Appendix 6B Sacramento–San Joaquin Delta Modeling

Appendix 6B1 – Sacramento – San Joaquin Delta Modeling, Salinity Results (DSM2-QUAL)

The following results of the DSM2 QUAL model are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 011221
- Alternative 1A 011221
- Alternative 1B 011221
- Alternative 2 011221
- Alternative 3 020121

Section	Output Parameters	Table Numbers	Figure Numbers
EC	Sacramento River downstream of Steamboat Slough Salinity	6B1-1-1a to 6B1-1-4c	6B1-1-1 to 6B1-1-18
EC	Cache Slough at Ryer Island Salinity	6B1-2-1a to 6B1-2-4c	6B1-2-1 to 6B1-2-18
EC	Sacramento River downstream of Georgiana Slough Salinity	6B1-3-1a to 6B1-3-4c	6B1-3-1 to 6B1-3-18
EC	Sacramento River at Rio Vista Salinity	6B1-4-1a to 6B1-4-4c	6B1-4-1 to 6B1-4-18
EC	Sacramento River at Emmaton Salinity	6B1-5-1a to 6B1-5-4c	6B1-5-1 to 6B1-5-18
EC	Sacramento River at Collinsville Salinity	6B1-6-1a to 6B1-6-4c	6B1-6-1 to 6B1-6-18
EC	Sacramento River at Mallard Slough Salinity	6B1-7-1a to 6B1-7-4c	6B1-7-1 to 6B1-7-18
EC	Chipps Island North Channel Salinity	6B1-8-1a to 6B1-8-4c	6B1-8-1 to 6B1-8-18
EC	Chipps Island South Channel Salinity	6B1-9-1a to 6B1-9-4c	6B1-9-1 to 6B1-9-18
EC	Sacramento River at Port Chicago Salinity	6B1-10-1a to 6B1-10-4c	6B1-10-1 to 6B1-10-18
EC	San Joaquin River at Antioch Salinity	6B1-11-1a to 6B1-11-4c	6B1-11-1 to 6B1-11-18
EC	San Joaquin River at Jersey Point Salinity	6B1-12-1a to 6B1-12-4c	6B1-12-1 to 6B1-12-18
EC	San Joaquin River at San Andreas Salinity	6B1-13-1a to 6B1-13-4c	6B1-13-1 to 6B1-13-18
EC	San Joaquin River at Prisoners Point Salinity	6B1-14-1a to 6B1-14-4c	6B1-14-1 to 6B1-14-18
EC	Old River at Rock Slough Salinity	6B1-15-1a to 6B1-15-4c	6B1-15-1 to 6B1-15-18
EC	Banks Pumping Plant South Delta Exports Salinity	6B1-16-1a to 6B1-16-4c	6B1-16-1 to 6B1-16-18
EC	Jones Pumping Plant South Delta Exports Salinity	6B1-17-1a to 6B1-17-4c	6B1-17-1 to 6B1-17-18
EC	Old River at Highway 4	6B1-18-1a to 6B1-18-4c	6B1-18-1 to 6B1-18-18
EC	Victoria Canal	6B1-19-1a to 6B1-19-4c	6B1-19-1 to 6B1-19-18
EC	Montezuma Slough at Beldons Landing	6B1-20-1a to 6B1-20-4c	6B1-20-1 to 6B1-20-18

Report formats

- Monthly tables comparing an alternative against the No Action alternative (exceedance values, long-term average, and average by water year type)
- Monthly pattern charts (long-term average and average by water year type) including all alternatives
- Monthly exceedance charts (all months) including all alternatives

Table 6B1-1-1a. Sacramento River downstream of Steamboat Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	178	177	176	176	176	176	176	176	176

Table 6B1-1-1b. Sacramento River downstream of Steamboat Slough, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	175	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	175	176	176
Critical (15%)	176	176	178	179	177	176	176	176	176	176	176	176

Table 6B1-1-1c. Sacramento River downstream of Steamboat Slough, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-1-2a. Sacramento River downstream of Steamboat Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	178	177	176	176	176	176	176	176	176

Table 6B1-1-2b. Sacramento River downstream of Steamboat Slough, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	175
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	175	176	176
Critical (15%)	176	176	178	179	177	176	176	176	176	176	176	176

Table 6B1-1-2c. Sacramento River downstream of Steamboat Slough, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-1-3a. Sacramento River downstream of Steamboat Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	178	177	176	176	176	176	176	176	176

Table 6B1-1-3b. Sacramento River downstream of Steamboat Slough, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	176	176	176	176	176	176	176

Table 6B1-1-3c. Sacramento River downstream of Steamboat Slough, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-1-4a. Sacramento River downstream of Steamboat Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	178	177	176	176	176	176	176	176	176

Table 6B1-1-4b. Sacramento River downstream of Steamboat Slough, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	175
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	175	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[a]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	175	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	175	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	176	176	176	176	176	176	176

Table 6B1-1-4c. Sacramento River downstream of Steamboat Slough, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

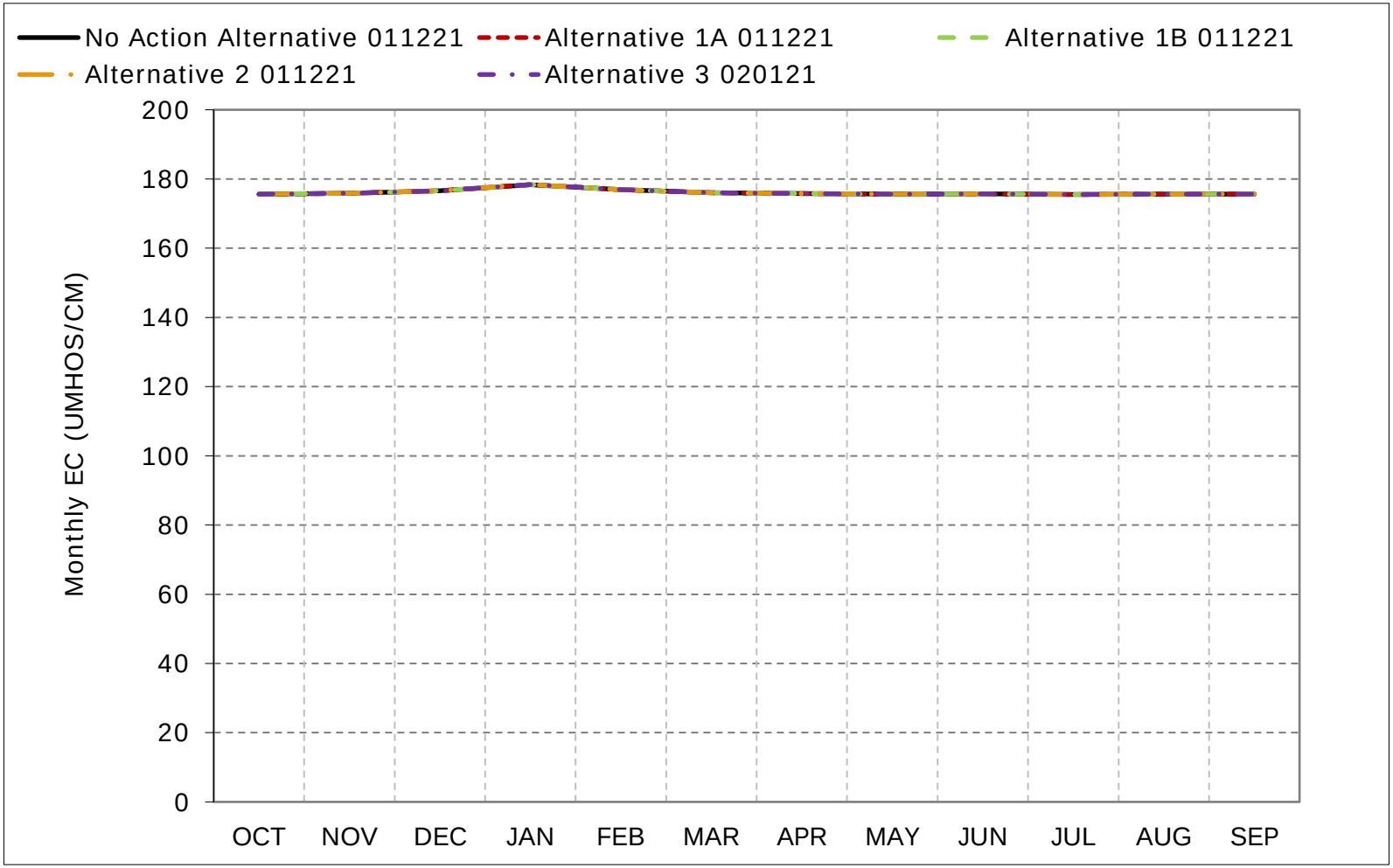
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-1. Sacramento River downstream of Steamboat Slough, Long-Term Average EC

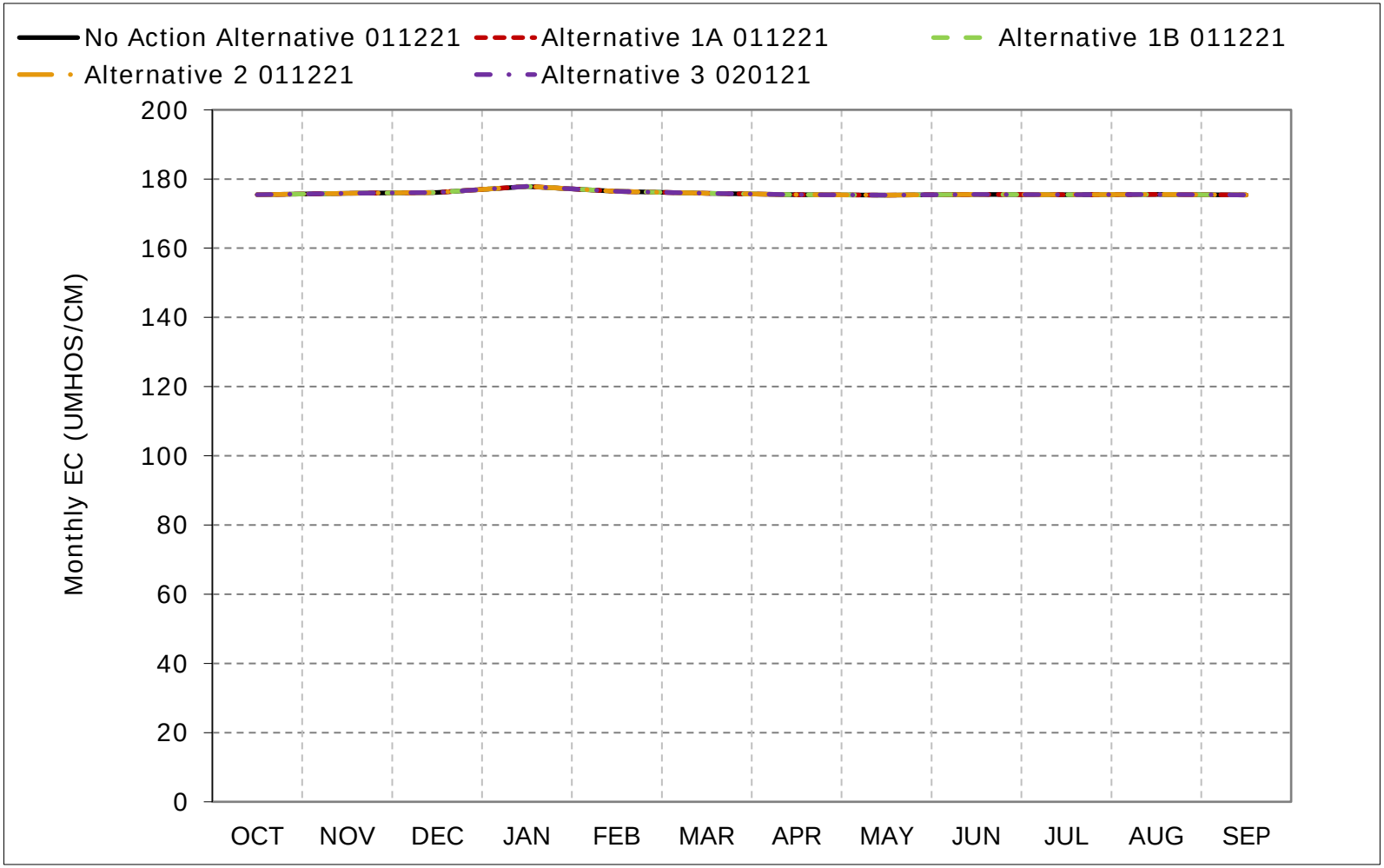


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-2. Sacramento River downstream of Steamboat Slough, Wet Year Average EC

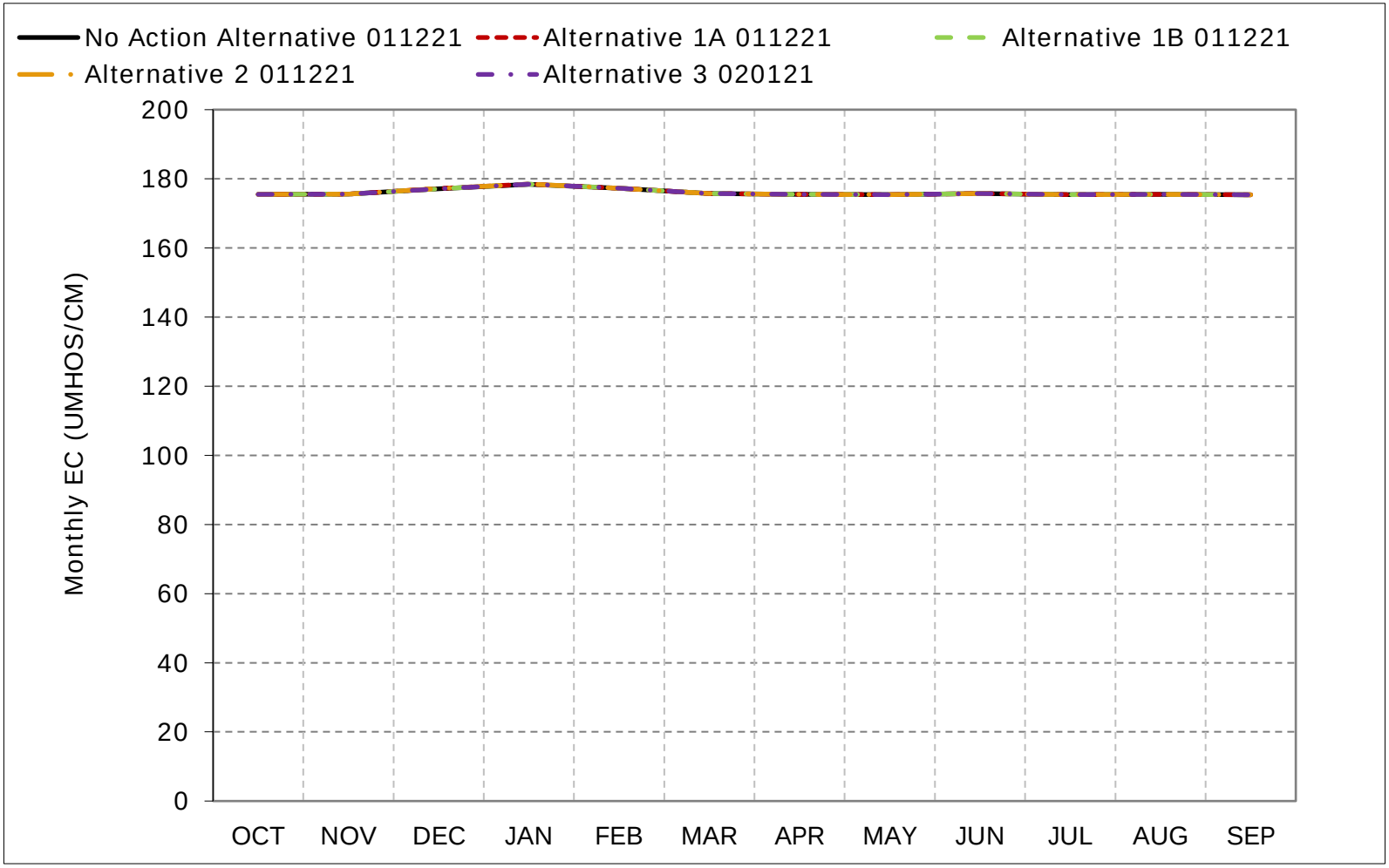


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-3. Sacramento River downstream of Steamboat Slough, Above Normal Year Average EC

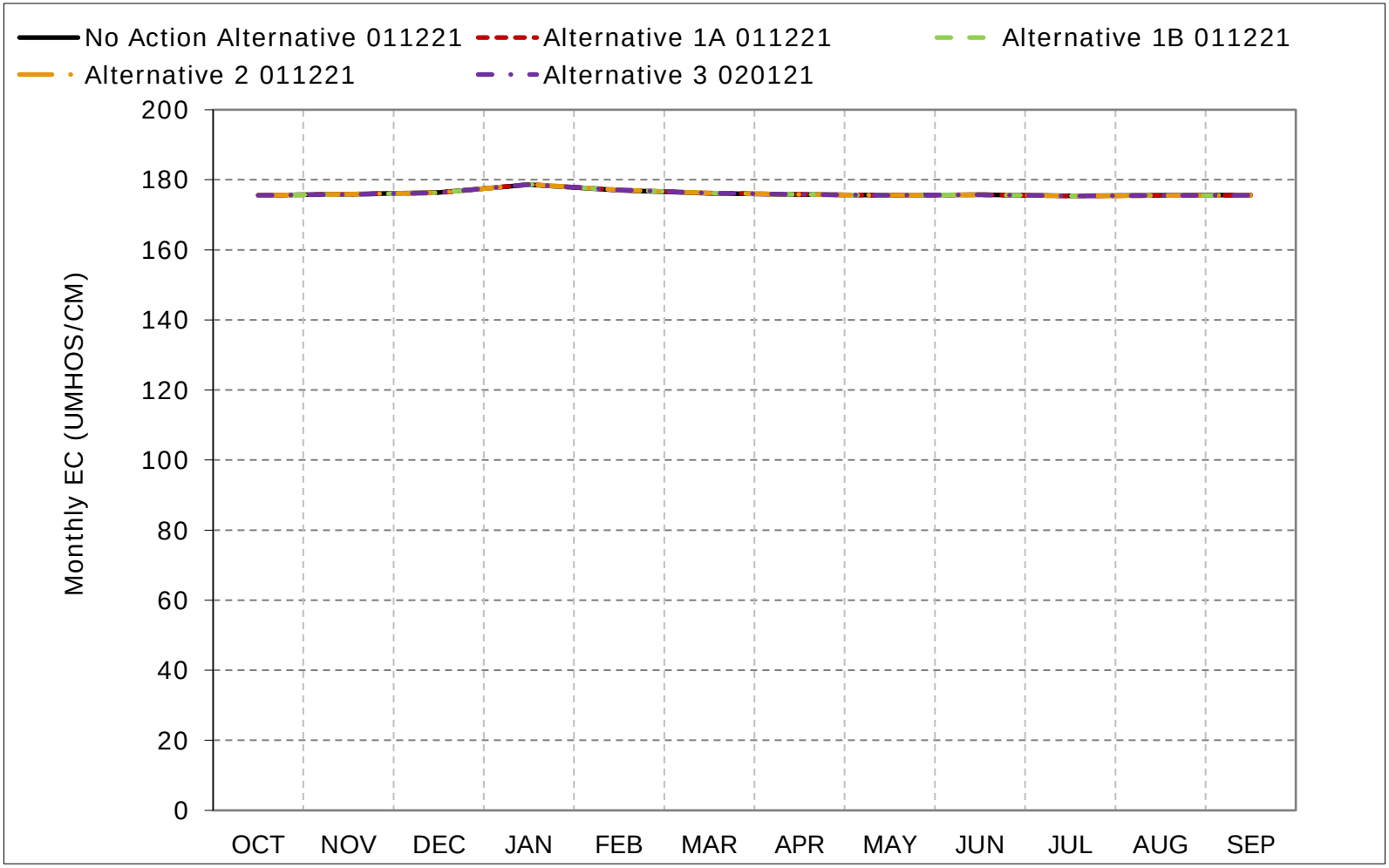


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-4. Sacramento River downstream of Steamboat Slough, Below Normal Year Average EC

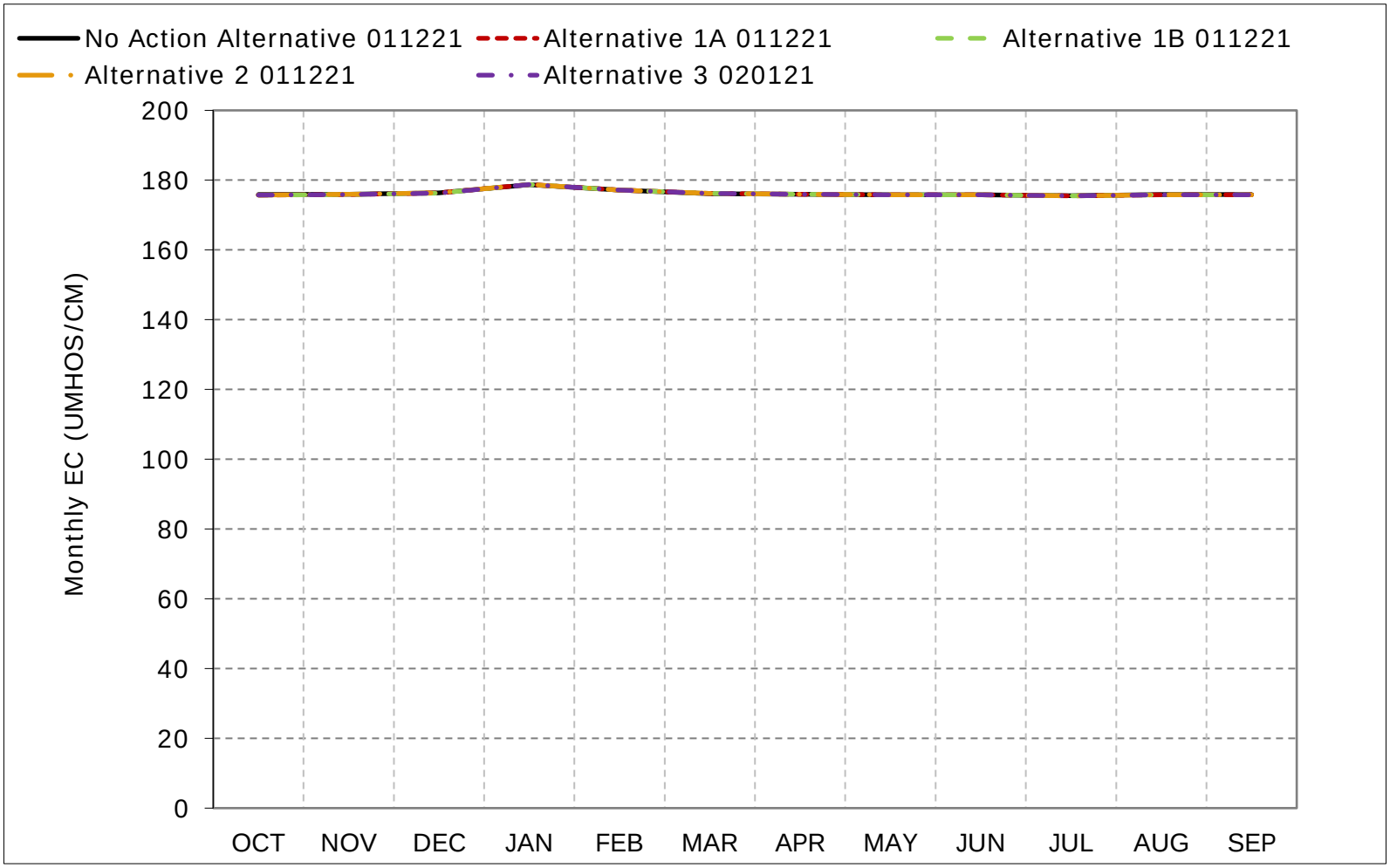


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-5. Sacramento River downstream of Steamboat Slough, Dry Year Average EC

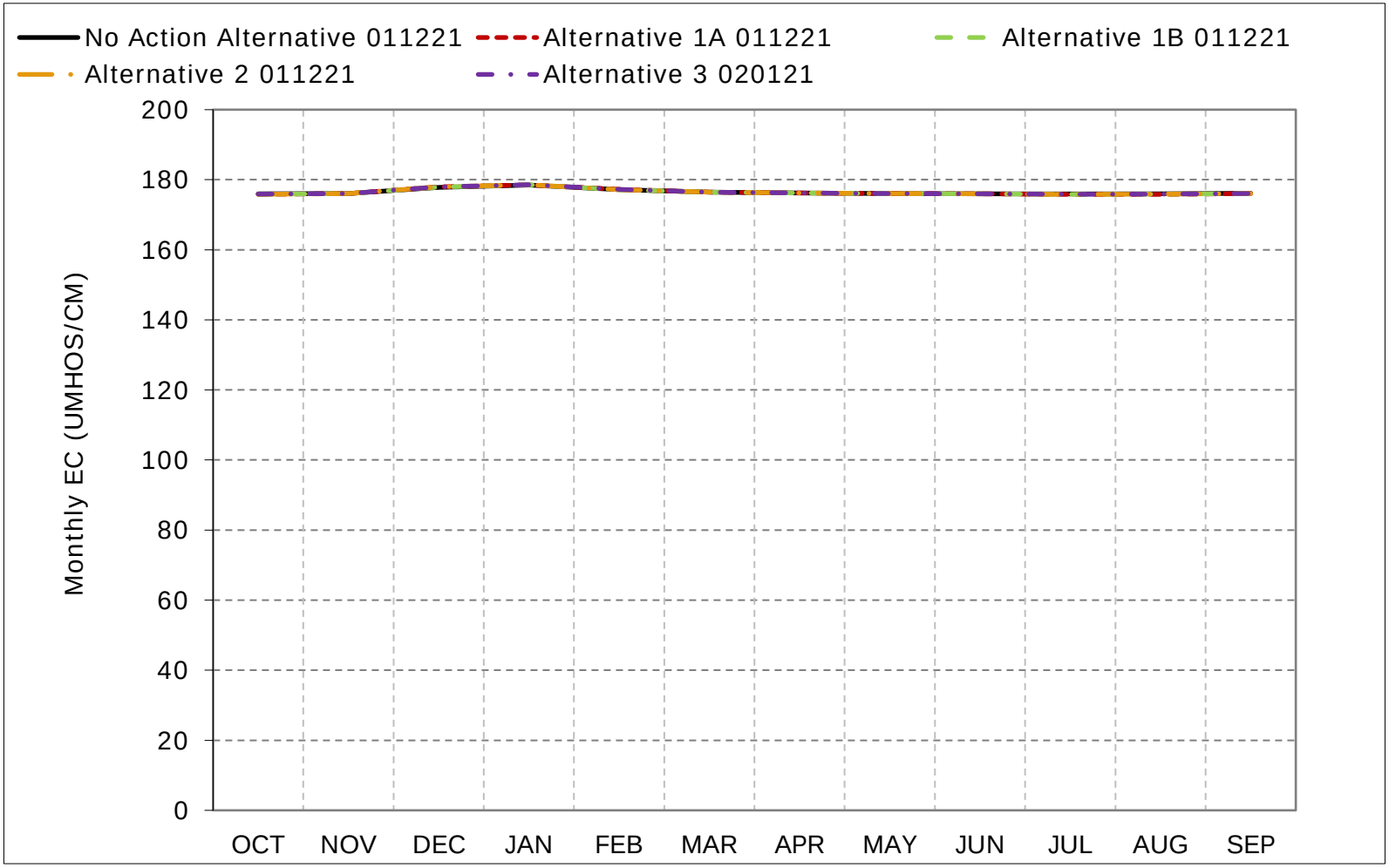


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-6. Sacramento River downstream of Steamboat Slough, Critical Year Average EC

