55	55
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.3	53.7	51.7	49.6	49.6	51.2	51.8	52.7	53.5	54.0	54.4	54.6
50% Exceedance	53.7	53.2	51.4	49.2	49.3	50.7	51.4	52.3	53.0	53.5	53.9	54.1
60% Exceedance	53.5	52.9	51.0	49.0	49.1	50.3	51.1	52.0	52.5	53.2	53.6	53.9
70% Exceedance	52.9	52.6	50.7	48.7	48.6	50.0	50.7	51.6	52.0	52.7	53.3	53.2
80% Exceedance	52.6	52.1	50.2	48.3	48.1	49.6	50.3	51.3	51.6	52.4	52.9	52.9
90% Exceedance	52.1	51.8	49.9	47.7	47.7	49.2	49.8	50.8	51.0	51.8	52.4	52.5
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	56	55	53	50	50	52	53	54	54	55	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-4c. Stanislaus River below Goodwin Dam, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.2
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.2	0.2	0.3	-0.1	0.0	0.0	0.2	0.2	0.1	0.1	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1	0.2	0.0	0.0	0.1
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.1	0.2	0.2	-0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-5a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-5b. Stanislaus River below Goodwin Dam, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	56	56	56
20% Exceedance	55	55	53	51	51	52	52	53	54	55	55	56
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.3	53.7	51.7	49.6	49.6	51.2	51.8	52.7	53.5	54.0	54.5	54.6
50% Exceedance	53.7	53.2	51.4	49.2	49.3	50.7	51.4	52.3	53.0	53.5	53.9	54.1
60% Exceedance	53.5	52.9	51.0	49.0	49.1	50.3	51.1	52.0	52.5	53.2	53.6	53.9
70% Exceedance	52.9	52.6	50.7	48.7	48.6	50.0	50.7	51.6	52.0	52.7	53.3	53.2
80% Exceedance	52.6	52.2	50.2	48.3	48.2	49.6	50.3	51.3	51.6	52.4	52.9	52.9
90% Exceedance	52.1	51.8	49.9	47.7	47.7	49.2	49.8	50.8	51.0	51.9	52.4	52.5
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	56	55	53	50	50	52	53	54	54	55	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-5c. Stanislaus River below Goodwin Dam, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.2	0.2	0.3	-0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.3
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1	0.2	0.1	0.0	0.1
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	-0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-6a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-6b. Stanislaus River below Goodwin Dam, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	52	53	54	55	55	56	56
20% Exceedance	55	54	53	51	51	52	52	53	54	55	55	56
30% Exceedance	55	54	52	50	50	51	52	53	54	55	55	55
40% Exceedance	54.2	53.7	51.7	49.5	49.6	50.8	51.7	52.6	53.4	54.0	54.4	54.6
50% Exceedance	53.9	53.4	51.3	49.2	49.4	50.5	51.2	52.3	52.8	53.6	54.1	54.3
60% Exceedance	53.6	53.0	51.0	49.0	49.0	50.3	50.9	51.8	52.5	53.3	53.7	53.9
70% Exceedance	53.1	52.6	50.7	48.7	48.7	49.9	50.5	51.5	51.9	52.8	53.4	53.5
80% Exceedance	52.6	52.3	50.3	48.3	48.3	49.5	50.2	51.1	51.5	52.4	52.8	53.0
90% Exceedance	52.2	51.8	50.0	47.8	47.9	49.0	49.7	50.6	51.1	51.8	52.4	52.7
Full Simulation Period Average[a]	54	53	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	51	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-6c. Stanislaus River below Goodwin Dam, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.1	0.3	0.1	0.0	-0.2	0.0	0.0	0.2	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.2	0.2	0.2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.2	0.0	0.1	0.1	0.1	-0.2	-0.1	-0.2	0.3	0.0	0.0	0.2
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.1	0.0	0.1	0.0	0.0	-0.2	0.0	0.0	0.2	0.1	0.1	0.3
Above Normal Years (12%)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.1	0.1
Below Normal Years (15%)	0.1	0.1	0.1	0.0	-0.1	0.0	-0.1	-0.1	0.1	0.1	0.1	0.1
Dry Years (17%)	0.2	0.2	0.1	0.0	-0.1	-0.3	-0.2	-0.1	0.1	0.3	0.3	0.3
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-7a. Stanislaus River below Goodwin Dam, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	55.6	55.2	53.1	50.9	51.5	52.6	53.1	53.9	54.5	55.4	55.9	56.1
20% Exceedance	55.2	54.6	52.7	50.5	50.8	51.8	52.5	53.3	54.1	54.7	55.2	55.4
30% Exceedance	54.5	54.0	52.2	50.0	50.1	51.4	52.2	52.9	53.7	54.3	54.6	54.9
40% Exceedance	54.1	53.6	51.7	49.6	49.7	51.1	51.8	52.6	53.4	53.9	54.2	54.6
50% Exceedance	54	53	51	49	49	51	51	52	53	54	54	54
60% Exceedance	53	53	51	49	49	50	51	52	52	53	54	54
70% Exceedance	53	53	51	49	49	50	51	52	52	53	53	53
80% Exceedance	53	52	50	48	48	50	50	51	52	52	53	53
90% Exceedance	52	52	50	48	48	49	50	51	51	52	52	52
Full Simulation Period Average[a]	54	53	51	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	52	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	53
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54.1	53.7	51.6	49.6	49.9	51.2	51.9	52.6	53.3	53.8	54.2	54.4
Critical (34%)	55	55	52	50	51	52	53	53	54	55	55	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-7b. Stanislaus River below Goodwin Dam, Alternative 4, Monthly Temperature (°F)

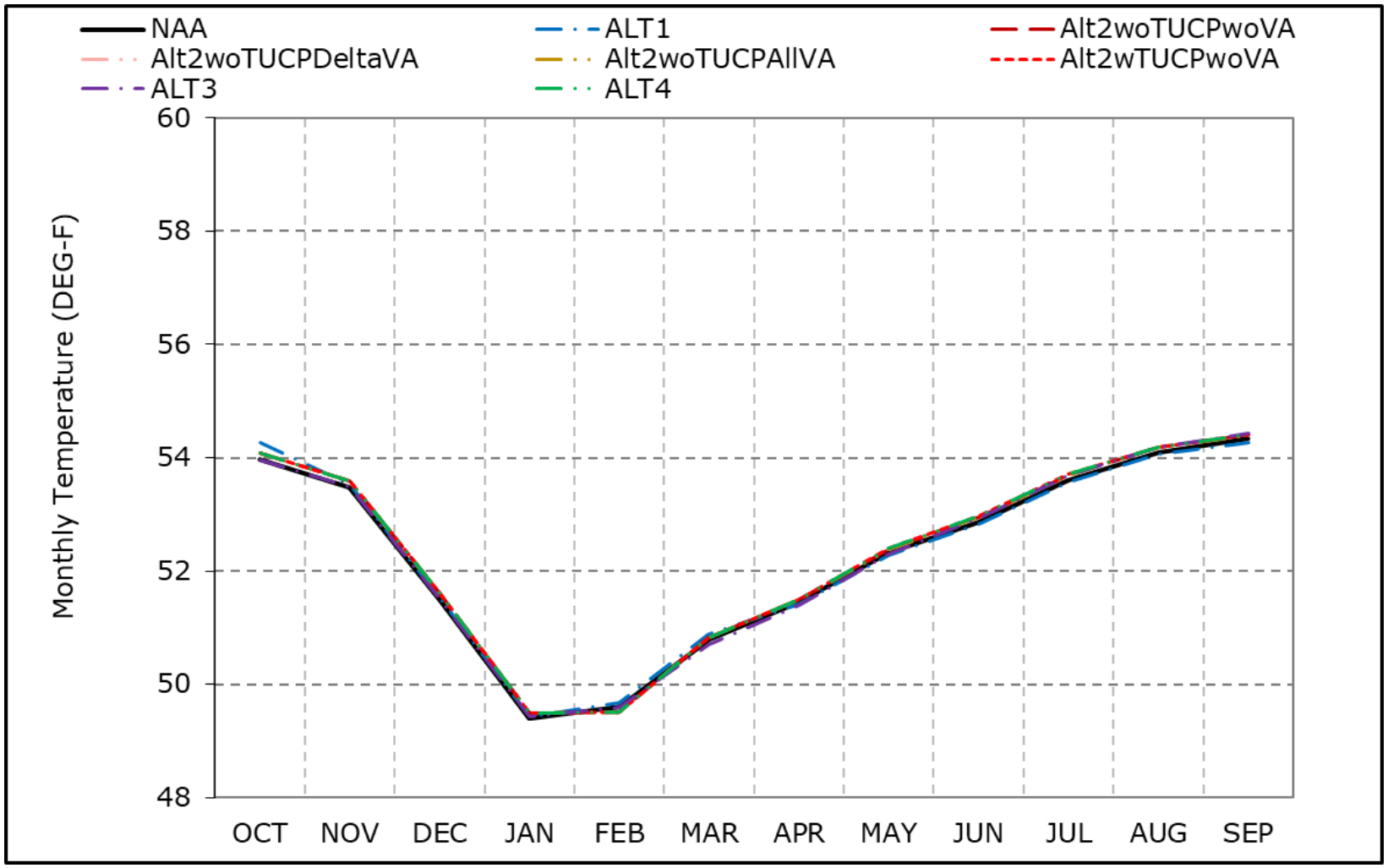
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	56	55	53	51	51	53	53	54	55	56	56	56
20% Exceedance	55	55	53	51	51	52	52	53	54	55	55	56
30% Exceedance	55	54	52	50	50	51	52	53	54	54	55	55
40% Exceedance	54.3	53.7	51.7	49.6	49.6	51.2	51.8	52.7	53.5	54.0	54.5	54.6
50% Exceedance	53.7	53.2	51.4	49.2	49.3	50.7	51.4	52.3	53.0	53.5	53.9	54.1
60% Exceedance	53.5	52.9	51.0	49.0	49.1	50.3	51.1	52.0	52.5	53.2	53.6	53.9
70% Exceedance	52.9	52.6	50.7	48.7	48.6	50.0	50.7	51.6	52.0	52.7	53.3	53.2
80% Exceedance	52.6	52.2	50.2	48.3	48.2	49.6	50.3	51.3	51.6	52.4	52.9	52.9
90% Exceedance	52.1	51.8	49.9	47.7	47.7	49.2	49.8	50.8	51.0	51.9	52.4	52.5
Full Simulation Period Average[a]	54	54	52	49	50	51	51	52	53	54	54	54
Wet Water Years (22%)	53	52	51	49	49	50	50	51	51	52	53	53
Above Normal Years (12%)	53	53	51	49	49	50	51	52	52	53	53	54
Below Normal Years (15%)	53	53	51	49	49	50	51	52	52	53	53	54
Dry Years (17%)	54	54	52	50	50	51	52	53	53	54	54	55
Critical (34%)	56	55	53	50	50	52	53	54	54	55	56	56

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-18-7c. Stanislaus River below Goodwin Dam, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

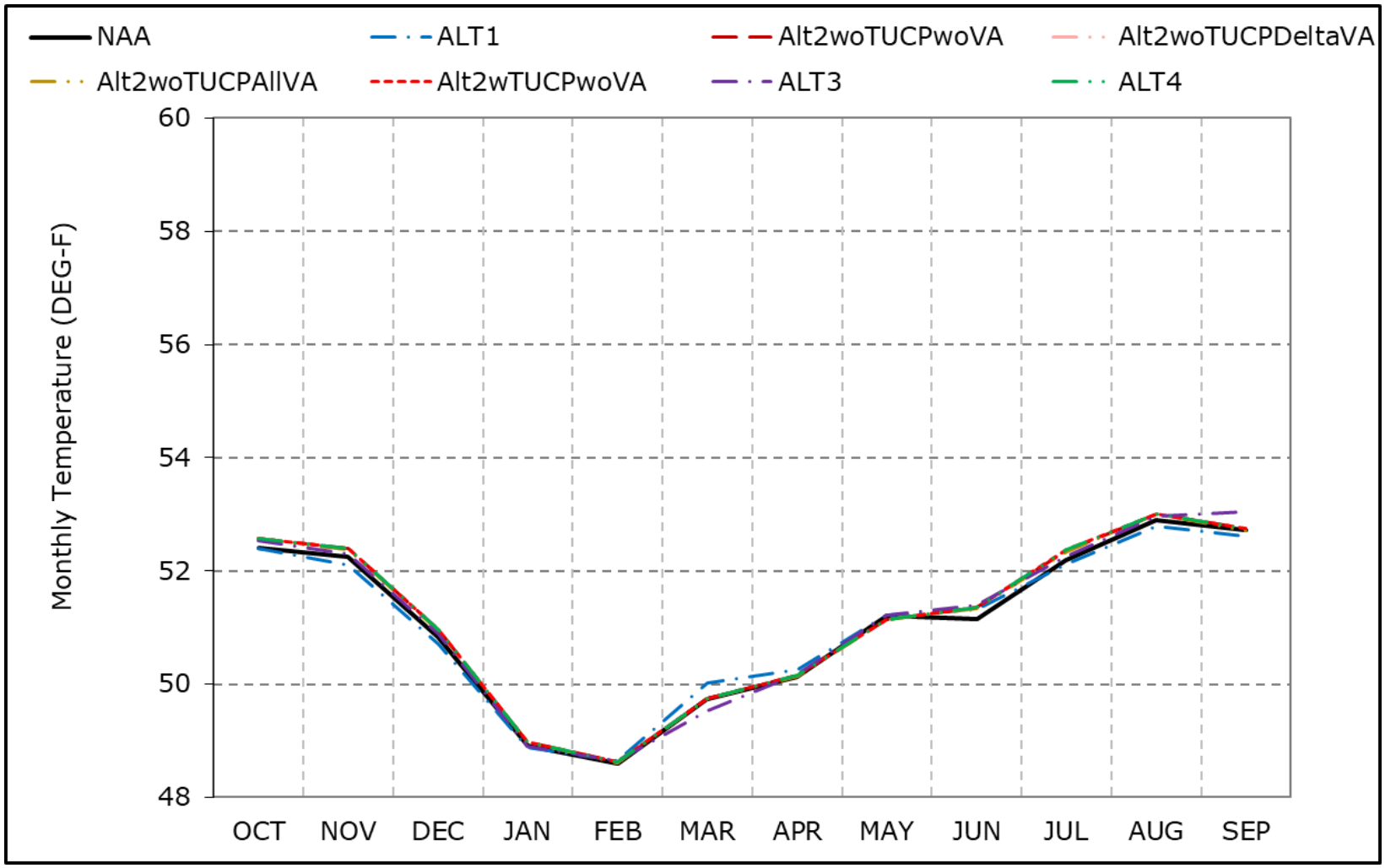
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.3
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.3	0.2	0.2	0.3	-0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.3
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	-0.1	0.2	0.1	0.0	0.1
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.2	0.1	0.0
Above Normal Years (12%)	0.1	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Below Normal Years (15%)	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Dry Years (17%)	0.2	0.2	0.2	0.2	-0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



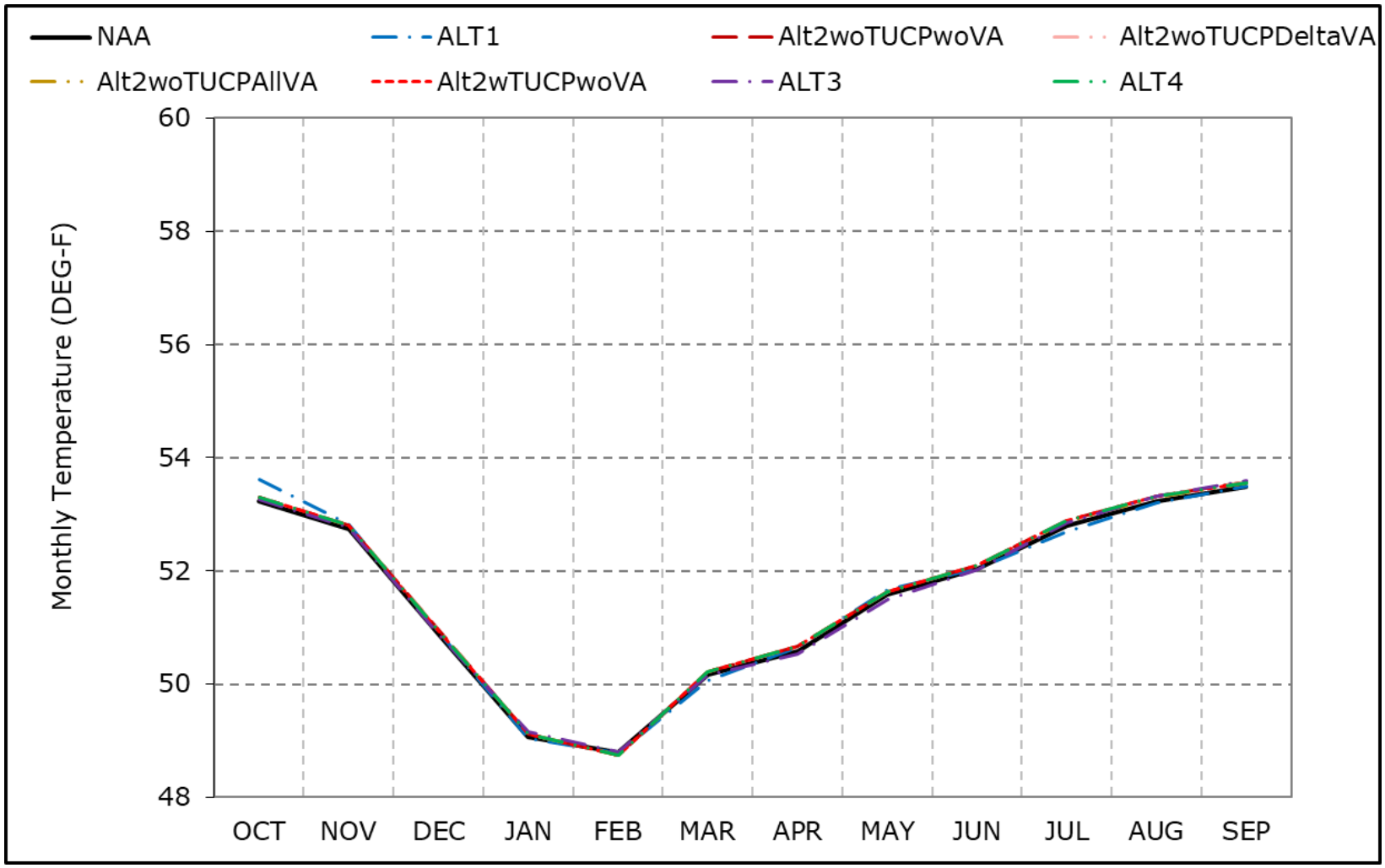
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-1. Stanislaus River below Goodwin Dam, Long-Term Average Temperature



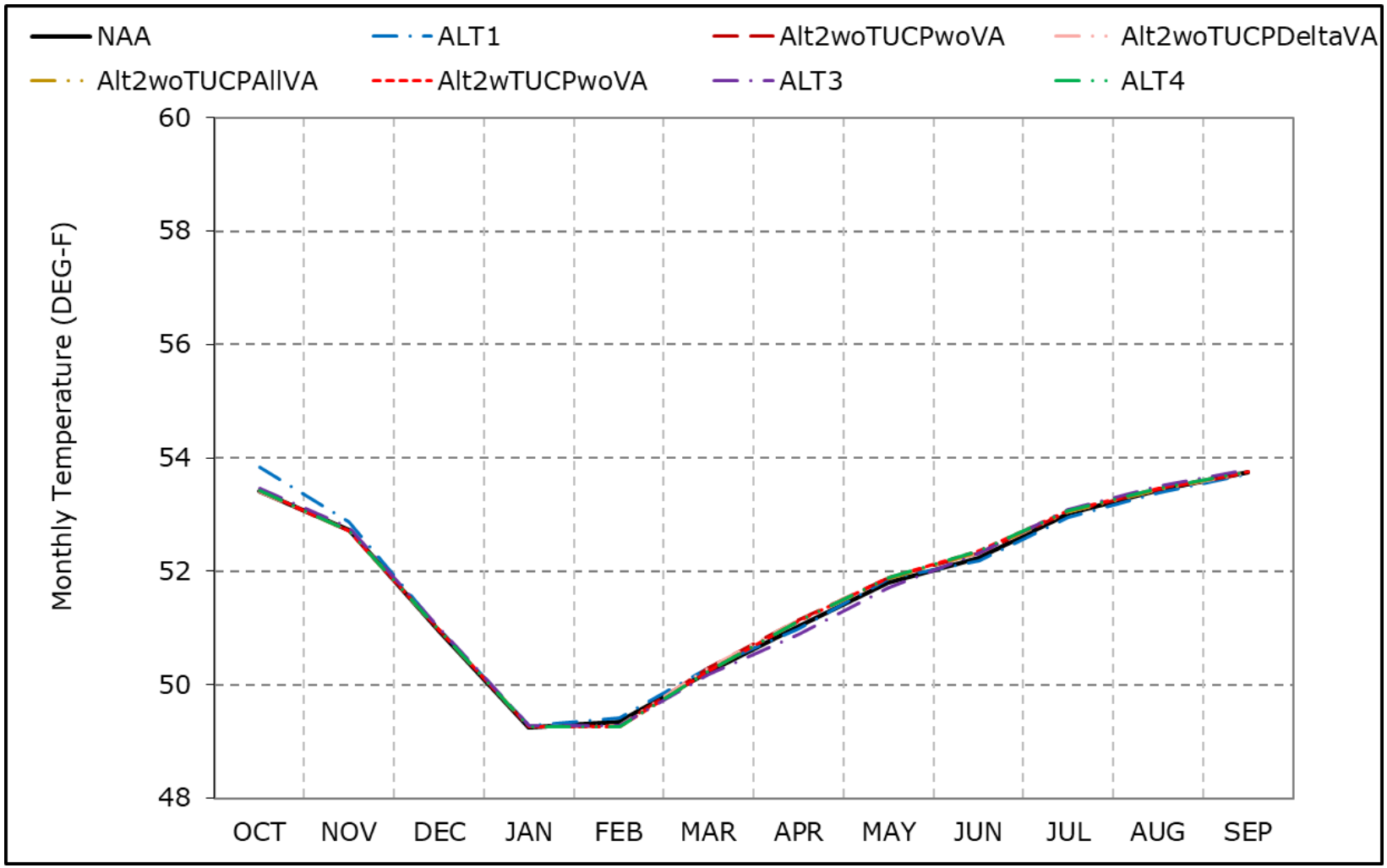
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-2. Stanislaus River below Goodwin Dam, Wet Year Average Temperature



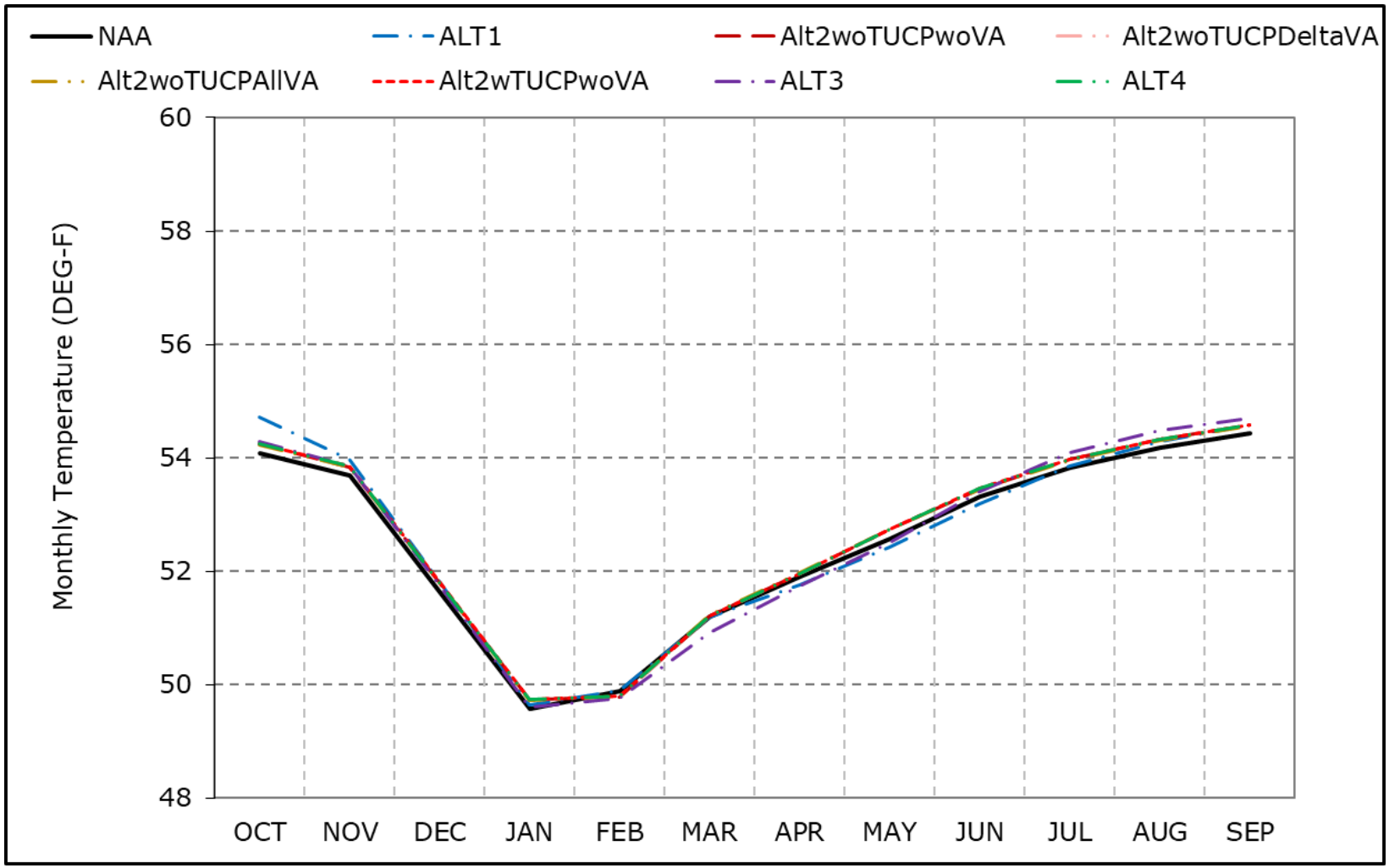
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-3. Stanislaus River below Goodwin Dam, Above Normal Year Average Temperature



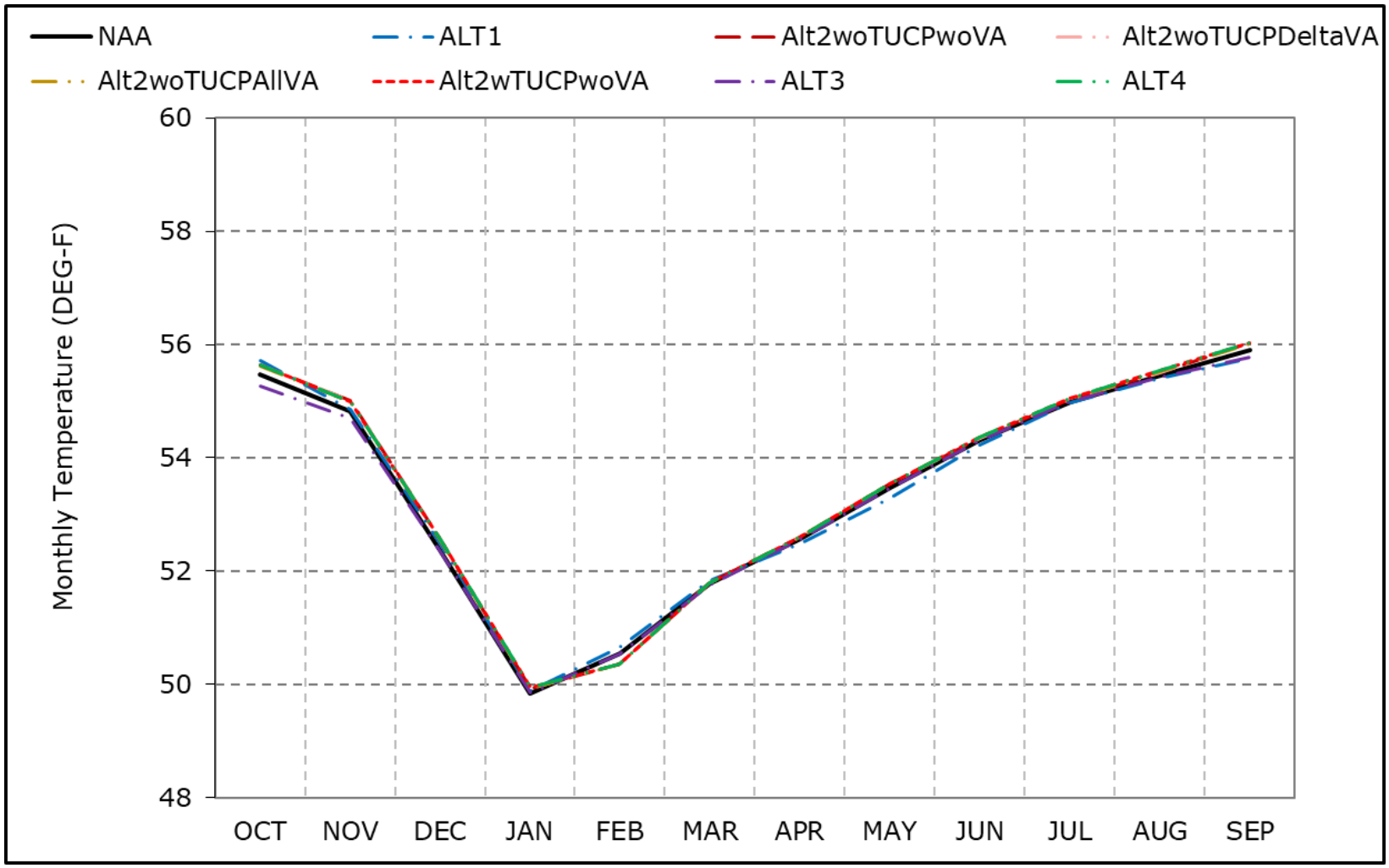
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-4. Stanislaus River below Goodwin Dam, Below Normal Year Average Temperature