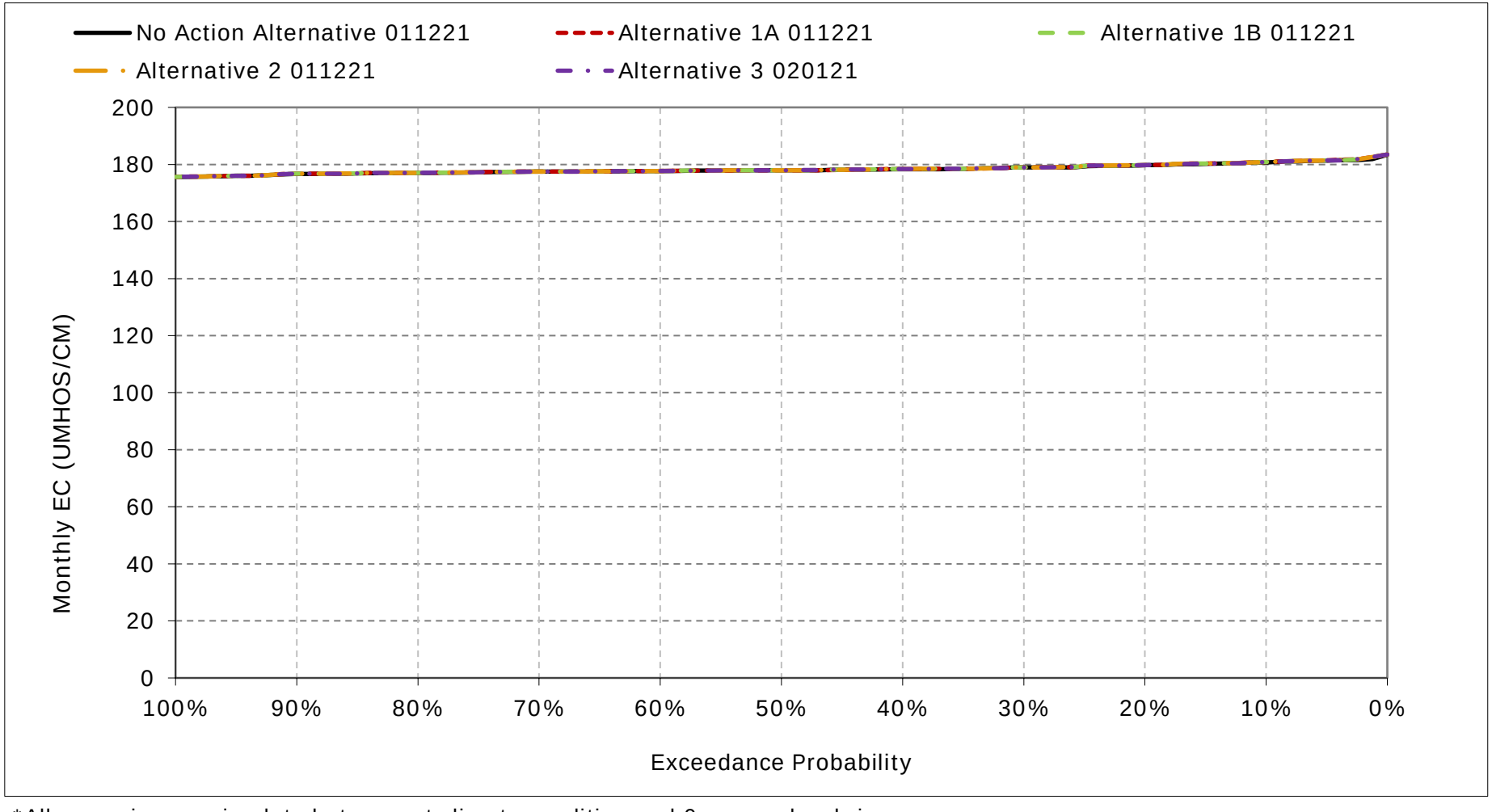


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

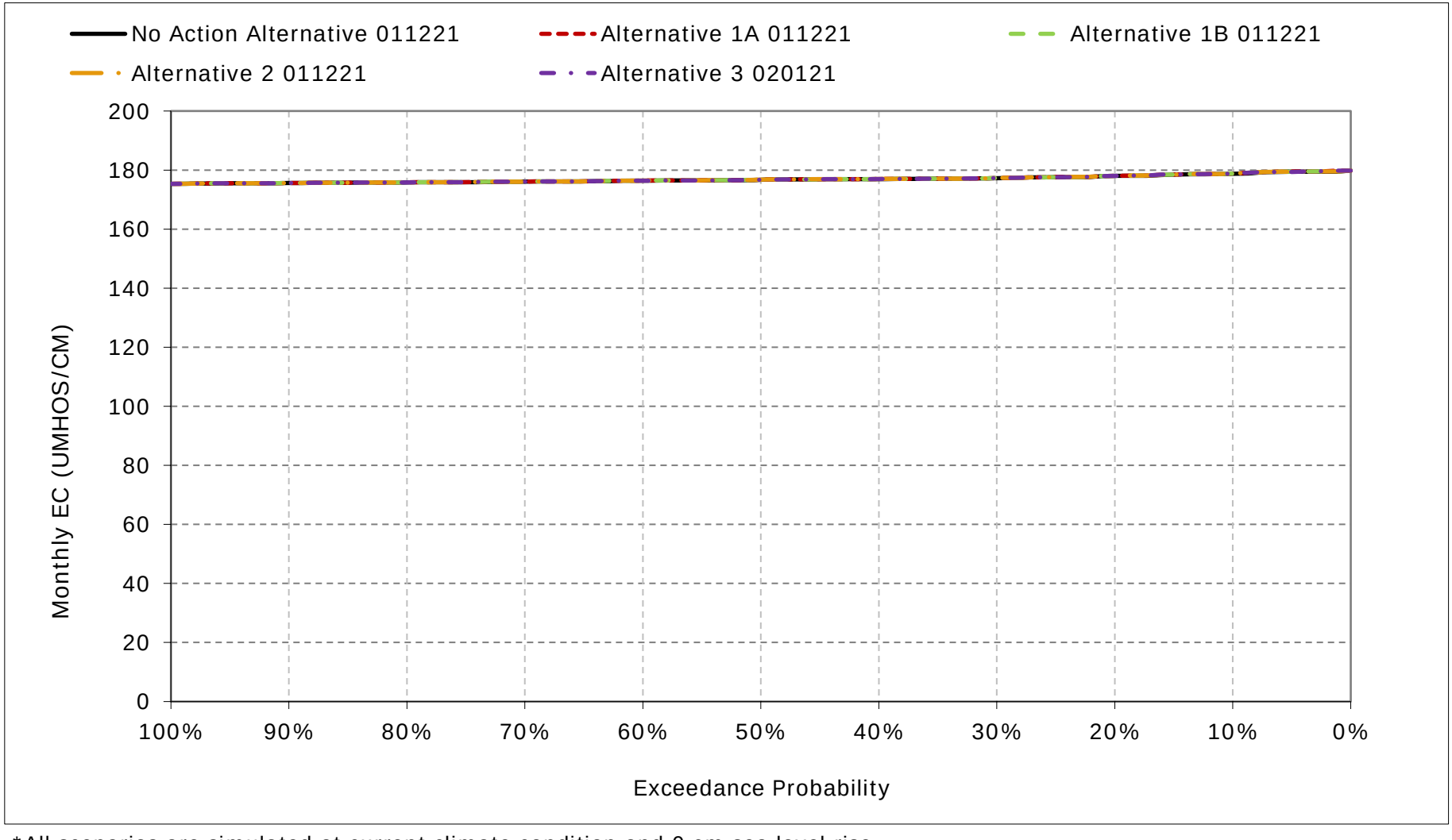
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-7. Sacramento River downstream of Steamboat Slough Salinity, January EC



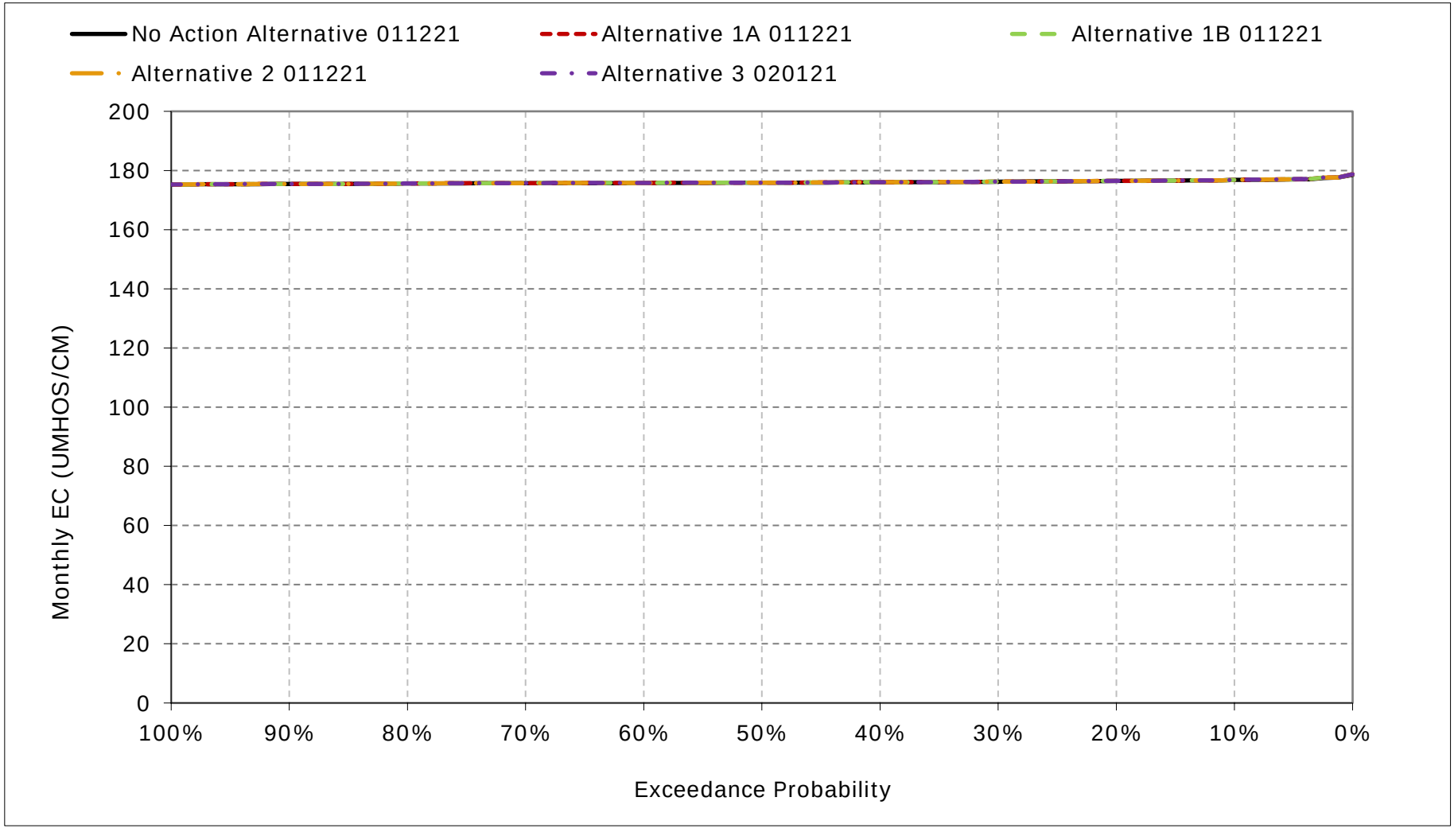
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-8. Sacramento River downstream of Steamboat Slough Salinity, February EC



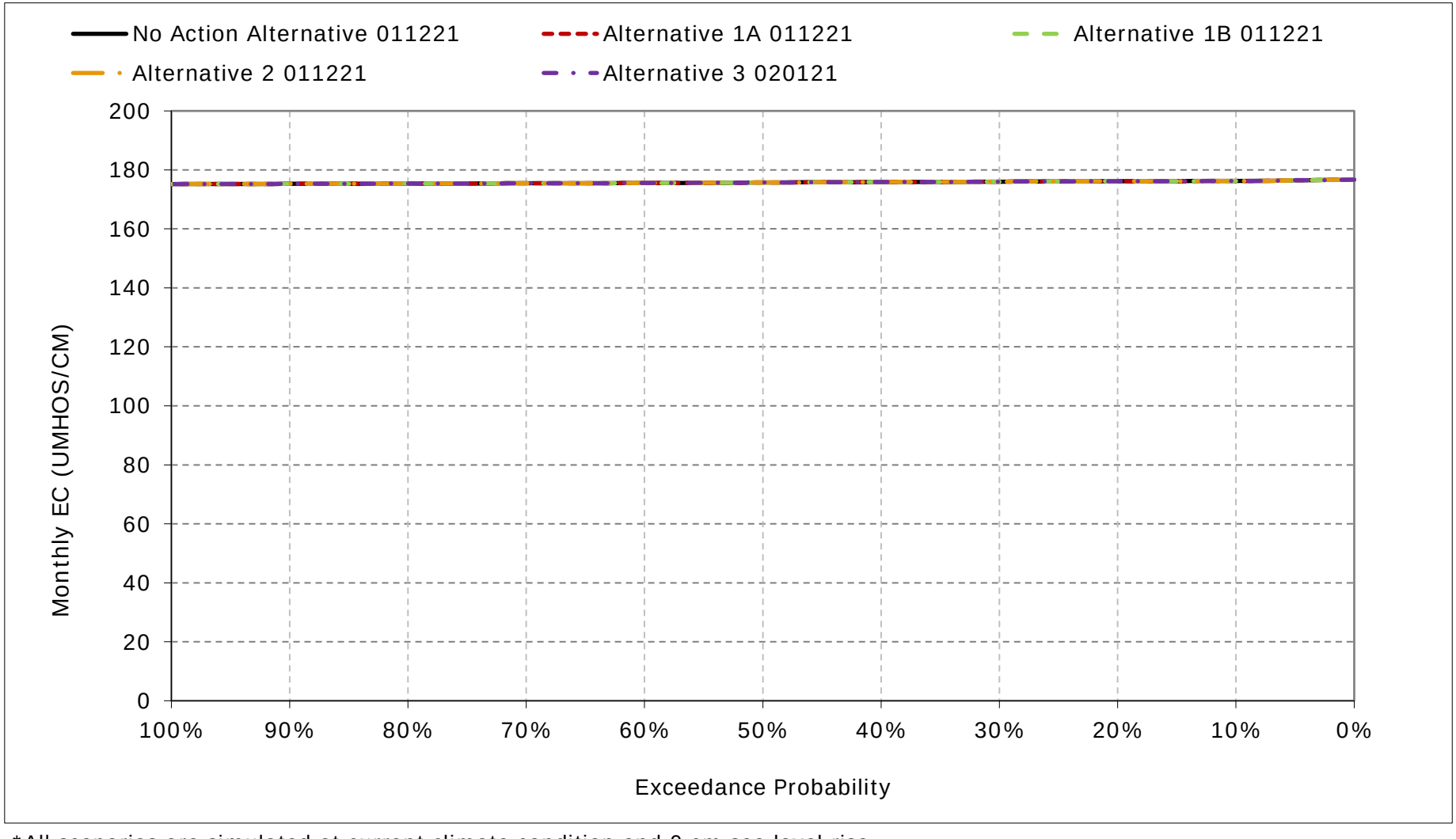
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-9. Sacramento River downstream of Steamboat Slough Salinity, March EC



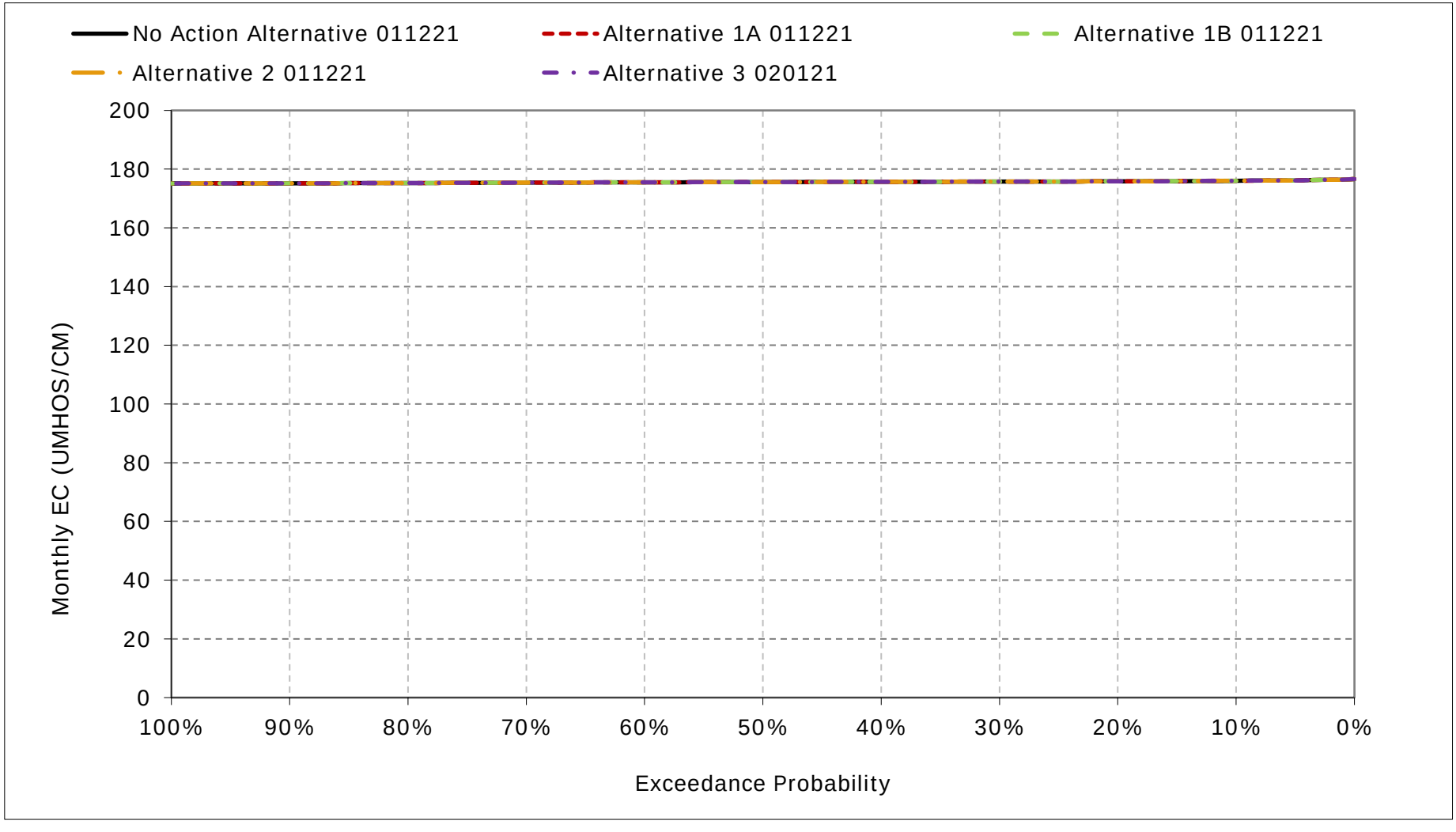
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-10. Sacramento River downstream of Steamboat Slough Salinity, April EC



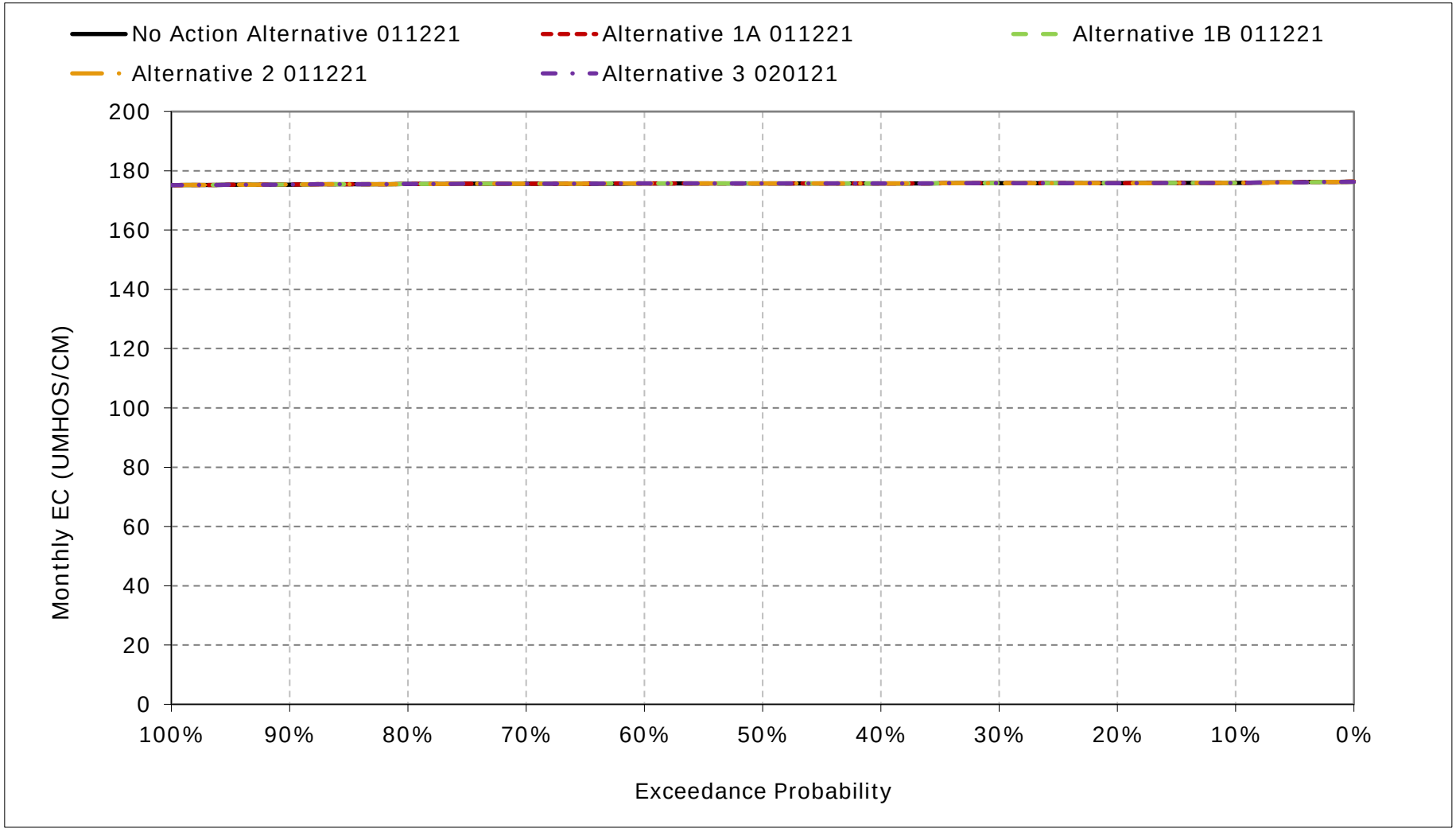
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-11. Sacramento River downstream of Steamboat Slough Salinity, May EC



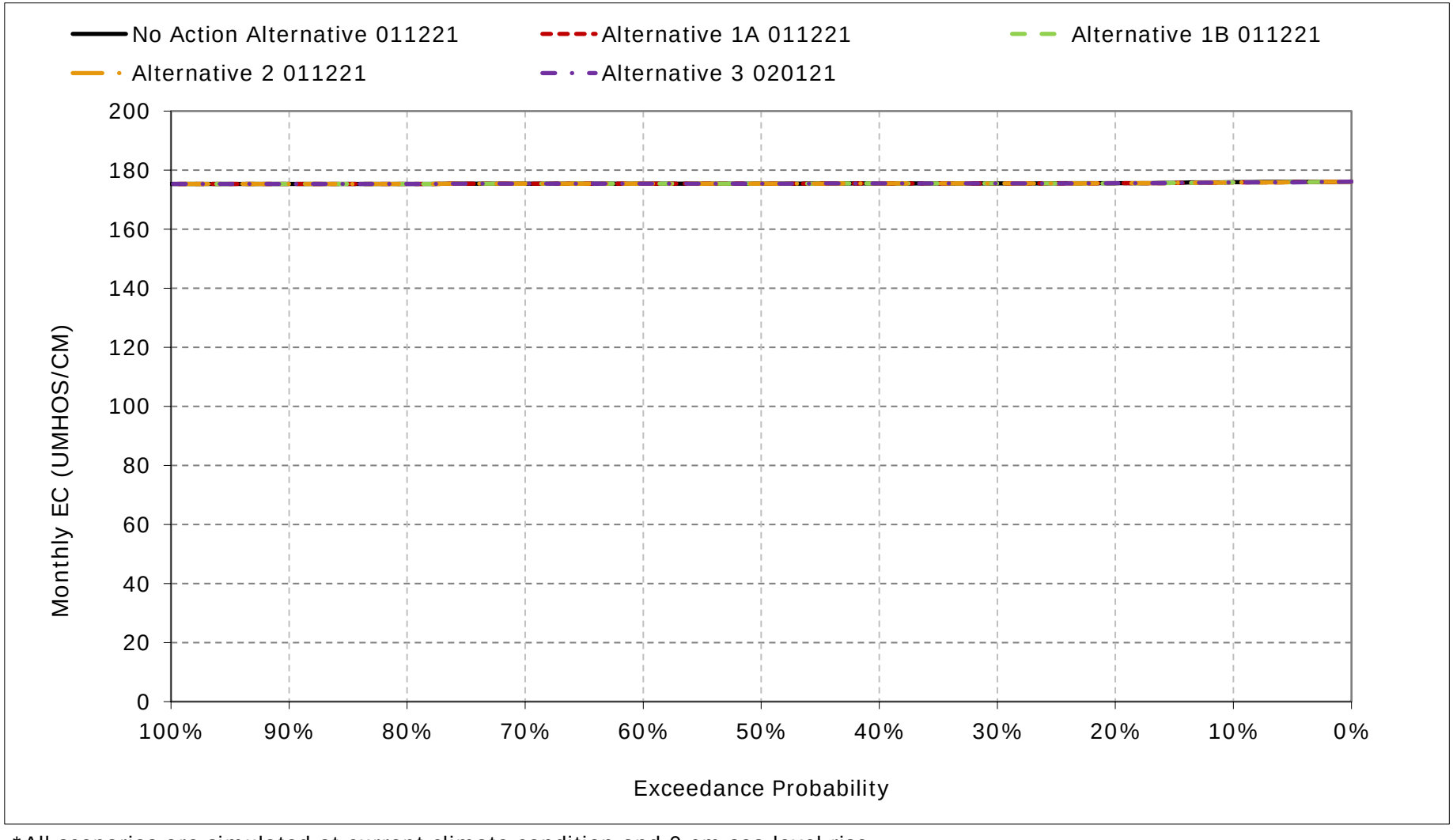
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-12. Sacramento River downstream of Steamboat Slough Salinity, June EC



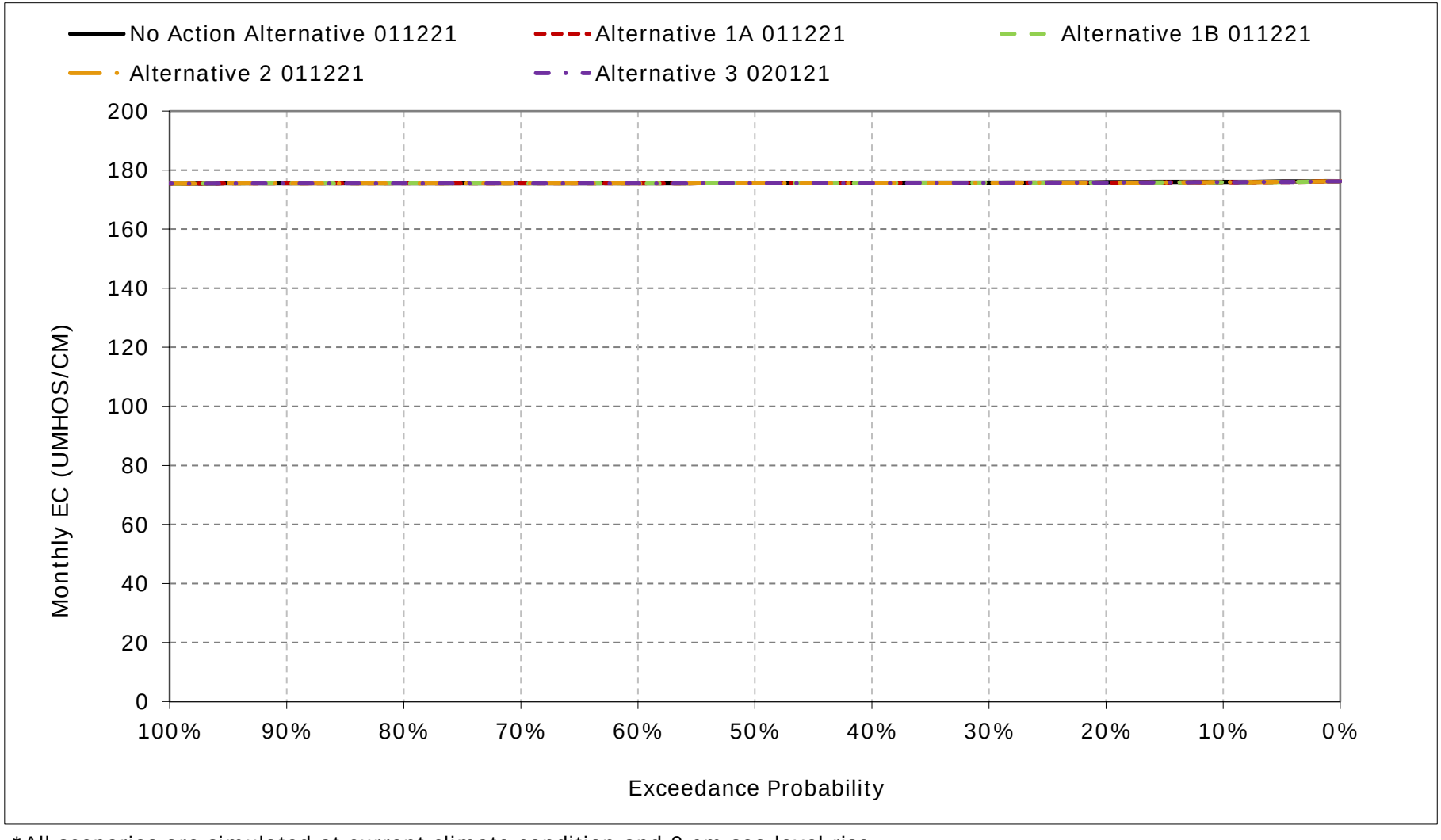
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-13. Sacramento River downstream of Steamboat Slough Salinity, July EC



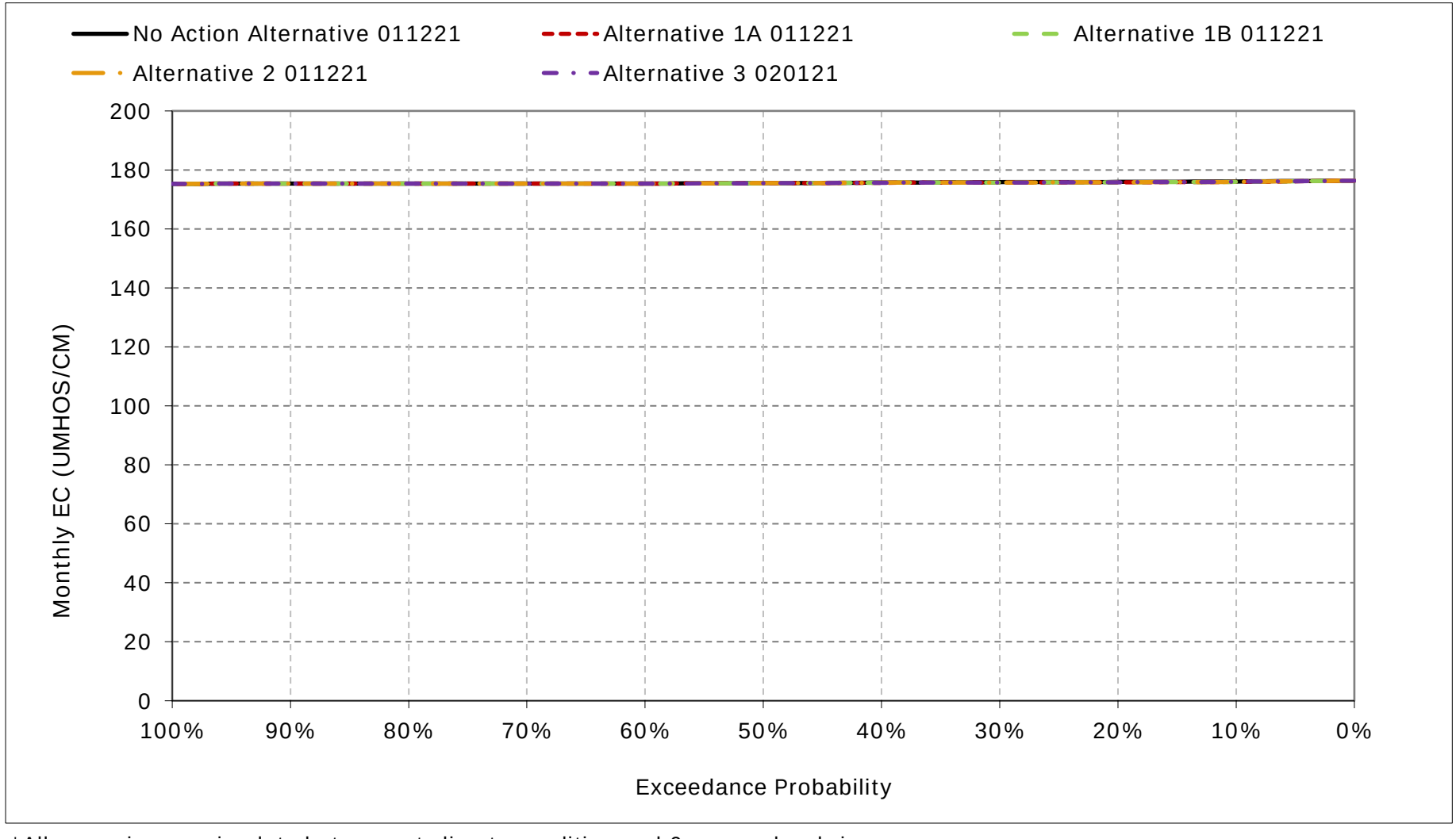
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-14. Sacramento River downstream of Steamboat Slough Salinity, August EC



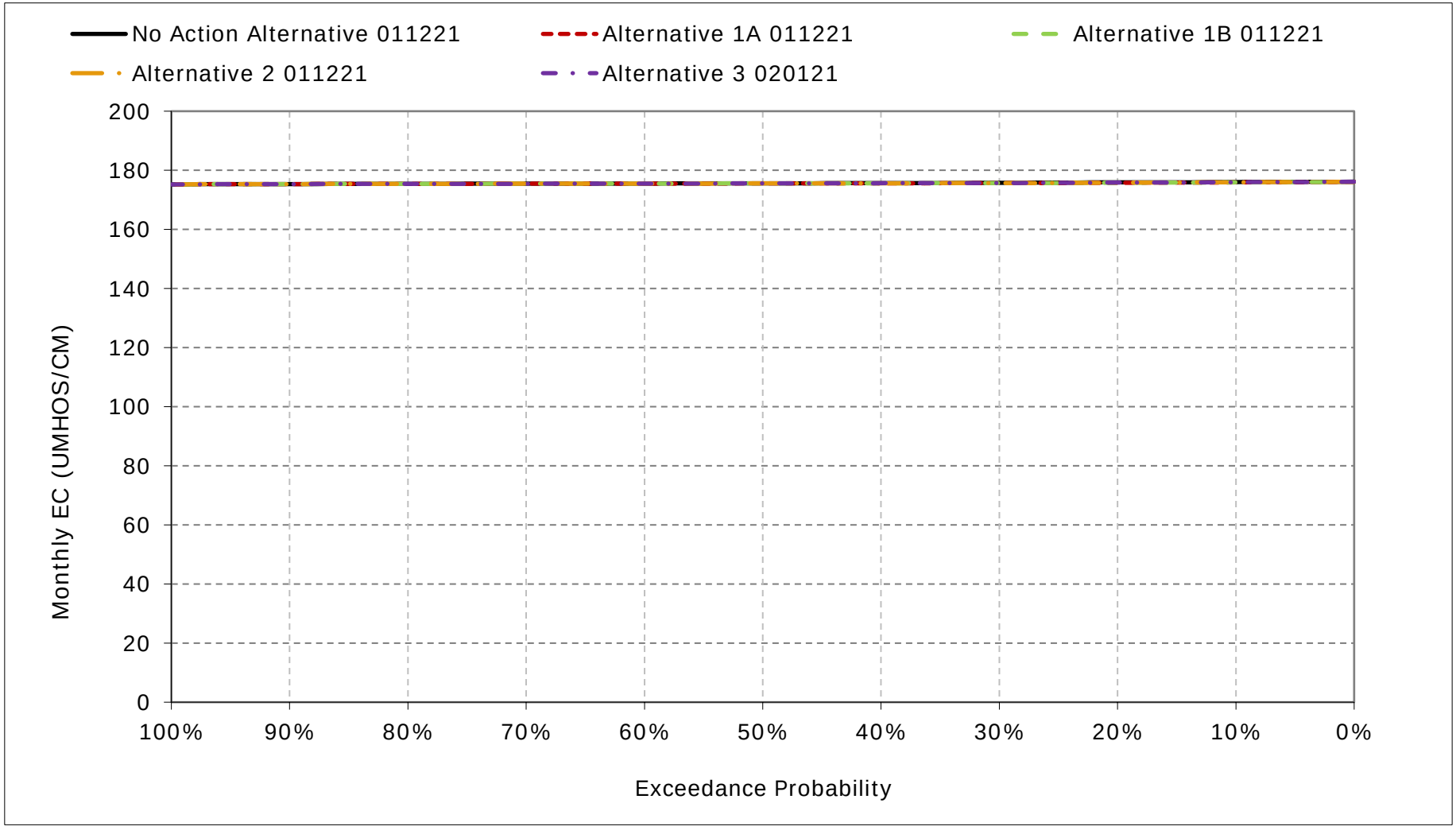
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-15. Sacramento River downstream of Steamboat Slough Salinity, September EC



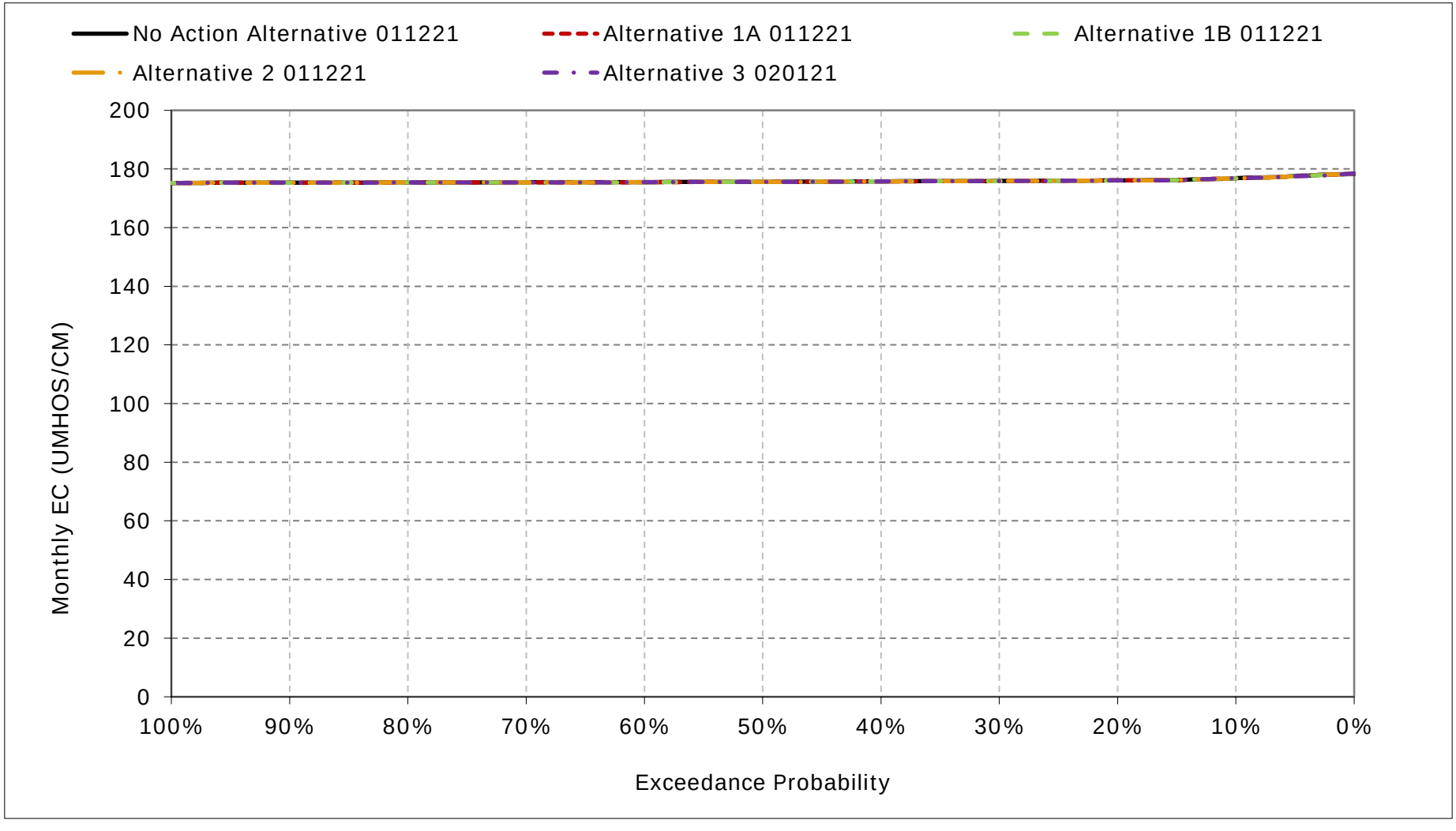
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-16. Sacramento River downstream of Steamboat Slough Salinity, October EC



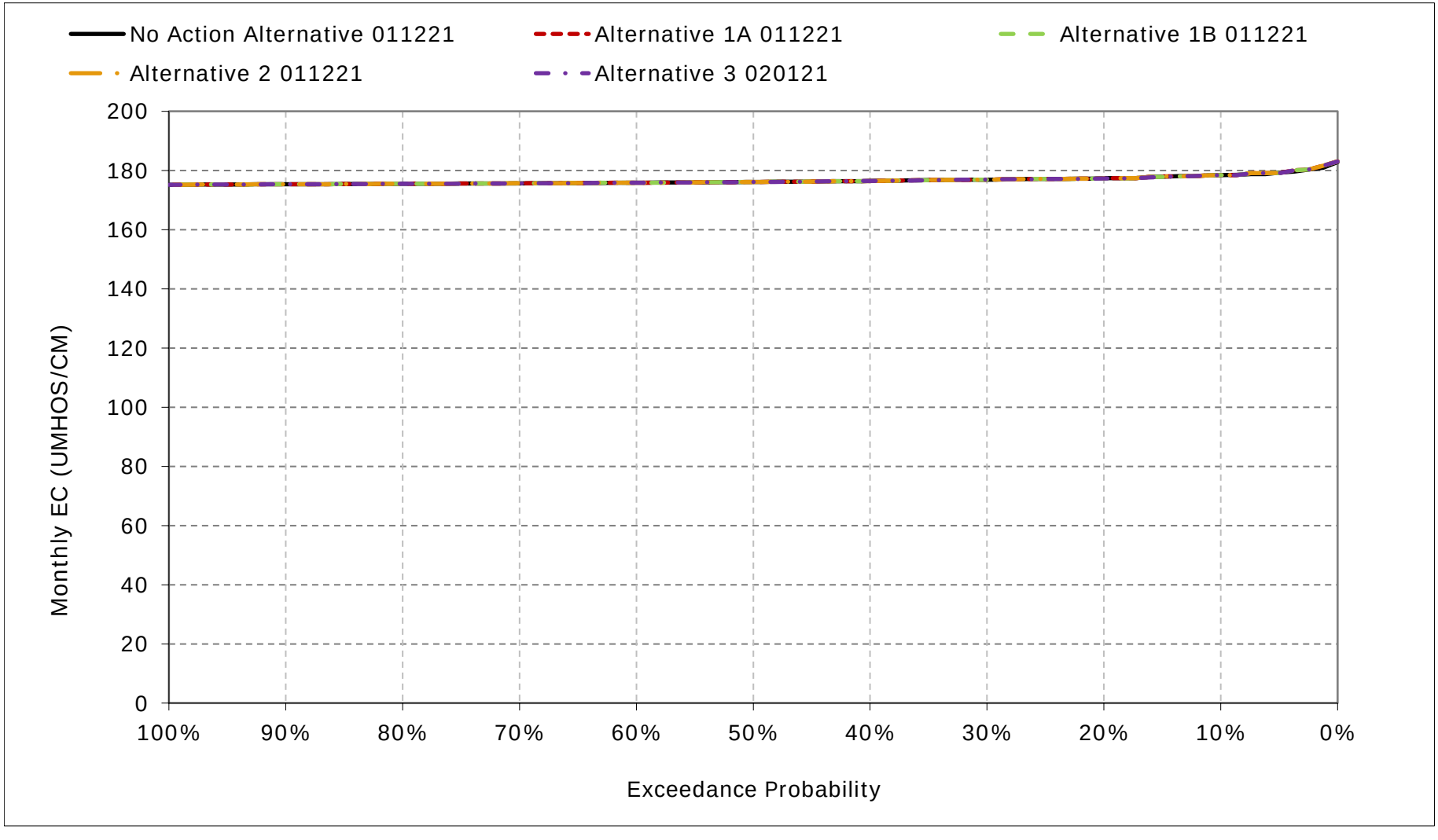
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-17. Sacramento River downstream of Steamboat Slough Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-1-18. Sacramento River downstream of Steamboat Slough Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-2-1a. Cache Slough at Ryer Island, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	187	189	190	202	198	194	187	184	184	185	185	185
20%	184	186	187	197	196	192	186	183	183	181	184	184
30%	183	184	186	193	192	189	185	182	182	181	182	182
40%	182	183	185	191	188	186	184	182	182	180	180	181
50%	181	182	183	189	187	185	183	181	181	180	180	180
60%	181	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	180	179
80%	180	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	182	183	184	191	189	186	183	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	183	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	192	190	184	182	180	181	180	179	179
Below Normal (17%)	182	182	183	192	192	189	184	181	181	180	180	180
Dry (22%)	184	184	185	193	192	188	185	182	182	181	184	183
Critical (15%)	188	191	190	191	193	190	186	184	186	187	186	186

Table 6B1-2-1b. Cache Slough at Ryer Island, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	185	187	191	202	199	194	187	184	185	184	184	183
20%	183	185	187	197	196	192	186	183	183	181	182	182
30%	182	183	186	193	191	189	185	182	182	180	181	181
40%	181	182	185	191	188	186	184	182	182	180	180	180
50%	181	181	183	189	187	185	183	181	181	180	180	180
60%	180	181	182	188	186	184	182	181	181	180	180	179
70%	180	180	181	187	185	183	182	180	181	180	179	179
80%	179	180	180	185	184	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	181	183	184	191	189	187	183	181	182	181	181	180
Water Year Types[b]												
Wet (32%)	180	181	182	189	184	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	193	191	185	182	180	181	180	179	179
Below Normal (17%)	181	182	183	192	192	189	184	181	181	180	179	180
Dry (22%)	182	183	184	193	192	189	185	182	182	180	182	182
Critical (15%)	185	189	191	191	193	190	186	184	187	186	184	185

Table 6B1-2-1c. Cache Slough at Ryer Island, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-2	0	0	0	1	0	0	1	-1	-1	-3
20%	-2	-1	-1	0	0	1	0	0	0	0	-2	-2
30%	-2	-1	0	0	0	0	0	0	0	0	-1	-1
40%	-1	-1	0	0	0	0	0	0	0	0	0	-1
50%	0	0	0	0	1	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-1	-1	0	0	0	0	0	0	0	0	-1	-1
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Below Normal (17%)	-1	-1	0	0	1	1	0	0	0	0	0	0
Dry (22%)	-2	-1	0	0	0	0	0	0	0	0	-2	-1
Critical (15%)	-3	-2	0	0	0	0	0	0	0	-1	-2	-2

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-2-2a. Cache Slough at Ryer Island, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	187	189	190	202	198	194	187	184	184	185	185	185
20%	184	186	187	197	196	192	186	183	183	181	184	184
30%	183	184	186	193	192	189	185	182	182	181	182	182
40%	182	183	185	191	188	186	184	182	182	180	180	181
50%	181	182	183	189	187	185	183	181	181	180	180	180
60%	181	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	180	179
80%	180	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	182	183	184	191	189	186	183	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	183	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	192	190	184	182	180	181	180	179	179
Below Normal (17%)	182	182	183	192	192	189	184	181	181	180	180	180
Dry (22%)	184	184	185	193	192	188	185	182	182	181	184	183
Critical (15%)	188	191	190	191	193	190	186	184	186	187	186	186

Table 6B1-2-2b. Cache Slough at Ryer Island, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	185	188	191	202	199	194	187	184	185	184	184	183
20%	183	184	187	197	196	192	186	183	183	181	182	182
30%	182	183	186	193	191	189	185	182	182	180	181	181
40%	181	182	185	191	188	186	184	182	182	180	180	180
50%	181	181	183	189	187	185	183	181	181	180	180	180
60%	180	181	182	188	186	184	182	180	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	179	179	179
80%	179	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	181	183	184	191	189	187	183	181	182	181	181	180
Water Year Types[b]												
Wet (32%)	180	181	182	189	184	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	193	191	185	182	180	181	180	179	179
Below Normal (17%)	181	182	183	192	192	189	184	181	181	180	179	180
Dry (22%)	182	183	185	193	192	189	185	182	182	180	182	182
Critical (15%)	186	189	190	191	193	190	186	184	187	186	184	185