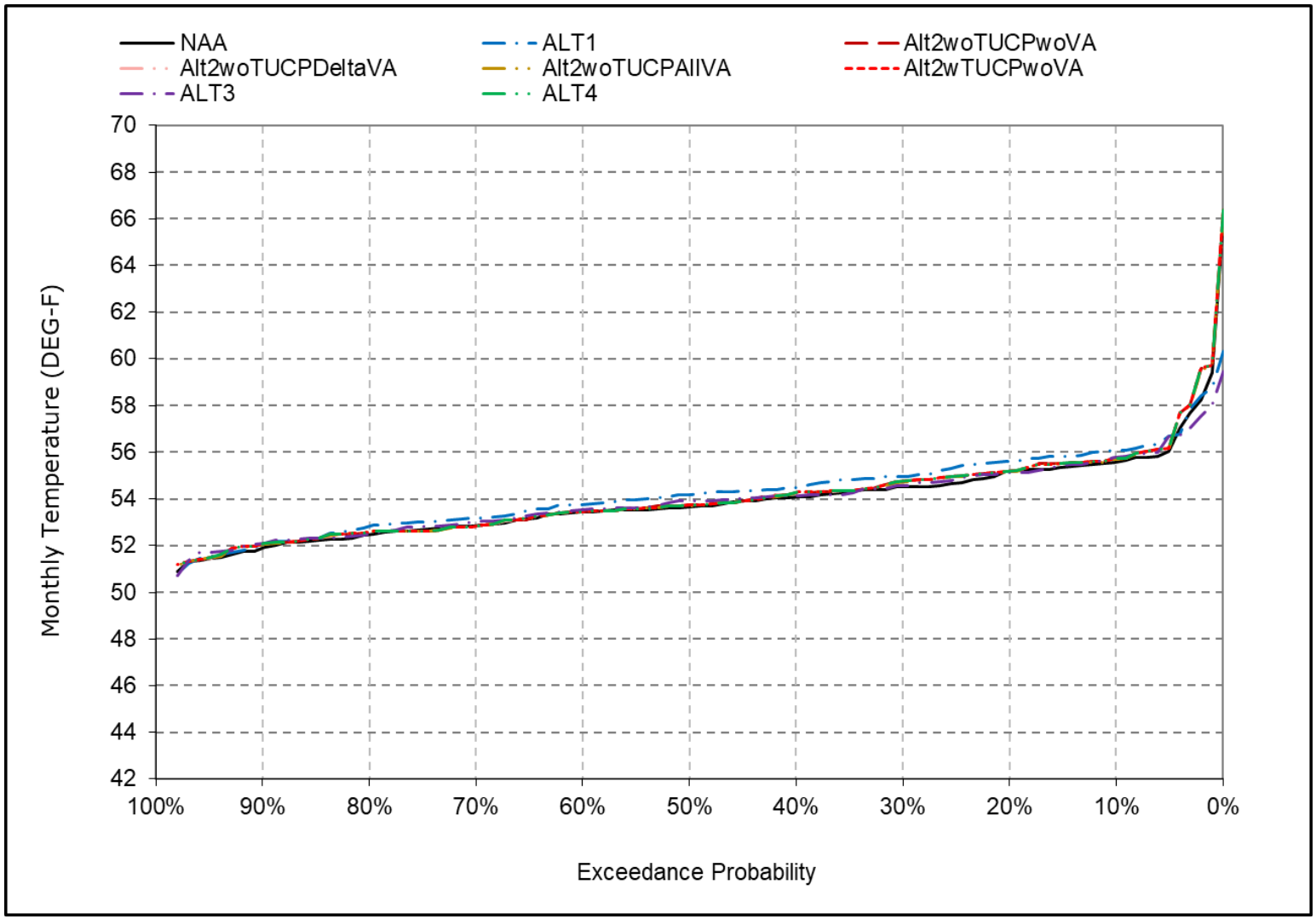
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-5. Stanislaus River below Goodwin Dam, Dry Year Average Temperature



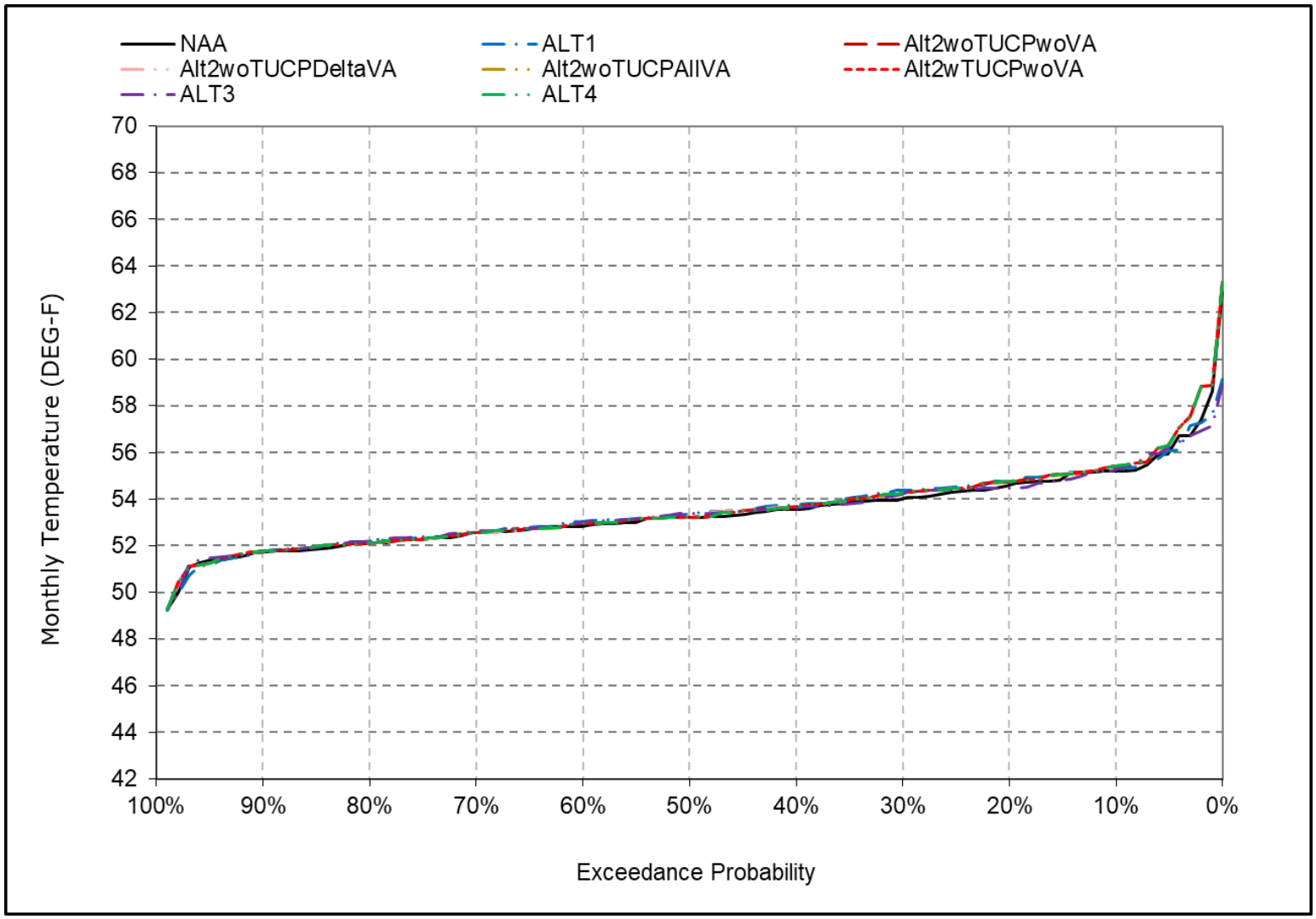
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-6. Stanislaus River below Goodwin Dam, Critical Year Average Temperature



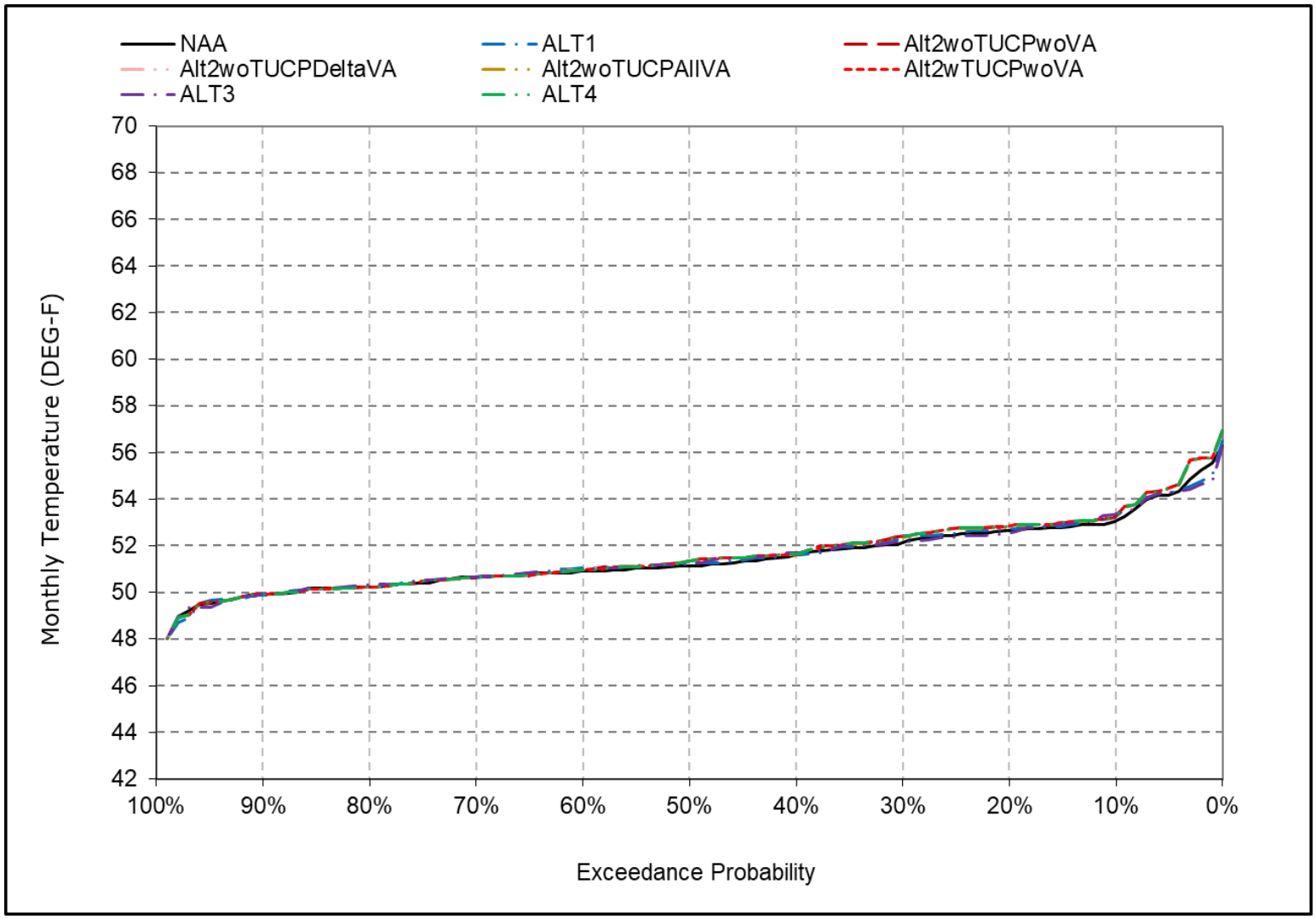
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-7. Stanislaus River below Goodwin Dam, October



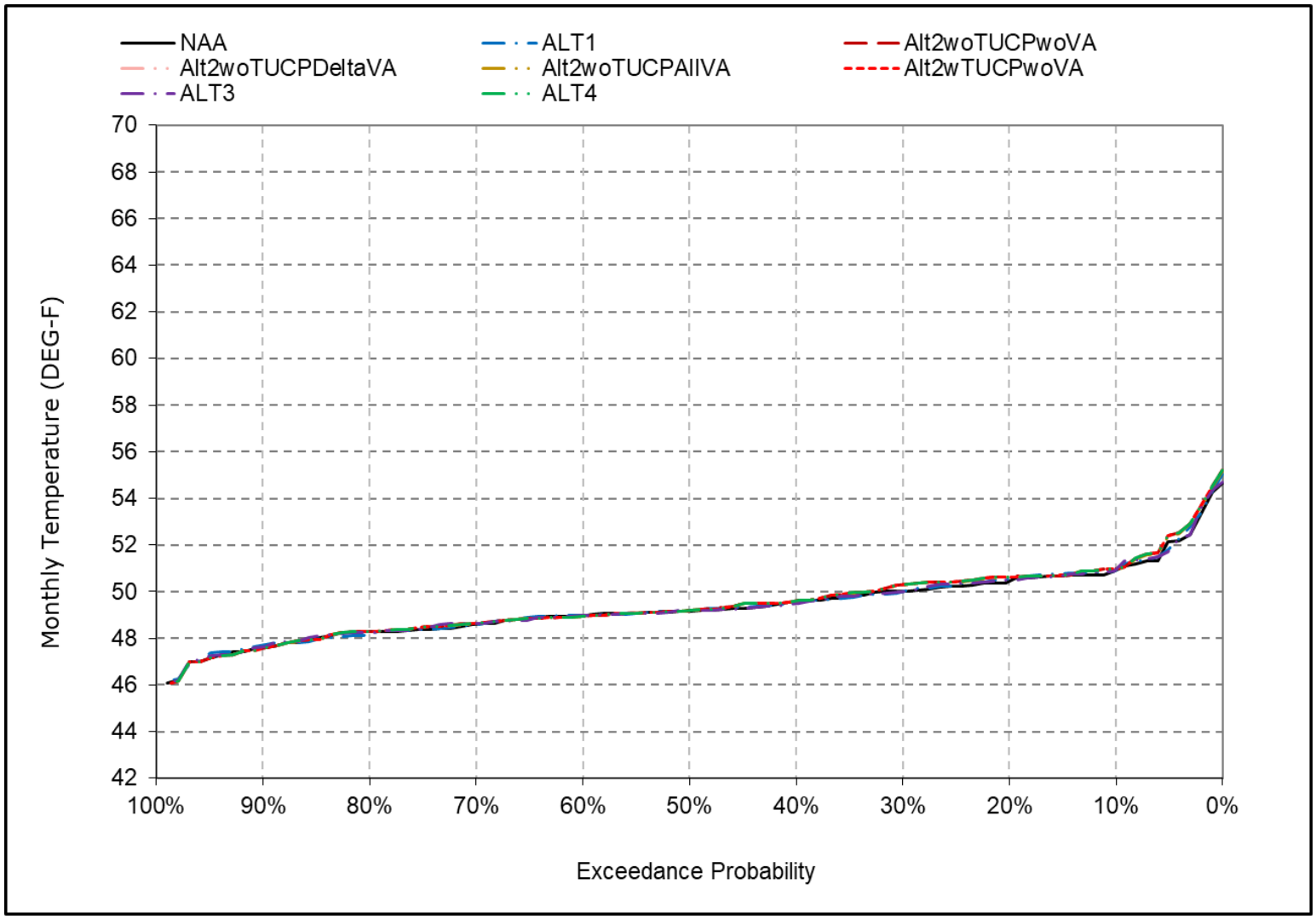
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-8. Stanislaus River below Goodwin Dam, November



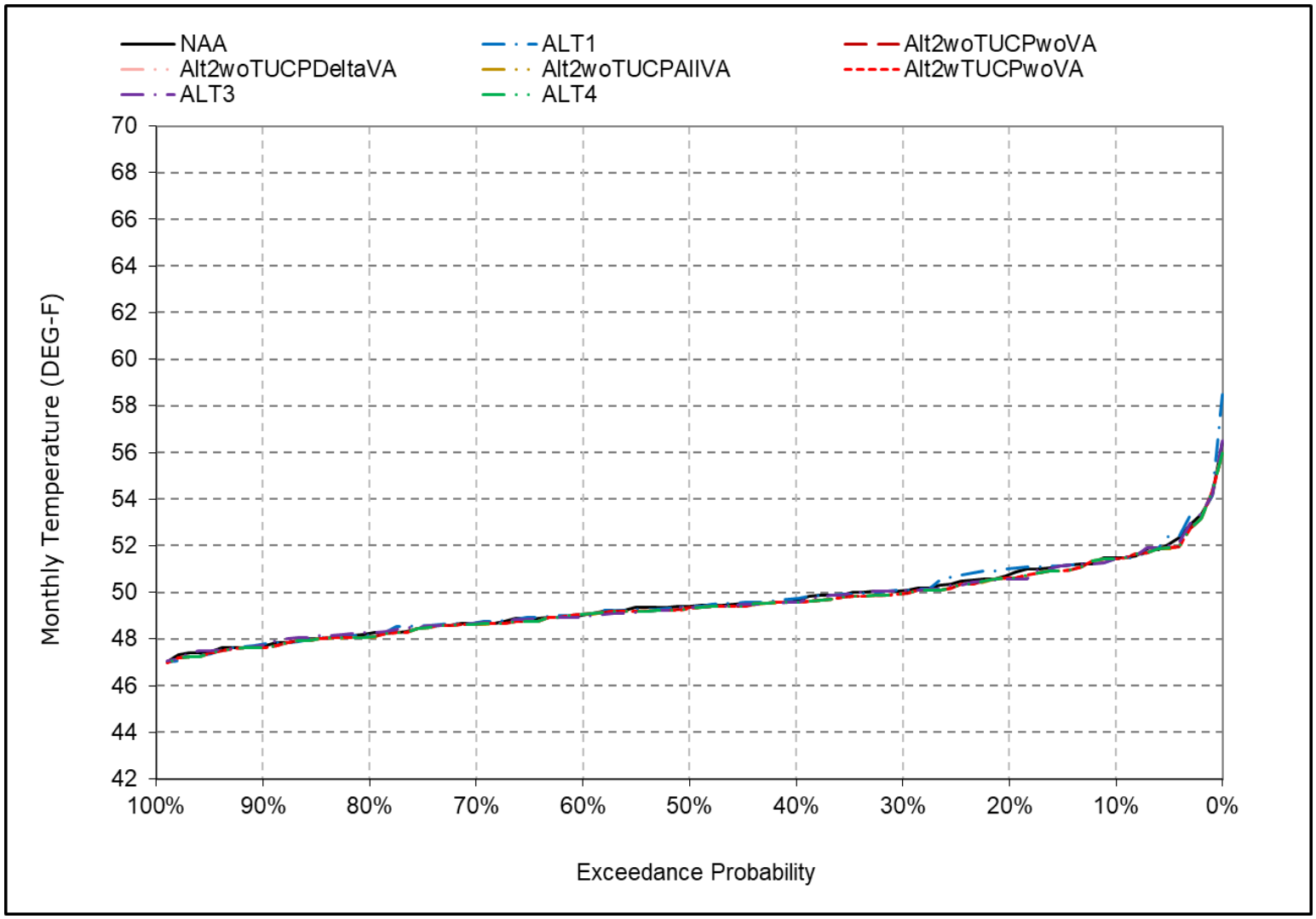
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-9. Stanislaus River below Goodwin Dam, December



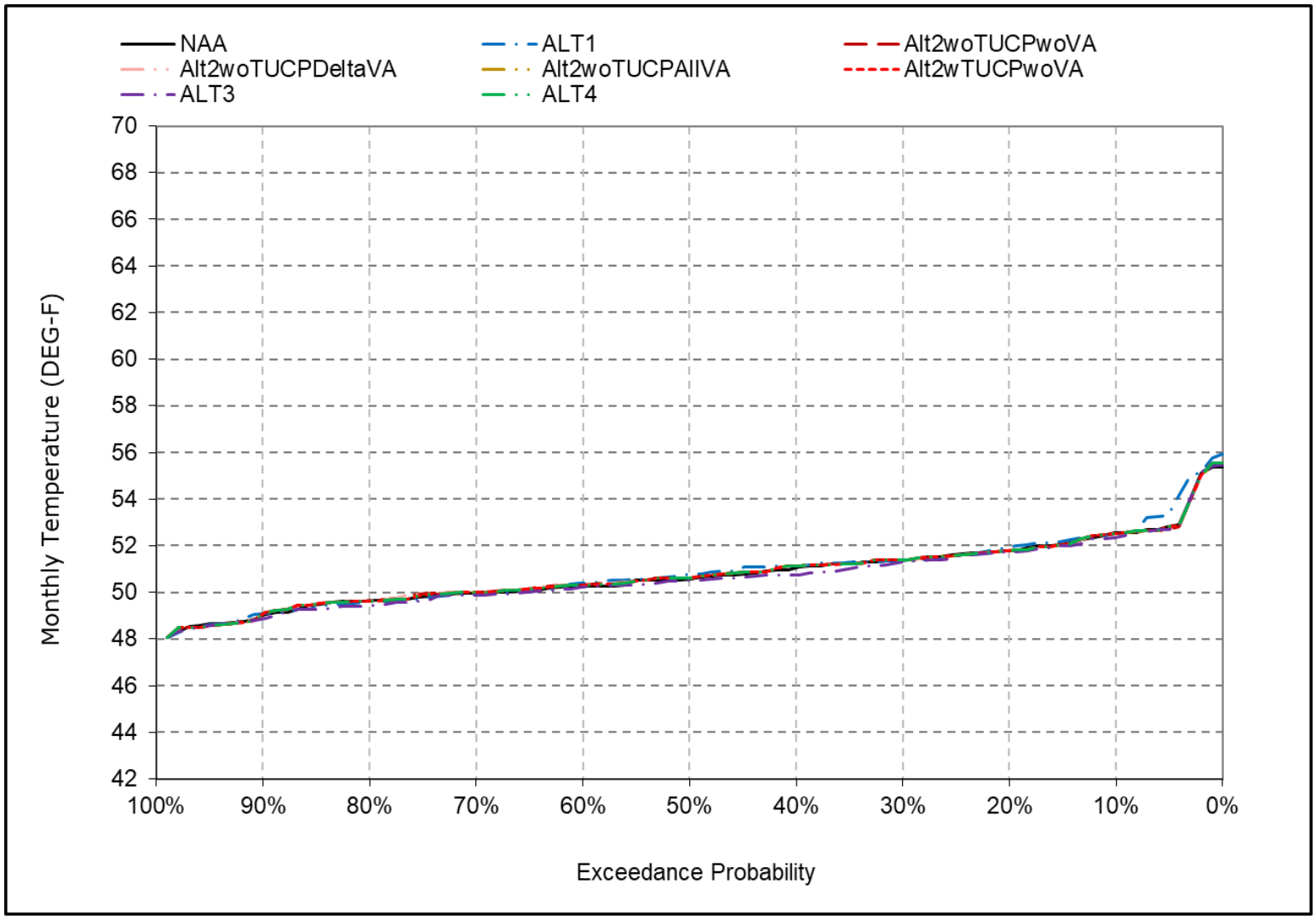
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-10. Stanislaus River below Goodwin Dam, January



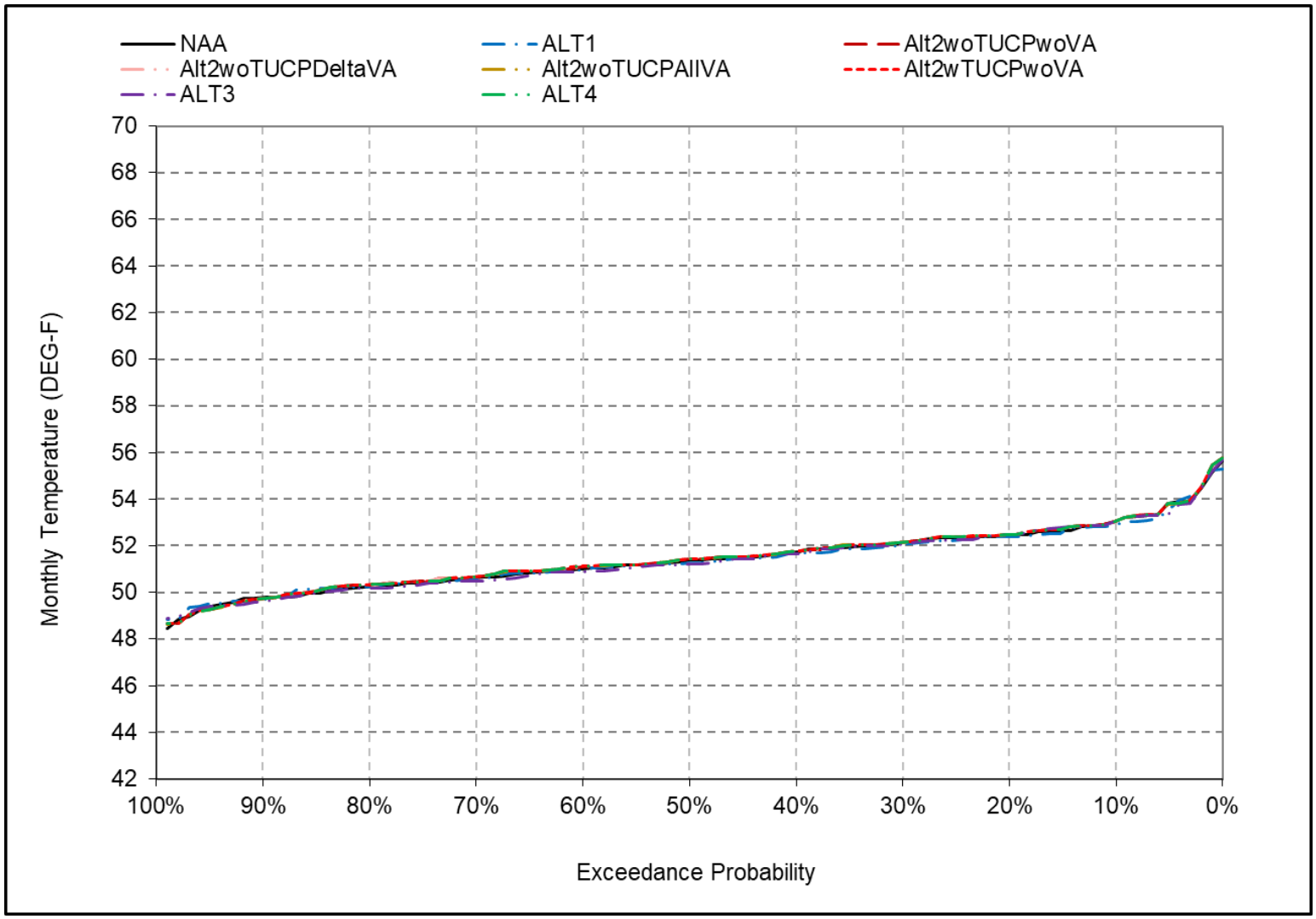
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-11. Stanislaus River below Goodwin Dam, February



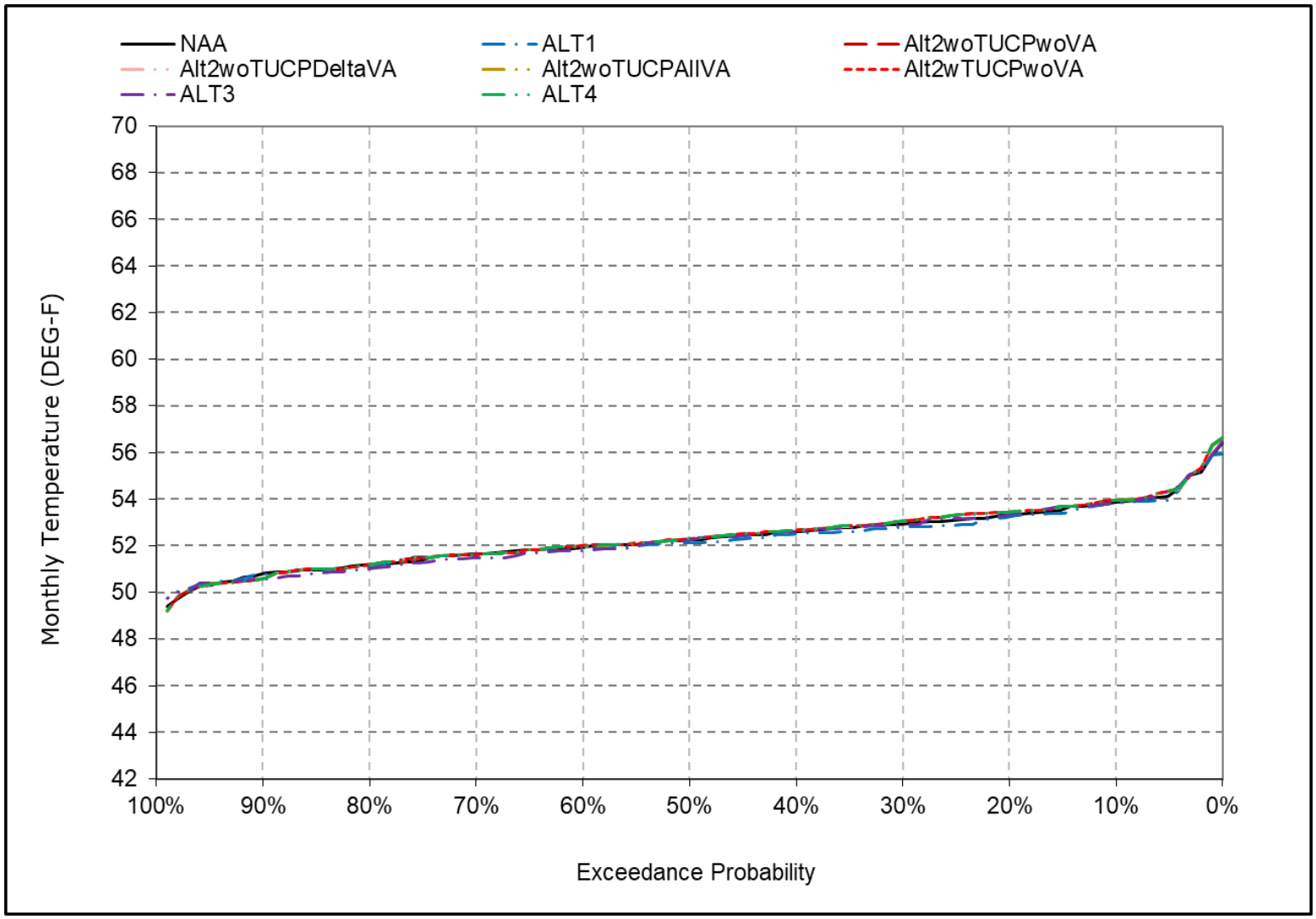
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-12. Stanislaus River below Goodwin Dam, March



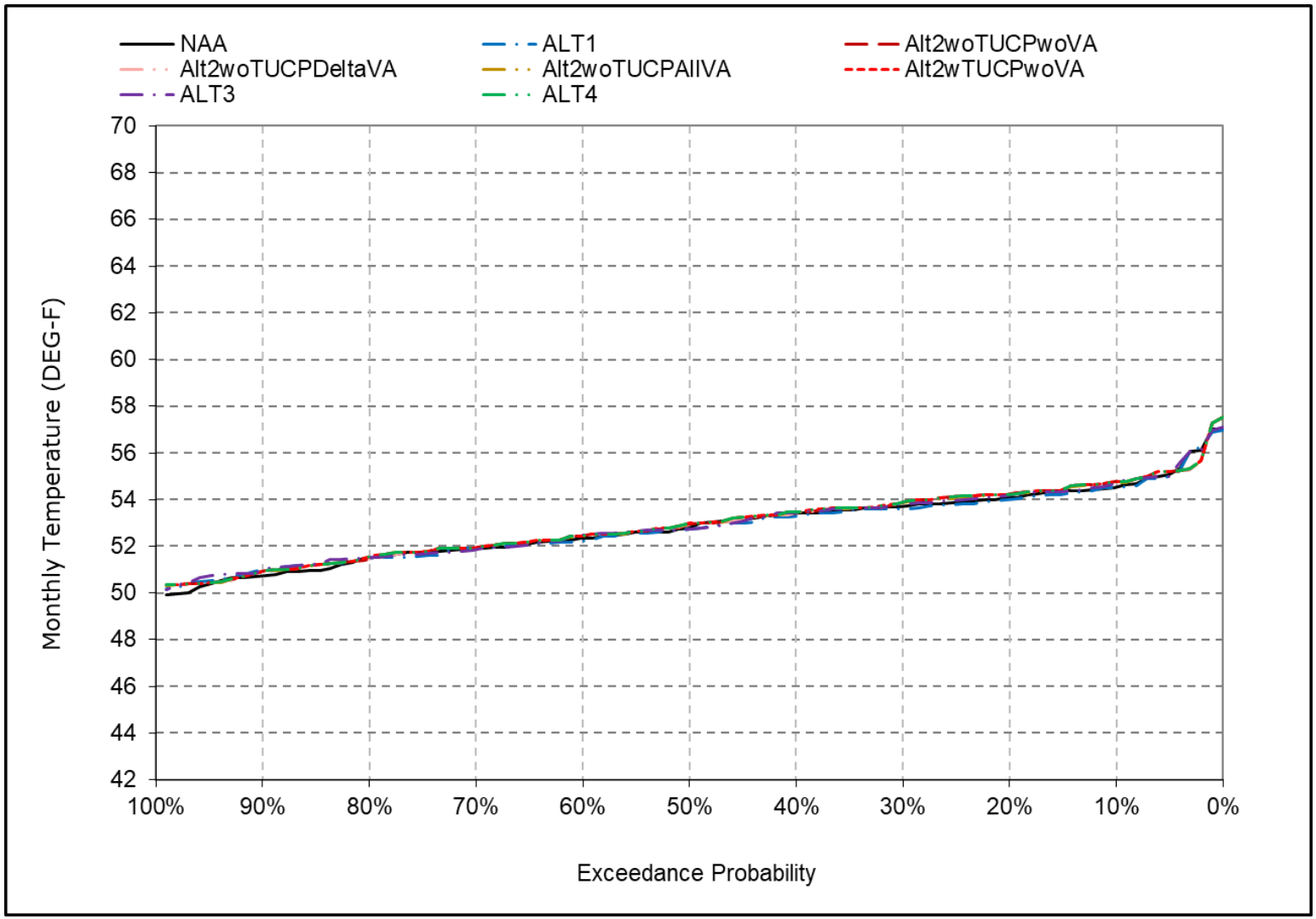
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-13. Stanislaus River below Goodwin Dam, April