Table 6B1-2-2c. Cache Slough at Ryer Island, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-2	1	0	0	1	0	0	1	-1	-1	-2
20%	-2	-1	-1	0	0	1	0	0	0	0	-2	-2
30%	-2	-1	0	0	0	1	0	0	0	0	-1	-1
40%	-1	-1	0	0	0	0	0	0	0	0	0	-1
50%	0	0	0	0	1	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-1	-1	0	0	0	0	0	0	0	0	-1	-1
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	-1	-1	0	0	1	1	0	0	0	0	0	0
Dry (22%)	-2	-1	0	0	0	0	0	0	0	0	-2	-1
Critical (15%)	-3	-2	0	0	0	0	0	0	0	-1	-2	-2

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-2-3a. Cache Slough at Ryer Island, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	187	189	190	202	198	194	187	184	184	185	185	185
20%	184	186	187	197	196	192	186	183	183	181	184	184
30%	183	184	186	193	192	189	185	182	182	181	182	182
40%	182	183	185	191	188	186	184	182	182	180	180	181
50%	181	182	183	189	187	185	183	181	181	180	180	180
60%	181	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	180	179
80%	180	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	182	183	184	191	189	186	183	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	183	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	192	190	184	182	180	181	180	179	179
Below Normal (17%)	182	182	183	192	192	189	184	181	181	180	180	180
Dry (22%)	184	184	185	193	192	188	185	182	182	181	184	183
Critical (15%)	188	191	190	191	193	190	186	184	186	187	186	186

Table 6B1-2-3b. Cache Slough at Ryer Island, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	185	188	191	202	199	194	187	184	185	185	184	183
20%	183	185	187	197	196	192	186	183	183	181	182	182
30%	182	183	186	193	191	189	185	182	182	181	181	181
40%	181	182	184	191	188	186	184	182	182	180	180	180
50%	181	181	183	190	187	185	183	181	181	180	180	180
60%	180	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	179	179
80%	179	180	180	185	184	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	181	183	184	191	189	187	184	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	184	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	193	190	185	182	180	181	180	179	179
Below Normal (17%)	181	182	183	192	192	189	184	181	181	180	179	180
Dry (22%)	183	184	185	193	192	188	185	182	182	181	182	182
Critical (15%)	186	189	190	191	193	190	186	184	187	186	185	185

Table 6B1-2-3c. Cache Slough at Ryer Island, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-1	0	1	0	1	0	0	1	-1	-1	-3
20%	-1	0	-1	0	0	1	0	0	0	0	-2	-2
30%	-2	-1	0	0	0	0	0	0	0	0	-1	-1
40%	-1	-1	0	0	0	0	0	0	0	0	0	-1
50%	0	0	0	1	1	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-1	0	0	0	0	0	0	0	0	0	-1	-1
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Below Normal (17%)	-1	-1	0	0	0	1	0	0	0	0	0	0
Dry (22%)	-2	-1	0	0	0	0	0	0	0	0	-2	-1
Critical (15%)	-2	-2	0	0	0	0	0	0	0	-1	-1	-1

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-2-4a. Cache Slough at Ryer Island, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	187	189	190	202	198	194	187	184	184	185	185	185
20%	184	186	187	197	196	192	186	183	183	181	184	184
30%	183	184	186	193	192	189	185	182	182	181	182	182
40%	182	183	185	191	188	186	184	182	182	180	180	181
50%	181	182	183	189	187	185	183	181	181	180	180	180
60%	181	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	180	179
80%	180	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	179
Long Term												
Full Simulation Period[a]	182	183	184	191	189	186	183	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	183	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	192	190	184	182	180	181	180	179	179
Below Normal (17%)	182	182	183	192	192	189	184	181	181	180	180	180
Dry (22%)	184	184	185	193	192	188	185	182	182	181	184	183
Critical (15%)	188	191	190	191	193	190	186	184	186	187	186	186

Table 6B1-2-4b. Cache Slough at Ryer Island, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	186	188	191	202	199	194	187	184	184	185	184	184
20%	184	185	187	197	196	193	186	183	183	181	183	182
30%	182	183	186	193	192	189	185	182	182	180	181	181
40%	181	182	184	191	188	187	184	182	182	180	180	180
50%	181	181	183	189	187	185	183	181	181	180	180	179
60%	180	181	182	188	186	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	179	179
80%	180	180	180	185	183	182	181	179	180	179	179	179
90%	179	179	179	182	181	180	179	178	179	179	179	178
Long Term												
Full Simulation Period[a]	182	183	184	191	189	187	183	181	182	181	181	181
Water Year Types[b]												
Wet (32%)	180	181	182	189	184	183	182	180	180	180	180	179
Above Normal (15%)	180	180	185	193	190	185	182	180	181	180	179	179
Below Normal (17%)	181	182	183	192	192	189	184	181	181	180	179	180
Dry (22%)	183	183	185	193	192	189	185	182	182	180	182	182
Critical (15%)	186	189	190	191	193	190	186	184	187	186	184	185

Table 6B1-2-4c. Cache Slough at Ryer Island, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-1	0	0	0	0	0	0	0	-1	-1	-1
20%	0	0	0	0	0	1	0	0	0	0	-1	-2
30%	-2	-1	0	0	0	0	0	0	0	0	-1	-1
40%	-1	-1	0	0	0	0	0	0	0	0	0	-1
50%	0	0	0	0	1	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-1	0	0	0	0	0	0	0	0	0	-1	-1
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	-1	0	0	0	1	1	0	0	0	0	0	0
Dry (22%)	-1	-1	0	0	0	0	0	0	0	0	-1	-1
Critical (15%)	-2	-2	0	0	0	0	0	0	0	-1	-2	-1

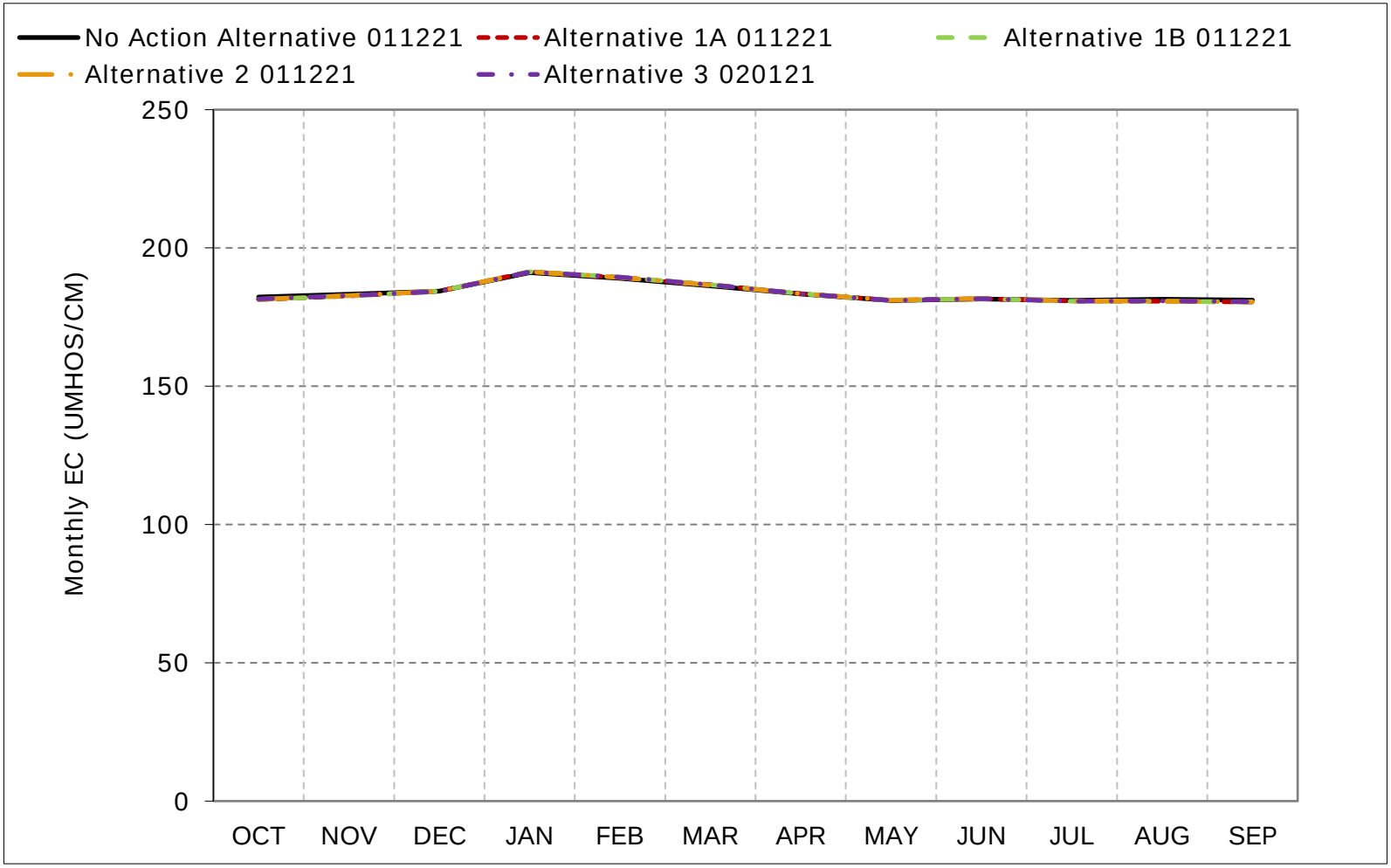
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-1. Cache Slough at Ryer Island, Long-Term Average EC

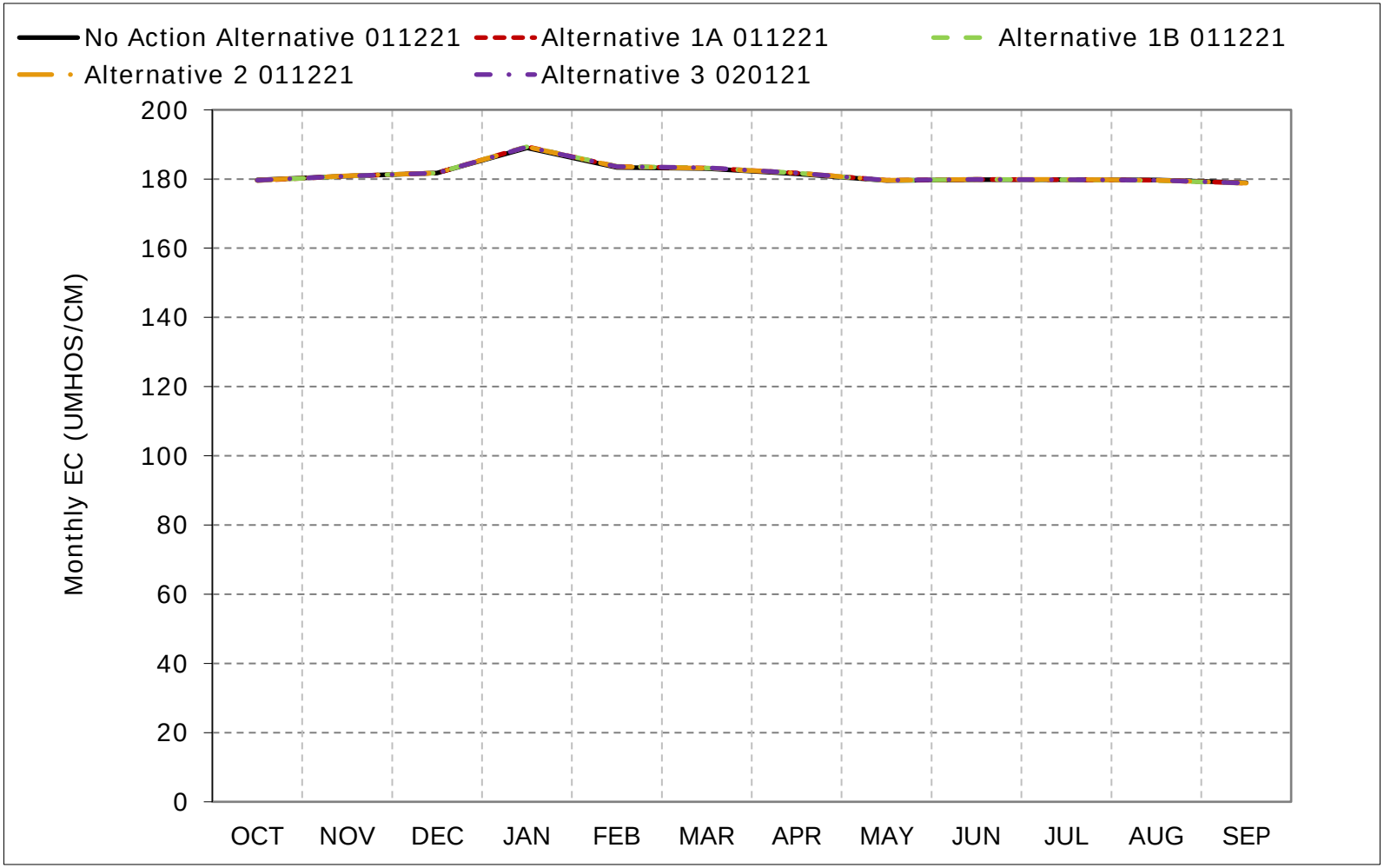


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-2. Cache Slough at Ryer Island, Wet Year Average EC

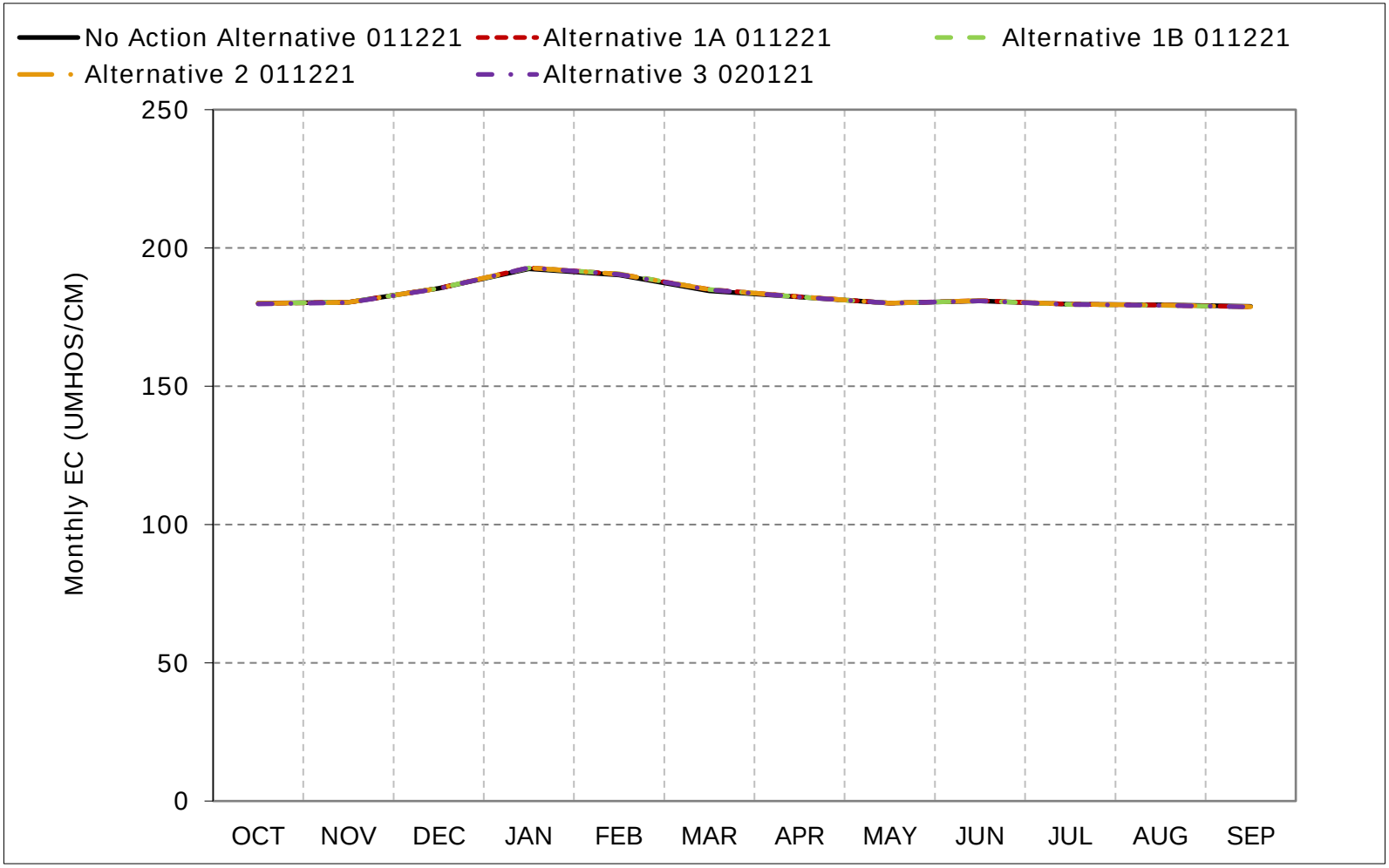


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-3. Cache Slough at Ryer Island, Above Normal Year Average EC

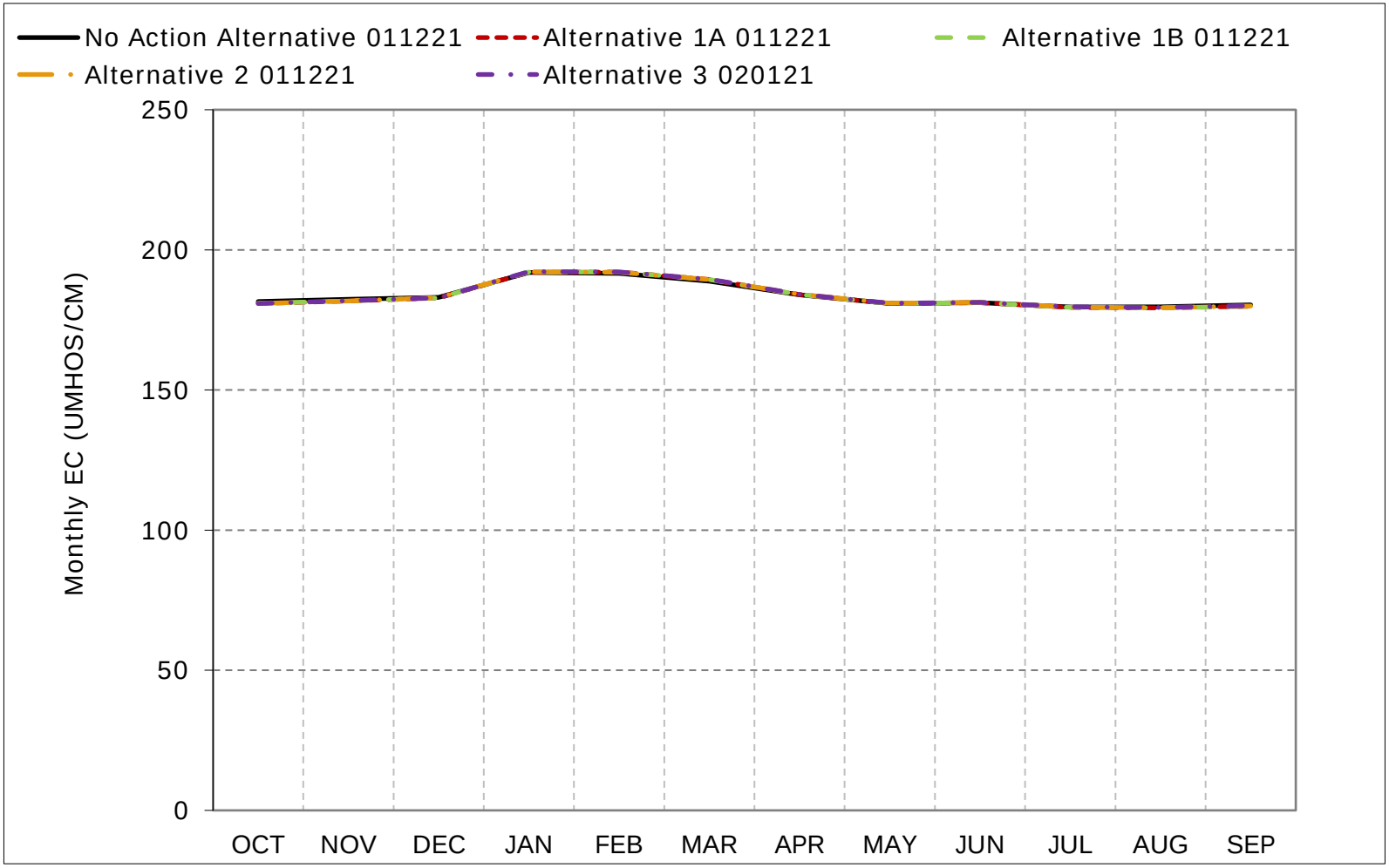


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-4. Cache Slough at Ryer Island, Below Normal Year Average EC

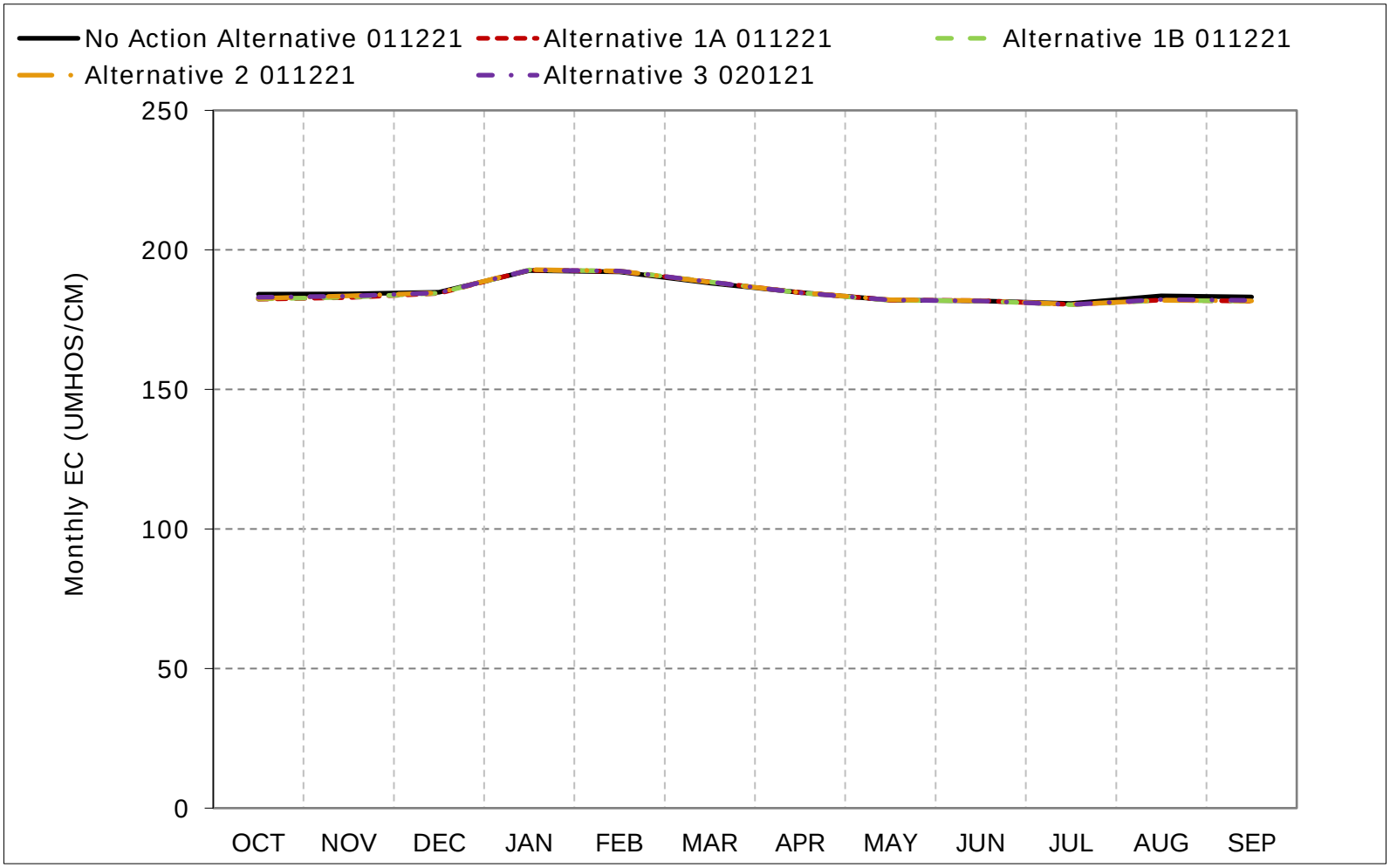


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-5. Cache Slough at Ryer Island, Dry Year Average EC

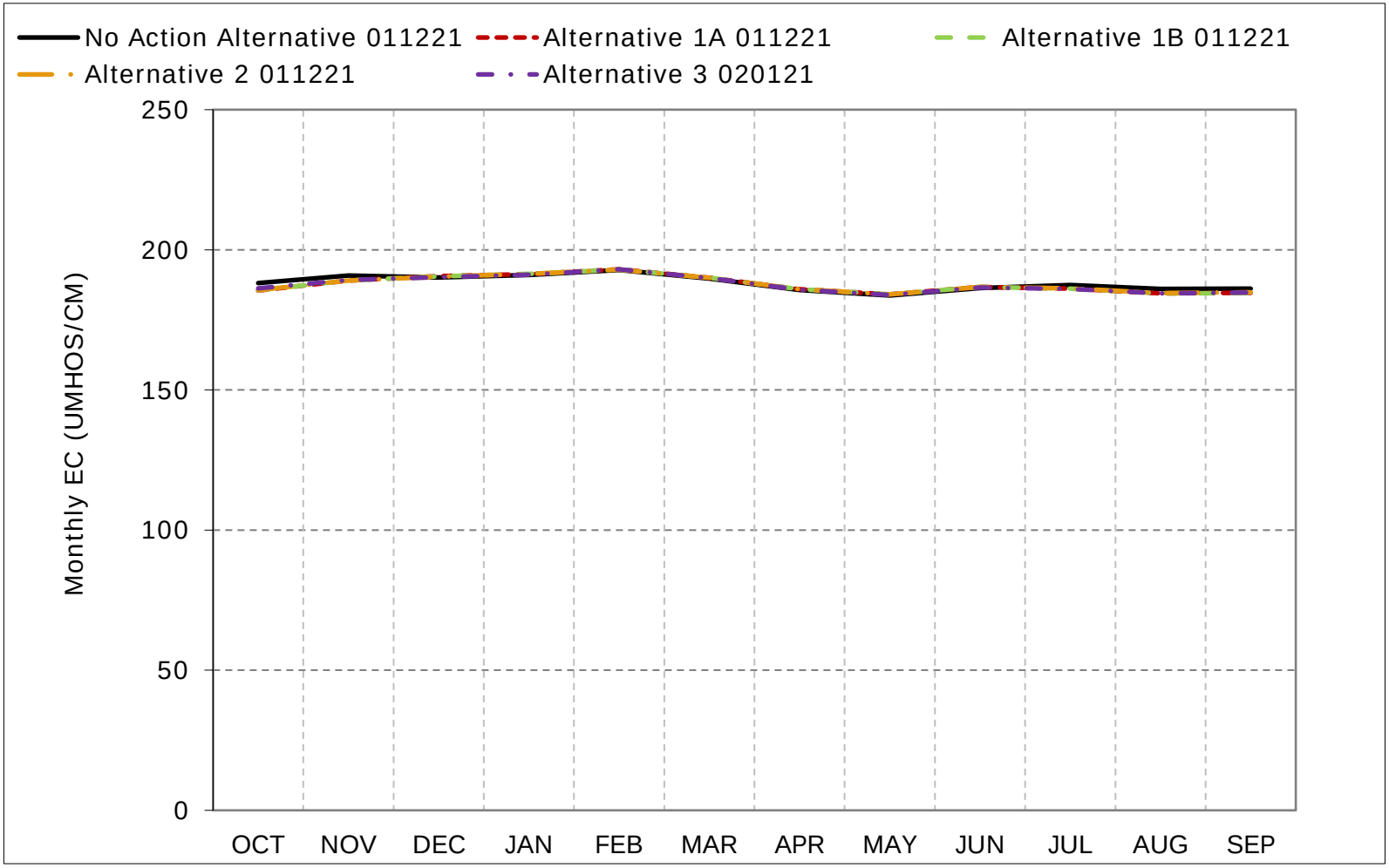


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-6. Cache Slough at Ryer Island, Critical Year Average EC

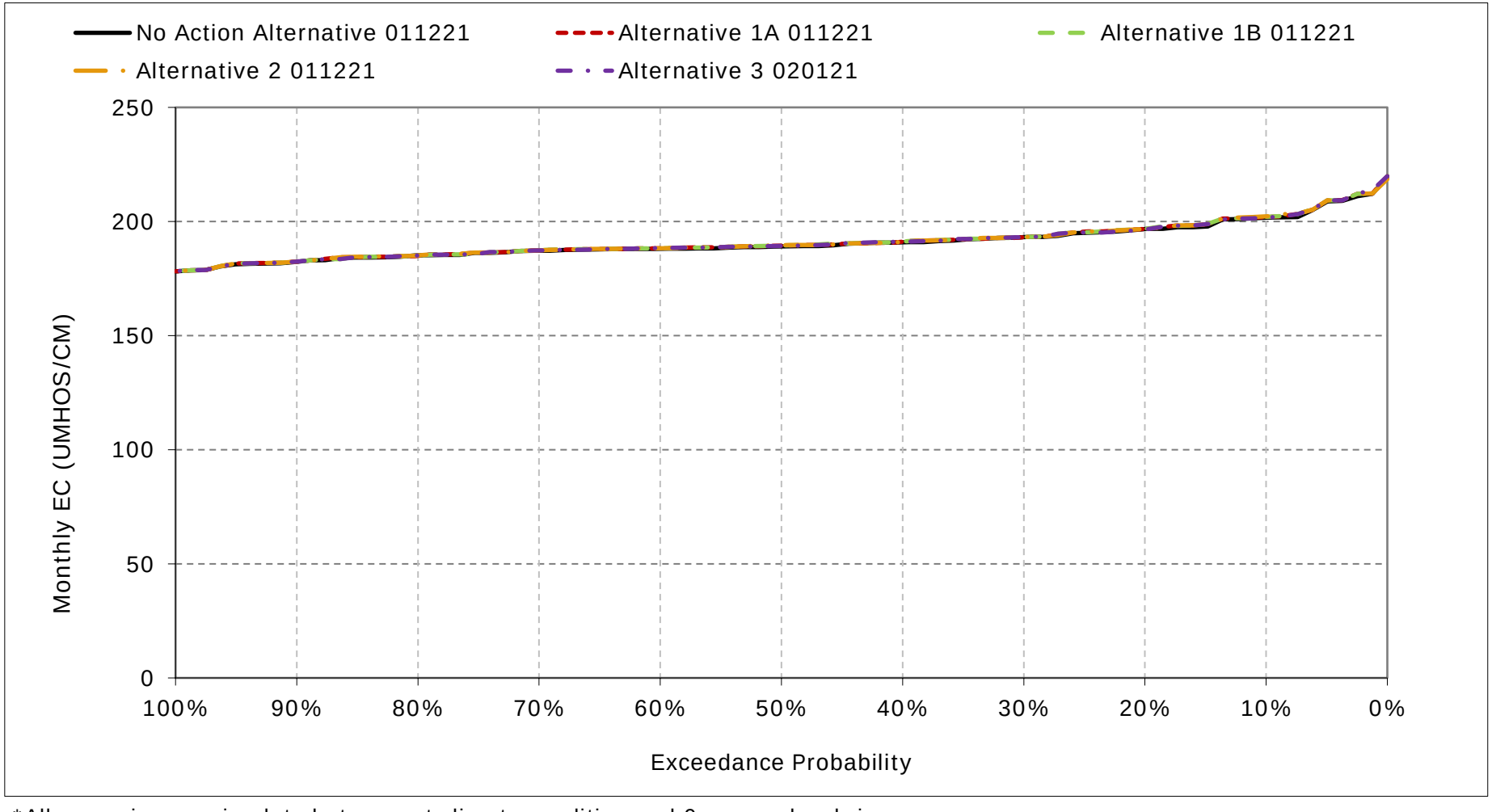


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

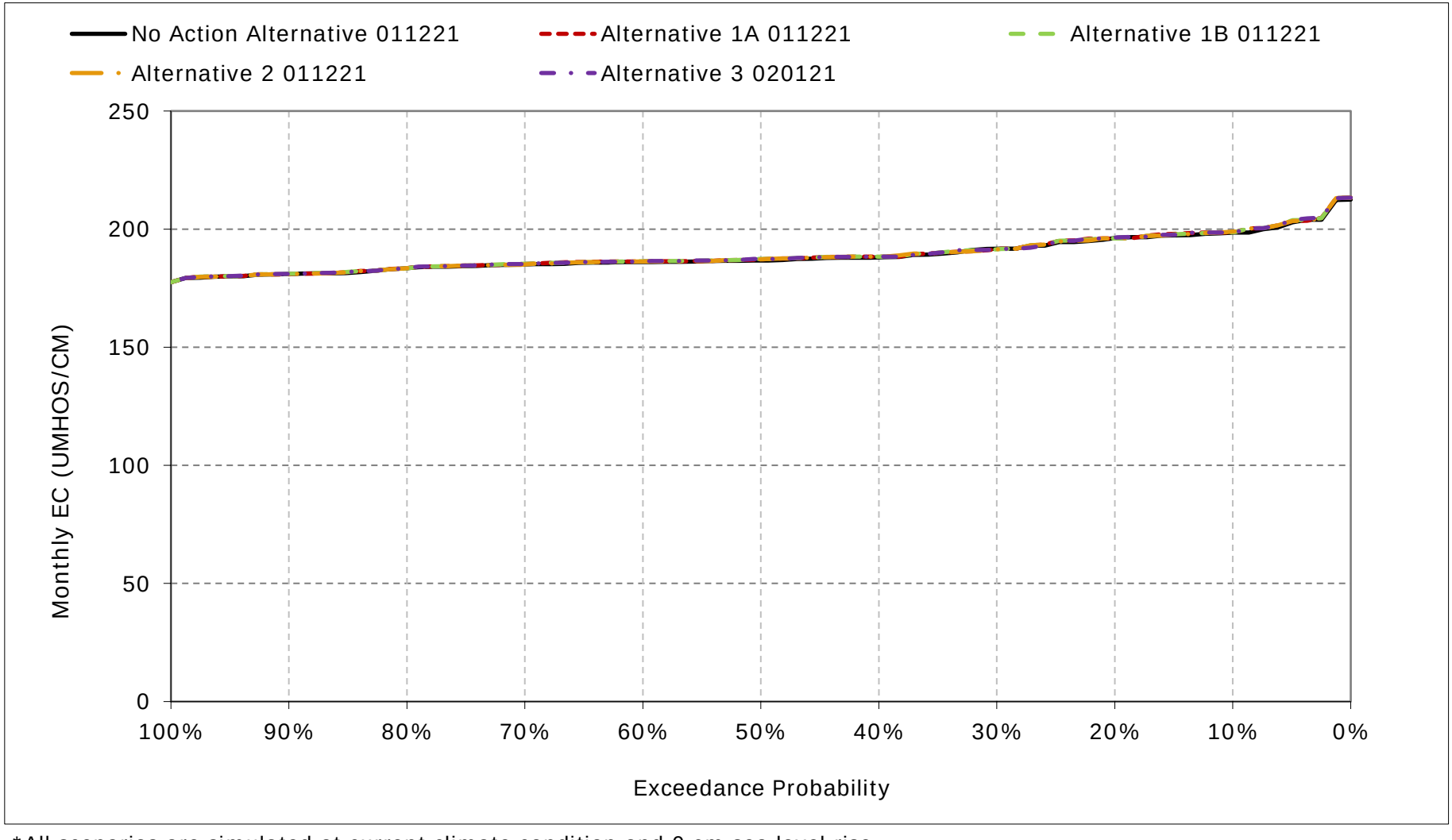
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-7. Cache Slough at Ryer Island Salinity, January EC



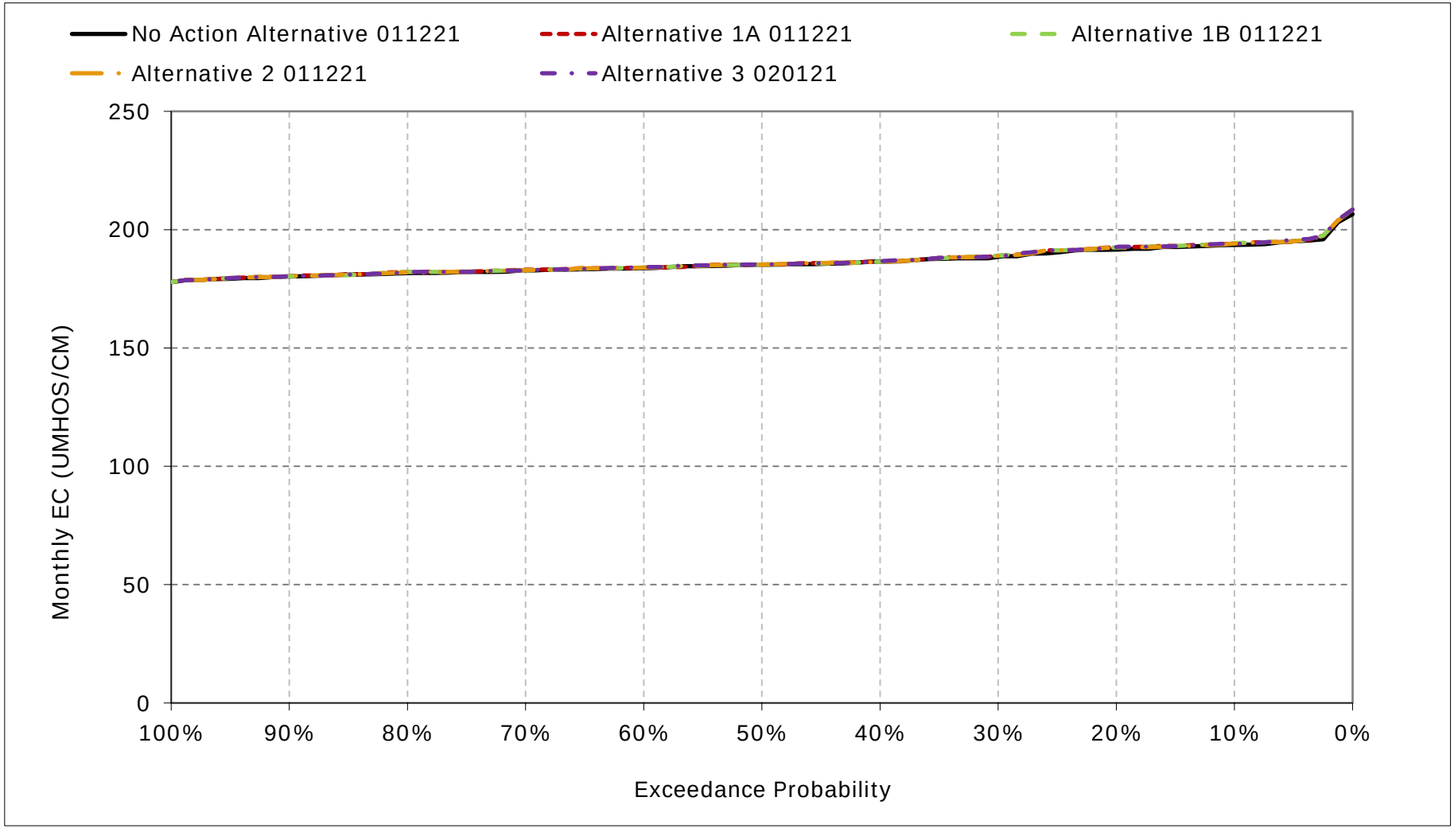
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-8. Cache Slough at Ryer Island Salinity, February EC



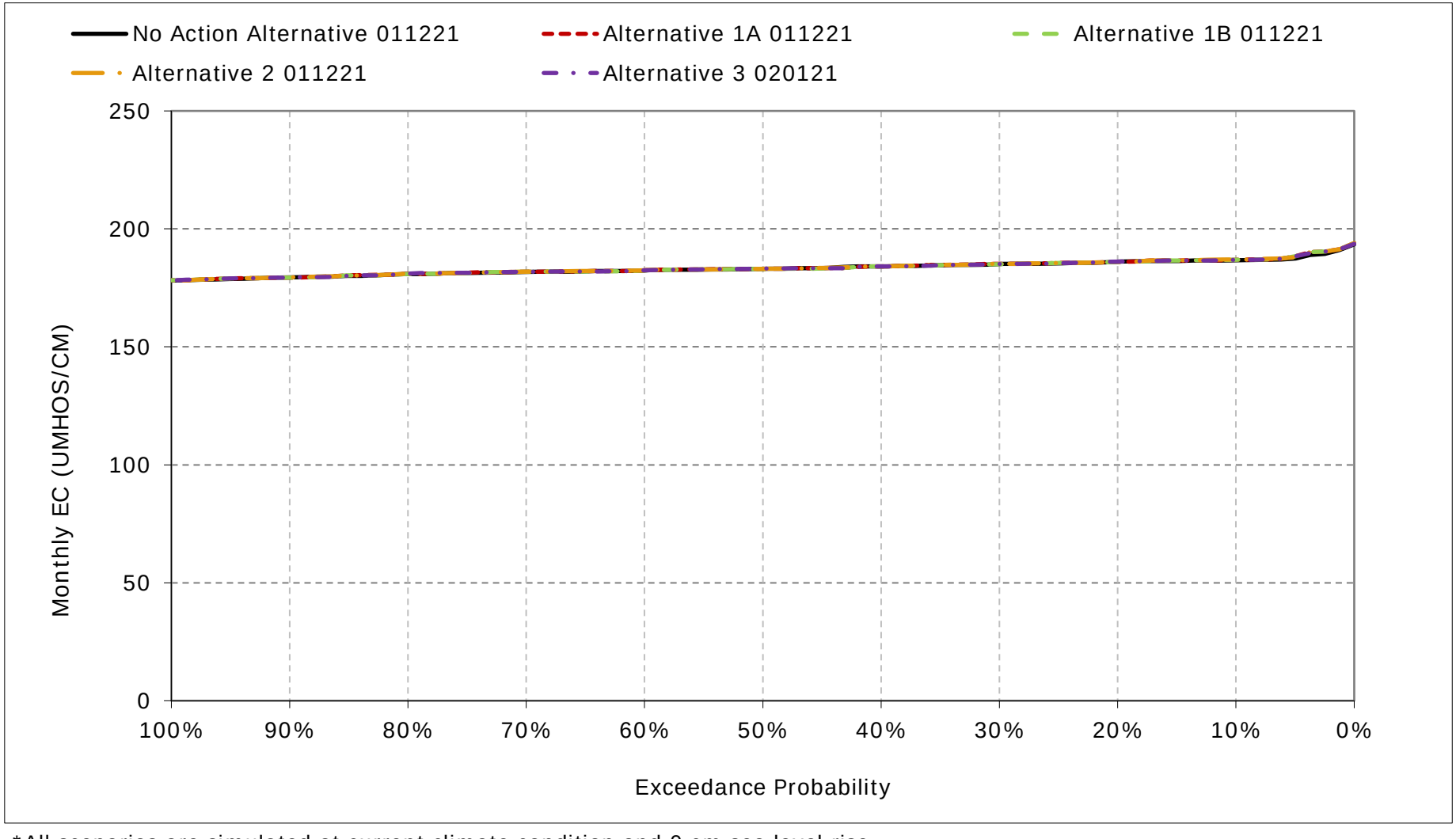
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-9. Cache Slough at Ryer Island Salinity, March EC



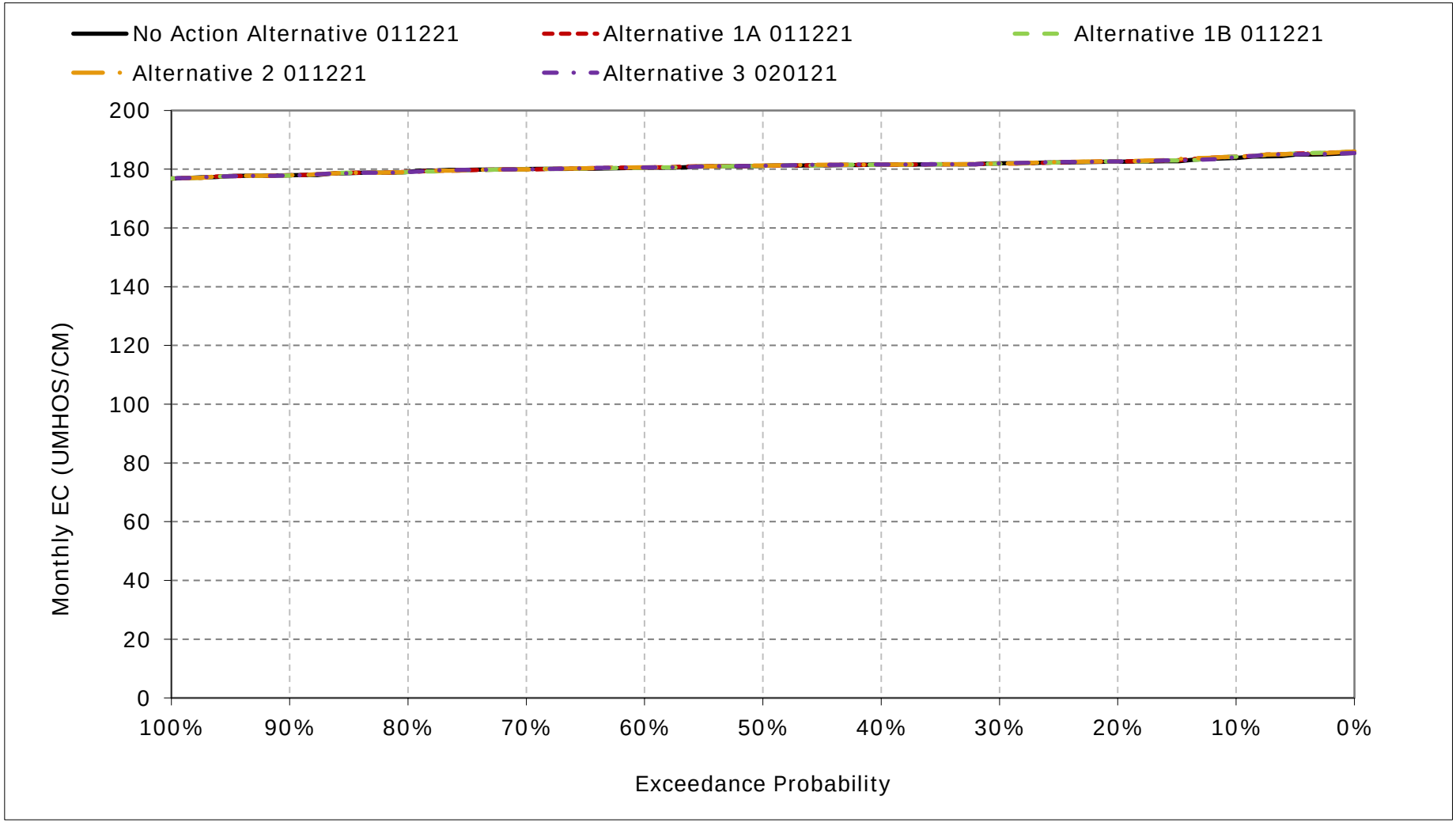
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-10. Cache Slough at Ryer Island Salinity, April EC



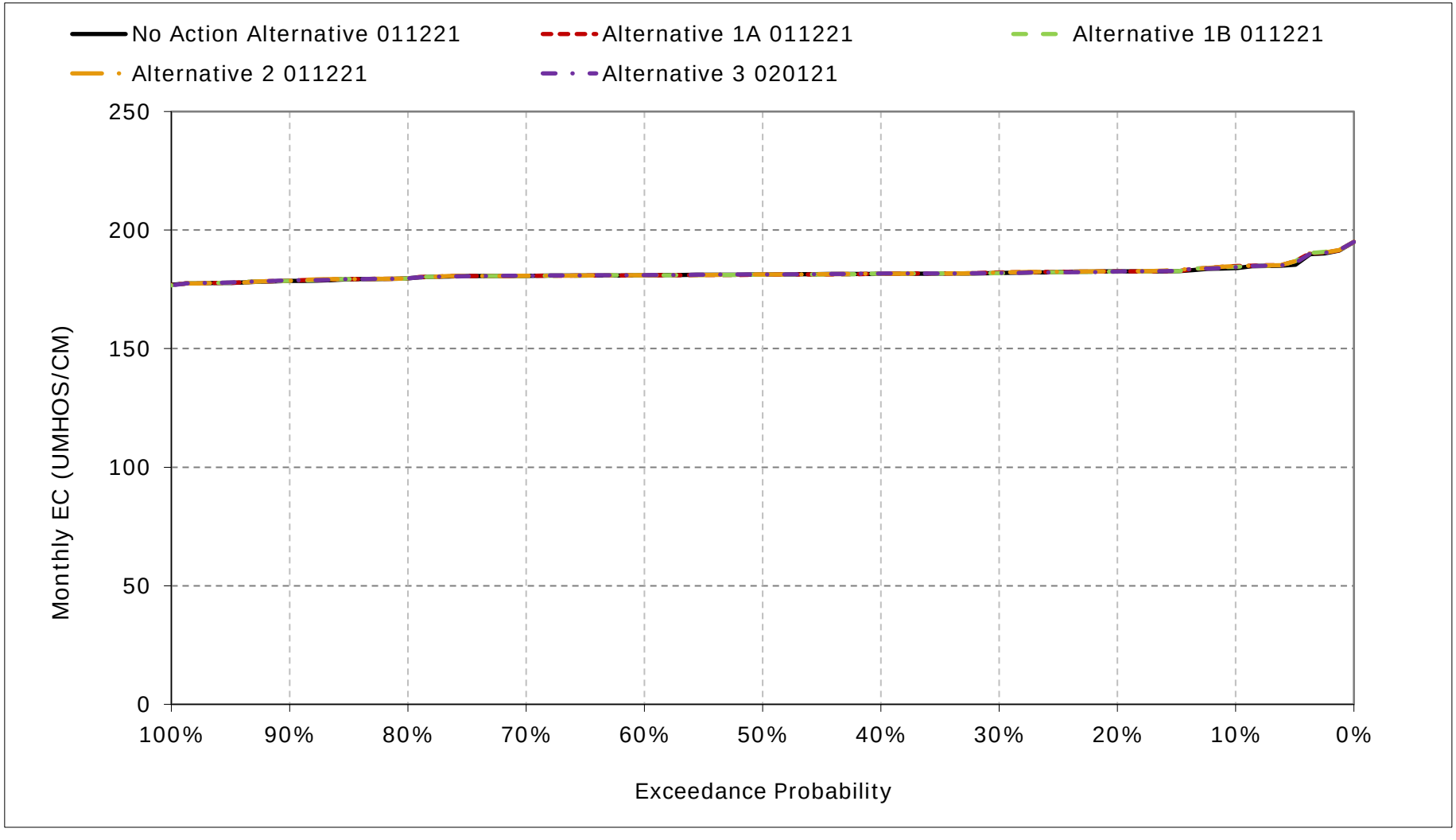
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-11. Cache Slough at Ryer Island Salinity, May EC