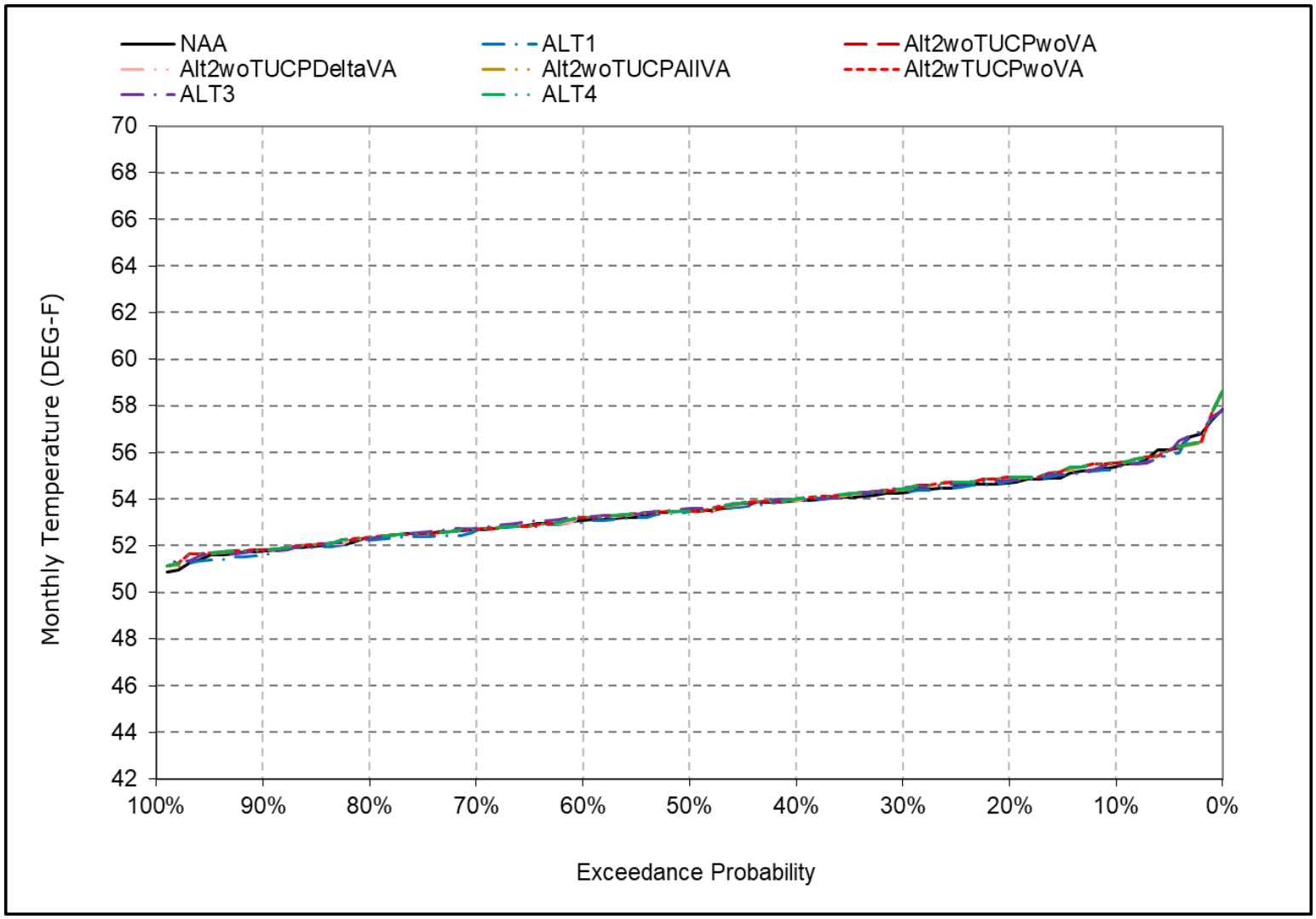
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-14. Stanislaus River below Goodwin Dam, May



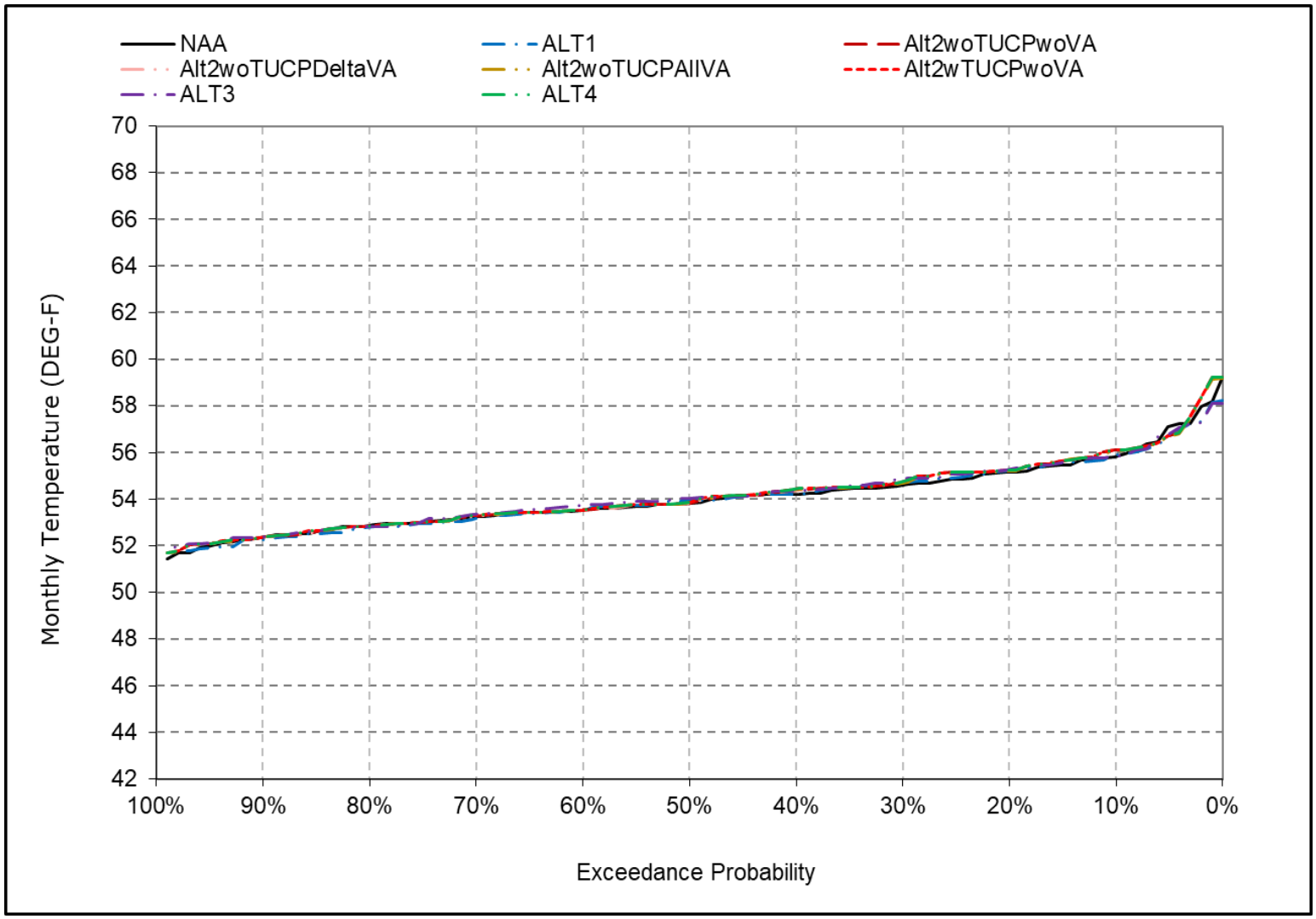
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-15. Stanislaus River below Goodwin Dam, June



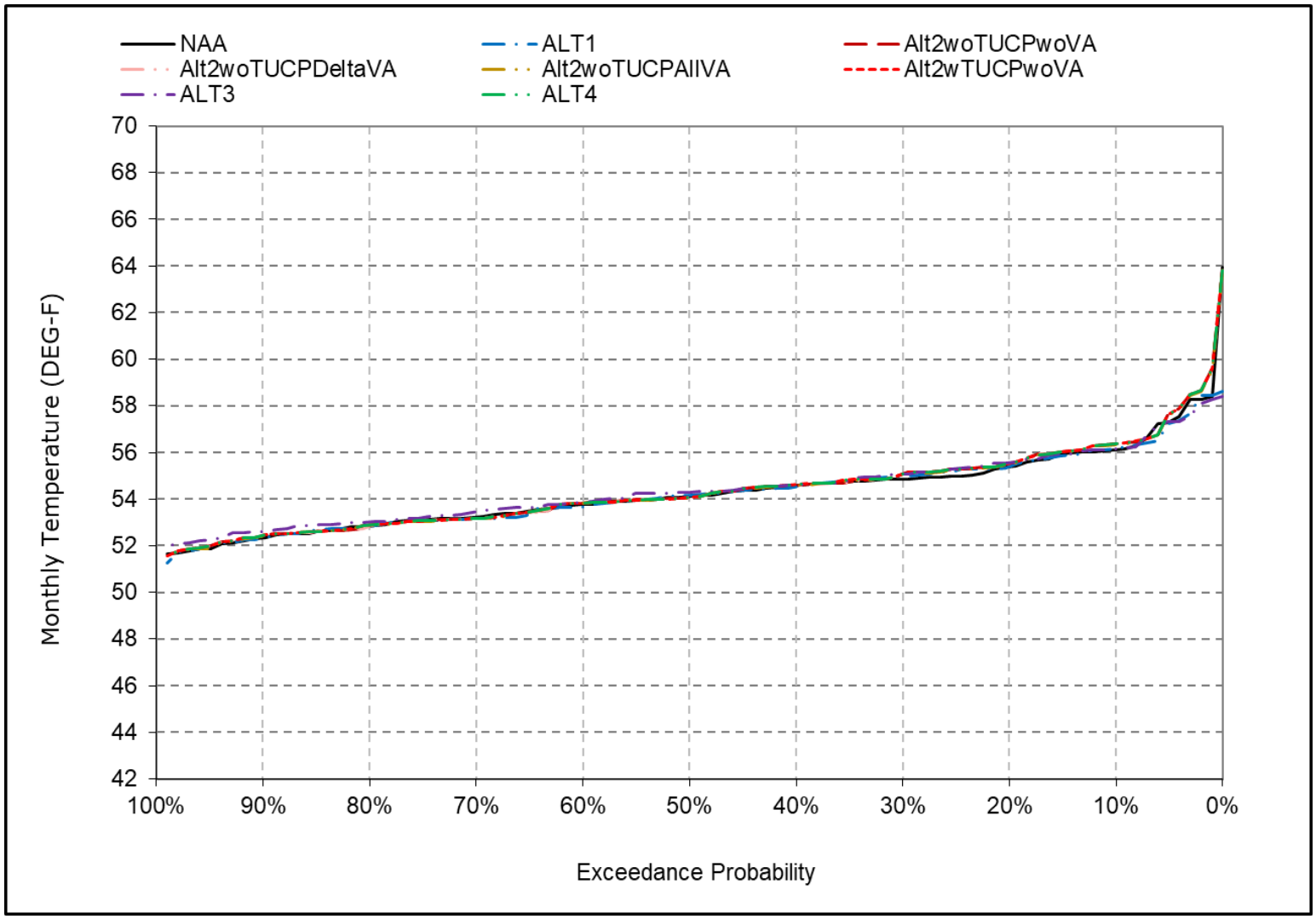
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-16. Stanislaus River below Goodwin Dam, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-17. Stanislaus River below Goodwin Dam, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-18-18. Stanislaus River below Goodwin Dam, September

Table F.2.11-19-1a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-1b. Stanislaus River at Orange Blossom Bridge, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	61	56	53	52	53	57	56	58	63	65	64	62
20% Exceedance	60	56	52	51	52	56	55	57	62	64	63	62
30% Exceedance	60	55	52	51	52	55	54	56	61	63	62	61
40% Exceedance	58.7	54.5	51.3	50.2	51.2	54.3	53.8	55.2	61.0	62.9	62.1	60.6
50% Exceedance	57.6	54.0	51.1	49.6	50.6	53.6	53.5	54.5	59.8	62.5	61.7	60.2
60% Exceedance	56.9	53.7	50.7	49.3	50.2	53.0	52.4	53.9	58.1	62.2	61.5	60.0
70% Exceedance	56.4	53.4	50.4	49.0	49.7	51.9	52.0	53.7	56.5	61.8	61.1	59.5
80% Exceedance	55.7	53.0	50.2	48.6	49.3	51.3	51.7	53.2	55.6	61.4	60.6	58.8
90% Exceedance	54.4	52.5	49.8	48.1	48.8	50.3	51.2	52.5	54.4	60.7	60.2	55.0
Full Simulation Period Average[a]	58	54	51	50	51	54	53	55	59	63	62	60
Wet Water Years (22%)	55	53	51	50	50	52	52	53	55	61	59	56
Above Normal Years (12%)	57	53	51	49	50	52	52	54	57	62	61	60
Below Normal Years (15%)	57	54	51	50	51	52	53	54	58	62	61	60
Dry Years (17%)	59	55	52	50	51	54	54	55	60	63	62	61
Critical (34%)	60	55	52	50	52	56	55	57	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-1c. Stanislaus River at Orange Blossom Bridge, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4.0	0.1	0.2	0.2	0.1	1.1	0.2	-0.1	-0.1	-0.2	-0.1	-0.1
20% Exceedance	3	0	0	0	0	0	-1	-1	0	0	0	0
30% Exceedance	3.4	0.2	0.2	-0.1	0.0	-0.3	-1.2	-1.4	-0.5	-0.1	0.0	-0.2
40% Exceedance	3	0	0	0	0	0	-1	-1	0	0	0	0
50% Exceedance	2	0	0	0	0	-1	0	-1	-1	0	0	0
60% Exceedance	2	0	0	0	0	0	0	0	-1	0	0	0
70% Exceedance	2	0	0	0	0	0	0	0	-2	0	0	0
80% Exceedance	2	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0.9	-0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	0.3	-0.1	0.7	-0.1
Full Simulation Period Average[a]	2.4	-0.1	0.1	0.0	-0.1	0.0	-0.3	-0.5	-0.6	-0.2	0.0	-0.2
Wet Water Years (22%)	1.0	-0.4	-0.1	-0.1	-0.3	0.5	0.3	0.3	0.7	0.2	0.4	0.0
Above Normal Years (12%)	2.3	-0.1	0.1	0.0	0.1	-0.3	0.3	0.0	-1.7	-0.6	-0.2	-0.3
Below Normal Years (15%)	2.4	0.0	0.1	0.0	0.2	-0.1	0.0	0.4	-0.7	-0.4	-0.1	-0.4
Dry Years (17%)	2.8	0.2	0.2	0.0	-0.3	-0.7	-0.9	-1.0	-1.4	-0.2	0.0	0.0
Critical (34%)	3	0	0	0	0	0	-1	-1	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-2a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-2b. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	52	53	56	57	59	63	65	64	62
20% Exceedance	57	56	52	51	52	56	56	58	63	64	63	62
30% Exceedance	56	55	52	51	51	55	55	58	62	64	63	62
40% Exceedance	55.7	54.6	51.5	50.4	50.8	54.7	55.0	57.0	61.4	63.2	62.1	60.8
50% Exceedance	55.4	54.1	51.1	49.8	50.4	54.2	54.0	55.4	60.4	62.6	61.7	60.5
60% Exceedance	54.9	53.7	50.5	49.3	50.1	53.6	52.8	54.1	58.9	62.3	61.5	60.2
70% Exceedance	54.6	53.4	50.3	49.1	49.5	52.5	52.3	53.8	58.4	62.1	61.1	59.7
80% Exceedance	54.1	53.2	50.1	48.6	49.1	51.2	51.7	53.3	57.7	61.8	60.5	59.0
90% Exceedance	53.7	52.7	49.8	48.2	48.8	50.3	51.0	52.5	54.6	60.7	57.5	54.7
Full Simulation Period Average[a]	56	54	51	50	51	54	54	56	60	63	61	60
Wet Water Years (22%)	54	53	51	50	50	52	51	53	56	62	59	56
Above Normal Years (12%)	55	54	51	50	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	55	55	57	62	63	62	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-2c. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.2	0.2	0.1	-0.4	-0.1	0.2	0.3	0.1	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.1	0.2	0.2	-0.4	-0.1	0.1	0.5	0.0	0.1	0.1	0.2
40% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.4	-0.1	-2.0	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.4	0.1	0.2	0.2	0.2	-0.1	-0.2	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.2	-0.3	0.3	0.0	0.0	1.3	0.4	-0.1	0.2
Above Normal Years (12%)	0.1	0.1	0.1	0.1	-0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.2	0.2	0.5	0.4	0.5	0.1	0.0	0.0
Dry Years (17%)	0.2	0.1	0.1	0.2	-0.5	-0.1	0.5	0.9	0.2	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	-1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-3a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-3b. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	52	53	56	57	59	63	65	64	62
20% Exceedance	57	56	52	51	52	56	56	58	63	64	63	62
30% Exceedance	56	55	52	51	51	55	55	58	62	64	63	62
40% Exceedance	55.7	54.6	51.5	50.4	50.8	54.7	55.0	57.0	61.4	63.2	62.1	60.8
50% Exceedance	55.4	54.1	51.1	49.8	50.4	54.2	54.0	55.4	60.4	62.6	61.7	60.5
60% Exceedance	54.9	53.7	50.5	49.3	50.1	53.6	52.8	54.1	58.9	62.3	61.5	60.2
70% Exceedance	54.6	53.4	50.3	49.1	49.5	52.5	52.3	53.8	58.4	62.1	61.1	59.7
80% Exceedance	54.1	53.2	50.1	48.6	49.1	51.2	51.7	53.3	57.7	61.8	60.5	59.0
90% Exceedance	53.7	52.7	49.8	48.2	48.7	50.3	51.0	52.5	54.6	60.7	57.5	54.7
Full Simulation Period Average[a]	56	54	51	50	51	54	54	56	60	63	61	60
Wet Water Years (22%)	54	53	51	50	50	52	51	53	56	62	59	56
Above Normal Years (12%)	55	54	51	50	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	55	55	57	62	63	62	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-3c. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.2	0.2	0.1	-0.4	-0.1	0.2	0.3	0.1	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.1	0.2	0.2	-0.4	-0.1	0.1	0.5	0.0	0.1	0.1	0.2
40% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.4	-0.1	-2.0	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.4	0.1	0.2	0.2	0.2	-0.1	-0.2	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.2	-0.3	0.3	0.0	0.0	1.3	0.4	-0.1	0.2
Above Normal Years (12%)	0.1	0.1	0.1	0.1	-0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.2	0.2	0.5	0.4	0.5	0.1	0.0	0.0
Dry Years (17%)	0.2	0.1	0.1	0.2	-0.5	-0.1	0.5	0.9	0.2	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	-1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-4a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-4b. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	52	53	56	57	59	63	65	64	62
20% Exceedance	57	56	52	51	52	56	56	58	63	64	63	62
30% Exceedance	56	55	52	51	51	55	55	58	62	64	63	62
40% Exceedance	55.7	54.6	51.5	50.4	50.7	54.7	55.0	57.0	61.5	63.2	62.1	60.8
50% Exceedance	55.4	54.1	51.1	49.8	50.3	54.1	54.0	55.4	60.6	62.6	61.7	60.5
60% Exceedance	55.0	53.7	50.5	49.3	50.1	53.5	52.8	54.1	58.9	62.4	61.5	60.2
70% Exceedance	54.6	53.4	50.3	49.1	49.5	52.5	52.3	53.8	58.4	62.1	61.1	59.7
80% Exceedance	54.2	53.2	50.1	48.6	49.1	51.0	51.7	53.3	57.9	61.8	60.6	59.1
90% Exceedance	53.7	52.7	49.8	48.2	48.7	50.3	51.0	52.5	54.5	60.9	57.7	54.7
Full Simulation Period Average[a]	56	54	51	50	51	54	54	56	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	52	51	53	56	61	59	56
Above Normal Years (12%)	55	54	51	50	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	55	55	57	62	63	62	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-4c. Stanislaus River at Orange Blossom Bridge, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.2	0.1	-0.4	-0.1	0.2	0.3	0.1	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.0	0.2	0.2	-0.4	-0.1	0.1	0.5	0.0	0.1	0.1	0.2
40% Exceedance	0	0	0	0	-1	0	0	1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.4	0.0	-1.7	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.4	0.0	0.2	0.2	0.3	0.0	-0.1	0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.2	-0.3	0.3	0.0	0.0	1.3	0.4	-0.1	0.1
Above Normal Years (12%)	0.1	0.0	0.1	0.1	-0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.3	0.0	0.5	0.4	0.5	0.1	0.0	0.0
Dry Years (17%)	0.2	0.1	0.1	0.1	-0.5	-0.1	0.5	0.9	0.2	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-5a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-5b. Stanislaus River at Orange Blossom Bridge, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	52	53	56	57	59	63	65	64	62
20% Exceedance	57	56	52	51	52	56	56	58	63	64	63	62
30% Exceedance	56	55	52	51	51	55	55	58	62	64	63	62
40% Exceedance	55.7	54.6	51.5	50.4	50.7	54.7	55.0	57.0	61.5	63.2	62.1	60.8
50% Exceedance	55.4	54.1	51.1	49.8	50.3	54.1	54.0	55.4	60.6	62.6	61.7	60.5
60% Exceedance	55.0	53.7	50.5	49.3	50.1	53.5	52.8	54.1	58.9	62.4	61.5	60.2
70% Exceedance	54.6	53.4	50.3	49.1	49.5	52.5	52.3	53.8	58.4	62.1	61.1	59.7
80% Exceedance	54.2	53.2	50.1	48.6	49.1	51.0	51.7	53.3	57.9	61.8	60.6	59.1
90% Exceedance	53.7	52.7	49.8	48.2	48.7	50.3	51.0	52.5	54.6	60.9	57.6	54.7
Full Simulation Period Average[a]	56	54	51	50	51	54	54	56	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	52	51	53	56	62	59	56
Above Normal Years (12%)	55	54	51	50	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	55	55	57	62	63	62	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-5c. Stanislaus River at Orange Blossom Bridge, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.2	0.2	0.1	-0.4	-0.1	0.2	0.3	0.1	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.1	0.2	0.2	-0.4	-0.1	0.1	0.5	0.0	0.1	0.1	0.2
40% Exceedance	0	0	0	0	-1	0	0	1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.4	0.0	-1.9	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.4	0.0	0.2	0.2	0.3	0.0	-0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.2	-0.3	0.3	0.0	0.0	1.3	0.4	-0.1	0.2
Above Normal Years (12%)	0.1	0.0	0.1	0.1	-0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.3	0.0	0.5	0.4	0.5	0.1	0.0	0.0
Dry Years (17%)	0.2	0.1	0.1	0.1	-0.5	-0.1	0.5	0.9	0.2	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-6a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-6b. Stanislaus River at Orange Blossom Bridge, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	51	53	56	56	59	63	65	64	62
20% Exceedance	57	55	52	51	52	56	56	58	62	64	63	62
30% Exceedance	56	55	52	51	52	55	55	58	62	64	63	61
40% Exceedance	55.8	54.7	51.4	50.2	50.8	54.1	53.9	55.8	61.2	63.2	62.2	60.8
50% Exceedance	55.4	54.1	51.1	49.7	50.5	53.0	52.9	54.5	59.6	62.7	61.9	60.6
60% Exceedance	55.1	53.8	50.5	49.3	50.0	51.6	52.3	53.7	58.7	62.3	61.7	60.3
70% Exceedance	54.5	53.6	50.3	49.1	49.7	51.1	51.7	53.3	57.7	62.0	61.3	59.9
80% Exceedance	54.2	53.2	50.1	48.7	49.3	50.5	51.3	52.8	55.5	61.8	61.1	59.4
90% Exceedance	53.7	52.9	49.8	48.2	48.5	49.9	50.8	52.3	53.7	60.9	60.5	57.9
Full Simulation Period Average[a]	56	54	51	50	51	53	53	55	59	63	62	60
Wet Water Years (22%)	54	53	51	50	49	51	51	53	54	61	60	57
Above Normal Years (12%)	55	54	51	50	50	52	52	53	58	62	62	60
Below Normal Years (15%)	55	54	51	50	50	52	52	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	53	54	56	61	63	63	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-6c. Stanislaus River at Orange Blossom Bridge, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.4	0.1	0.1	0.0	-0.1	0.0	-0.1	0.3	0.2	0.0	0.1	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.0	0.2	-0.1	-0.2	-0.4	-0.1	0.3	-0.3	0.1	0.2	0.1
40% Exceedance	0	0	0	0	-1	-1	-1	-1	0	0	0	0
50% Exceedance	0	0	0	0	0	-1	-1	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	-2	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	-1	0	0	-1	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	1	1
90% Exceedance	0.2	0.1	0.0	0.0	-0.3	-0.4	-0.3	-0.2	-0.4	0.1	1.0	2.8
Full Simulation Period Average[a]	0.0	0.0	0.0	0.0	-0.3	-0.6	-0.2	-0.2	-0.4	0.1	0.3	0.3
Wet Water Years (22%)	0.1	0.0	0.1	0.0	-0.6	-0.8	-0.2	-0.2	-0.1	0.2	1.3	1.0
Above Normal Years (12%)	0.0	0.1	0.1	0.1	0.2	-0.1	0.1	-0.2	-0.9	-0.1	0.1	0.2
Below Normal Years (15%)	0.1	0.0	0.0	0.1	-0.4	-0.7	-0.2	0.2	0.1	0.0	0.1	0.1
Dry Years (17%)	0.3	0.1	0.1	0.1	-0.5	-1.6	-0.9	-0.4	-1.0	0.1	0.2	0.2
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-7a. Stanislaus River at Orange Blossom Bridge, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	57.3	56.0	52.7	51.5	53.1	56.3	56.3	58.3	62.8	64.8	63.9	62.3
20% Exceedance	56.8	55.4	52.2	51.0	52.5	55.9	55.9	57.8	62.5	64.1	63.0	61.6
30% Exceedance	56.2	54.9	51.7	50.7	51.7	55.3	55.3	57.2	61.9	63.5	62.4	61.3
40% Exceedance	55.7	54.4	51.3	50.1	51.3	54.7	54.6	56.5	61.4	63.2	62.1	60.8
50% Exceedance	55	54	51	50	51	54	54	55	61	63	62	60
60% Exceedance	55	54	51	49	50	53	53	54	59	62	62	60
70% Exceedance	55	53	50	49	50	52	52	54	58	62	61	60
80% Exceedance	54	53	50	49	50	51	52	53	56	62	61	59
90% Exceedance	54	53	50	48	49	50	51	53	54	61	59	55
Full Simulation Period Average[a]	56	54	51	50	51	54	54	55	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	51	51	53	54	61	59	56
Above Normal Years (12%)	55	54	51	49	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	62	62	60
Dry Years (17%)	55.8	54.6	51.4	50.2	51.5	54.8	54.6	56.1	61.7	63.3	62.4	60.9
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-7b. Stanislaus River at Orange Blossom Bridge, Alternative 4, Monthly Temperature (°F)

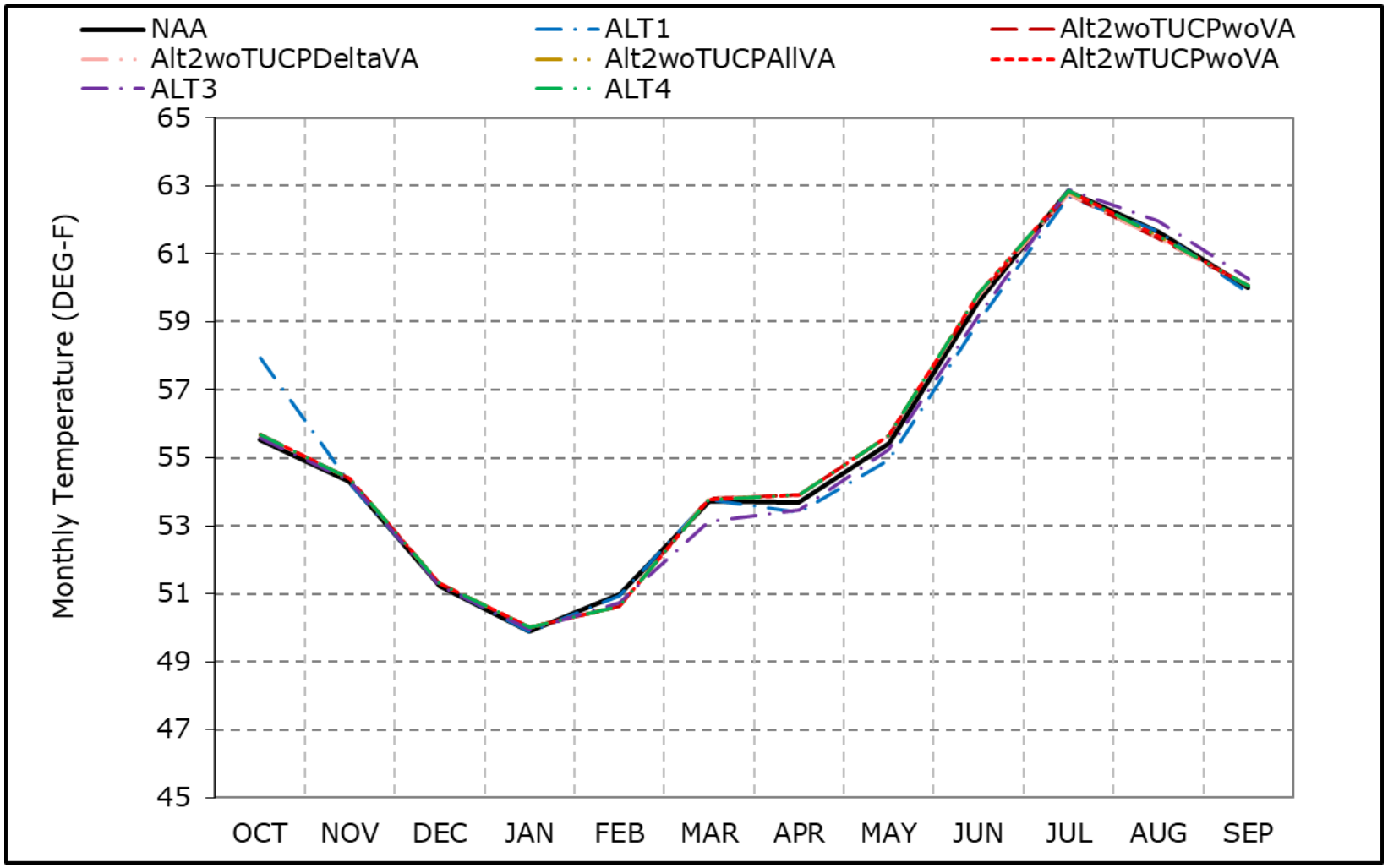
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	58	56	53	52	53	56	57	59	63	65	64	62
20% Exceedance	57	56	52	51	52	56	56	58	63	64	63	62
30% Exceedance	56	55	52	51	51	55	55	58	62	64	63	62
40% Exceedance	55.7	54.6	51.5	50.4	50.7	54.7	55.0	57.0	61.5	63.2	62.1	60.8
50% Exceedance	55.4	54.1	51.1	49.8	50.3	54.1	54.0	55.4	60.6	62.6	61.7	60.5
60% Exceedance	55.0	53.7	50.5	49.3	50.1	53.5	52.8	54.1	58.9	62.4	61.5	60.2
70% Exceedance	54.6	53.4	50.3	49.1	49.5	52.5	52.3	53.8	58.4	62.1	61.1	59.7
80% Exceedance	54.2	53.2	50.1	48.6	49.1	51.0	51.7	53.3	57.9	61.8	60.6	59.1
90% Exceedance	53.7	52.7	49.8	48.2	48.8	50.3	51.0	52.5	54.6	60.9	57.6	54.7
Full Simulation Period Average[a]	56	54	51	50	51	54	54	56	60	63	62	60
Wet Water Years (22%)	54	53	51	50	50	52	51	53	56	62	59	56
Above Normal Years (12%)	55	54	51	50	50	52	52	54	59	62	62	60
Below Normal Years (15%)	55	54	51	50	50	53	53	54	59	63	62	60
Dry Years (17%)	56	55	51	50	51	55	55	57	62	63	62	61
Critical (34%)	57	55	52	50	52	56	56	58	62	64	63	62