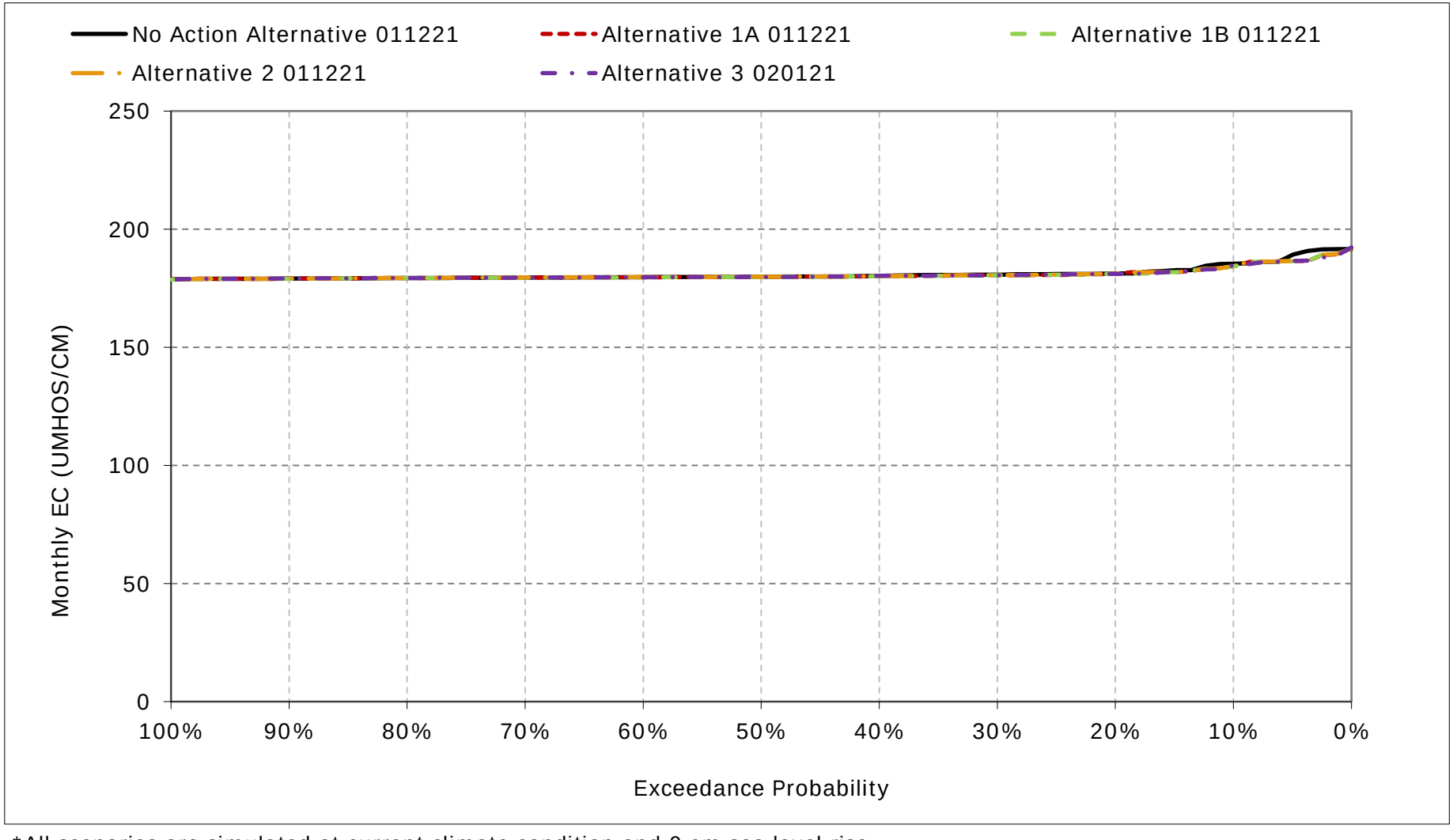
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-12. Cache Slough at Ryer Island Salinity, June EC



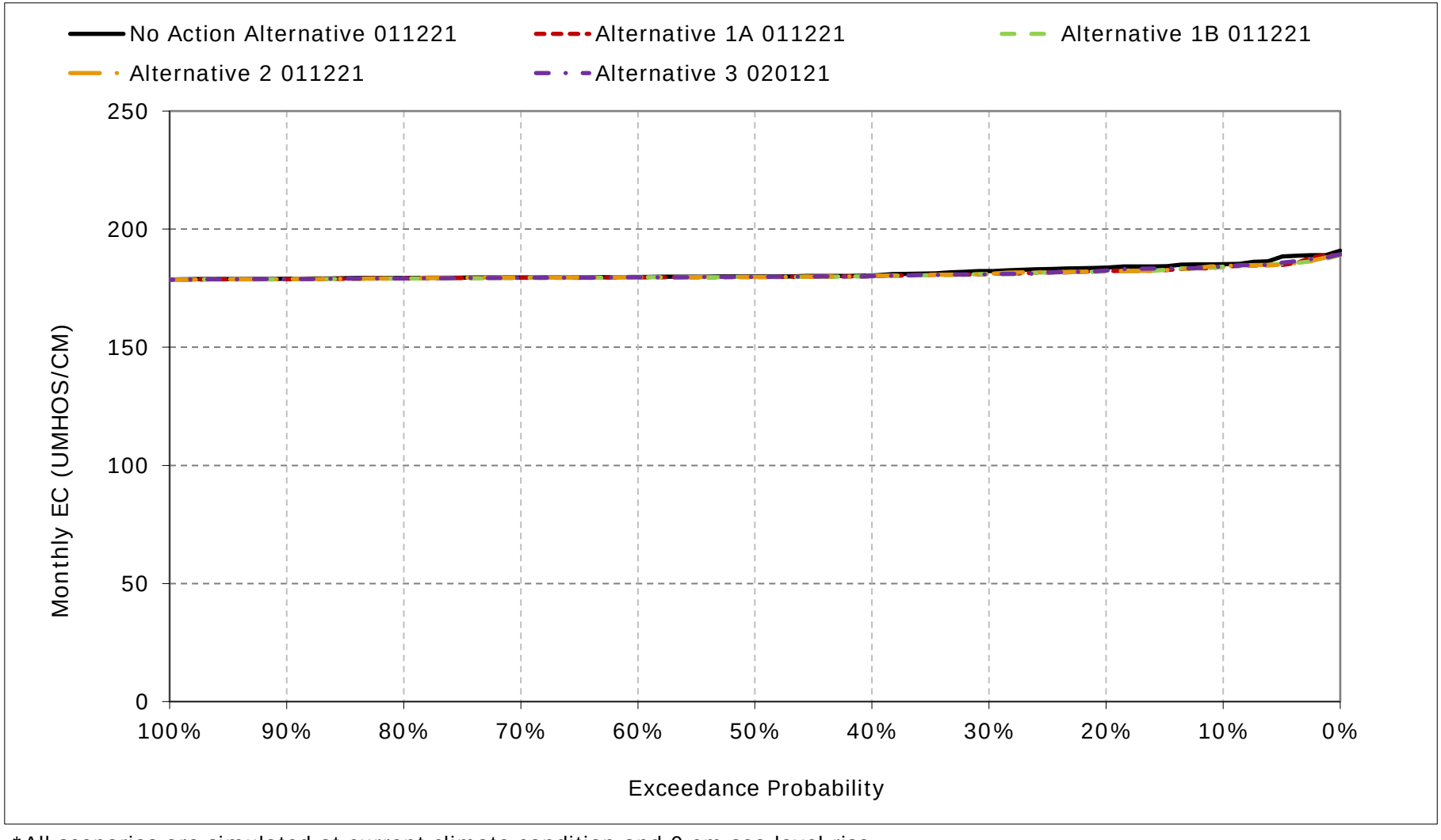
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-13. Cache Slough at Ryer Island Salinity, July EC



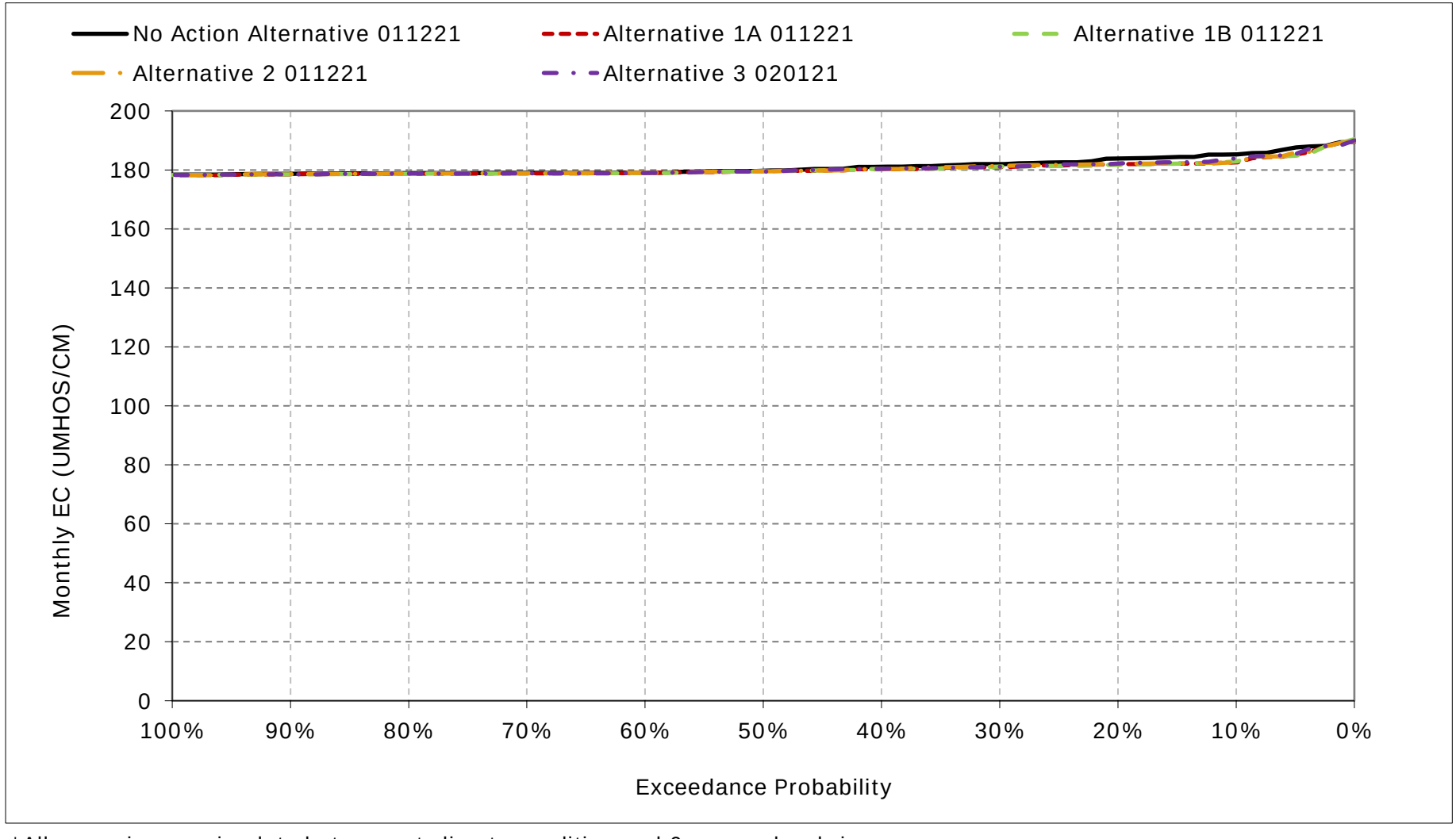
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-14. Cache Slough at Ryer Island Salinity, August EC



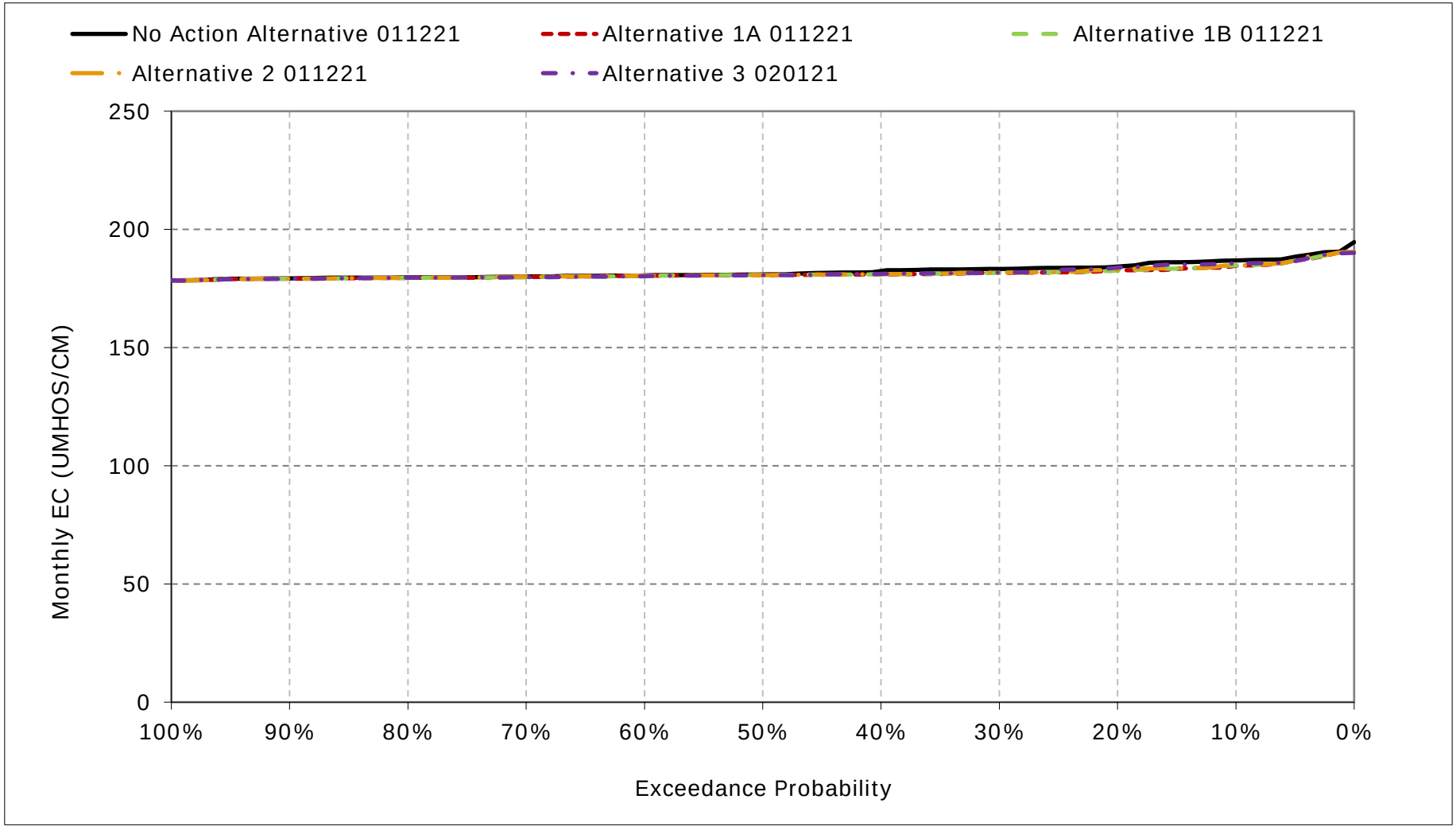
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-15. Cache Slough at Ryer Island Salinity, September EC



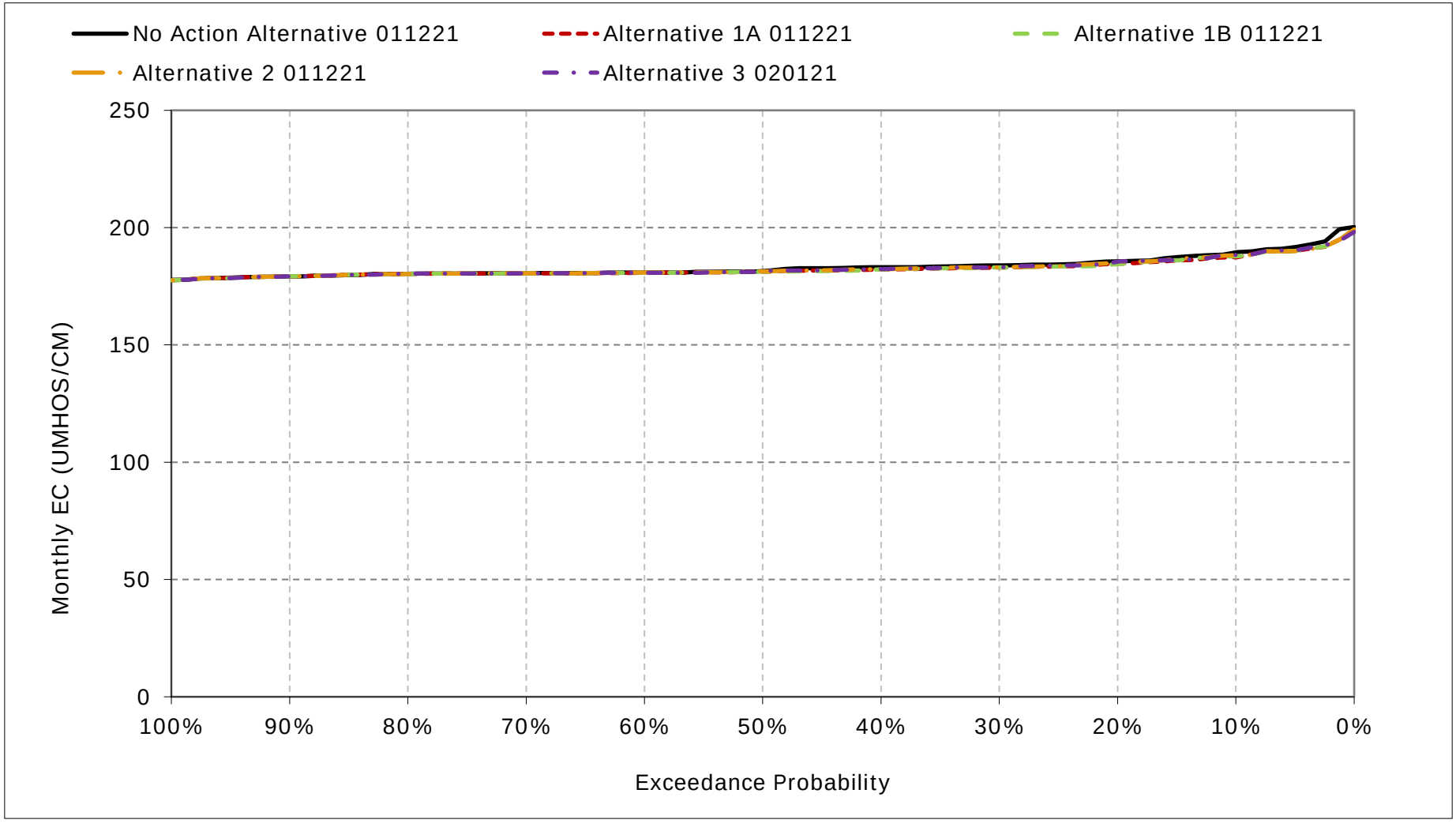
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-16. Cache Slough at Ryer Island Salinity, October EC



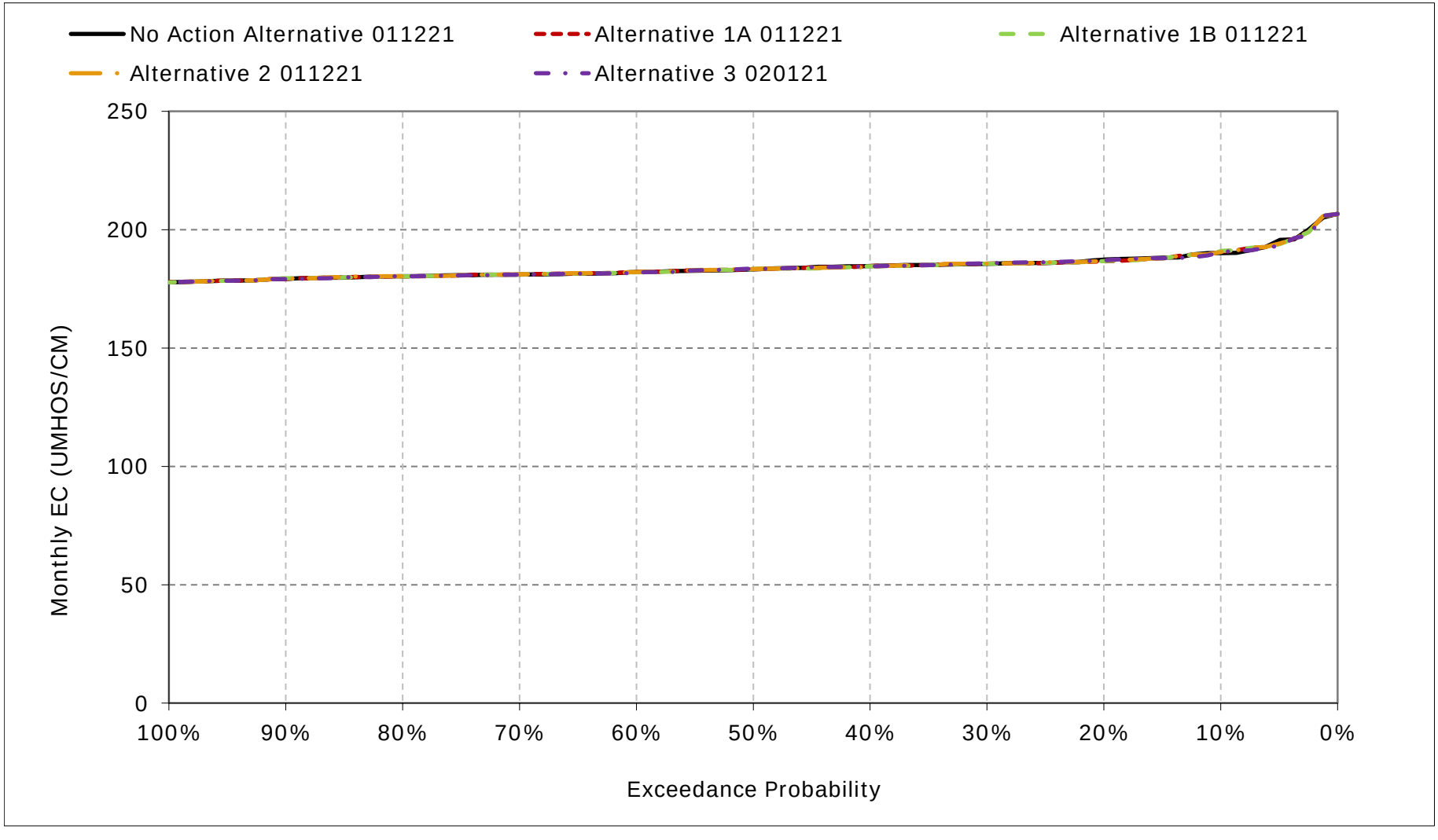
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-17. Cache Slough at Ryer Island Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-2-18. Cache Slough at Ryer Island Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-3-1a. Sacramento River downstream of Georgiana Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	175	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-1b. Sacramento River downstream of Georgiana Slough, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	178	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-1c. Sacramento River downstream of Georgiana Slough, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-3-2a. Sacramento River downstream of Georgiana Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	175	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-2b. Sacramento River downstream of Georgiana Slough, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	178	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-2c. Sacramento River downstream of Georgiana Slough, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-3-3a. Sacramento River downstream of Georgiana Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	175	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-3b. Sacramento River downstream of Georgiana Slough, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	178	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-3c. Sacramento River downstream of Georgiana Slough, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-3-4a. Sacramento River downstream of Georgiana Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	175	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-4b. Sacramento River downstream of Georgiana Slough, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	178	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	177	179	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (32%)	176	176	176	178	177	176	176	175	176	176	176	175
Above Normal (15%)	176	176	177	179	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	176	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	178	179	177	177	176	176	176	176	176	176

Table 6B1-3-4c. Sacramento River downstream of Georgiana Slough, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

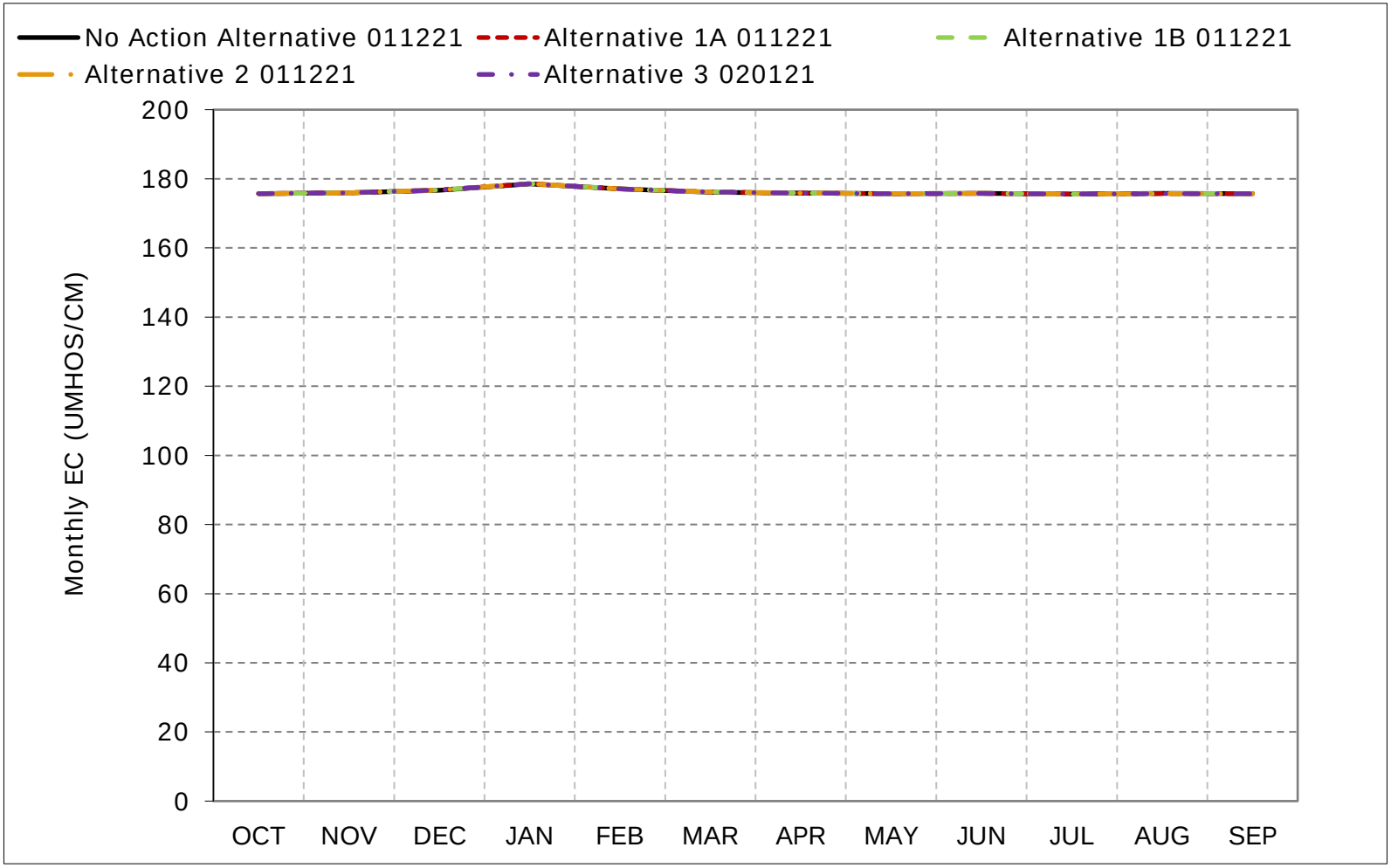
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-1. Sacramento River downstream of Georgiana Slough, Long-Term Average EC

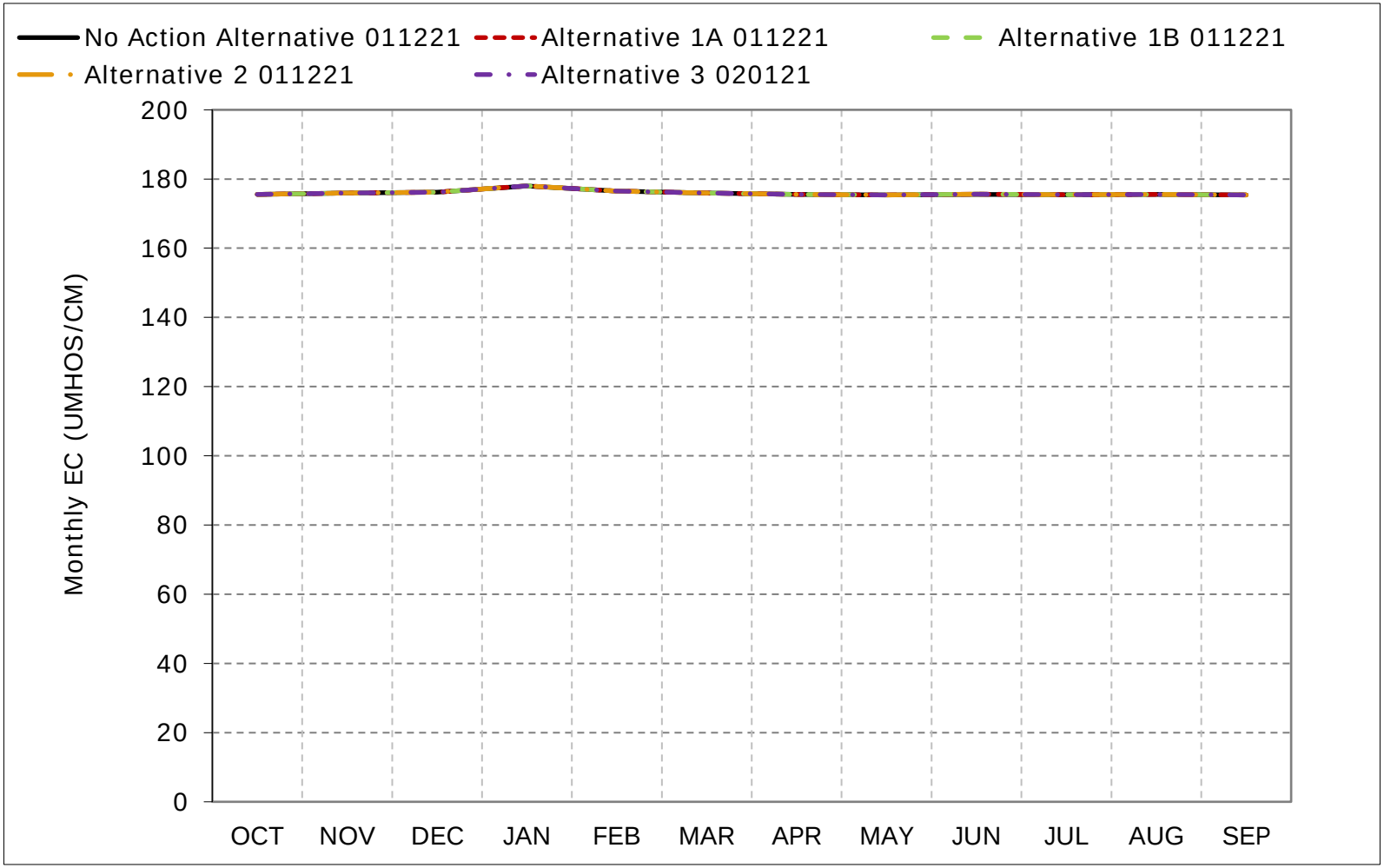


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-2. Sacramento River downstream of Georgiana Slough, Wet Year Average EC

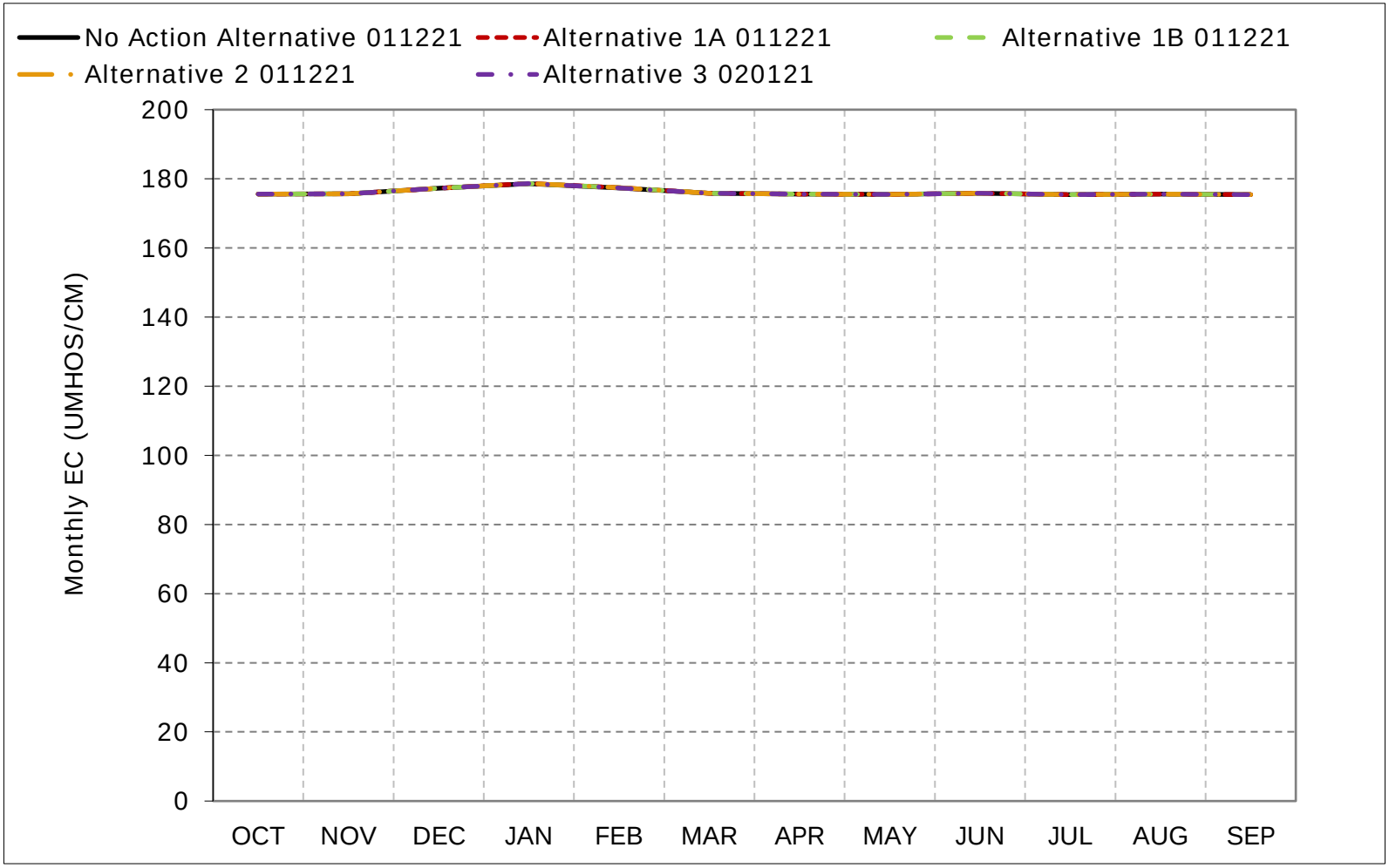


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-3. Sacramento River downstream of Georgiana Slough, Above Normal Year Average EC

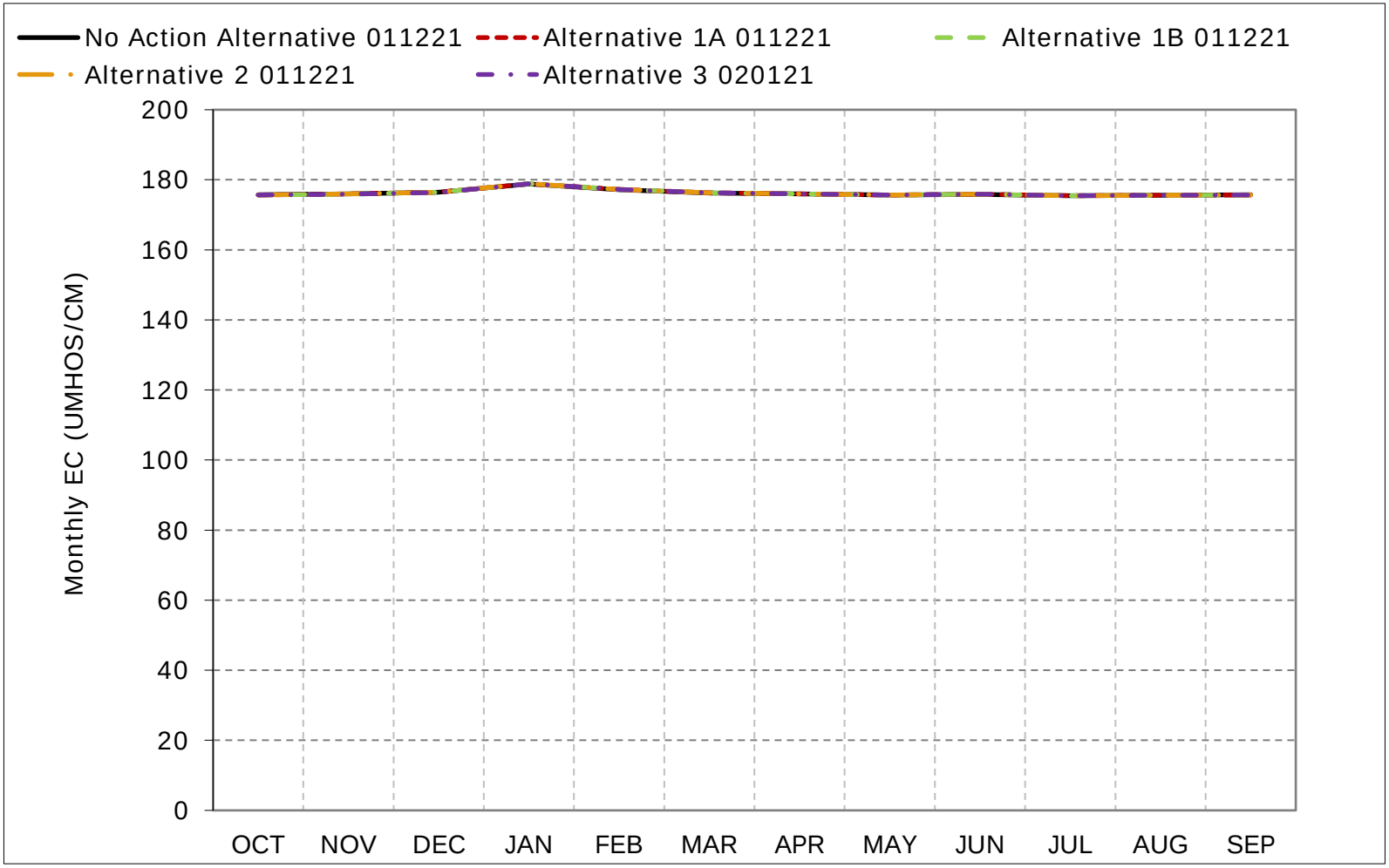


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-4. Sacramento River downstream of Georgiana Slough, Below Normal Year Average EC

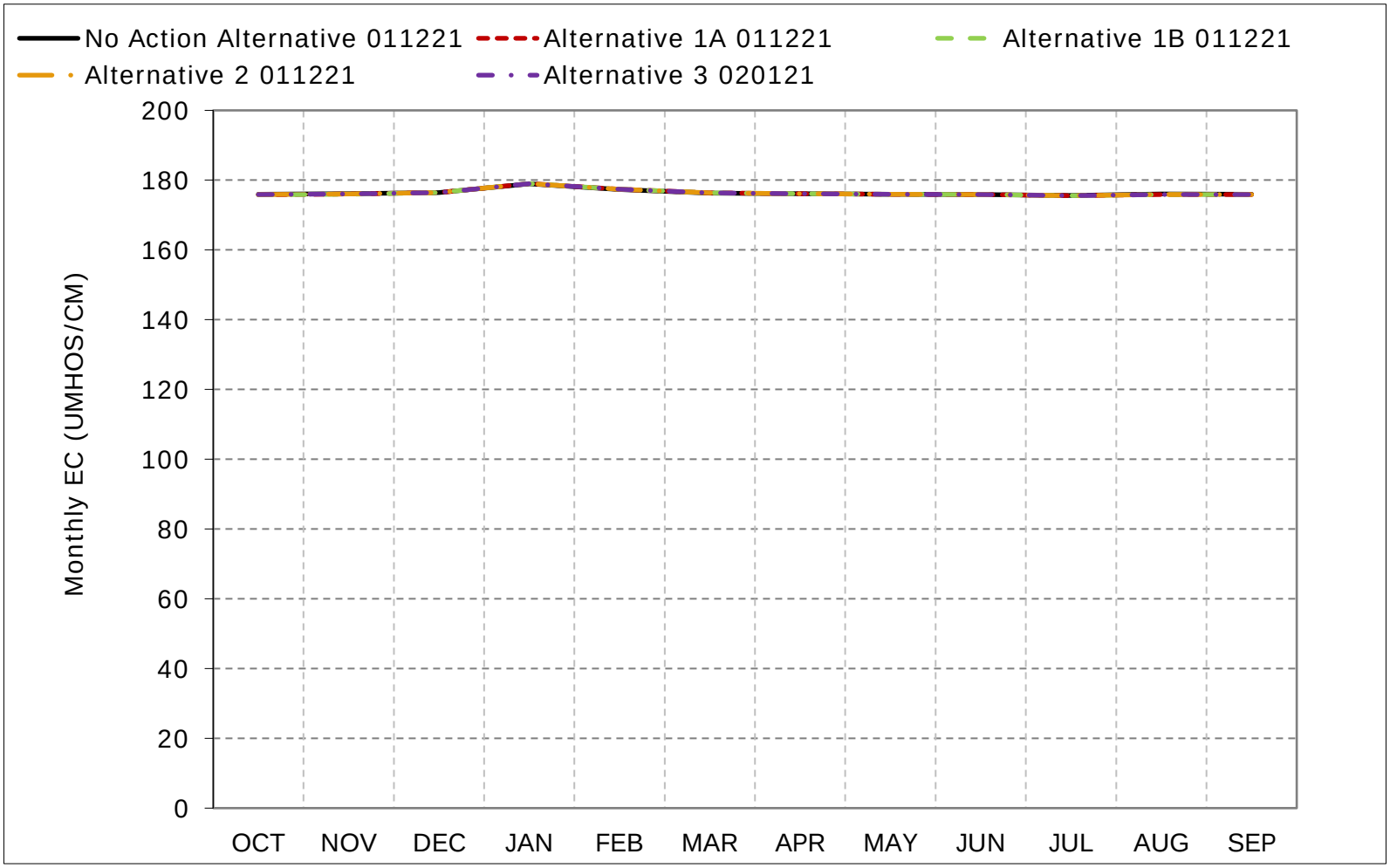


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-5. Sacramento River downstream of Georgiana Slough, Dry Year Average EC

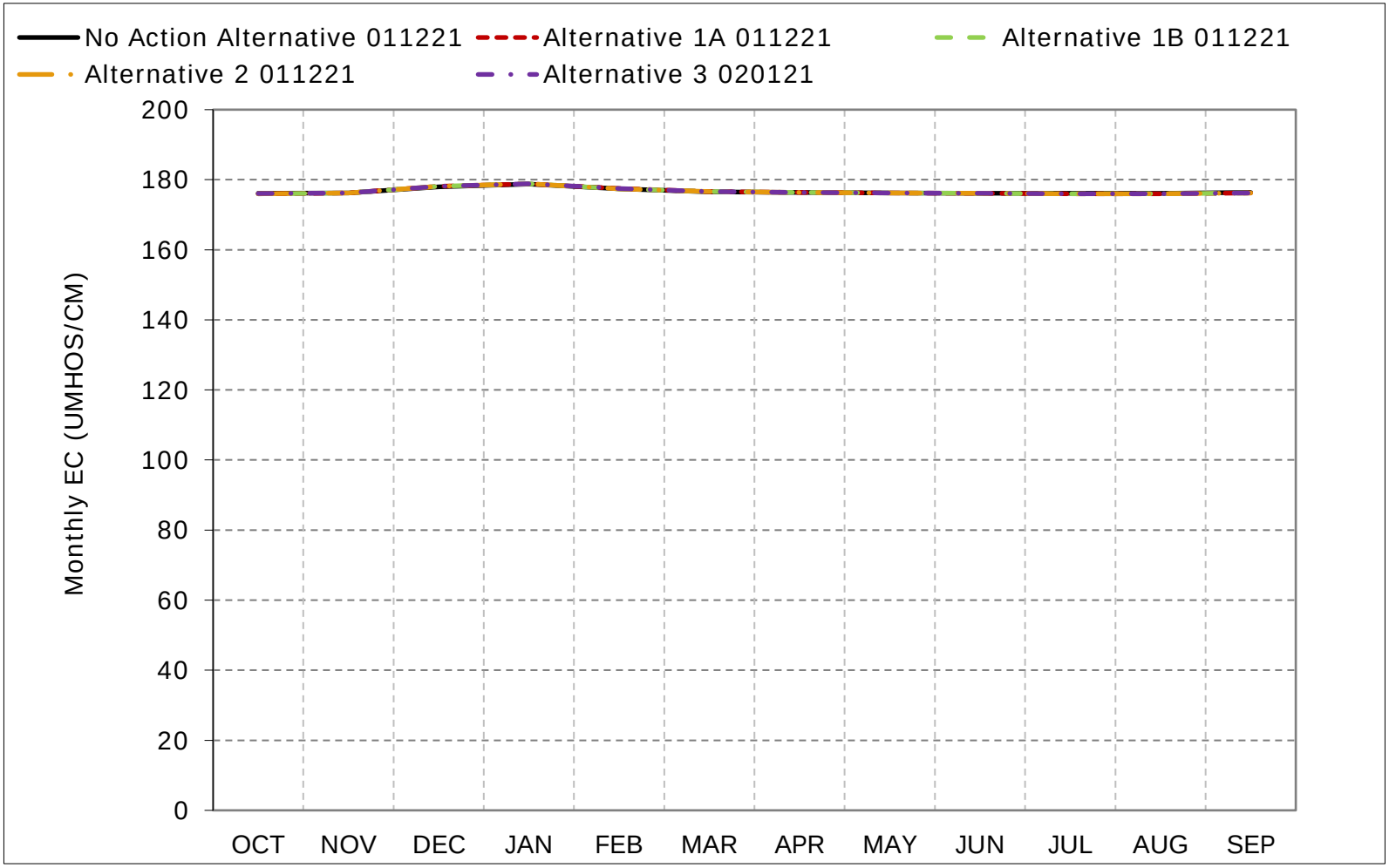


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-6. Sacramento River downstream of Georgiana Slough, Critical Year Average EC

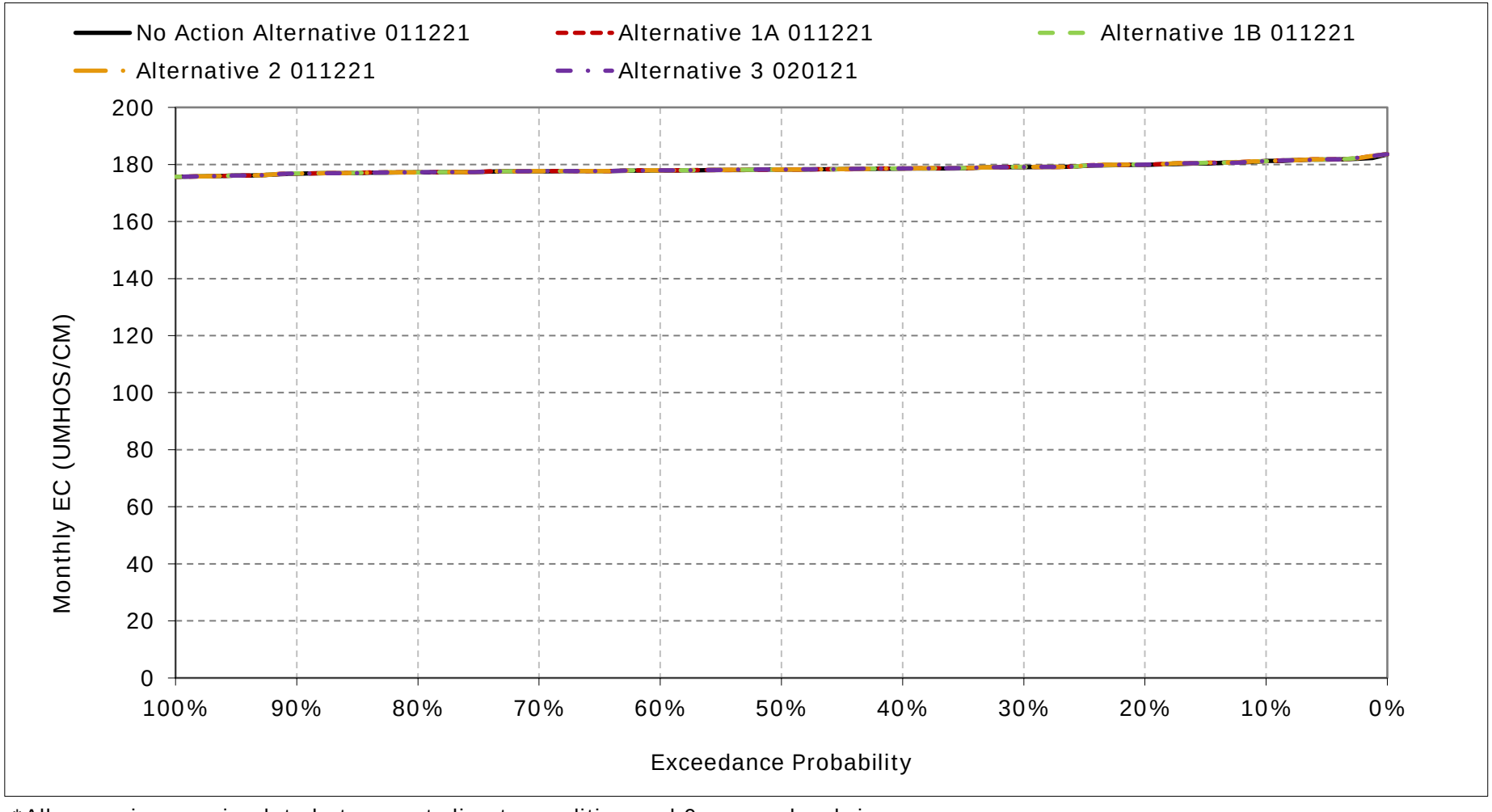


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

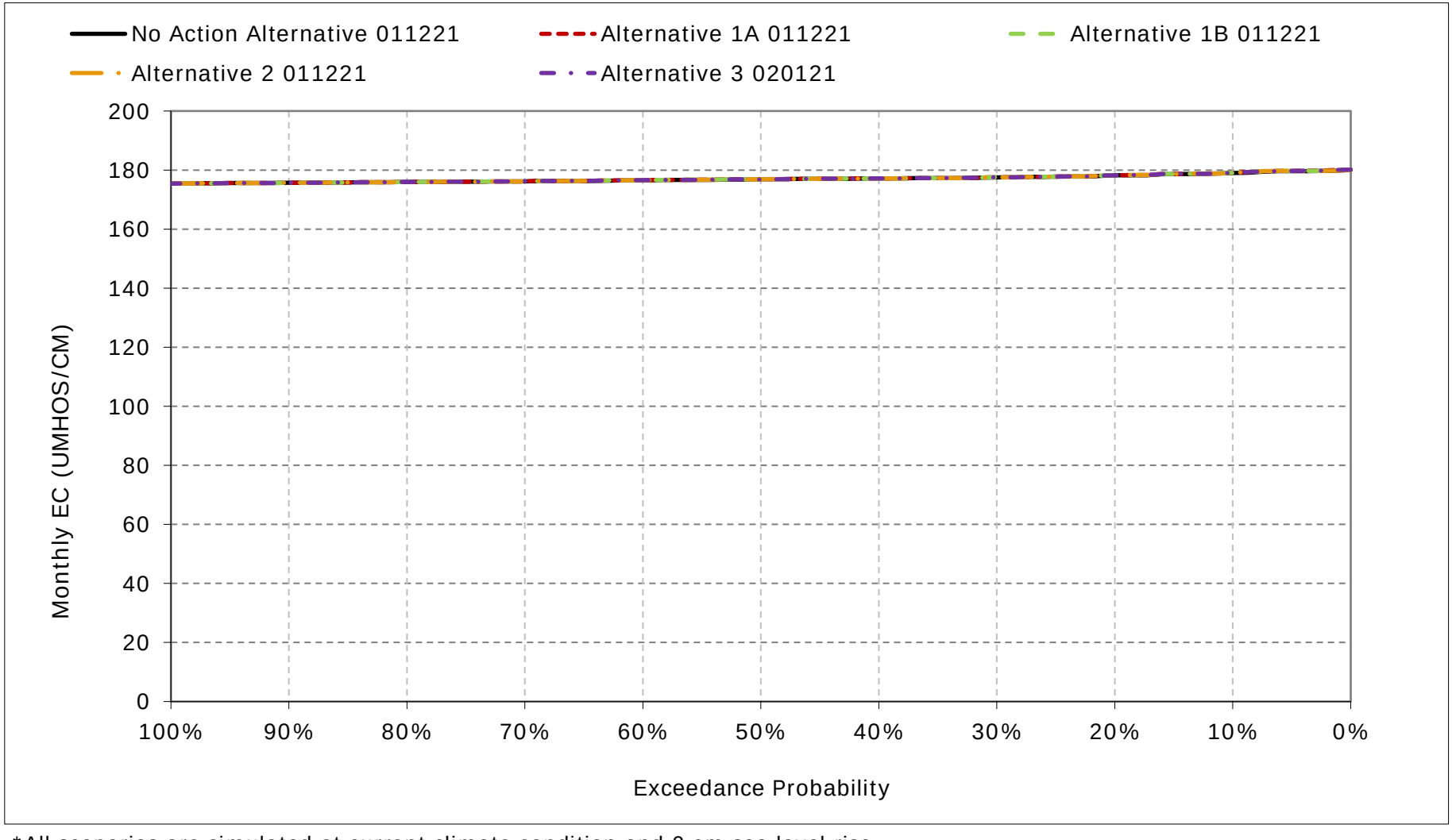
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-7. Sacramento River downstream of Georgiana Slough Salinity, January EC