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-19-7c. Stanislaus River at Orange Blossom Bridge, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

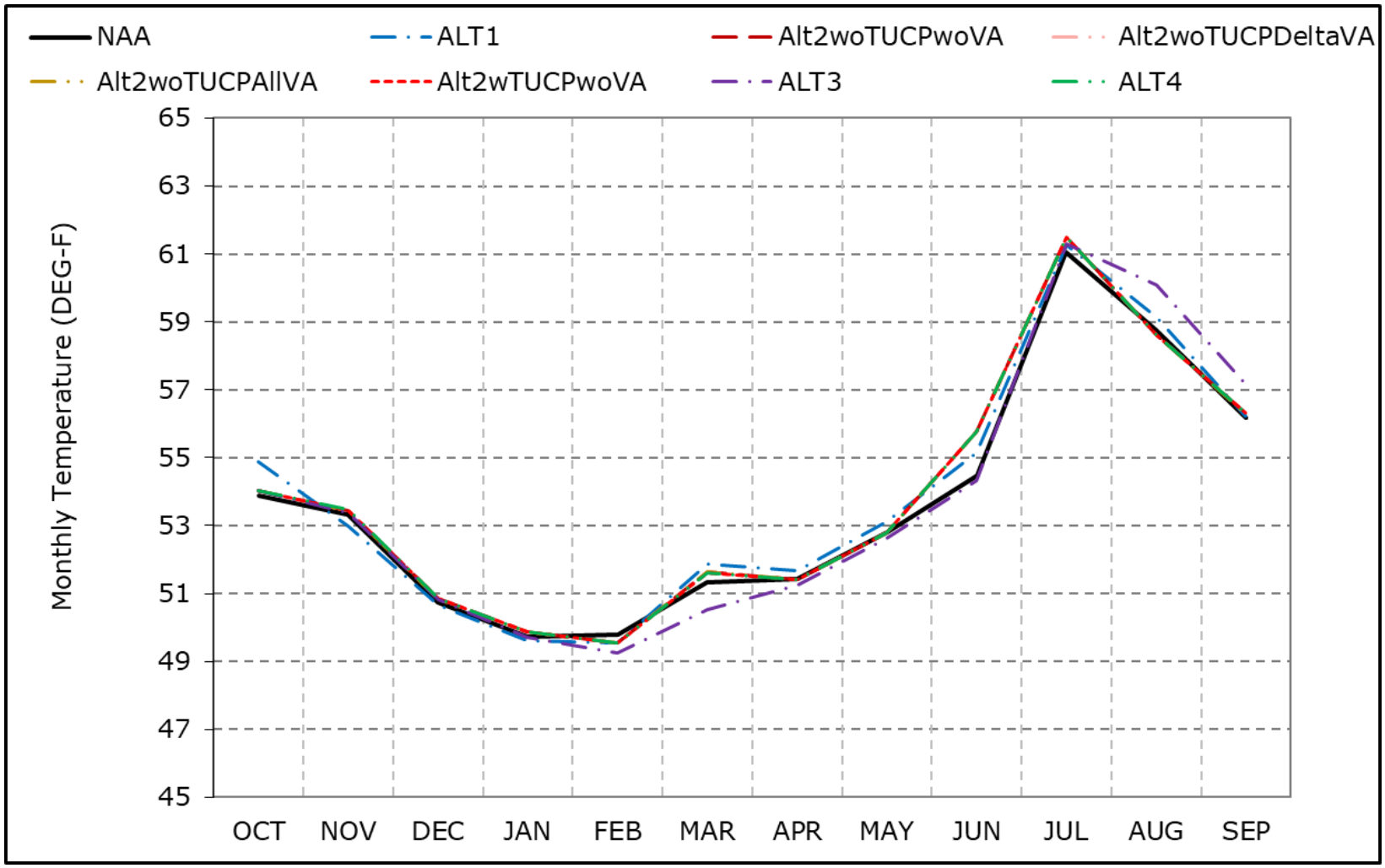
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.3	0.2	0.2	0.1	-0.4	-0.1	0.2	0.3	0.1	0.1	0.0	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.1	0.2	0.2	-0.4	-0.1	0.1	0.5	0.0	0.1	0.1	0.2
40% Exceedance	0	0	0	0	-1	0	0	1	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.4	0.0	-1.9	-0.4
Full Simulation Period Average[a]	0.1	0.1	0.1	0.1	-0.4	0.0	0.2	0.2	0.3	0.0	-0.1	0.1
Wet Water Years (22%)	0.2	0.1	0.1	0.2	-0.3	0.3	0.0	0.0	1.3	0.4	-0.1	0.2
Above Normal Years (12%)	0.1	0.0	0.1	0.1	-0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.3	0.0	0.5	0.4	0.5	0.1	0.0	0.0
Dry Years (17%)	0.2	0.1	0.1	0.1	-0.5	-0.1	0.5	0.9	0.2	0.1	0.1	0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



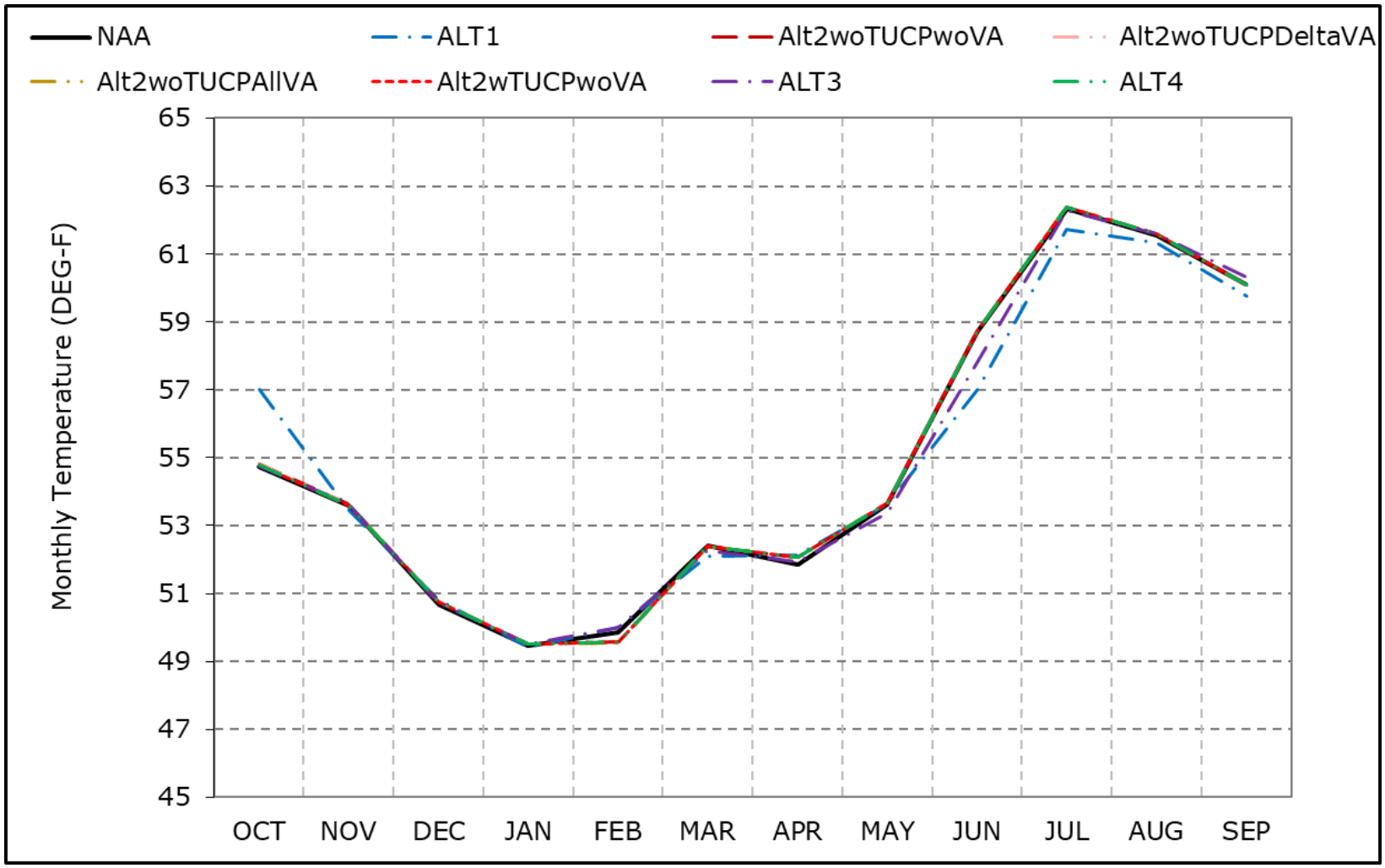
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-1. Stanislaus River at Orange Blossom Bridge, Long-Term Average Temperature



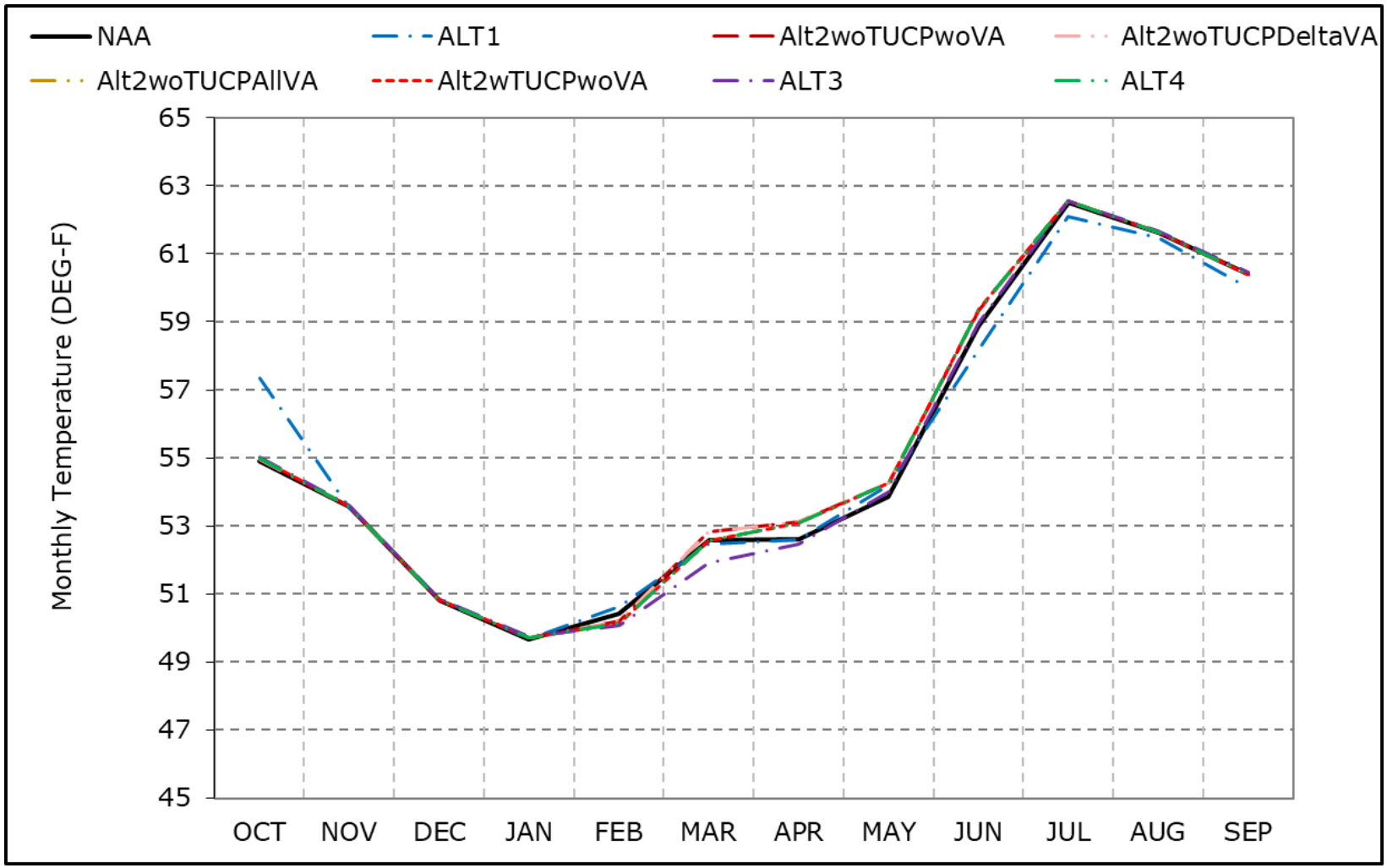
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-2. Stanislaus River at Orange Blossom Bridge, Wet Year Average Temperature



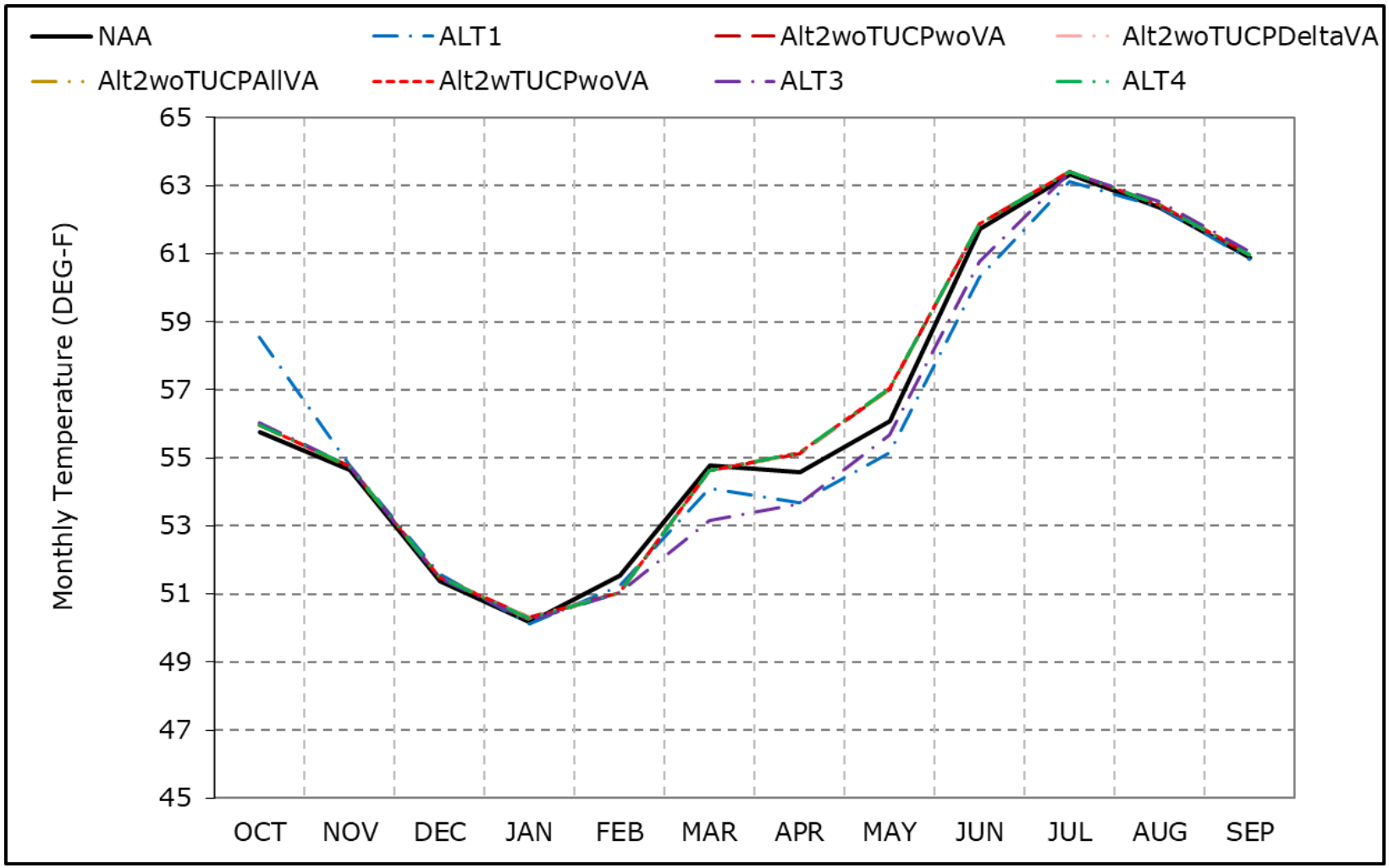
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-3. Stanislaus River at Orange Blossom Bridge, Above Normal Year Average Temperature



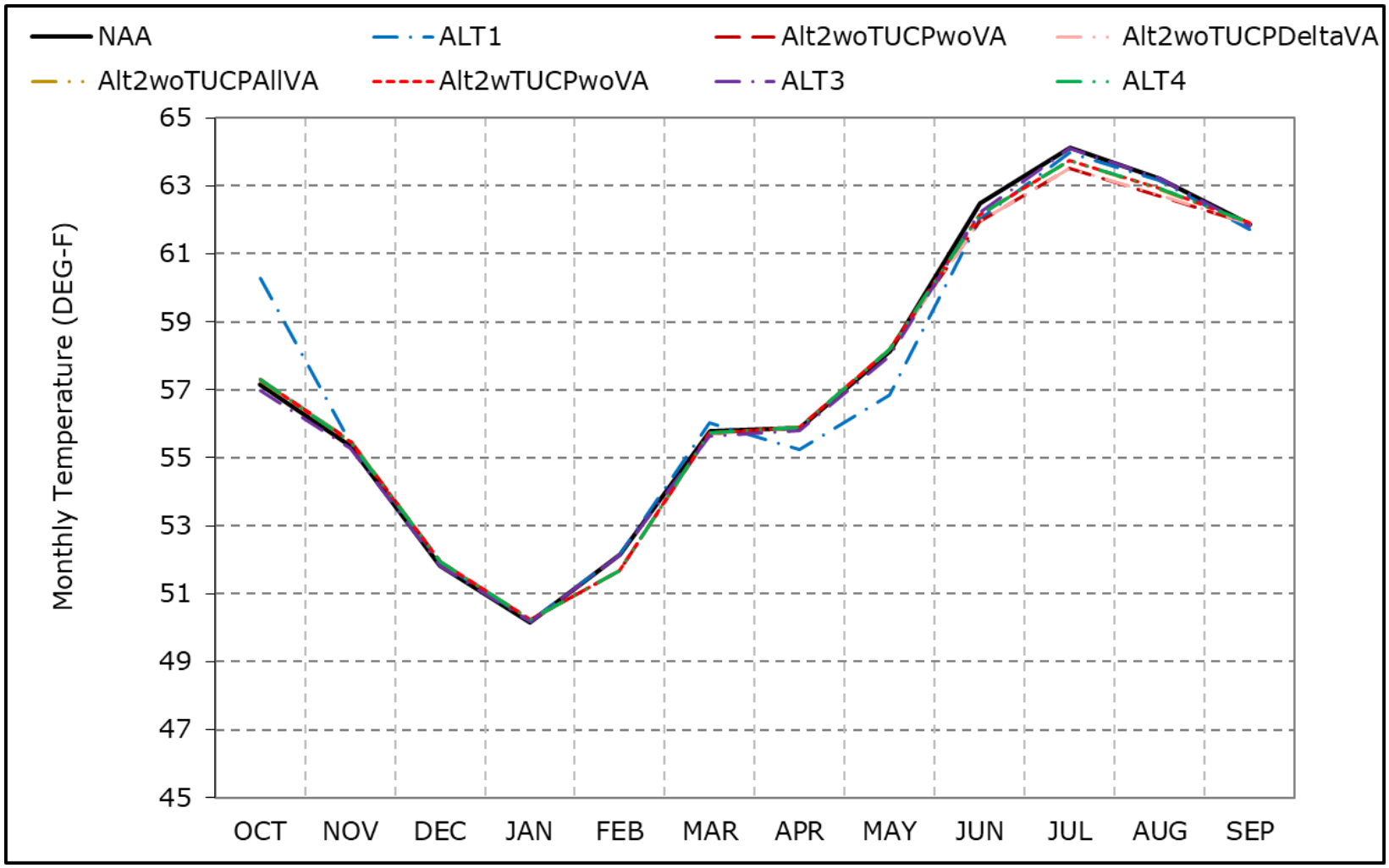
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-4. Stanislaus River at Orange Blossom Bridge, Below Normal Year Average Temperature



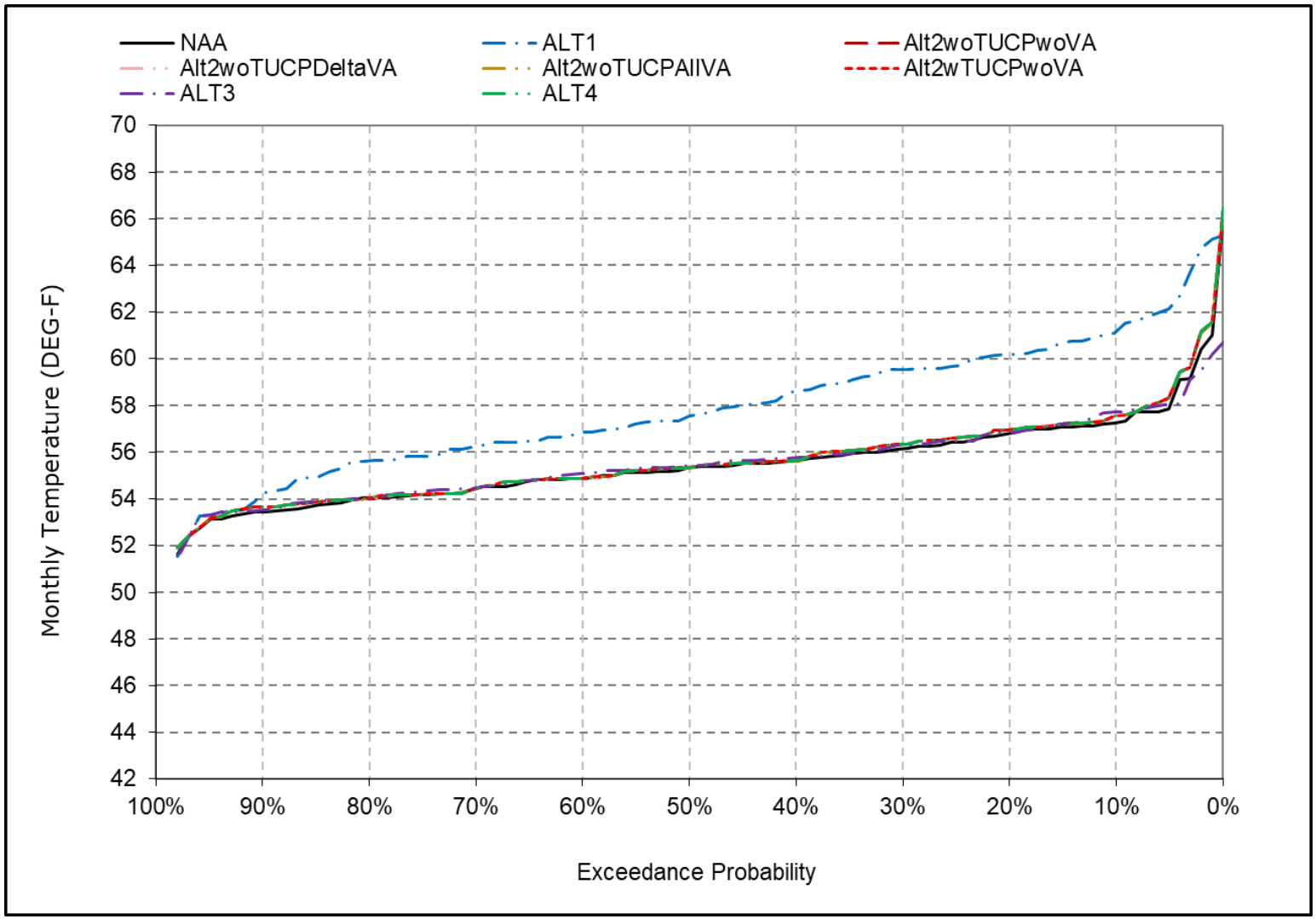
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-5. Stanislaus River at Orange Blossom Bridge, Dry Year Average Temperature



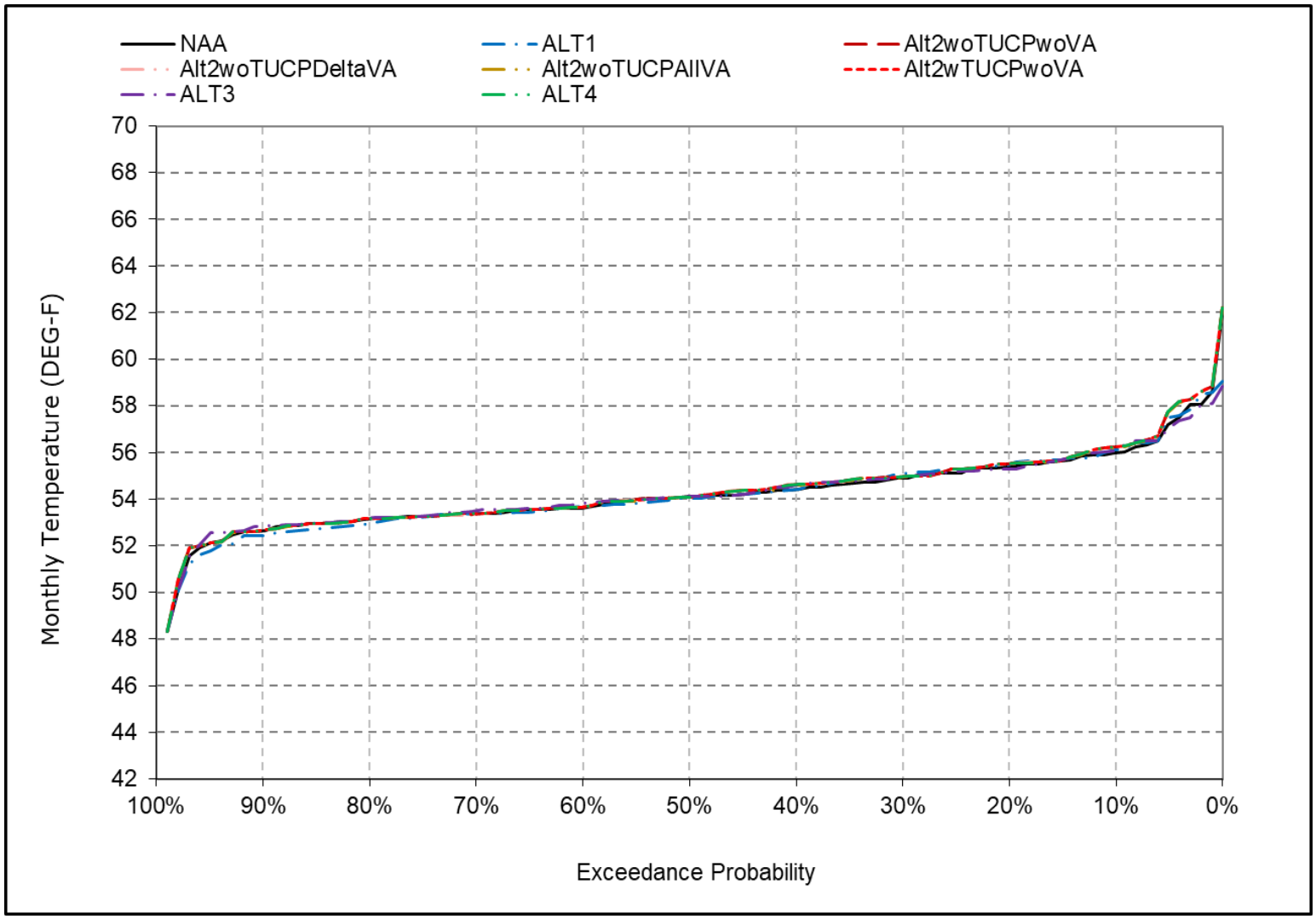
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-6. Stanislaus River at Orange Blossom Bridge, Critical Year Average Temperature



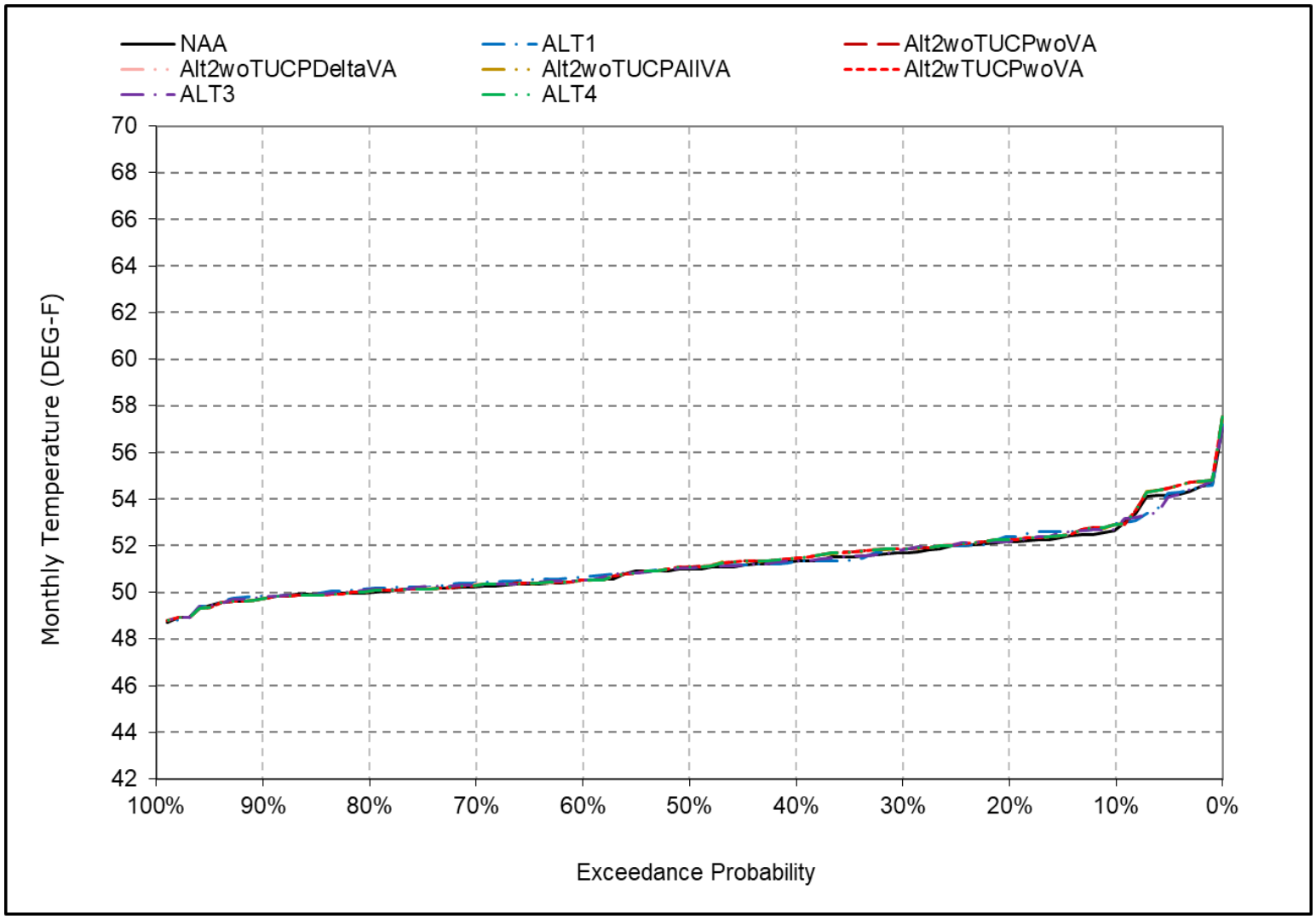
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-7. Stanislaus River at Orange Blossom Bridge, October



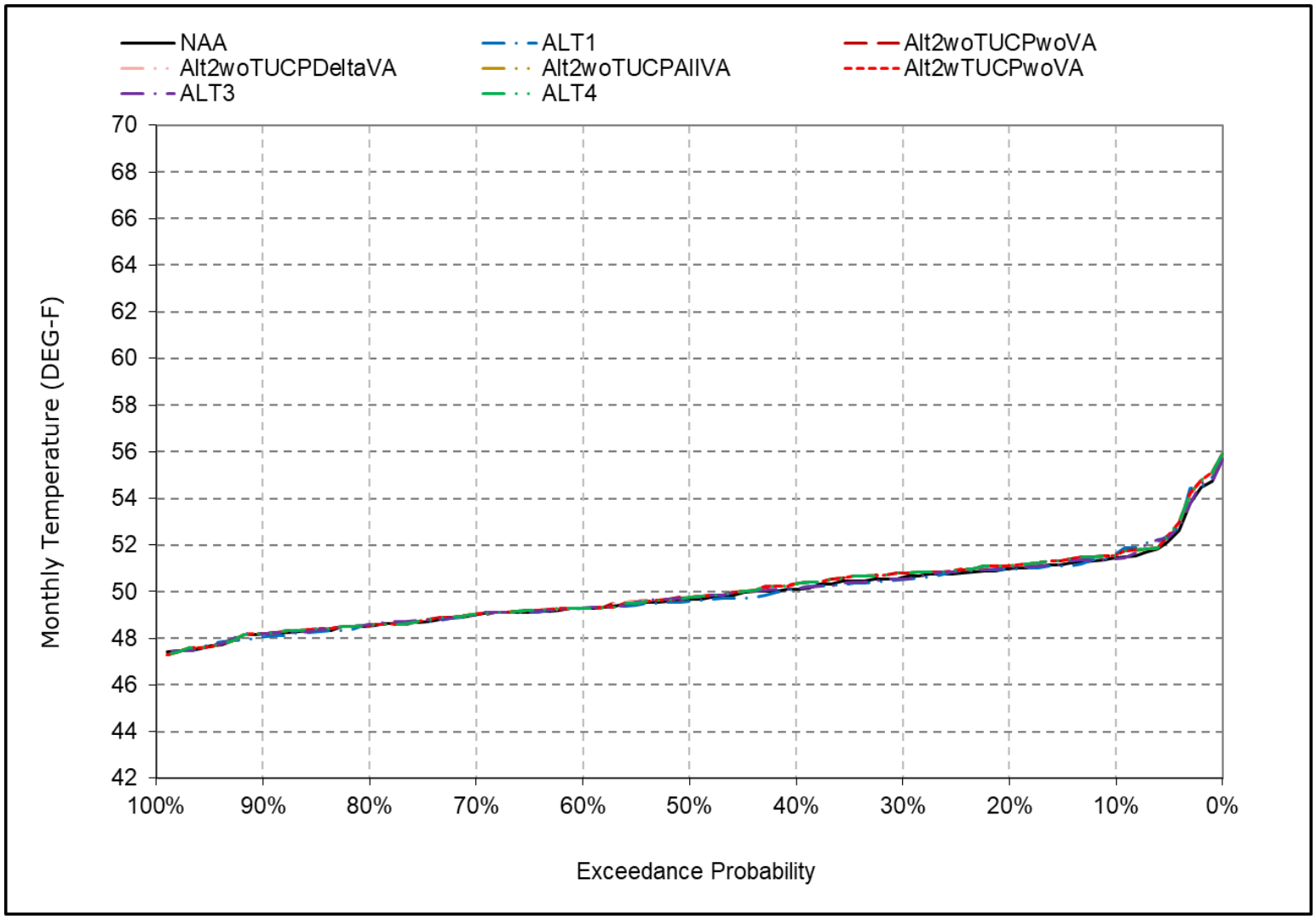
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-8. Stanislaus River at Orange Blossom Bridge, November



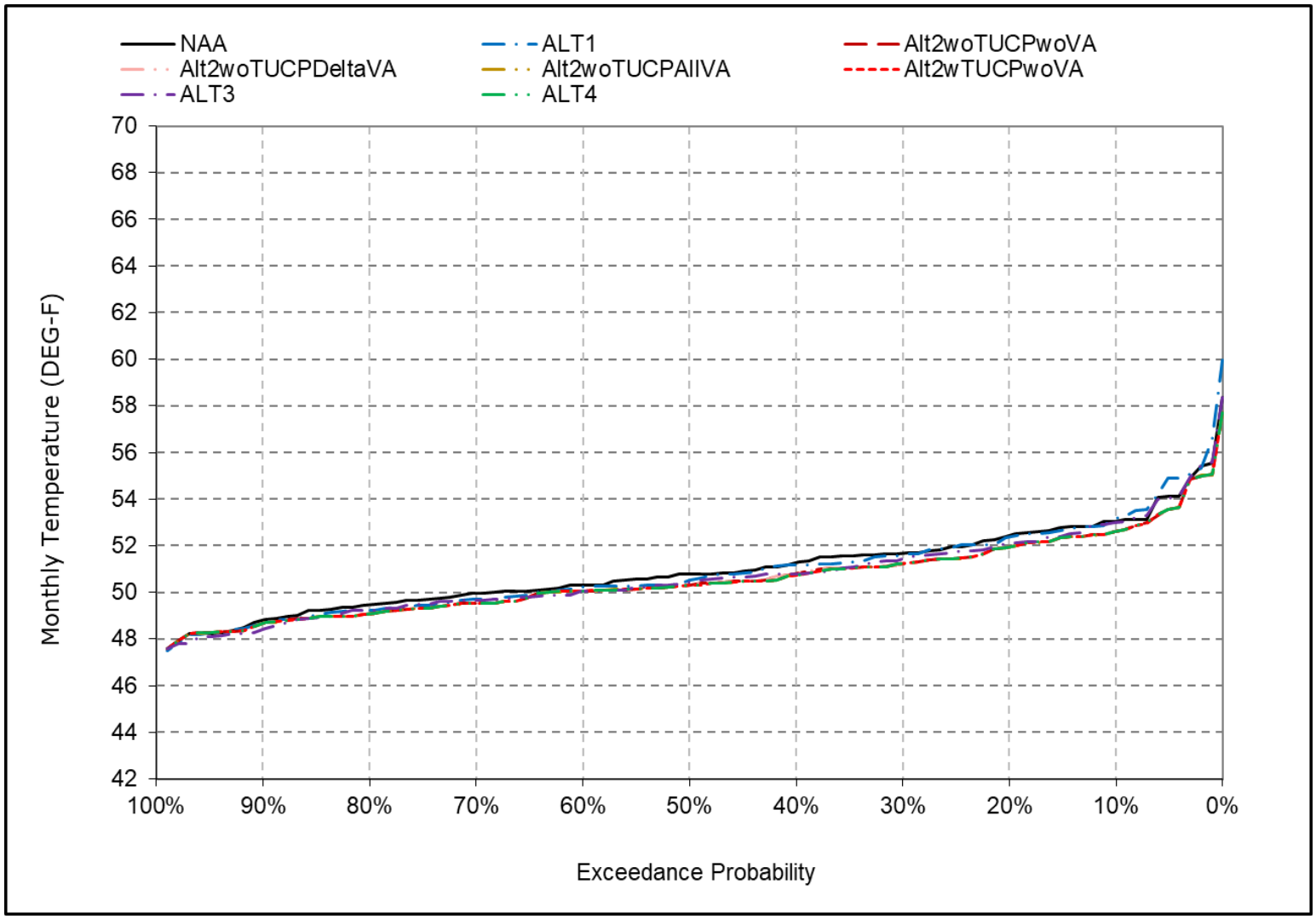
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-9. Stanislaus River at Orange Blossom Bridge, December



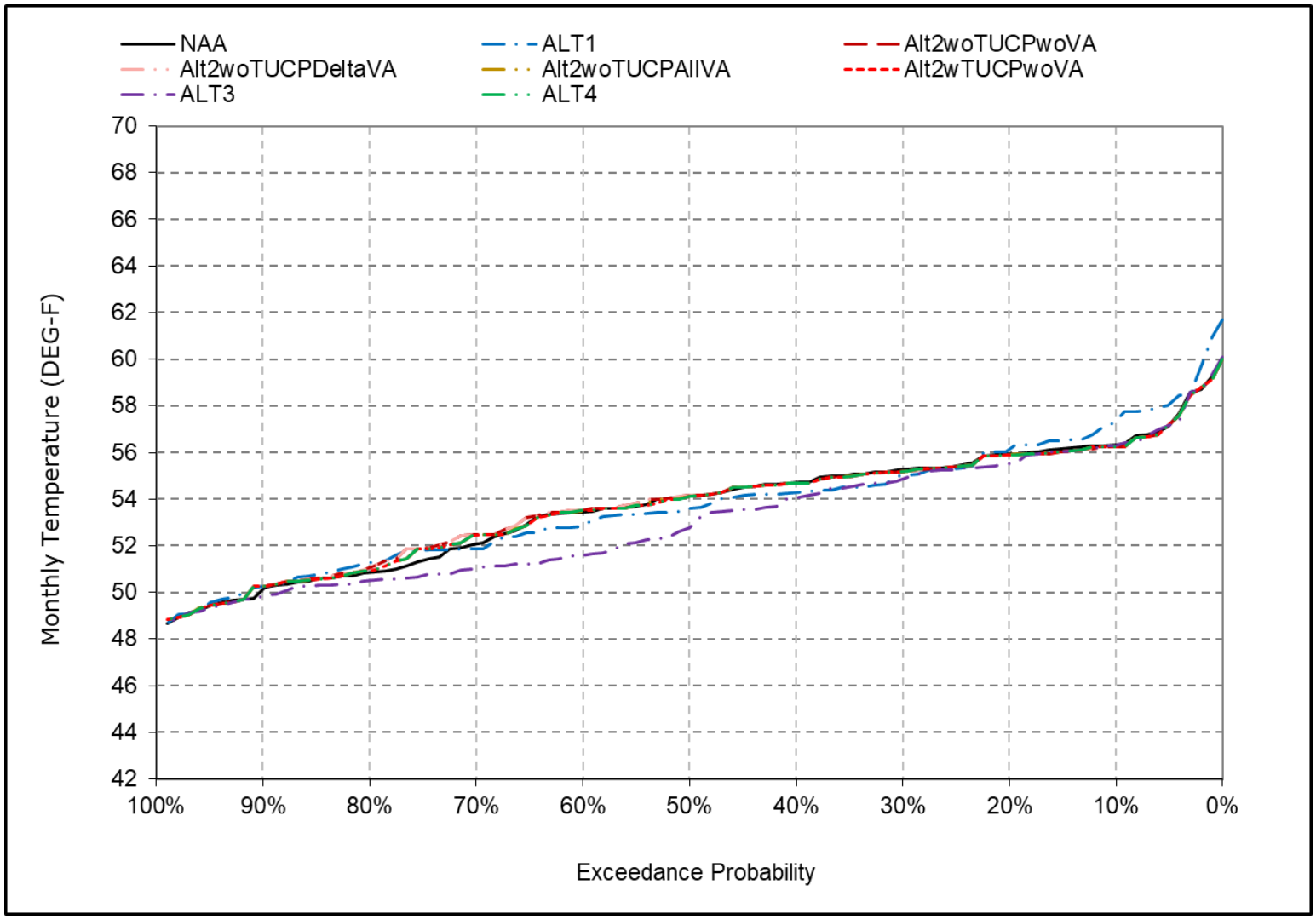
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-10. Stanislaus River at Orange Blossom Bridge, January



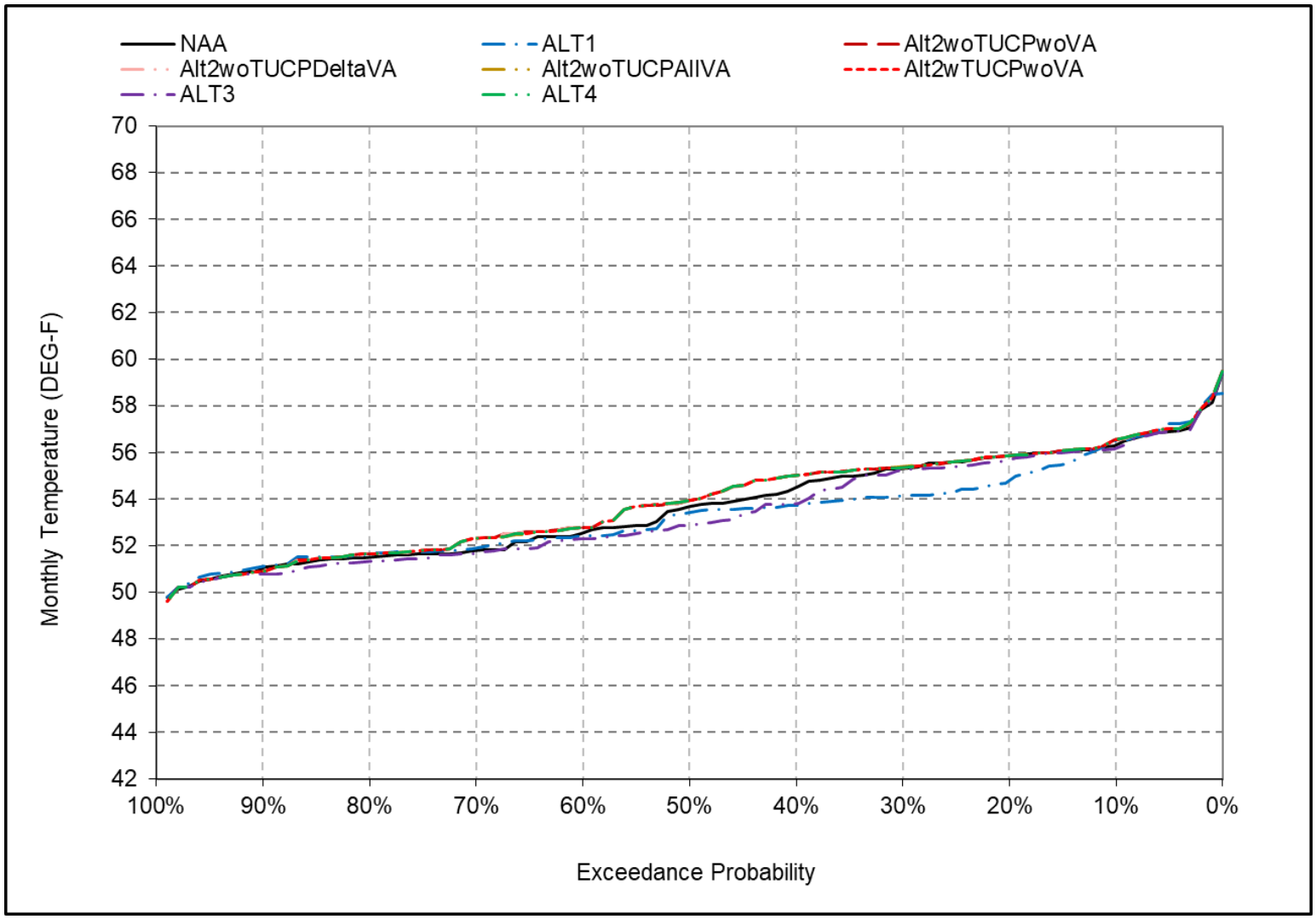
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-11. Stanislaus River at Orange Blossom Bridge, February



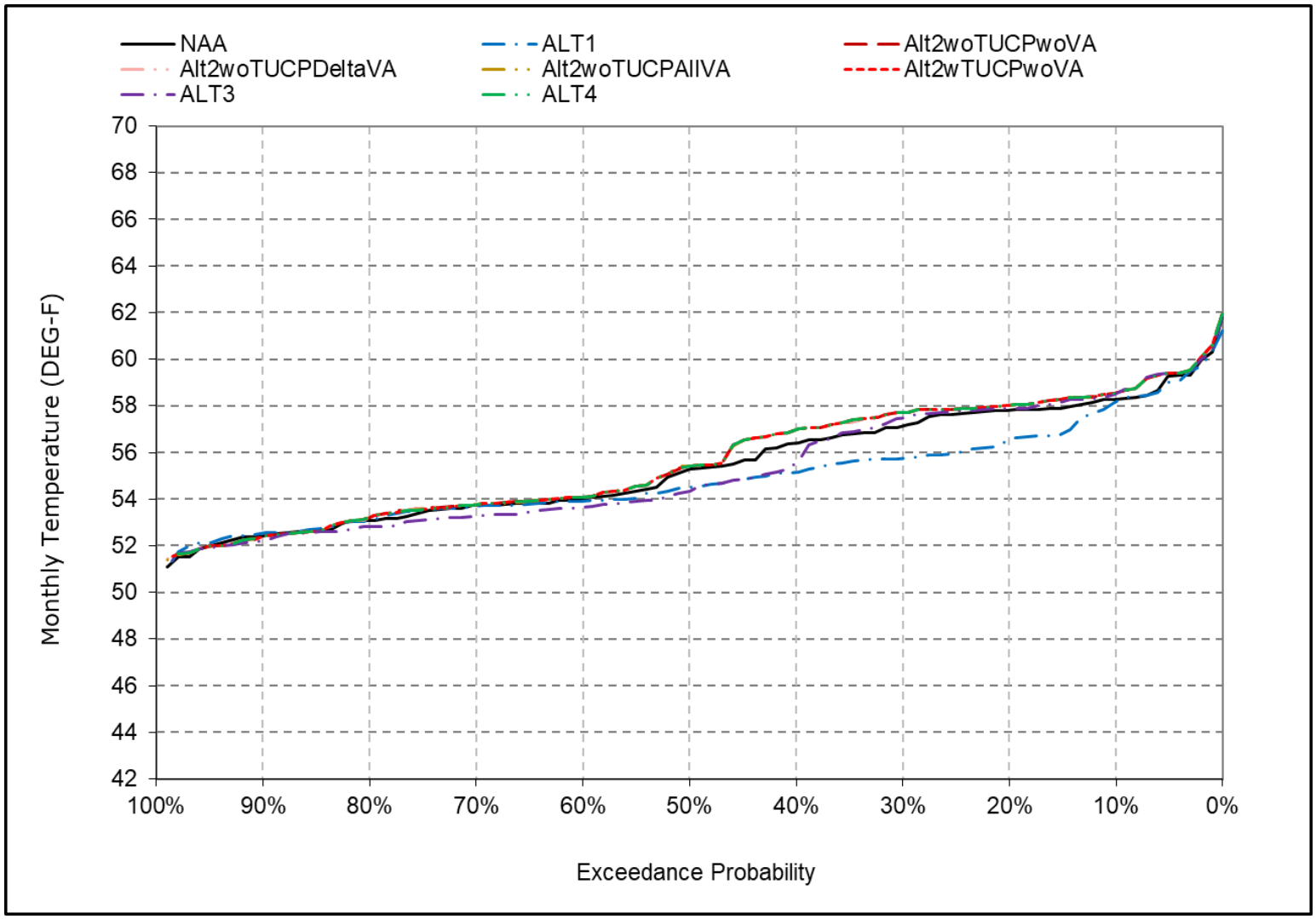
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-12. Stanislaus River at Orange Blossom Bridge, March



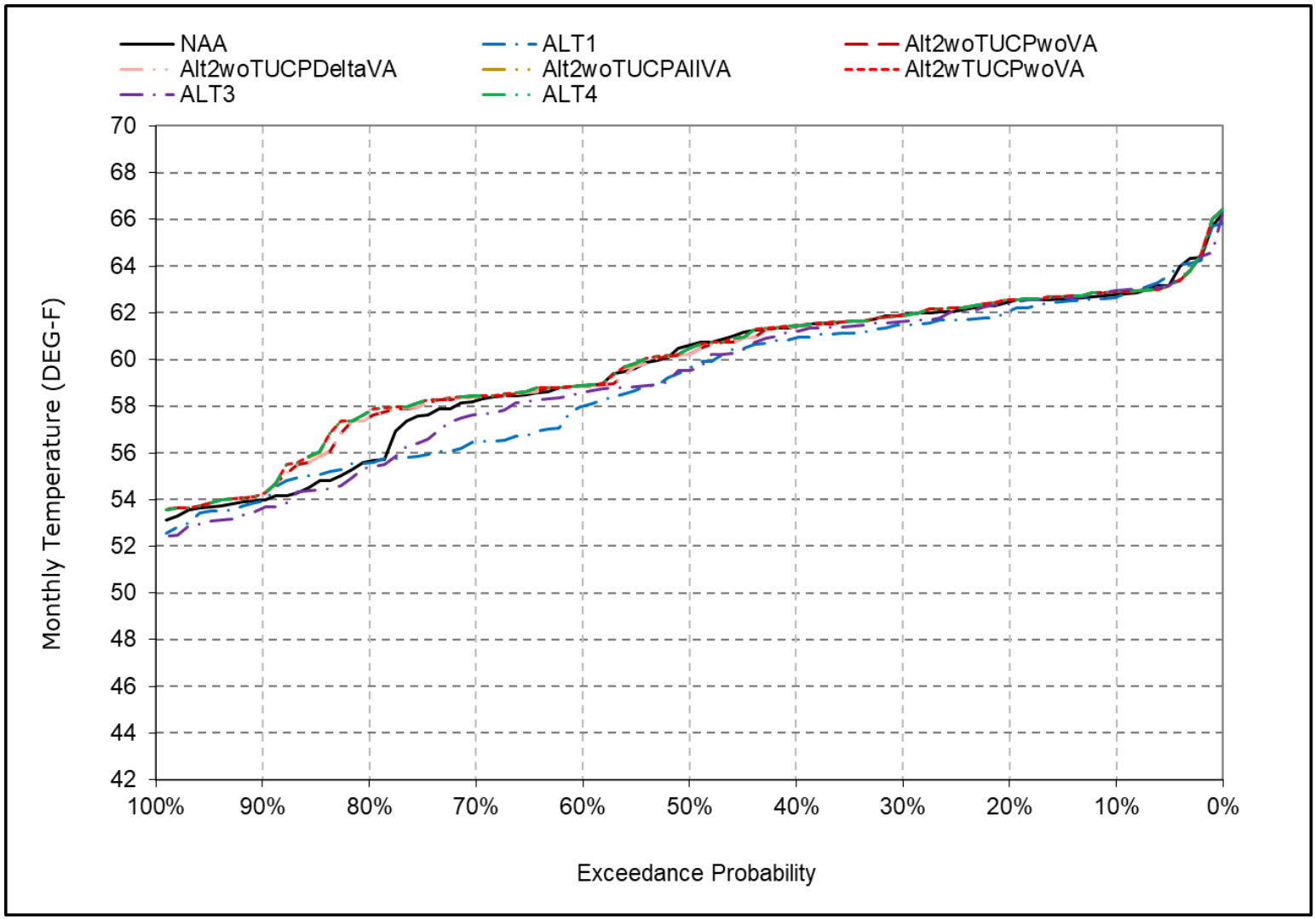
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-13. Stanislaus River at Orange Blossom Bridge, April



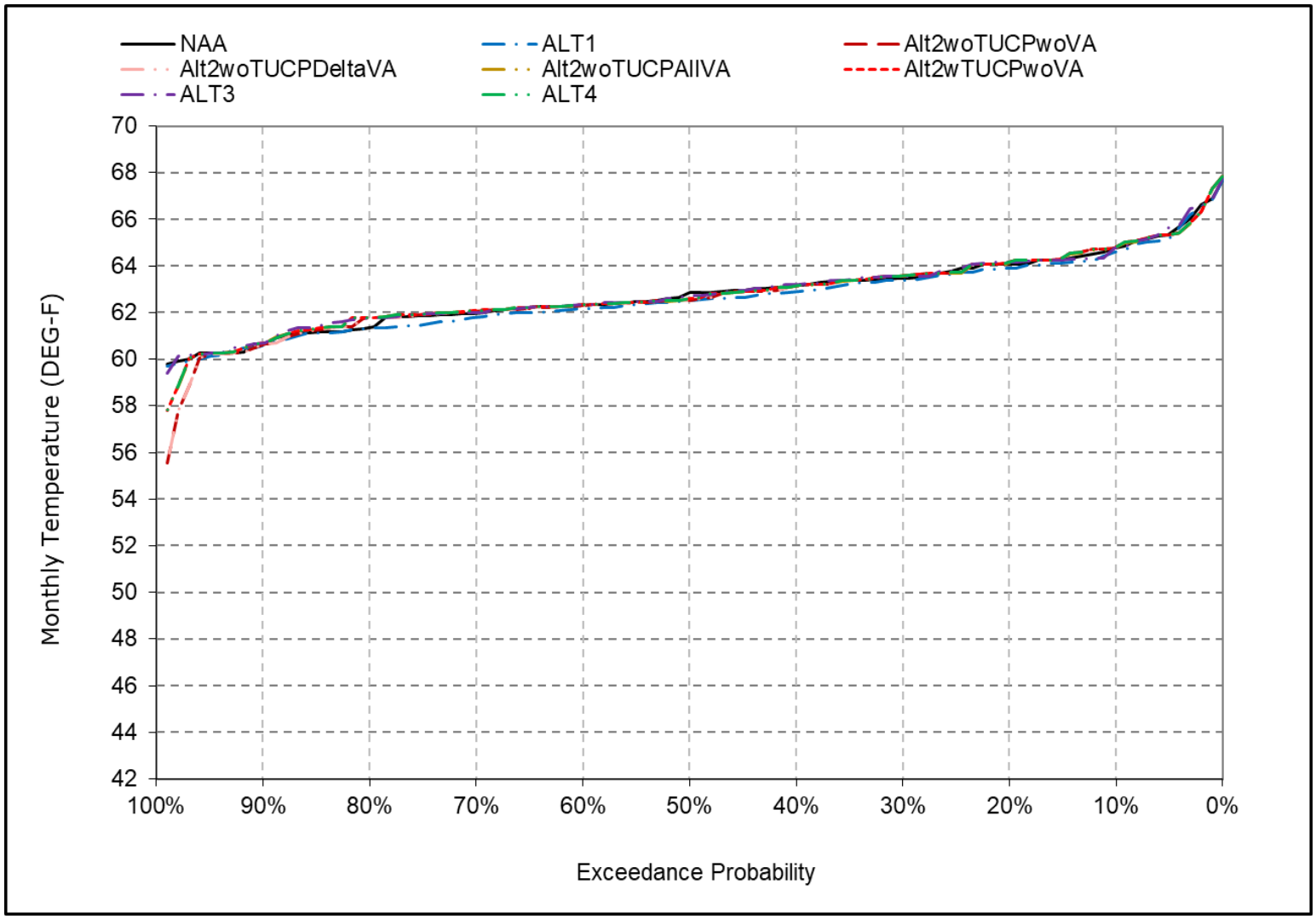
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-14. Stanislaus River at Orange Blossom Bridge, May



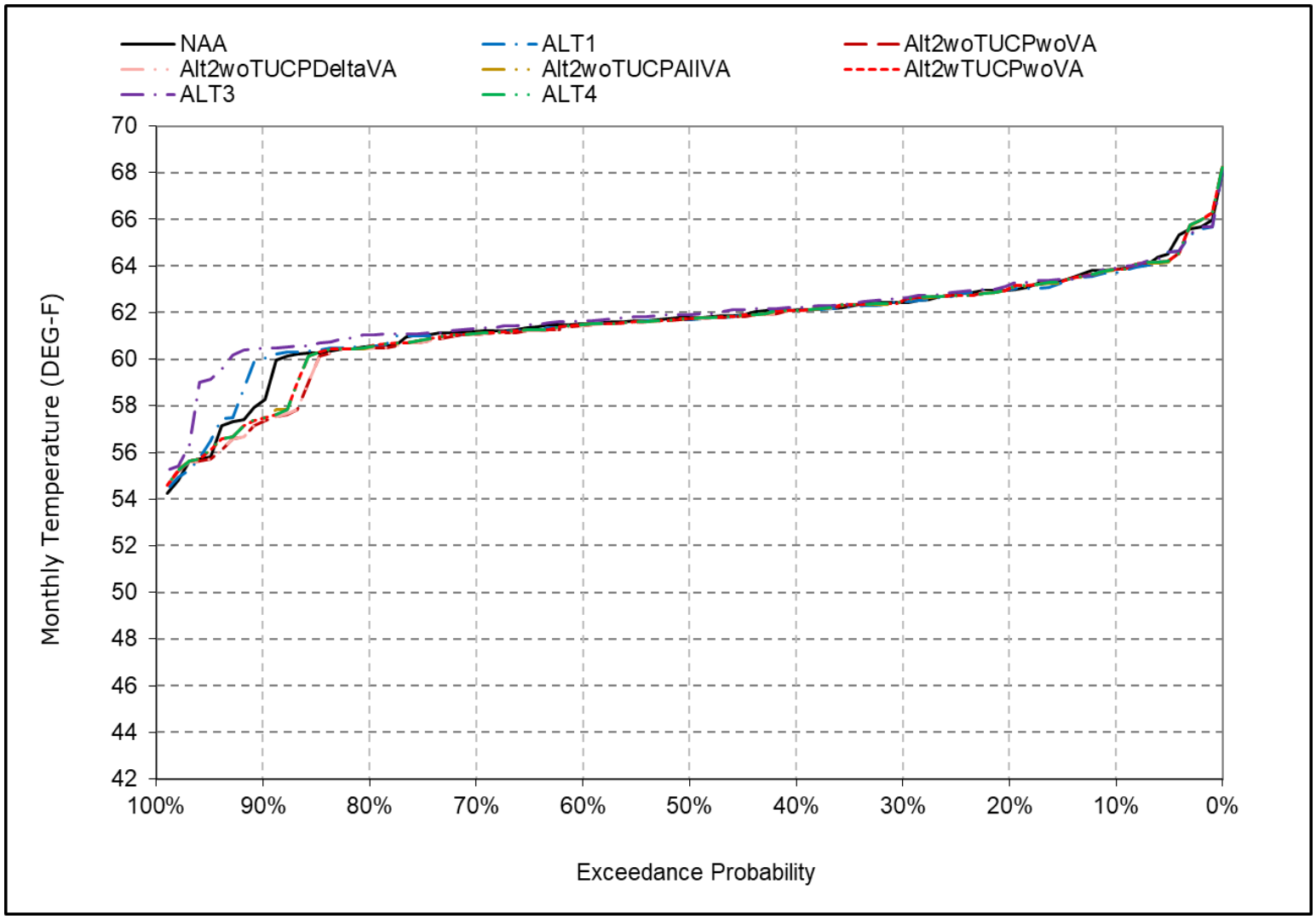
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-15. Stanislaus River at Orange Blossom Bridge, June



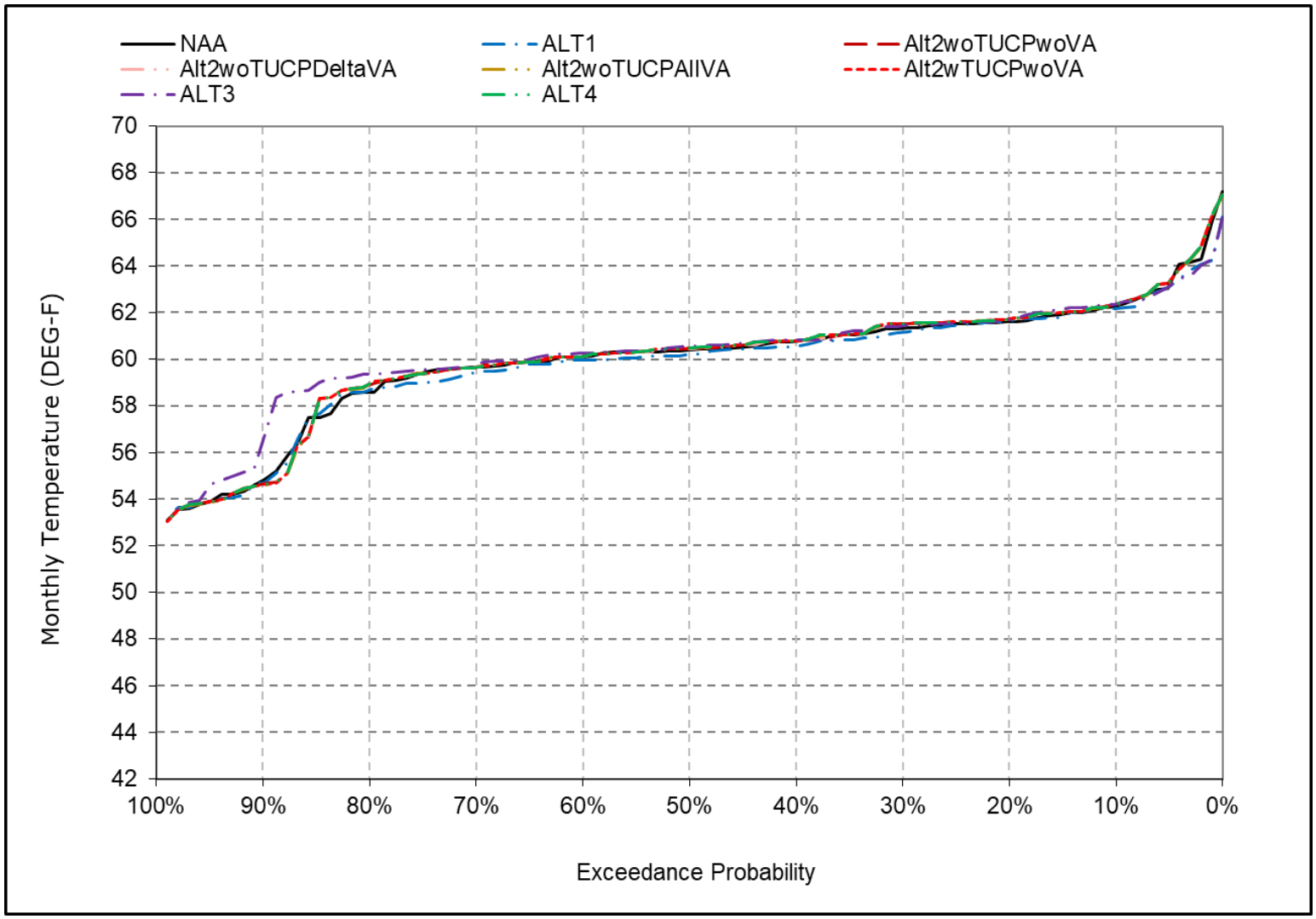
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-16. Stanislaus River at Orange Blossom Bridge, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-17. Stanislaus River at Orange Blossom Bridge, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-19-18. Stanislaus River at Orange Blossom Bridge, September

Table F.2.11-20-1a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-1b. Stanislaus River at Mouth, Alternative 1, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	66	58	52	52	56	62	63	65	72	76	74	71
20% Exceedance	65	58	52	52	54	60	61	64	70	75	74	71
30% Exceedance	64	57	51	51	54	59	60	63	70	74	74	70
40% Exceedance	63.7	56.3	50.8	50.5	53.4	58.5	59.0	61.7	69.1	73.8	73.0	69.9
50% Exceedance	62.9	55.7	50.5	50.1	52.4	57.8	58.4	60.6	68.1	73.4	72.8	69.4
60% Exceedance	62.5	55.4	50.1	49.7	52.0	57.1	57.1	59.8	66.9	73.0	72.5	68.8
70% Exceedance	61.9	55.1	49.9	49.3	51.4	56.1	56.5	59.5	65.5	72.3	72.2	68.2
80% Exceedance	61.4	54.7	49.5	49.0	50.9	54.6	55.8	58.6	64.1	71.5	71.8	67.7
90% Exceedance	59.6	54.0	49.2	48.7	50.2	53.0	55.2	57.6	62.0	70.8	70.9	62.3
Full Simulation Period Average[a]	63	56	51	50	53	57	59	61	67	73	72	69
Wet Water Years (22%)	60	55	51	50	51	55	56	58	63	71	70	64
Above Normal Years (12%)	63	55	50	50	52	56	56	59	65	72	73	70
Below Normal Years (15%)	63	55	51	50	52	56	57	60	67	73	73	69
Dry Years (17%)	64	57	51	51	53	58	59	62	69	74	73	70
Critical (34%)	65	57	51	50	54	60	62	64	71	75	74	70

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-1c. Stanislaus River at Mouth, Alternative 1 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3.2	0.4	0.1	-0.5	-0.1	-0.1	-0.2	-1.0	-0.2	-0.8	-0.9	-0.5
20% Exceedance	3	1	0	0	0	0	-1	-2	-1	-1	-1	-1
30% Exceedance	2.5	0.5	0.0	-0.1	-0.2	-0.2	-1.8	-2.0	-1.1	-0.7	-0.3	-0.4
40% Exceedance	3	0	0	0	0	-1	-2	-2	-1	-1	-1	0
50% Exceedance	2	0	0	0	0	-1	0	-1	-1	-1	-1	-1
60% Exceedance	2	0	0	0	0	0	0	0	-1	0	0	-1
70% Exceedance	2	0	0	0	-1	1	0	0	-1	-1	0	0
80% Exceedance	2	0	0	0	0	1	0	0	0	-1	0	0
90% Exceedance	1.2	0.1	0.1	0.1	0.0	0.6	0.2	-0.1	-0.4	0.0	0.5	0.6
Full Simulation Period Average[a]	2.2	0.3	0.0	0.0	-0.2	-0.2	-0.5	-0.8	-1.0	-0.6	-0.4	-0.4
Wet Water Years (22%)	1.3	-0.1	-0.1	-0.1	-0.5	0.5	0.3	0.6	0.4	0.2	0.4	0.0
Above Normal Years (12%)	2.6	0.3	0.1	-0.1	0.0	-0.1	0.4	-0.2	-2.2	-1.1	-0.6	-0.6
Below Normal Years (15%)	2.6	0.4	0.0	0.0	0.2	-0.2	0.0	0.4	-0.9	-0.7	-0.5	-0.6
Dry Years (17%)	2.5	0.5	0.1	-0.1	-0.4	-0.8	-1.8	-1.9	-1.7	-0.9	-0.5	-0.4
Critical (34%)	2	1	0	0	0	0	-1	-2	-1	-1	-1	-1

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-2a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-2b. Stanislaus River at Mouth, Alt2woTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	55	61	64	67	72	76	75	72
20% Exceedance	62	57	52	52	55	60	63	66	71	75	74	71
30% Exceedance	62	56	51	51	54	60	62	65	71	75	74	70
40% Exceedance	61.0	55.9	50.9	50.7	53.1	59.0	61.5	64.1	70.4	74.4	73.6	70.2
50% Exceedance	60.7	55.5	50.5	50.3	52.5	58.3	59.2	62.0	69.0	74.0	73.2	70.0
60% Exceedance	60.2	55.3	50.0	49.8	52.0	57.6	58.5	60.5	68.3	73.4	72.8	69.6
70% Exceedance	59.6	54.7	49.9	49.3	51.7	56.4	57.1	59.7	67.3	73.0	72.3	68.5
80% Exceedance	59.3	54.3	49.4	49.1	51.3	54.3	55.7	58.9	66.3	72.7	71.9	68.0
90% Exceedance	58.6	53.9	49.1	48.6	50.2	52.5	55.0	57.5	63.1	70.8	67.7	61.3
Full Simulation Period Average[a]	61	56	51	51	53	58	59	62	69	74	72	69
Wet Water Years (22%)	59	55	51	51	51	55	56	58	64	72	69	64
Above Normal Years (12%)	60	55	50	50	51	56	56	60	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	58	61	68	74	73	70
Dry Years (17%)	61	56	51	51	53	59	61	65	71	75	74	70
Critical (34%)	62	56	51	50	54	60	63	66	71	75	73	70

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-2c. Stanislaus River at Mouth, Alt2woTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.1	0.1	-0.5	-0.3	0.0	0.2	0.0	-0.2	0.0	-0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.1	-0.3	-0.2	0.1	0.5	0.1	0.1	-0.1	-0.1
40% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
70% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	0.7	0.0	-2.8	-0.4
Full Simulation Period Average[a]	0.1	0.0	0.0	0.1	-0.2	0.0	0.3	0.3	0.2	-0.1	-0.4	-0.2
Wet Water Years (22%)	0.1	0.1	0.1	0.1	-0.2	0.3	0.0	0.1	1.3	0.6	-0.2	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	0.0	0.0	0.0	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.1	0.2	0.9	0.8	0.5	0.2	0.0	0.0
Dry Years (17%)	0.2	0.1	0.0	0.0	-0.3	-0.3	0.6	1.1	0.4	0.1	-0.1	-0.1
Critical (34%)	0	0	0	0	0	0	0	0	-1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-3a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-3b. Stanislaus River at Mouth, Alt2woTUCPDeltaVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	55	61	64	67	72	76	75	72
20% Exceedance	62	57	52	52	55	60	63	66	71	75	74	71
30% Exceedance	62	56	51	51	54	60	62	65	71	75	74	70
40% Exceedance	61.0	55.9	50.9	50.7	53.1	59.0	61.5	64.1	70.4	74.4	73.6	70.2
50% Exceedance	60.7	55.5	50.5	50.3	52.5	58.3	59.2	62.0	69.0	74.0	73.2	70.0
60% Exceedance	60.2	55.3	50.0	49.8	52.0	57.6	58.5	60.5	68.3	73.4	72.8	69.6
70% Exceedance	59.7	54.7	49.9	49.3	51.7	56.4	57.1	59.7	67.3	73.0	72.3	68.5
80% Exceedance	59.3	54.3	49.4	49.1	51.3	54.3	55.7	58.9	66.3	72.7	71.9	68.0
90% Exceedance	58.6	53.9	49.1	48.6	50.2	52.5	55.0	57.5	63.1	70.8	67.7	61.3
Full Simulation Period Average[a]	61	56	51	51	53	58	59	62	69	74	72	69
Wet Water Years (22%)	59	55	51	51	51	55	56	58	64	72	69	64
Above Normal Years (12%)	60	55	50	50	51	56	56	60	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	58	61	68	74	73	70
Dry Years (17%)	61	56	51	51	53	59	61	65	71	75	74	70
Critical (34%)	62	56	51	50	54	60	63	66	71	75	73	70

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-3c. Stanislaus River at Mouth, Alt2woTUCPDeltaVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.1	0.1	-0.5	-0.3	0.0	0.2	0.0	-0.2	0.0	-0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.1	-0.3	-0.2	0.1	0.5	0.1	0.1	-0.1	-0.1
40% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	1	0	0	0	0
70% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	0	0	0
90% Exceedance	0.2	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	0.7	0.0	-2.8	-0.4
Full Simulation Period Average[a]	0.1	0.0	0.0	0.1	-0.2	0.0	0.3	0.3	0.2	-0.1	-0.4	-0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.1	-0.2	0.3	0.0	0.1	1.3	0.6	-0.2	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	0.0	0.0	0.0	0.0
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.1	0.2	0.9	0.8	0.5	0.2	0.0	0.0
Dry Years (17%)	0.2	0.1	0.0	0.0	-0.3	-0.3	0.6	1.1	0.4	0.1	-0.1	-0.1
Critical (34%)	0	0	0	0	0	0	0	0	-1	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-4a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-4b. Stanislaus River at Mouth, Alt2woTUCPAllVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	55	61	64	67	72	76	75	72
20% Exceedance	62	57	52	52	55	60	63	66	71	75	74	71
30% Exceedance	62	56	51	51	54	60	62	65	71	75	74	71
40% Exceedance	61.0	55.9	50.9	50.7	53.0	59.0	61.5	64.1	70.5	74.4	73.6	70.3
50% Exceedance	60.7	55.5	50.5	50.2	52.5	58.3	59.2	62.1	69.1	74.0	73.3	70.0
60% Exceedance	60.2	55.3	50.0	49.8	52.0	57.4	58.4	60.5	68.3	73.5	72.8	69.6
70% Exceedance	59.7	54.8	49.9	49.3	51.7	56.2	57.0	59.7	67.3	73.0	72.4	68.6
80% Exceedance	59.3	54.3	49.4	49.1	51.3	54.2	55.7	58.9	66.4	72.8	72.0	68.0
90% Exceedance	58.6	53.9	49.1	48.6	50.2	52.5	55.0	57.5	63.1	70.9	68.5	61.2
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	69	74	73	69
Wet Water Years (22%)	59	55	51	51	51	55	56	58	64	72	69	64
Above Normal Years (12%)	60	55	50	50	51	56	56	60	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	58	61	68	74	73	70
Dry Years (17%)	61	56	51	51	53	59	61	65	71	75	74	70
Critical (34%)	62	56	51	50	54	60	63	66	71	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-4c. Stanislaus River at Mouth, Alt2woTUCPAllVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.1	0.1	-0.5	-0.4	0.0	0.2	0.0	-0.3	0.0	-0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.0	0.1	0.0	0.1	-0.3	-0.2	0.1	0.5	0.2	0.1	-0.1	-0.1
40% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
70% Exceedance	0	0	0	0	0	1	0	0	1	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	1	0	0
90% Exceedance	0.1	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	0.7	0.1	-1.9	-0.5
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.3	-0.1	0.2	0.3	0.3	0.0	-0.3	-0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.1	-0.2	0.3	0.0	0.1	1.3	0.6	-0.2	-0.1
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	0.0	0.0	0.0	-0.1
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.1	-0.1	0.8	0.7	0.5	0.2	0.0	0.0
Dry Years (17%)	0.2	0.1	0.0	0.0	-0.4	-0.3	0.6	1.1	0.4	0.1	-0.1	-0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-5a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-5b. Stanislaus River at Mouth, Alt2wTUCPwoVA, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	55	61	64	67	72	76	75	72
20% Exceedance	62	57	52	52	55	60	63	66	71	75	74	71
30% Exceedance	62	56	51	51	54	60	62	65	71	75	74	71
40% Exceedance	61.0	55.9	50.9	50.7	53.0	59.0	61.5	64.1	70.5	74.4	73.6	70.2
50% Exceedance	60.7	55.5	50.5	50.2	52.5	58.3	59.2	62.1	69.1	74.0	73.3	70.0
60% Exceedance	60.2	55.3	50.0	49.8	52.0	57.4	58.4	60.5	68.3	73.5	72.8	69.6
70% Exceedance	59.7	54.8	49.9	49.3	51.7	56.2	57.0	59.7	67.3	73.0	72.3	68.5
80% Exceedance	59.4	54.3	49.4	49.1	51.3	54.2	55.7	58.9	66.4	72.8	72.0	68.0
90% Exceedance	58.6	53.9	49.1	48.6	50.2	52.5	55.0	57.5	63.1	70.9	68.5	61.3
Full Simulation Period Average[a]	61	56	51	51	53	58	59	62	69	74	73	69
Wet Water Years (22%)	59	55	51	51	51	55	56	58	64	72	69	64
Above Normal Years (12%)	60	55	50	50	51	56	56	60	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	58	61	68	74	73	70
Dry Years (17%)	61	56	51	51	53	59	61	65	71	75	74	70
Critical (34%)	62	56	51	50	54	60	63	66	71	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-5c. Stanislaus River at Mouth, Alt2wTUCPwoVA minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.1	0.1	-0.5	-0.3	0.0	0.2	0.0	-0.3	-0.1	-0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.1	-0.3	-0.2	0.1	0.5	0.2	0.1	-0.1	-0.1
40% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
70% Exceedance	0	0	0	0	0	1	0	0	1	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	1	0	0
90% Exceedance	0.2	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	0.7	0.1	-1.9	-0.4
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.3	-0.1	0.2	0.3	0.3	0.0	-0.3	-0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.1	-0.2	0.3	0.0	0.1	1.3	0.6	-0.2	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	0.0	0.0	0.0	-0.1
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.1	-0.1	0.8	0.7	0.5	0.2	0.0	0.0
Dry Years (17%)	0.2	0.1	0.0	0.0	-0.4	-0.4	0.6	1.1	0.4	0.1	-0.1	-0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-6a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-6b. Stanislaus River at Mouth, Alternative 3, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	56	61	64	67	72	76	76	72
20% Exceedance	62	57	52	52	54	60	63	66	72	76	75	72
30% Exceedance	62	56	51	51	54	59	62	64	71	75	74	71
40% Exceedance	61.2	56.0	50.9	50.7	52.9	58.3	59.1	62.4	69.7	74.3	73.7	70.4
50% Exceedance	60.8	55.5	50.5	50.2	52.5	56.4	57.4	60.3	68.5	73.7	73.5	70.2
60% Exceedance	60.4	55.2	50.1	49.8	52.1	55.1	56.5	59.4	67.4	73.2	73.0	69.8
70% Exceedance	59.9	54.8	49.8	49.5	51.3	53.9	55.4	58.5	66.4	73.0	72.7	69.1
80% Exceedance	59.5	54.4	49.4	49.1	50.6	53.2	54.7	57.3	62.9	72.0	72.1	68.4
90% Exceedance	58.8	53.9	49.1	48.7	49.9	52.4	54.0	56.6	60.3	70.4	71.5	66.4
Full Simulation Period Average[a]	61	56	51	50	53	57	58	61	68	74	73	69
Wet Water Years (22%)	59	55	51	51	51	53	55	57	61	71	71	65
Above Normal Years (12%)	60	55	50	50	52	56	56	59	67	73	73	70
Below Normal Years (15%)	61	55	51	50	52	55	57	60	68	74	73	70
Dry Years (17%)	61	56	51	51	53	57	58	62	69	74	74	70
Critical (34%)	62	56	51	50	54	60	62	65	71	76	75	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-6c. Stanislaus River at Mouth, Alternative 3 minus No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.1	0.2	0.2	0.1	-0.1	-0.4	0.2	0.3	0.1	0.0	0.2	0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.2	0.1	0.0	0.0	-0.4	-0.3	0.0	-0.2	0.1	-0.1	0.2	0.2
40% Exceedance	0	0	0	0	-1	-1	-2	-1	-1	0	0	0
50% Exceedance	0	0	0	0	0	-2	-1	-1	-1	0	0	0
60% Exceedance	0	0	0	0	0	-2	-1	-1	-1	0	0	0
70% Exceedance	0	0	0	0	-1	-2	-1	-1	0	0	0	0
80% Exceedance	0	0	0	0	-1	-1	-1	-1	-1	0	0	0
90% Exceedance	0.4	0.1	0.0	0.0	-0.3	0.0	-1.0	-1.1	-2.1	-0.4	1.1	4.7
Full Simulation Period Average[a]	0.2	0.1	0.0	0.0	-0.3	-0.9	-0.7	-0.6	-0.8	-0.2	0.5	0.4
Wet Water Years (22%)	0.4	0.1	0.1	0.0	-0.9	-1.4	-0.9	-0.8	-1.6	-0.3	1.7	1.4
Above Normal Years (12%)	0.1	0.1	0.1	0.0	0.1	-0.2	0.1	-0.4	-1.1	-0.3	0.1	0.3
Below Normal Years (15%)	0.2	0.1	0.0	0.1	-0.6	-1.1	-0.5	0.2	-0.1	0.1	0.2	0.2
Dry Years (17%)	0.3	0.1	0.0	0.1	-0.5	-2.3	-2.6	-1.7	-1.3	-0.5	-0.1	0.0
Critical (34%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-7a. Stanislaus River at Mouth, No Action Alternative, Monthly Temperature (°F)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63.3	57.7	52.3	52.5	55.7	61.6	63.6	66.3	72.0	76.4	75.3	71.8
20% Exceedance	62.3	56.8	51.7	51.5	54.7	60.3	62.6	65.4	71.4	75.5	74.4	71.4
30% Exceedance	61.5	56.3	51.2	51.1	54.0	59.7	61.8	64.7	71.0	74.8	73.9	70.6
40% Exceedance	60.8	55.9	50.8	50.6	53.5	59.2	61.0	63.7	70.4	74.4	73.6	70.3
50% Exceedance	61	55	50	50	53	59	59	61	69	74	73	70
60% Exceedance	60	55	50	50	52	57	57	60	68	73	73	70
70% Exceedance	60	55	50	49	52	56	57	59	67	73	73	69
80% Exceedance	59	54	49	49	51	54	56	59	64	72	72	68
90% Exceedance	58	54	49	49	50	52	55	58	62	71	70	62
Full Simulation Period Average[a]	61	56	51	50	53	58	59	62	68	74	73	69
Wet Water Years (22%)	59	55	51	51	52	54	56	58	63	71	69	64
Above Normal Years (12%)	60	55	50	50	52	56	56	59	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	57	60	68	74	73	70
Dry Years (17%)	61.1	56.1	50.9	50.8	53.7	59.1	60.8	63.5	70.3	74.7	73.8	70.2
Critical (34%)	62	56	51	50	54	60	63	66	72	75	74	71

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-7b. Stanislaus River at Mouth, Alternative 4, Monthly Temperature (°F)

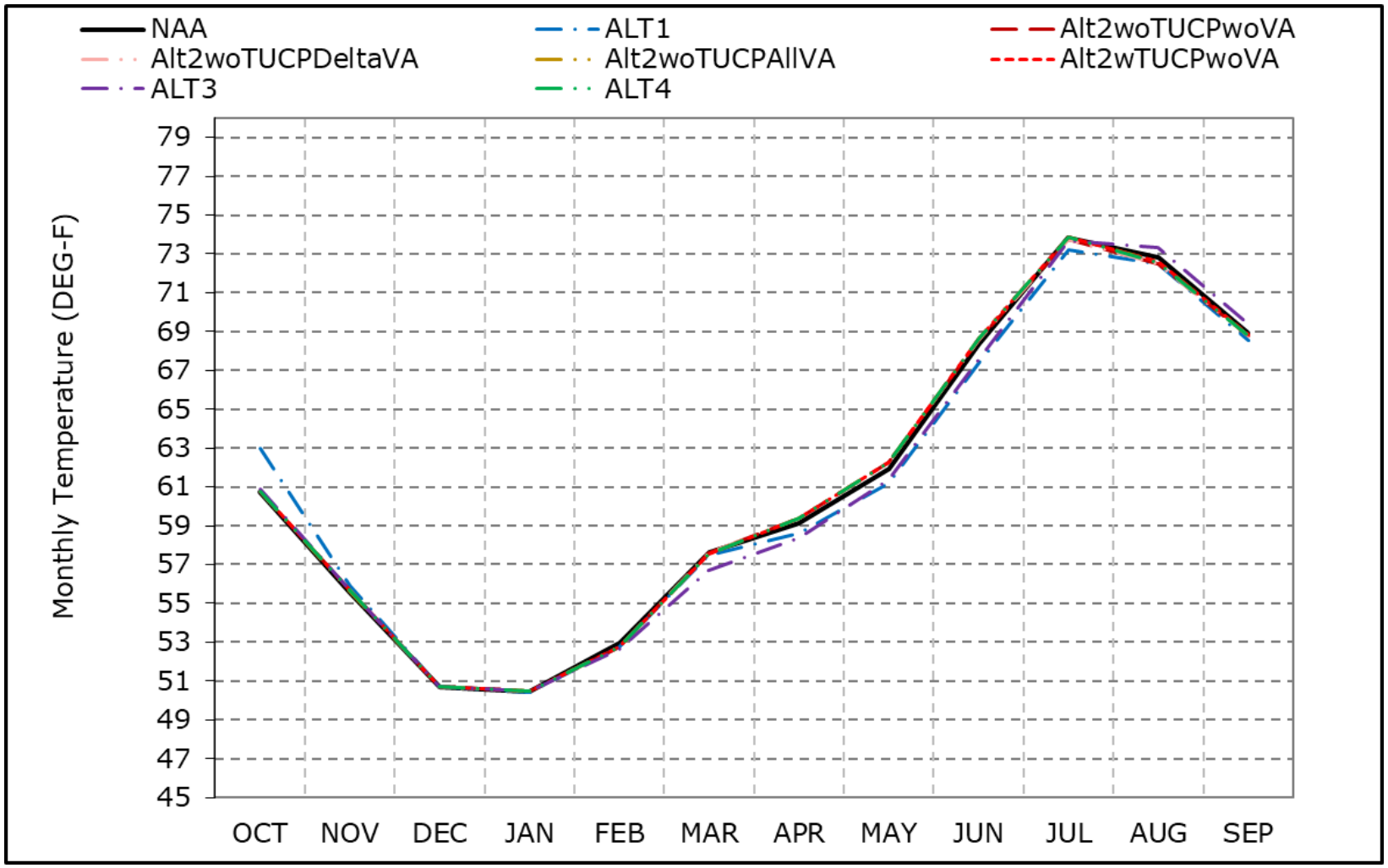
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	58	52	53	55	61	64	67	72	76	75	72
20% Exceedance	62	57	52	52	55	60	63	66	71	75	74	71
30% Exceedance	62	56	51	51	54	60	62	65	71	75	74	71
40% Exceedance	61.0	55.9	50.9	50.7	53.0	59.0	61.5	64.1	70.5	74.4	73.6	70.2
50% Exceedance	60.7	55.5	50.5	50.2	52.5	58.3	59.2	62.1	69.1	74.0	73.3	69.9
60% Exceedance	60.2	55.3	50.0	49.8	52.0	57.4	58.4	60.5	68.3	73.4	72.8	69.6
70% Exceedance	59.7	54.8	49.9	49.3	51.7	56.2	57.0	59.7	67.3	73.0	72.3	68.5
80% Exceedance	59.4	54.3	49.4	49.1	51.3	54.2	55.7	58.9	66.3	72.8	72.0	68.0
90% Exceedance	58.6	53.9	49.1	48.6	50.2	52.5	55.0	57.5	63.1	70.9	68.5	61.3
Full Simulation Period Average[a]	61	56	51	51	53	58	59	62	69	74	73	69
Wet Water Years (22%)	59	55	51	51	51	55	56	58	64	72	69	64
Above Normal Years (12%)	60	55	50	50	51	56	56	60	68	73	73	70
Below Normal Years (15%)	60	55	51	50	52	56	58	61	68	74	73	70
Dry Years (17%)	61	56	51	51	53	59	61	65	71	75	74	70
Critical (34%)	62	56	51	50	54	60	63	66	71	75	74	70

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.

Table F.2.11-20-7c. Stanislaus River at Mouth, Alternative 4 minus No Action Alternative, Monthly Temperature (°F)

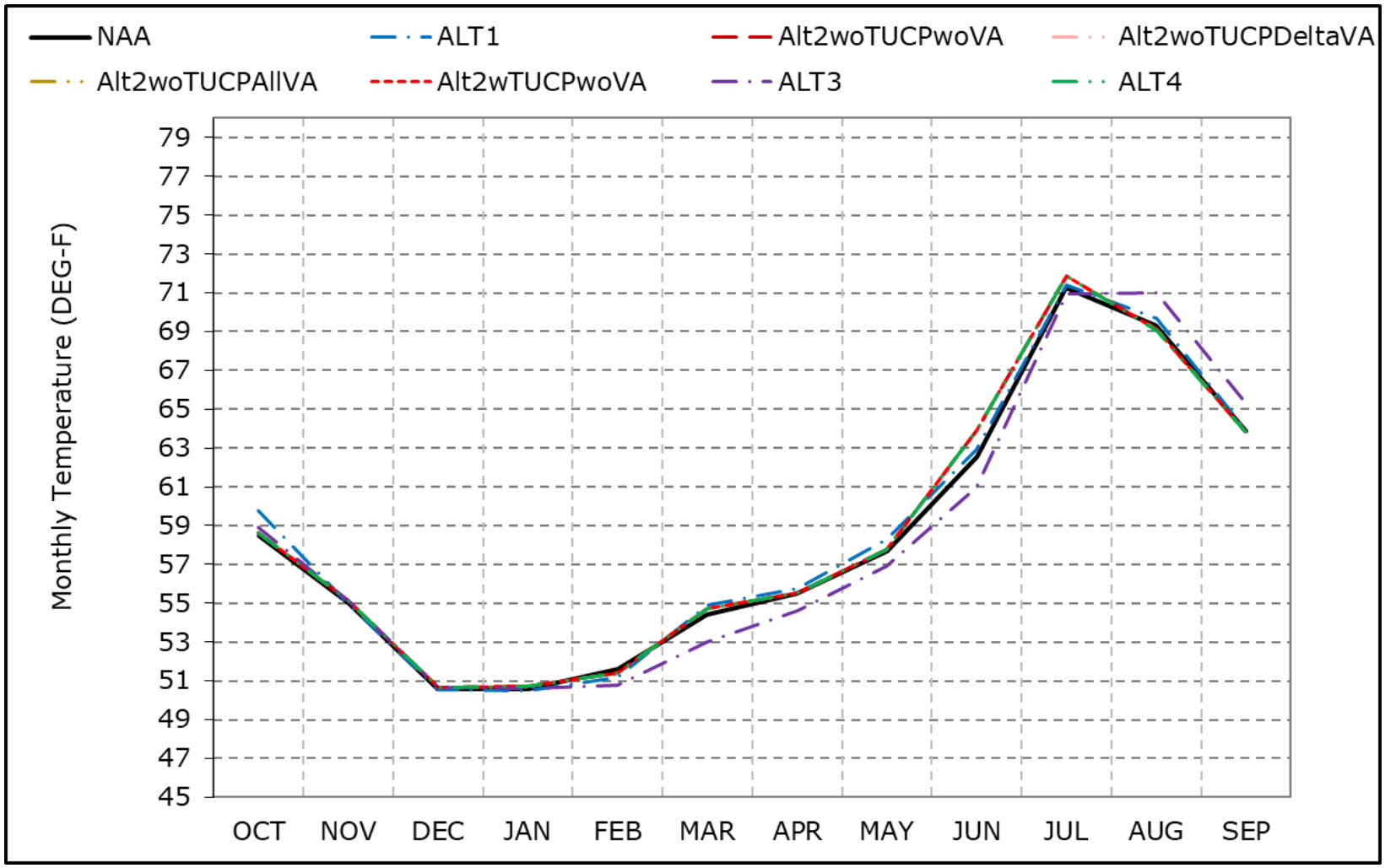
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.2	0.2	0.1	0.1	-0.5	-0.3	0.0	0.2	0.0	-0.3	-0.1	-0.1
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0.1	0.1	0.0	0.1	-0.3	-0.2	0.1	0.5	0.1	0.1	-0.1	-0.1
40% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
60% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
70% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	2	1	0	0
90% Exceedance	0.1	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	0.7	0.1	-1.9	-0.4
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.3	-0.1	0.2	0.3	0.3	0.0	-0.3	-0.1
Wet Water Years (22%)	0.1	0.1	0.1	0.1	-0.2	0.3	0.0	0.1	1.3	0.6	-0.2	0.0
Above Normal Years (12%)	0.0	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	0.0	0.0	0.0	-0.1
Below Normal Years (15%)	0.1	0.0	0.0	0.0	-0.1	-0.1	0.8	0.7	0.5	0.2	0.0	0.0
Dry Years (17%)	0.2	0.1	0.0	0.0	-0.4	-0.4	0.6	1.1	0.4	0.1	-0.1	-0.1
Critical (34%)	0	0	0	0	0	0	0	0	0	-1	-1	0

[a] Based on the 100-year simulation period.
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.
Water year types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (State Water Resources Control Board D-1641, 1999).
Water year types results are displayed with calendar year-year type sorting.



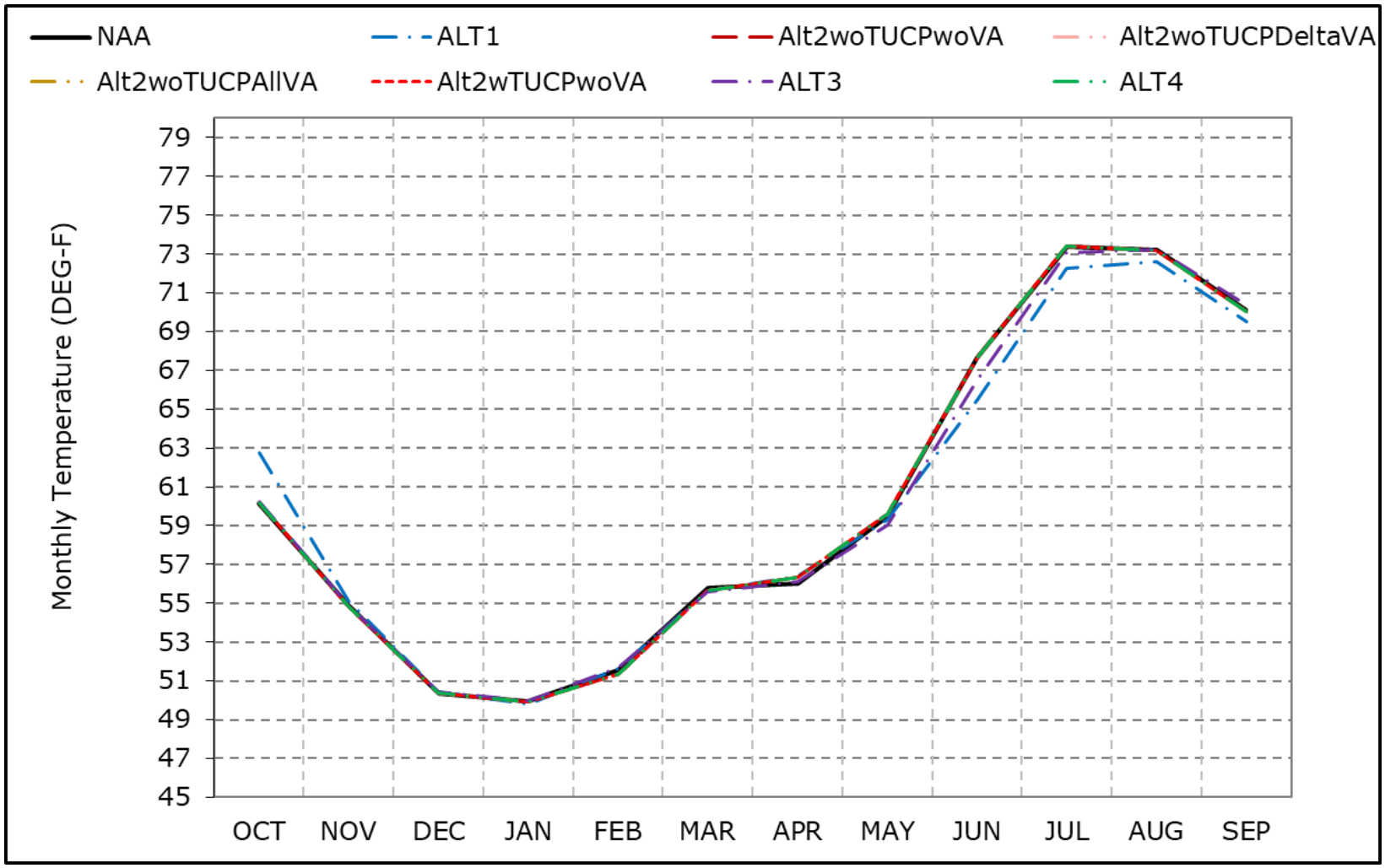
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-1. Stanislaus River at Mouth, Long-Term Average Temperature



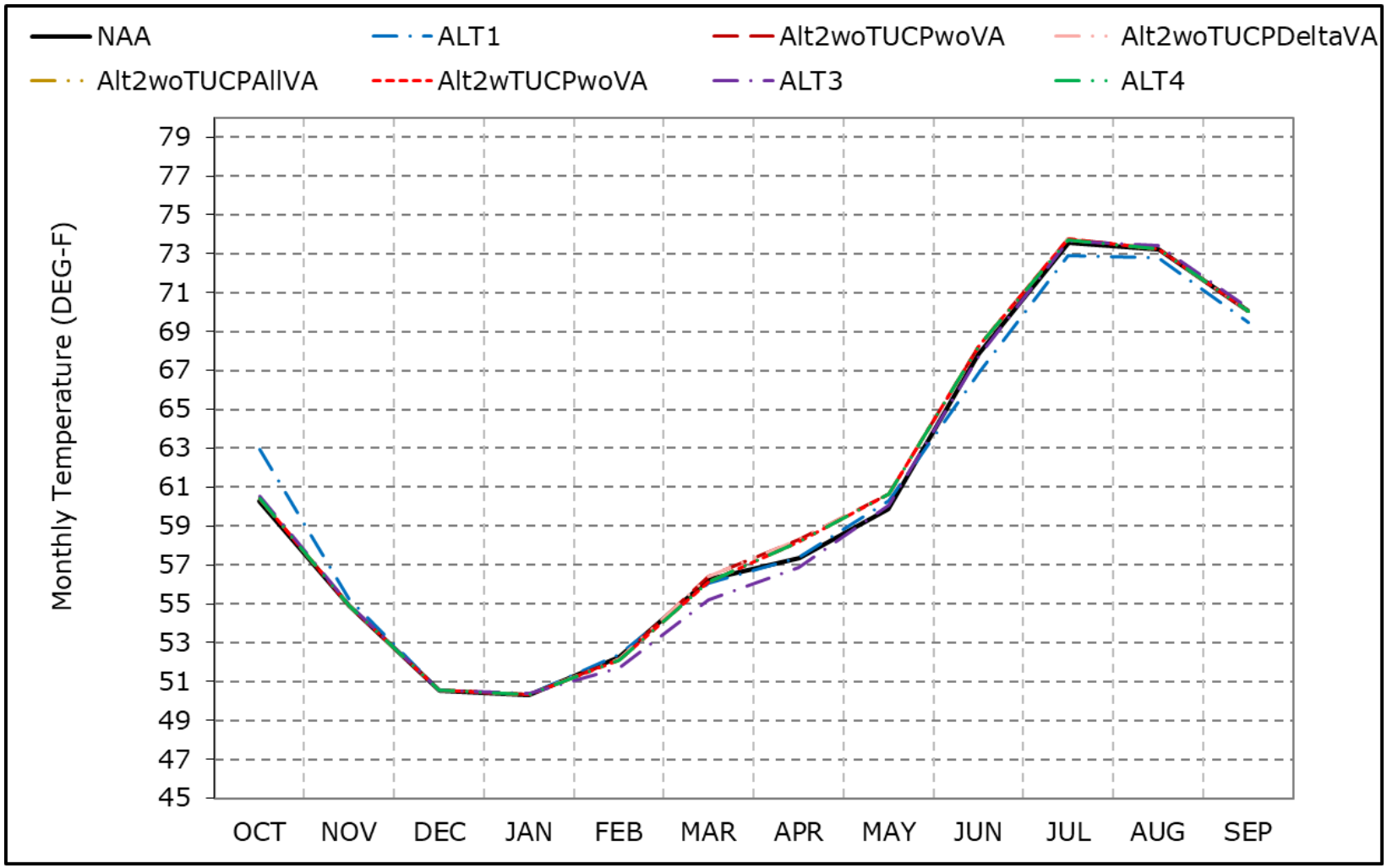
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-2. Stanislaus River at Mouth, Wet Year Average Temperature



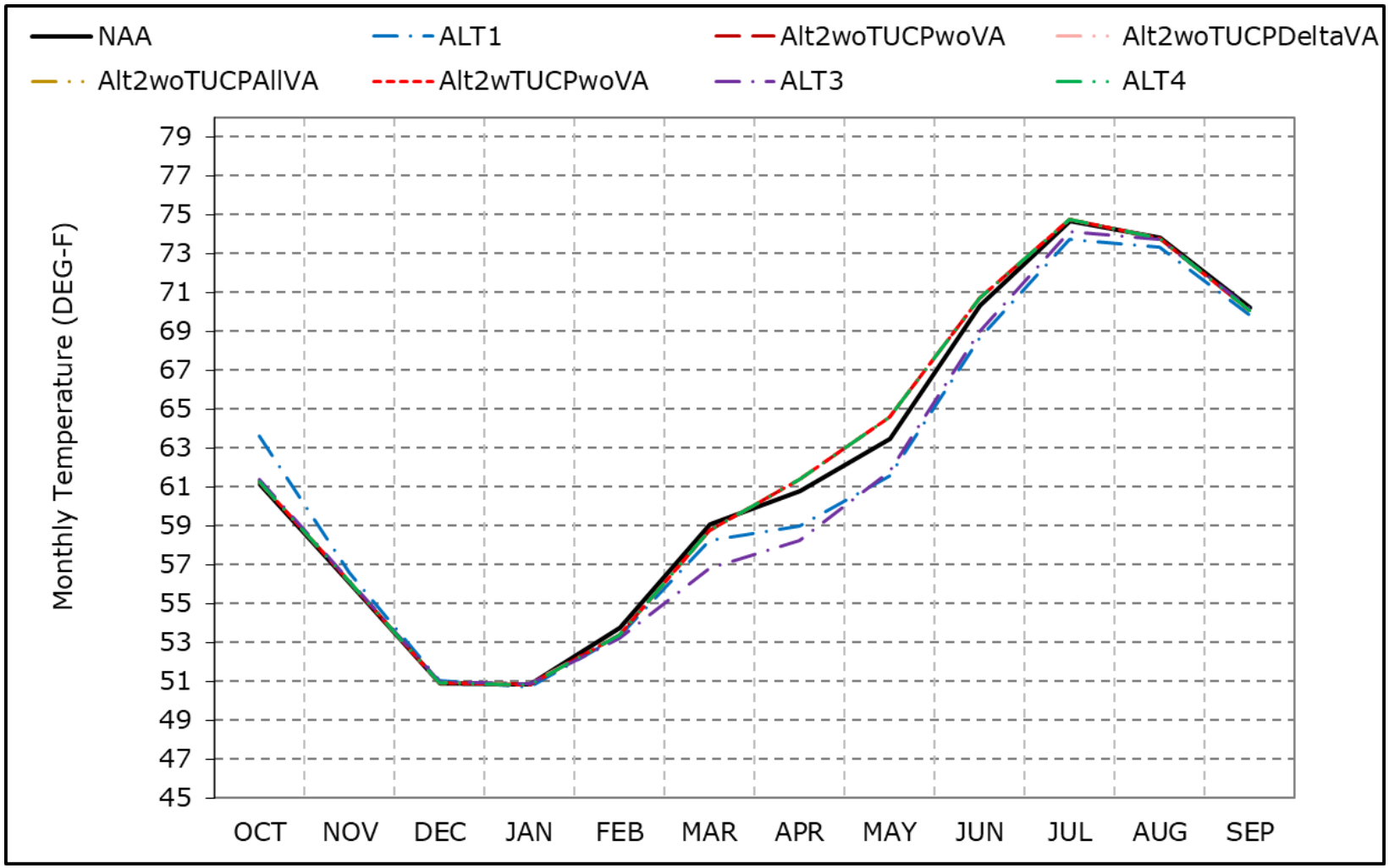
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-3. Stanislaus River at Mouth, Above Normal Year Average Temperature



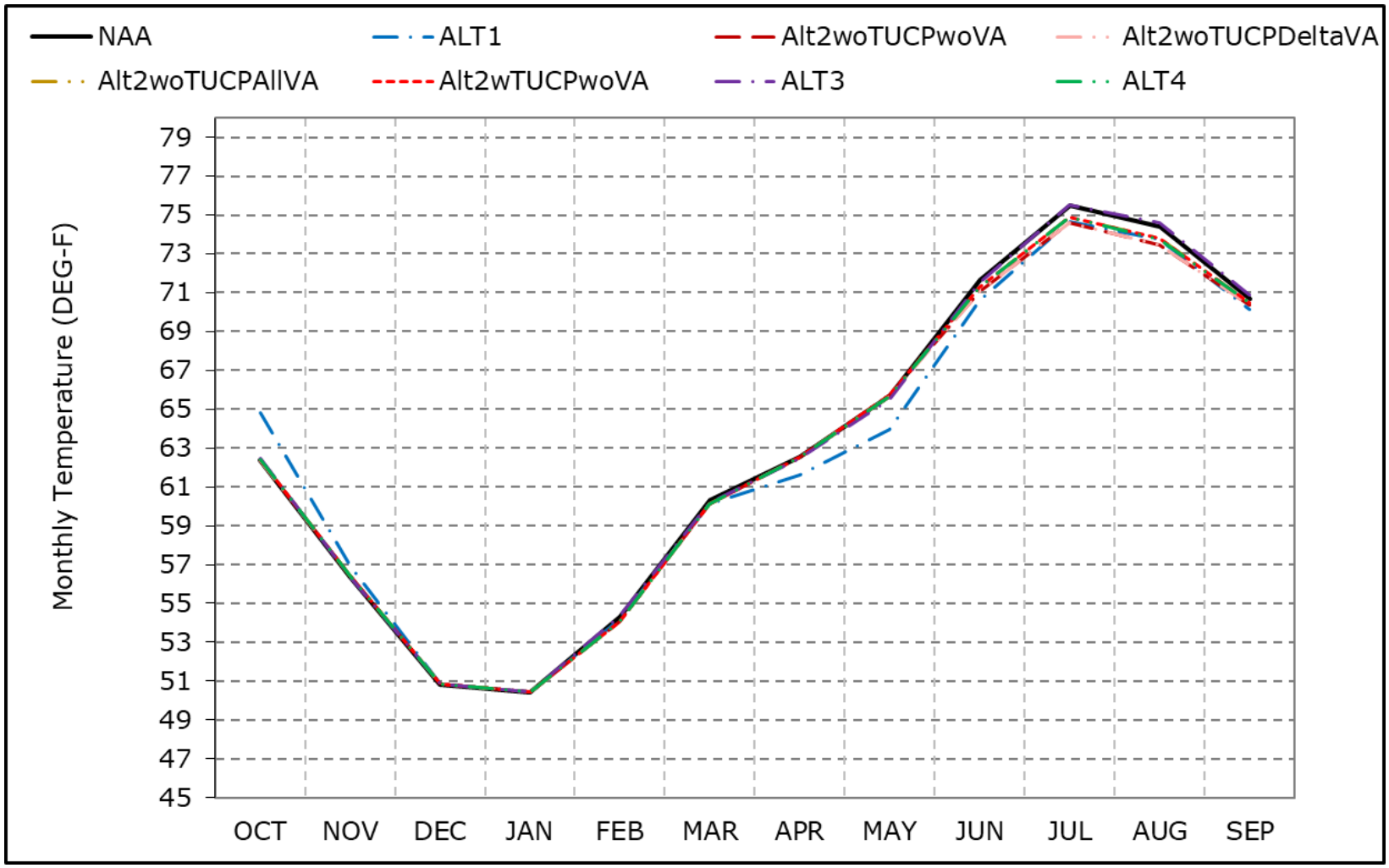
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-4. Stanislaus River at Mouth, Below Normal Year Average Temperature



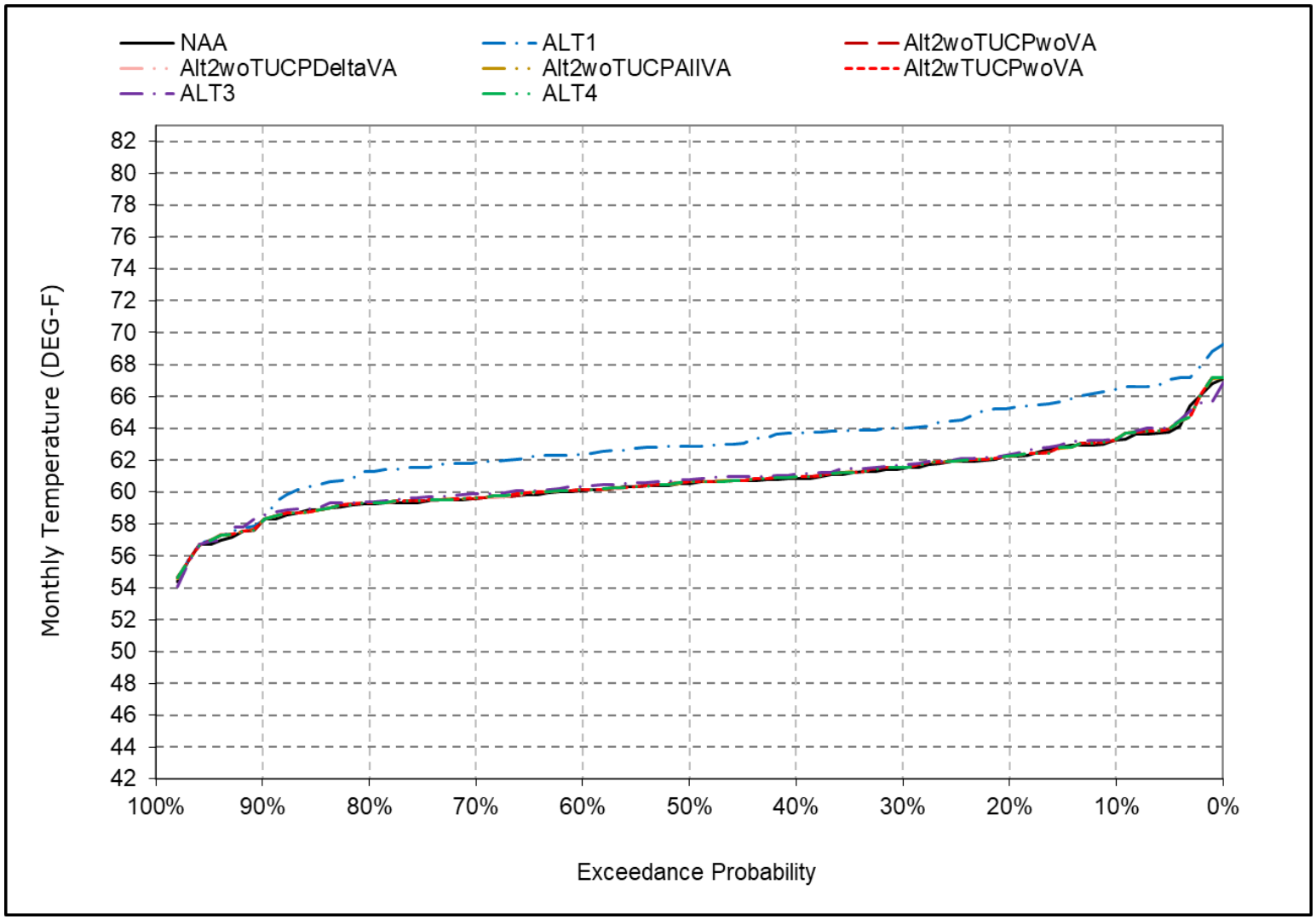
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-5. Stanislaus River at Mouth, Dry Year Average Temperature



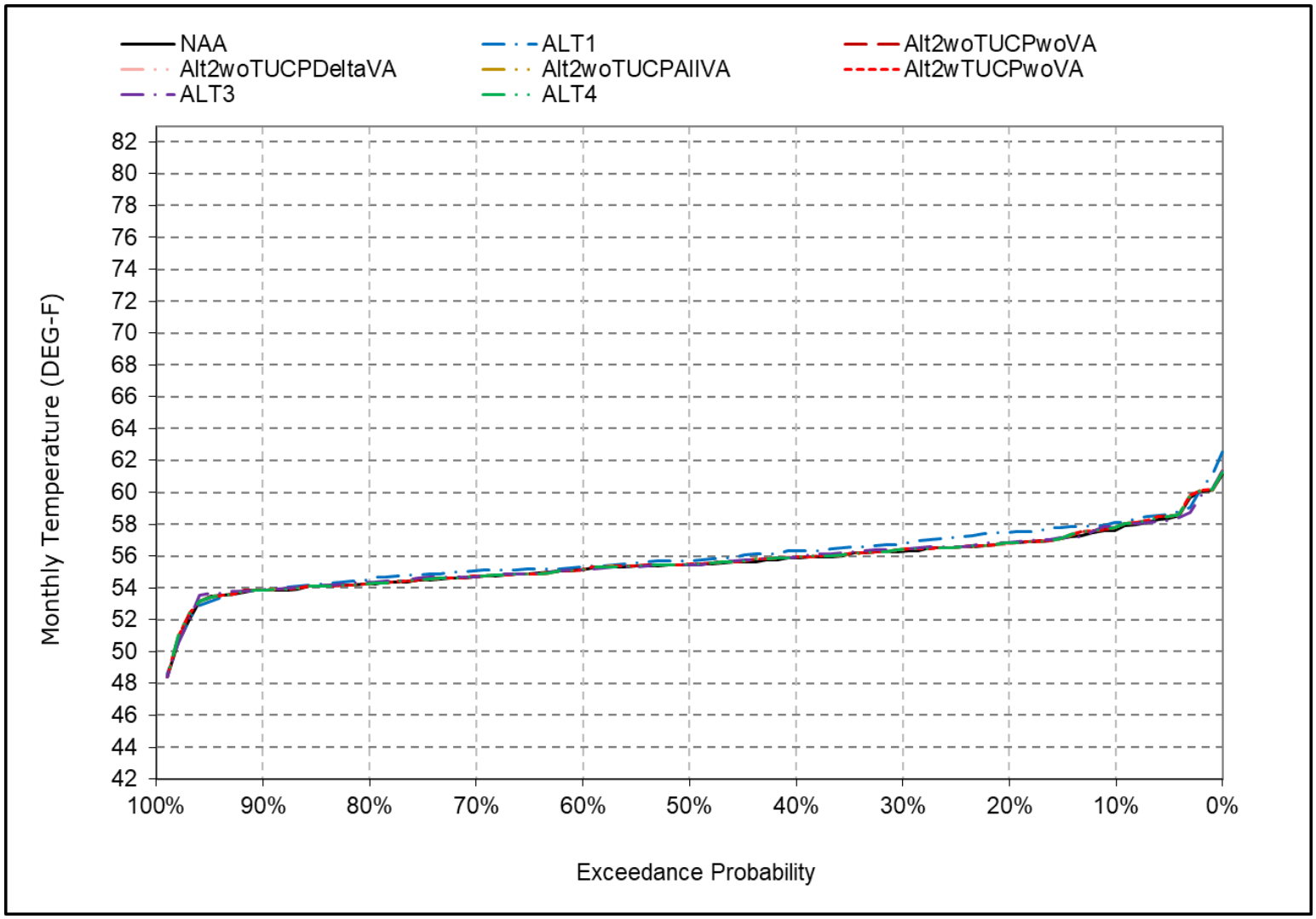
As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999). These results are displayed with calendar year–year type sorting. All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-6. Stanislaus River at Mouth, Critical Year Average Temperature



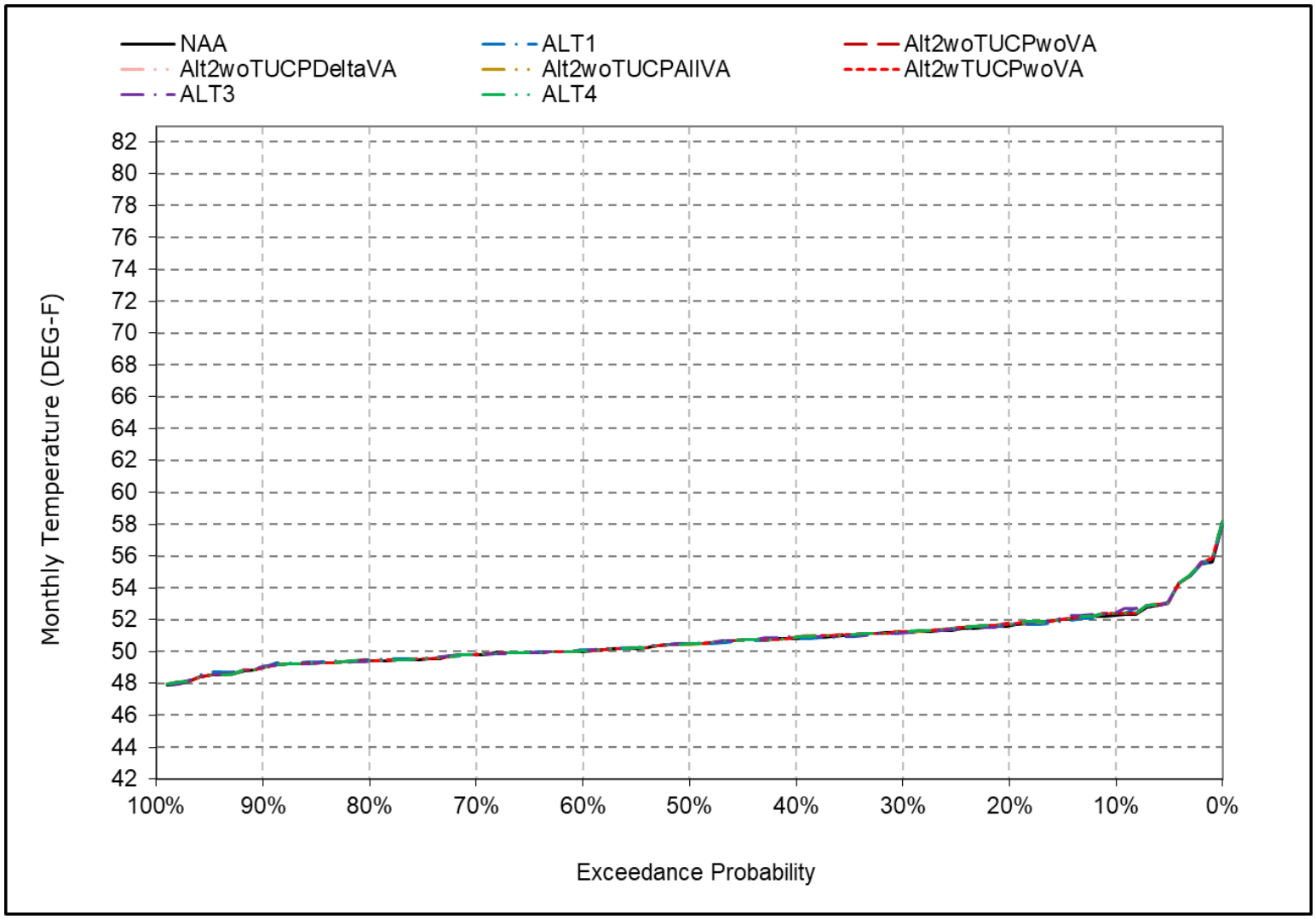
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-7. Stanislaus River at Mouth, October



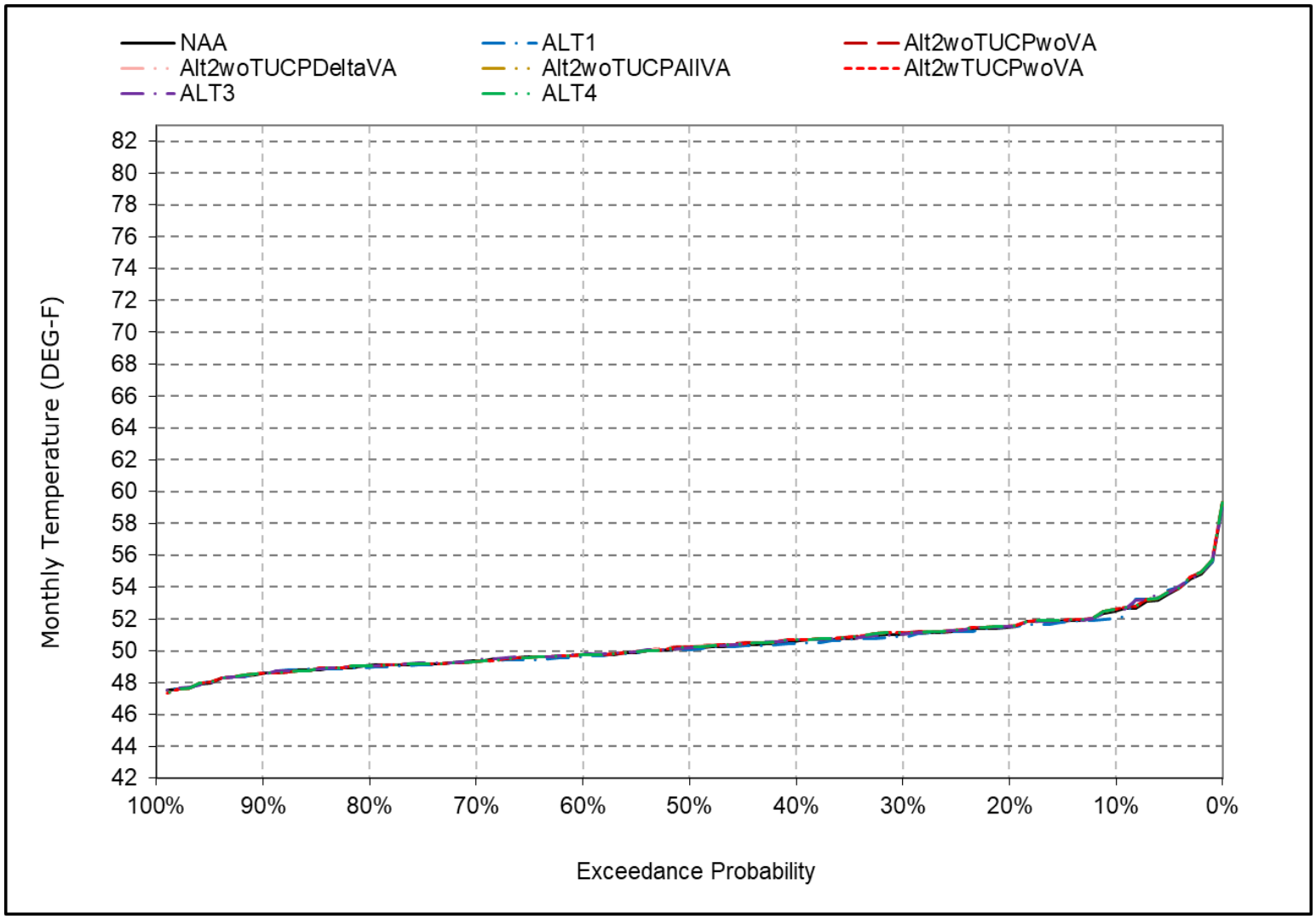
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-8. Stanislaus River at Mouth, November



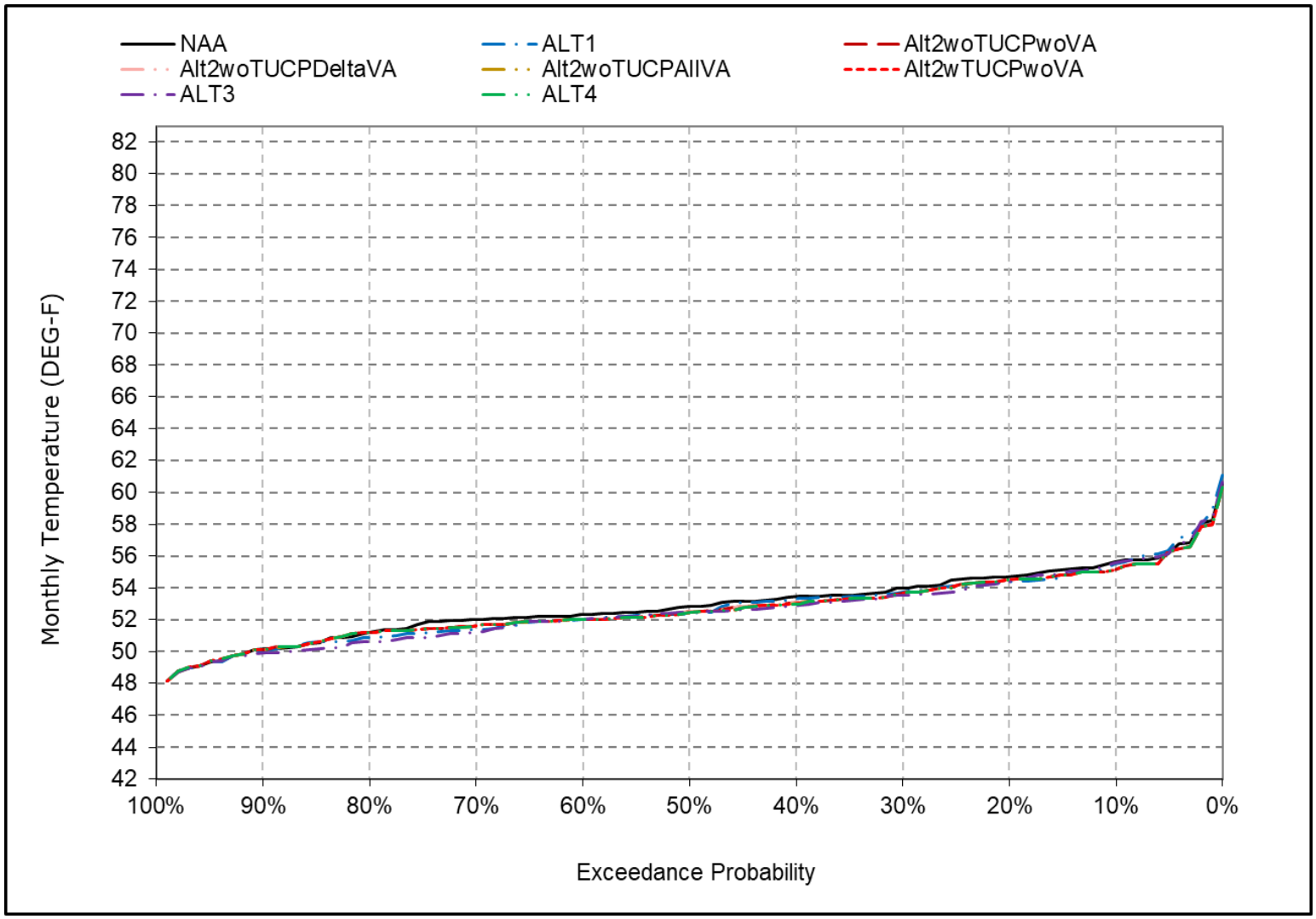
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-9. Stanislaus River at Mouth, December



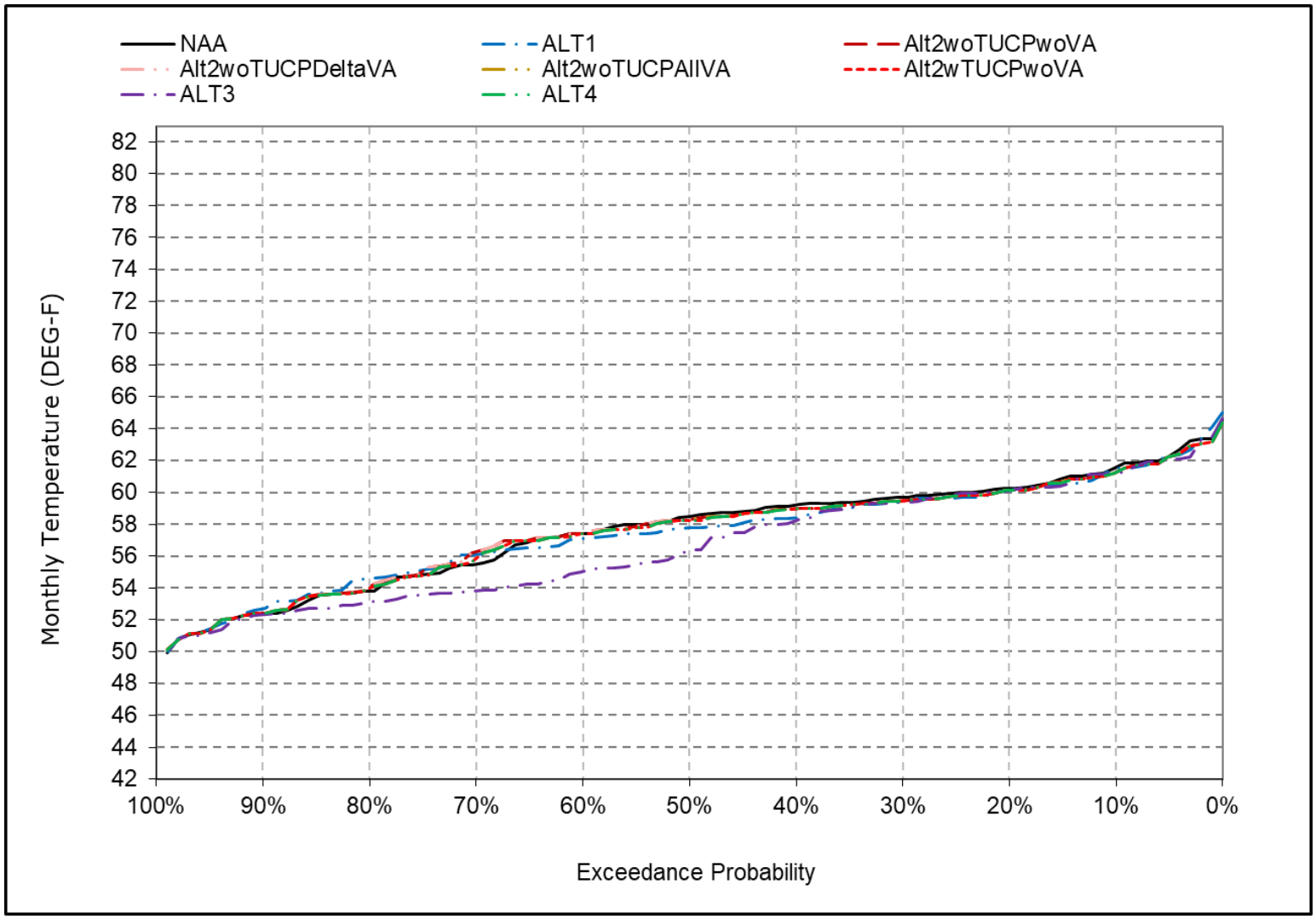
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-10. Stanislaus River at Mouth, January



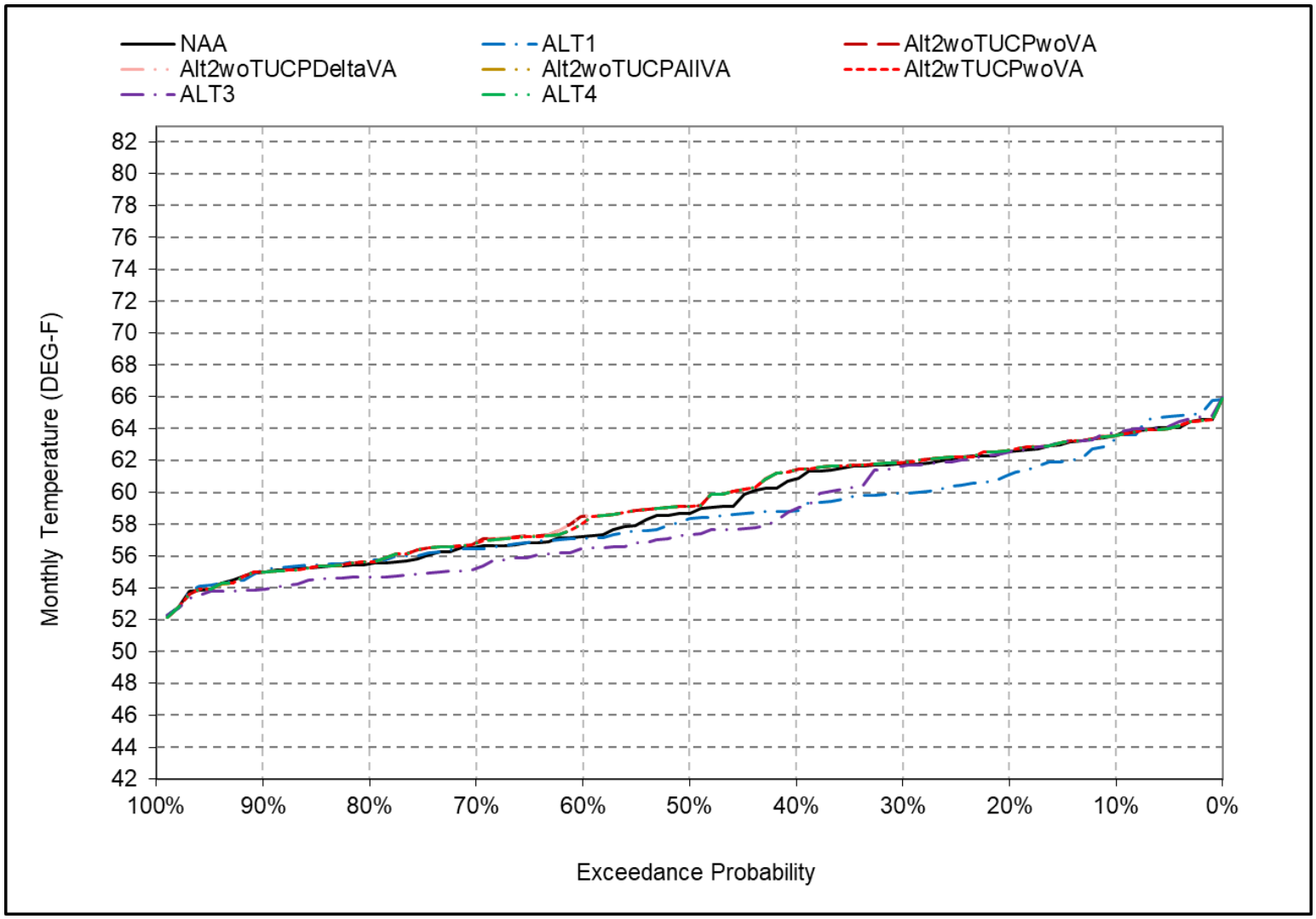
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-11. Stanislaus River at Mouth, February



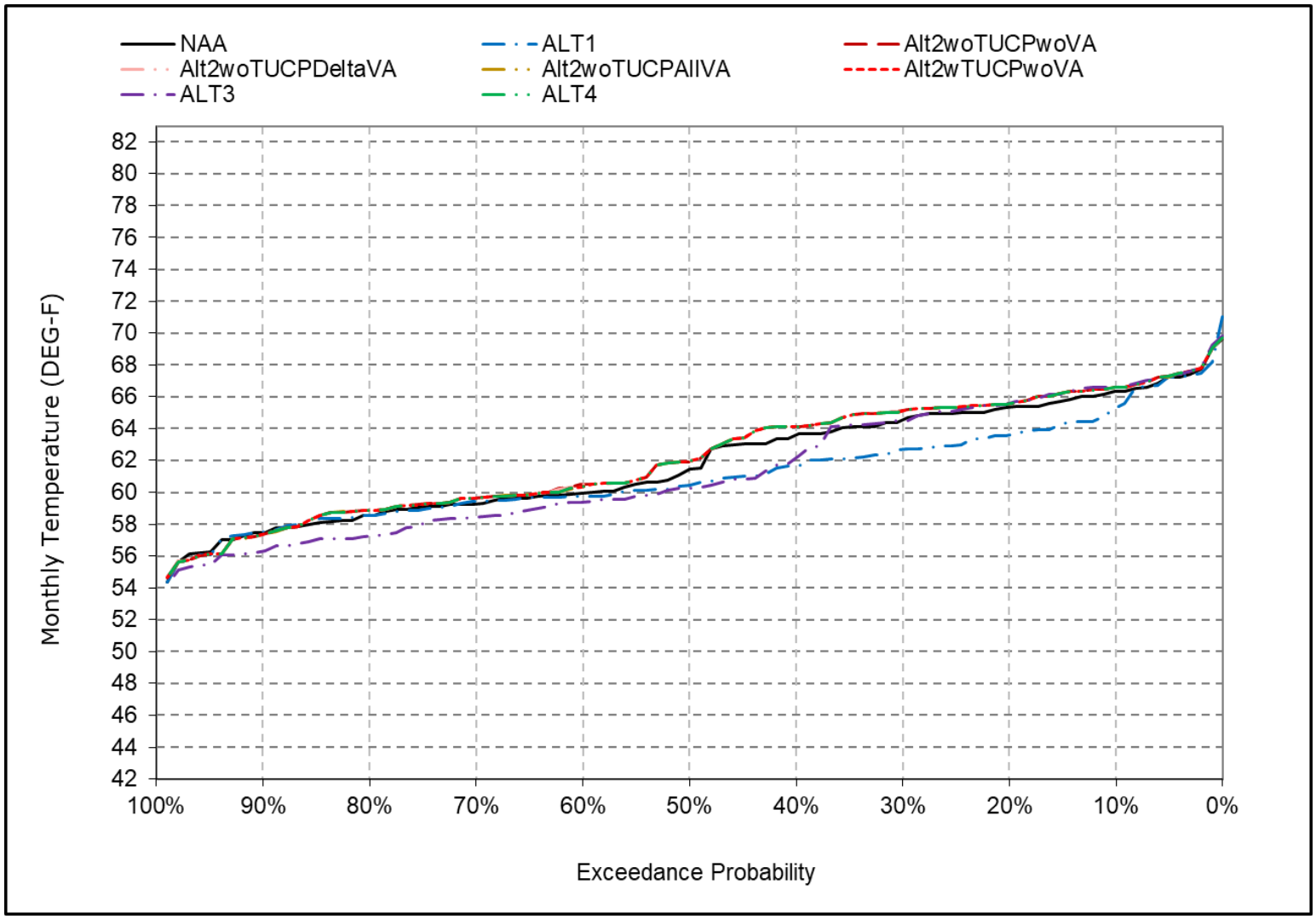
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-12. Stanislaus River at Mouth, March



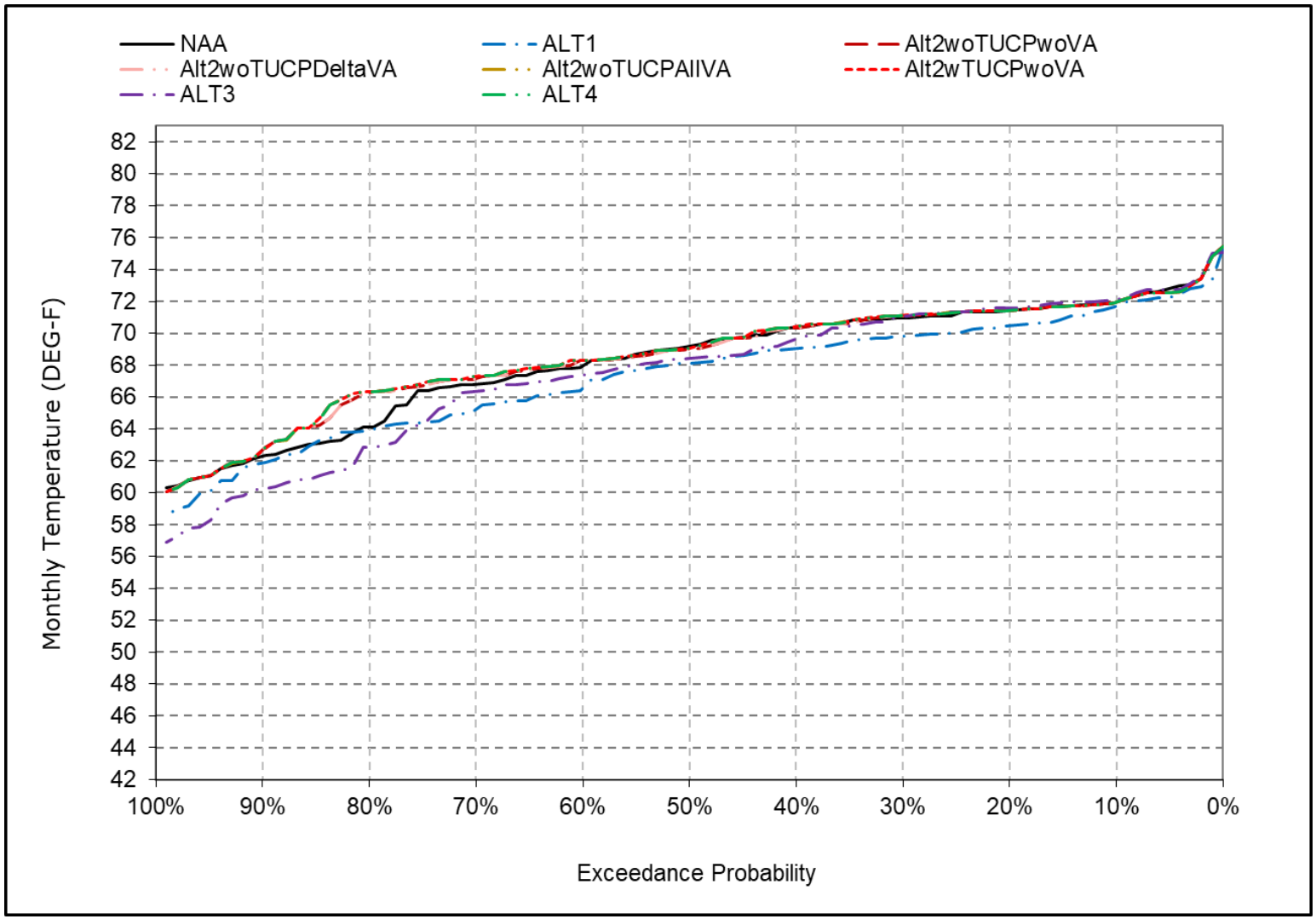
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-13. Stanislaus River at Mouth, April



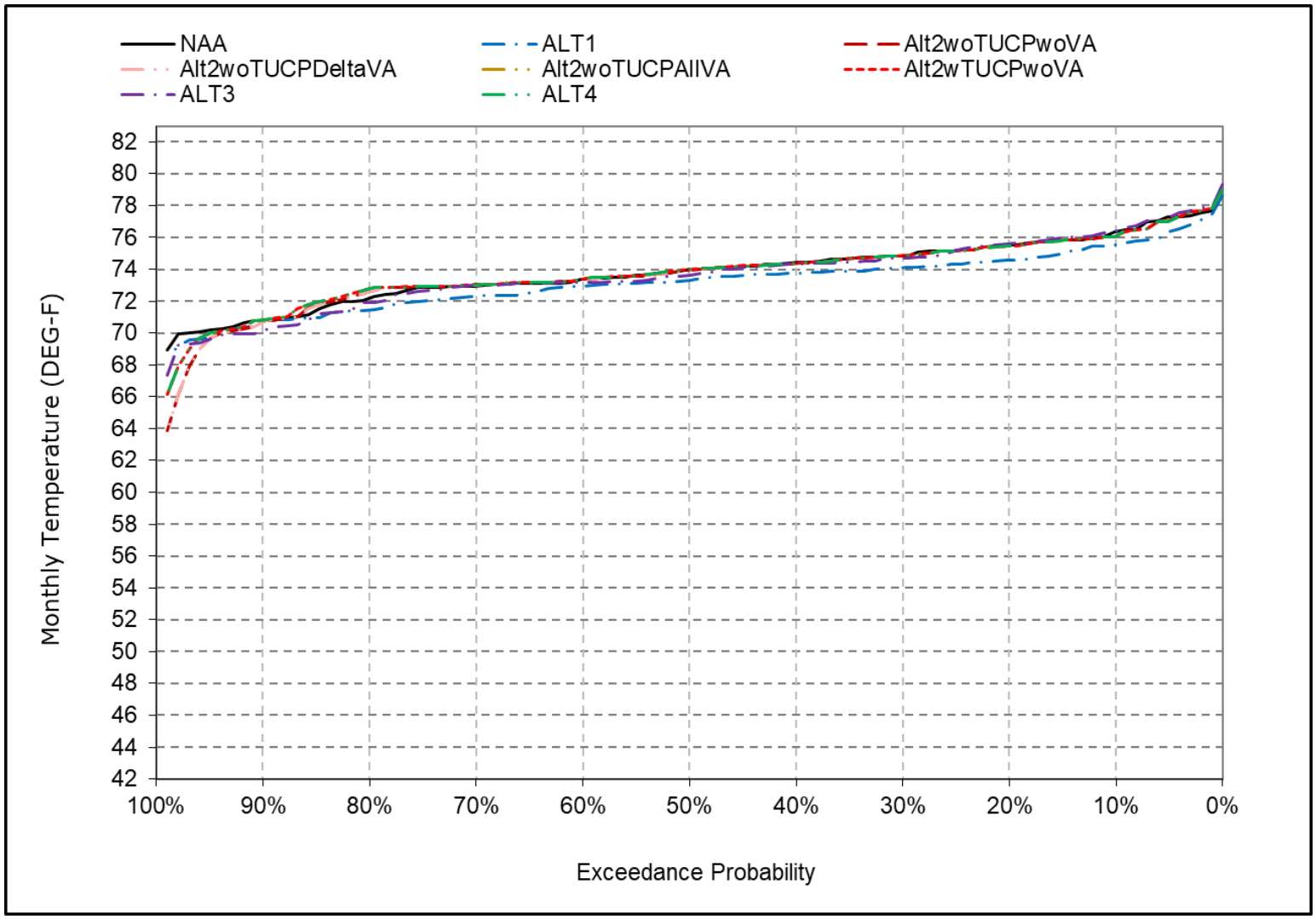
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-14. Stanislaus River at Mouth, May



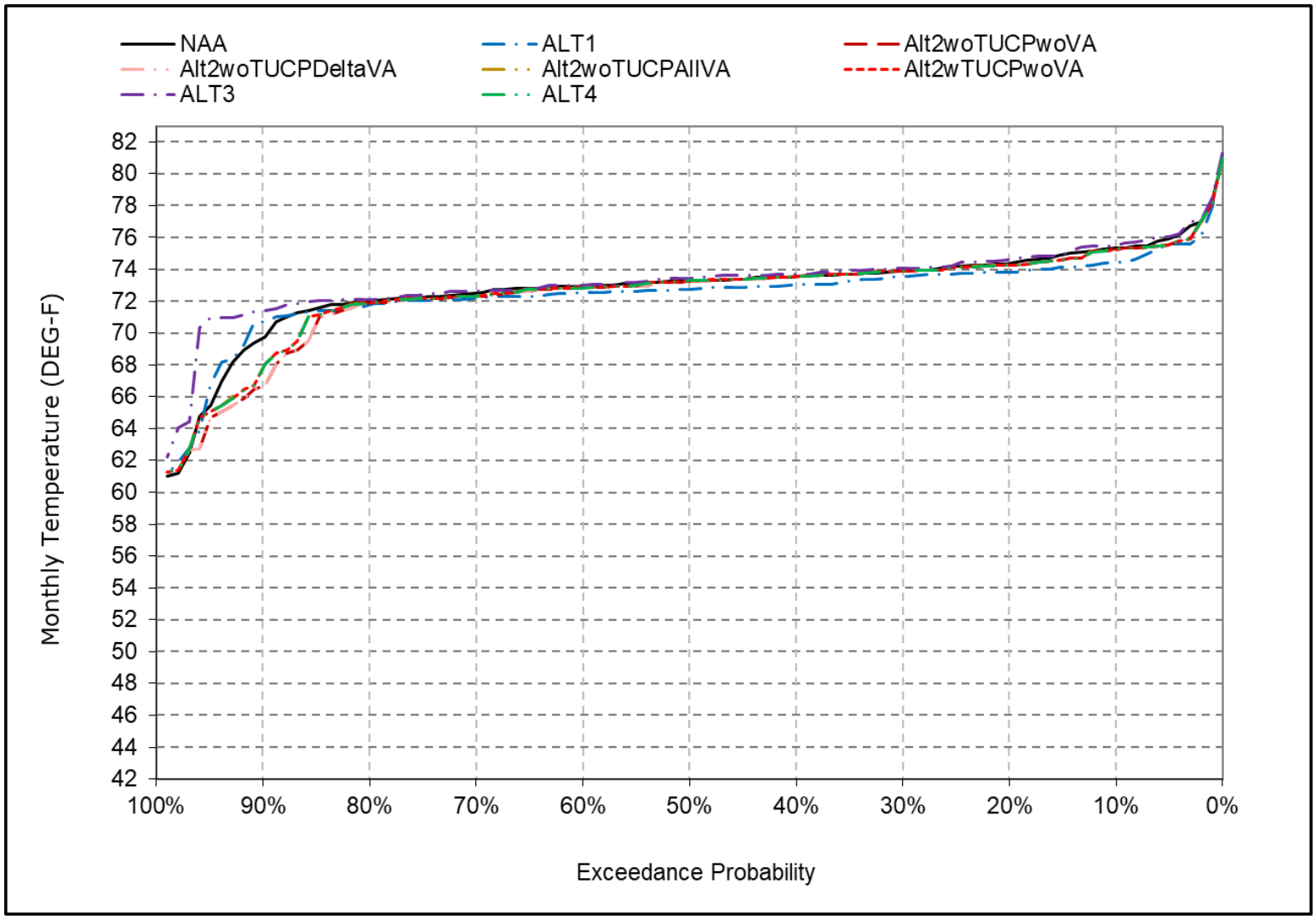
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-15. Stanislaus River at Mouth, June



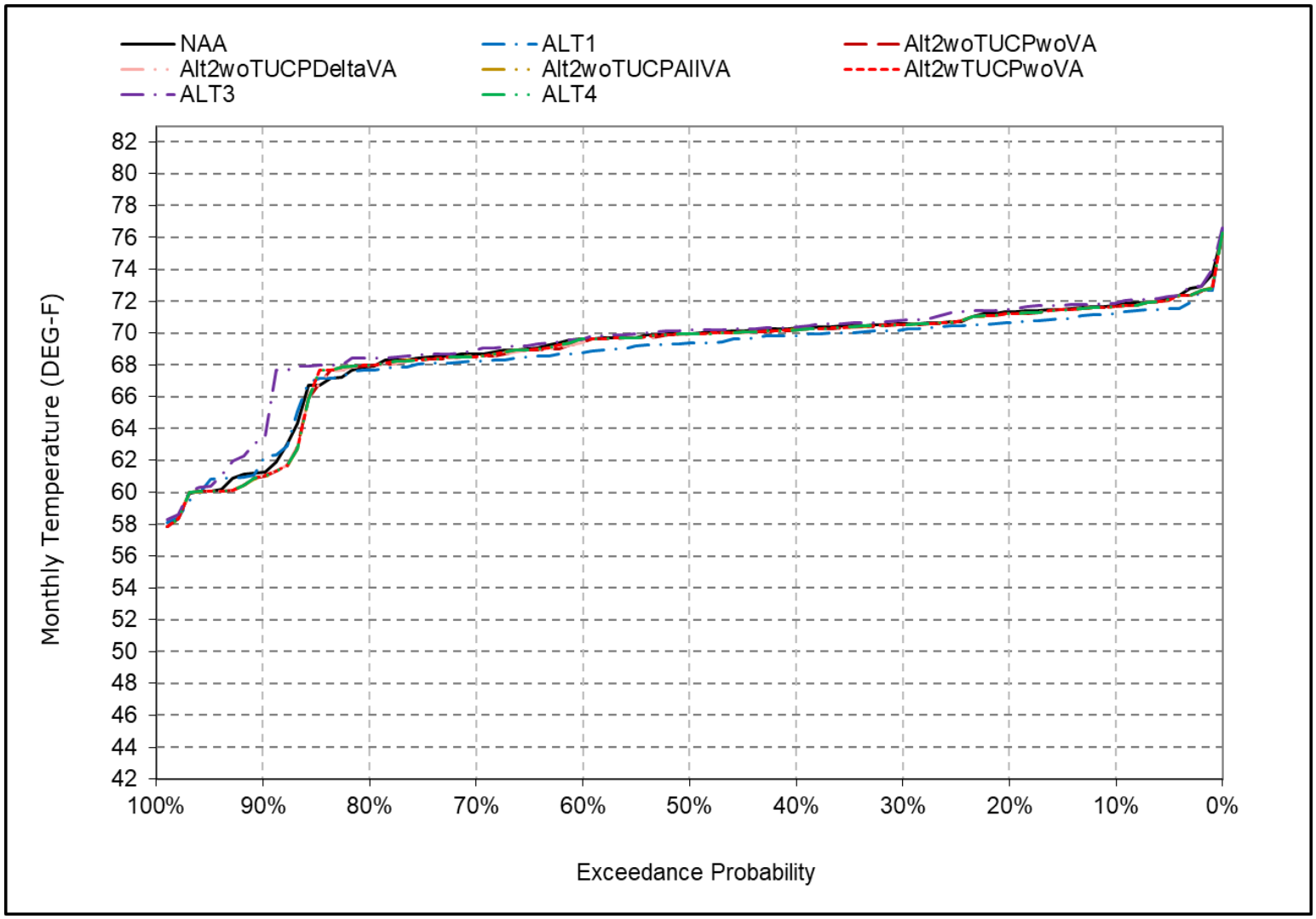
All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-16. Stanislaus River at Mouth, July



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-17. Stanislaus River at Mouth, August



All scenarios are simulated at the 2022 median climate condition and 15-centimeter sea level rise.

Figure F.2.11-20-18. Stanislaus River at Mouth, September