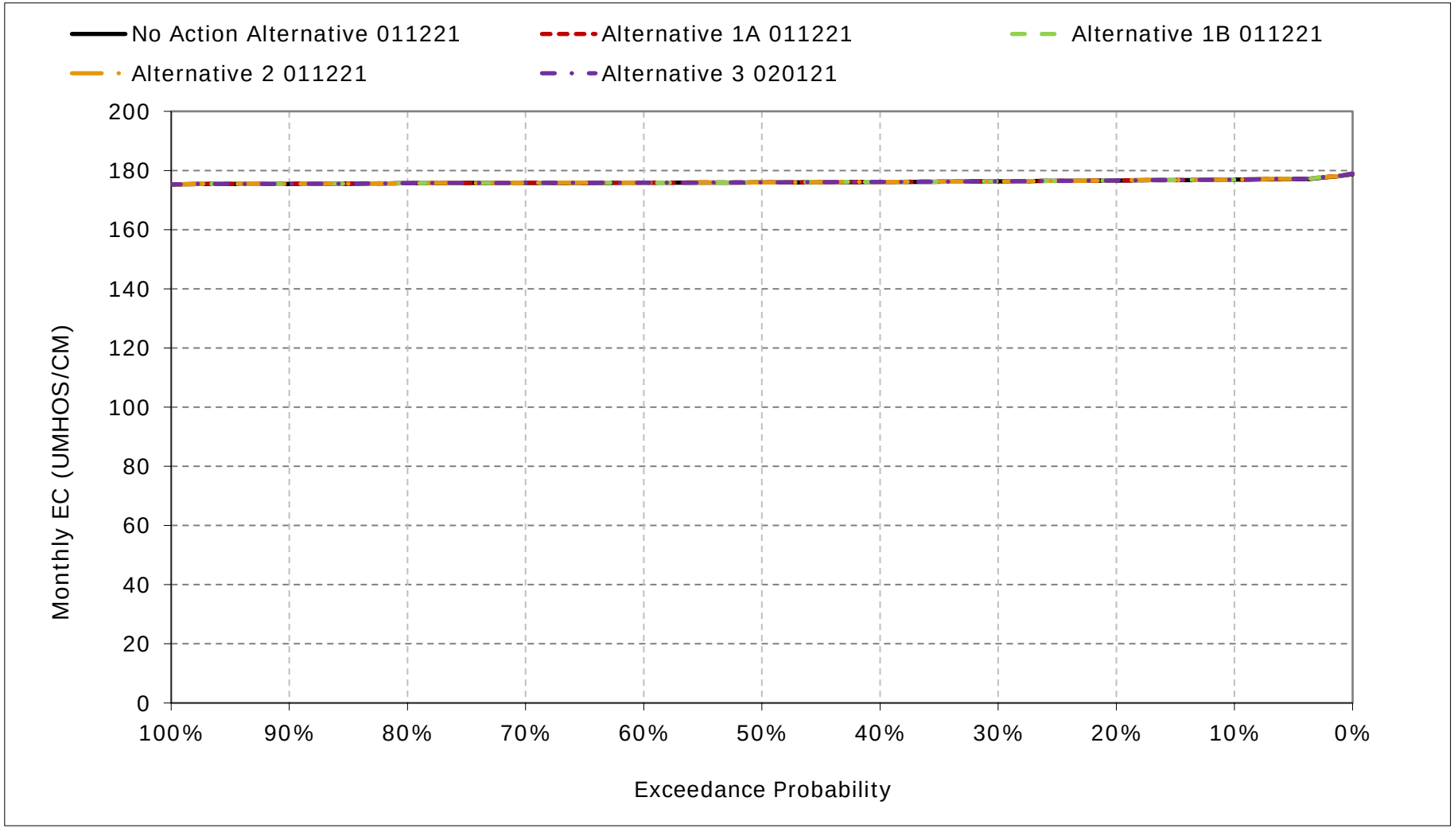
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-8. Sacramento River downstream of Georgiana Slough Salinity, February EC



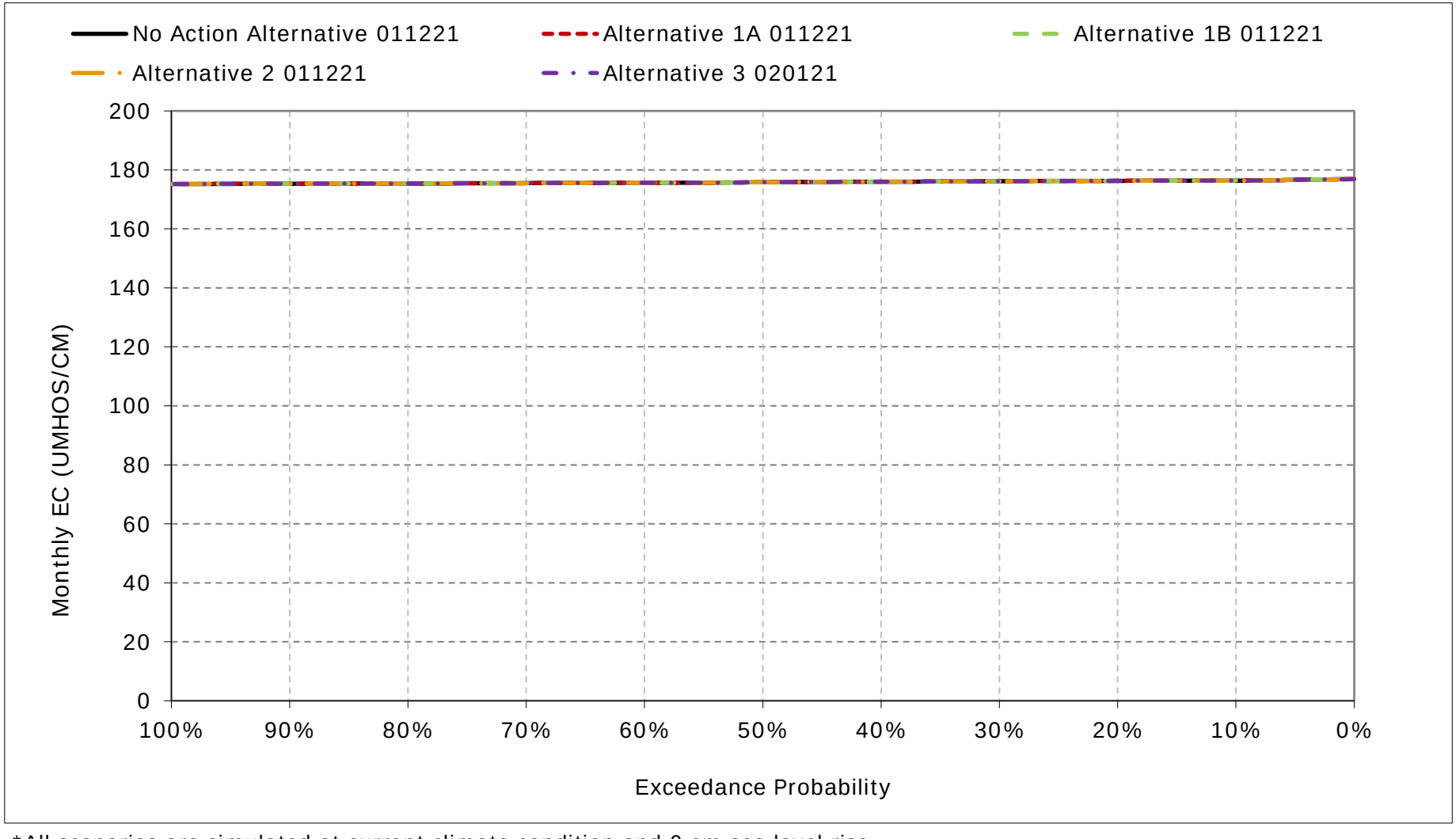
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-9. Sacramento River downstream of Georgiana Slough Salinity, March EC



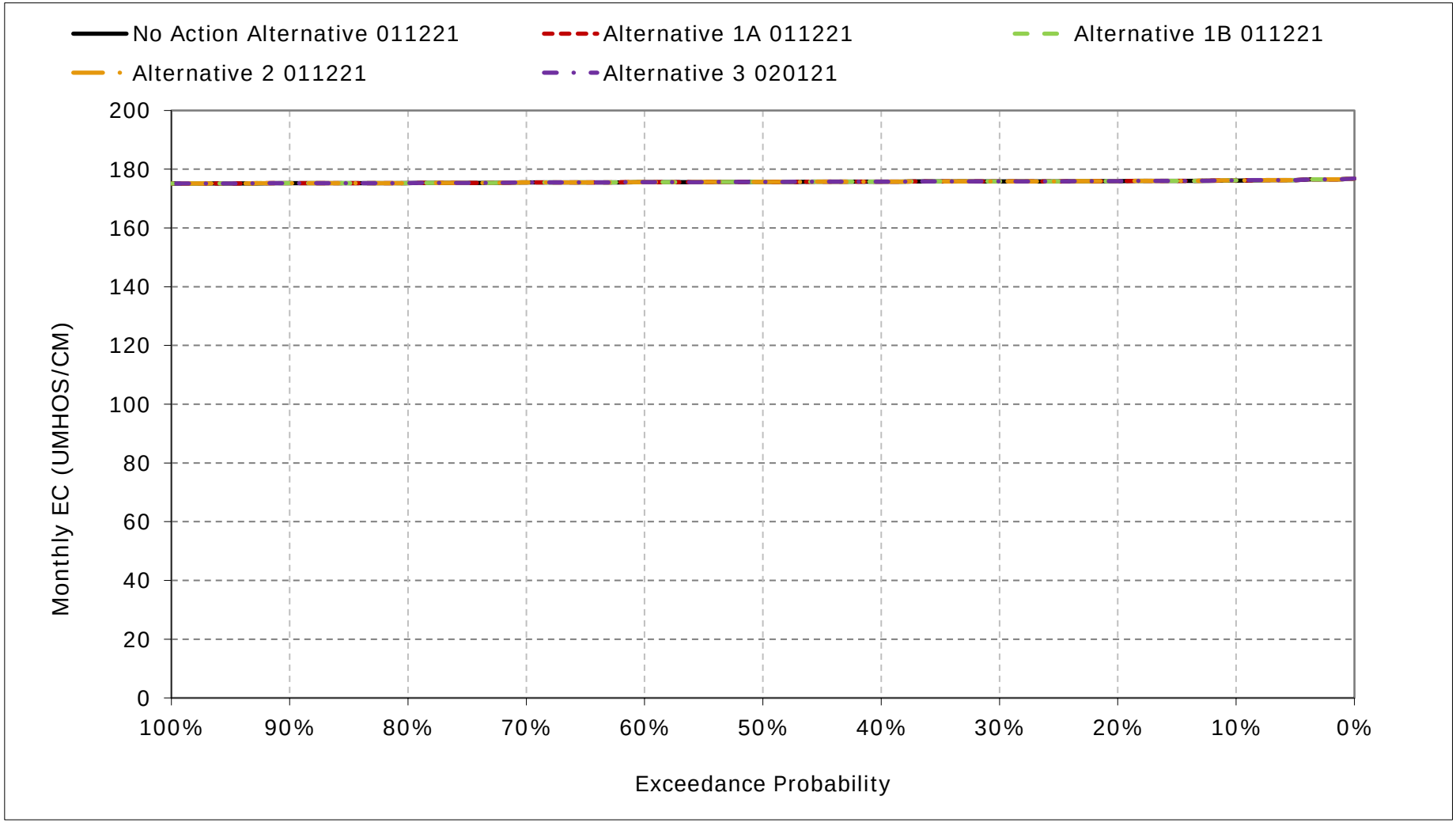
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-10. Sacramento River downstream of Georgiana Slough Salinity, April EC



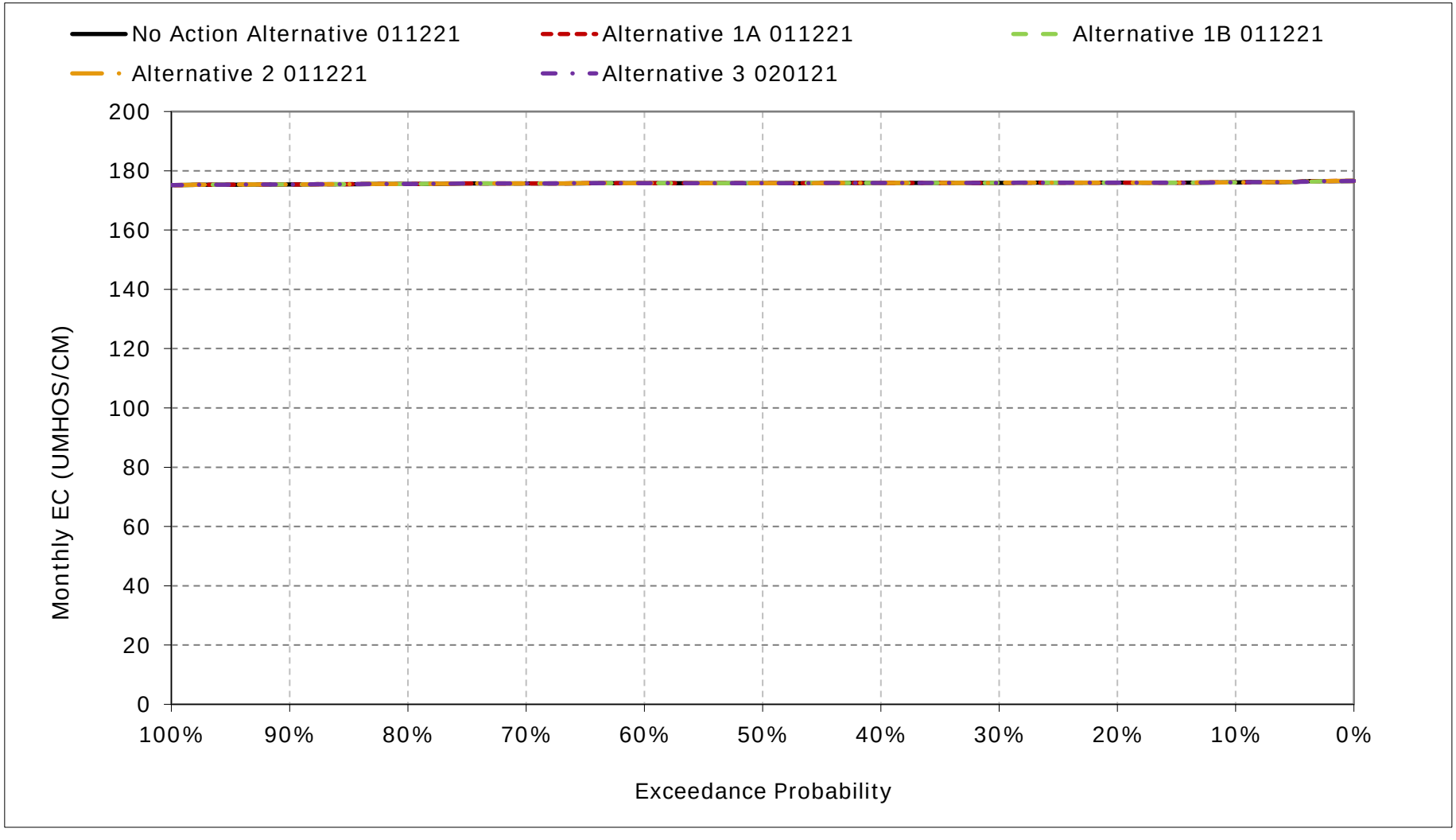
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-11. Sacramento River downstream of Georgiana Slough Salinity, May EC



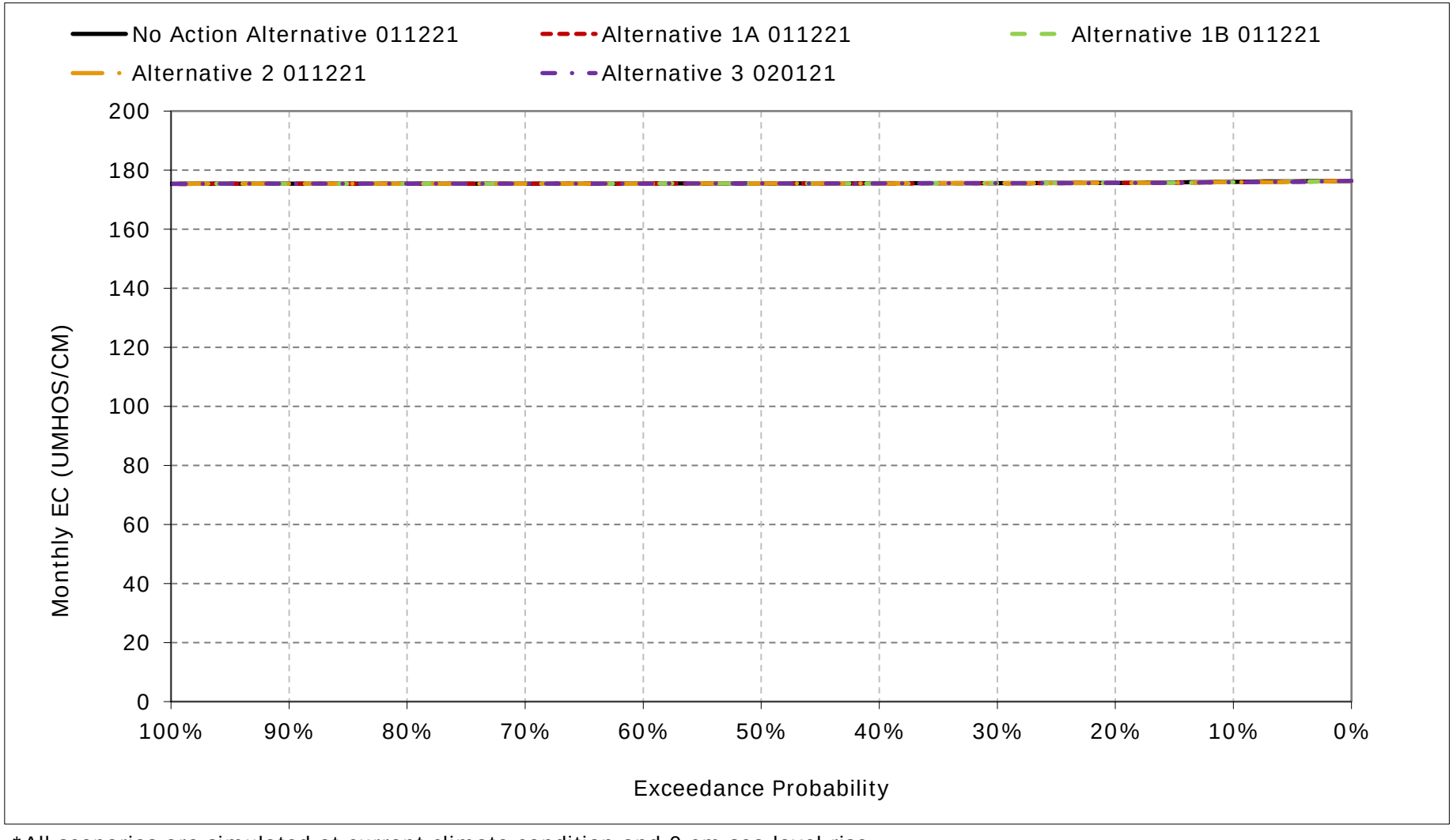
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-12. Sacramento River downstream of Georgiana Slough Salinity, June EC



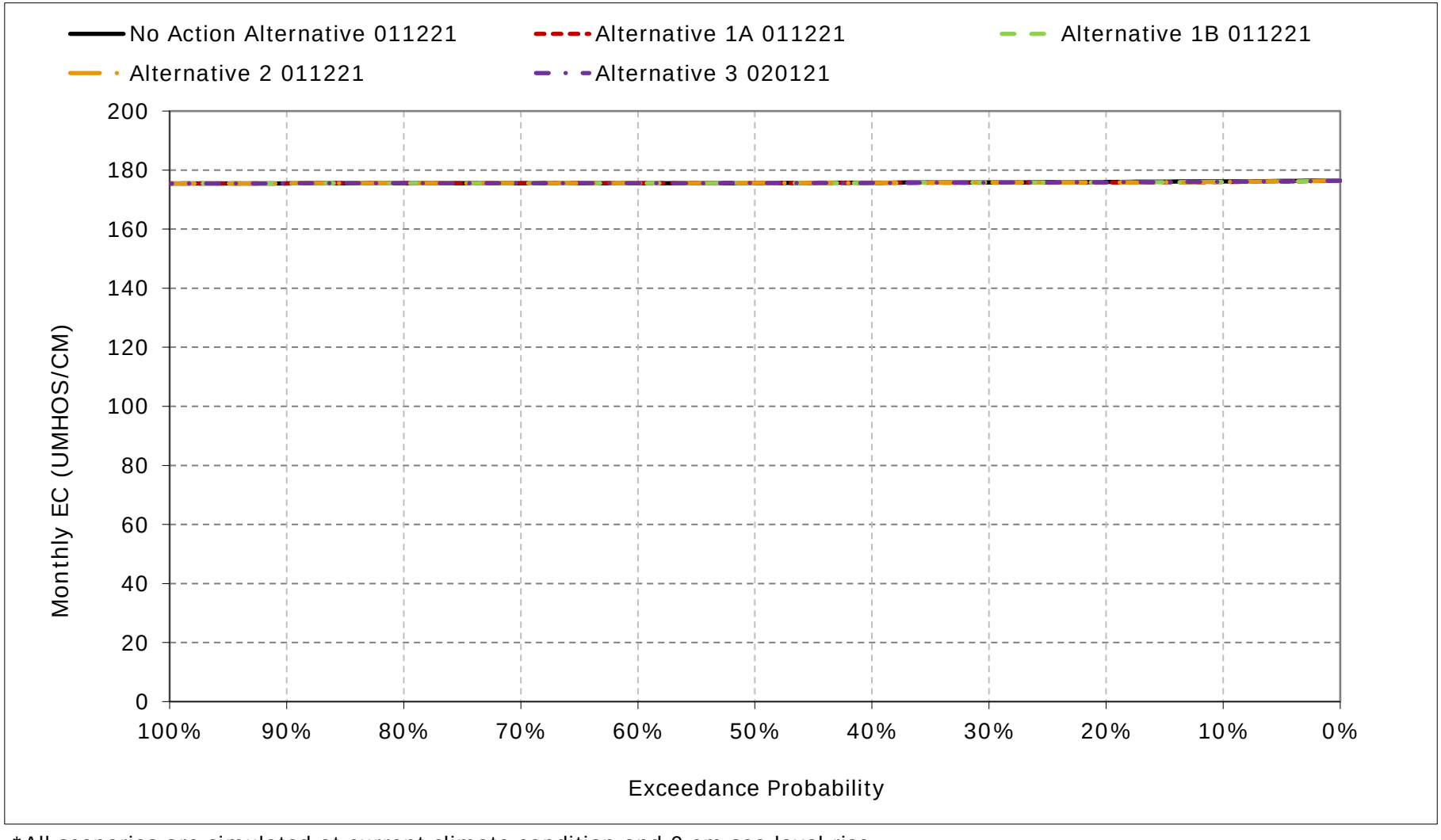
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-13. Sacramento River downstream of Georgiana Slough Salinity, July EC



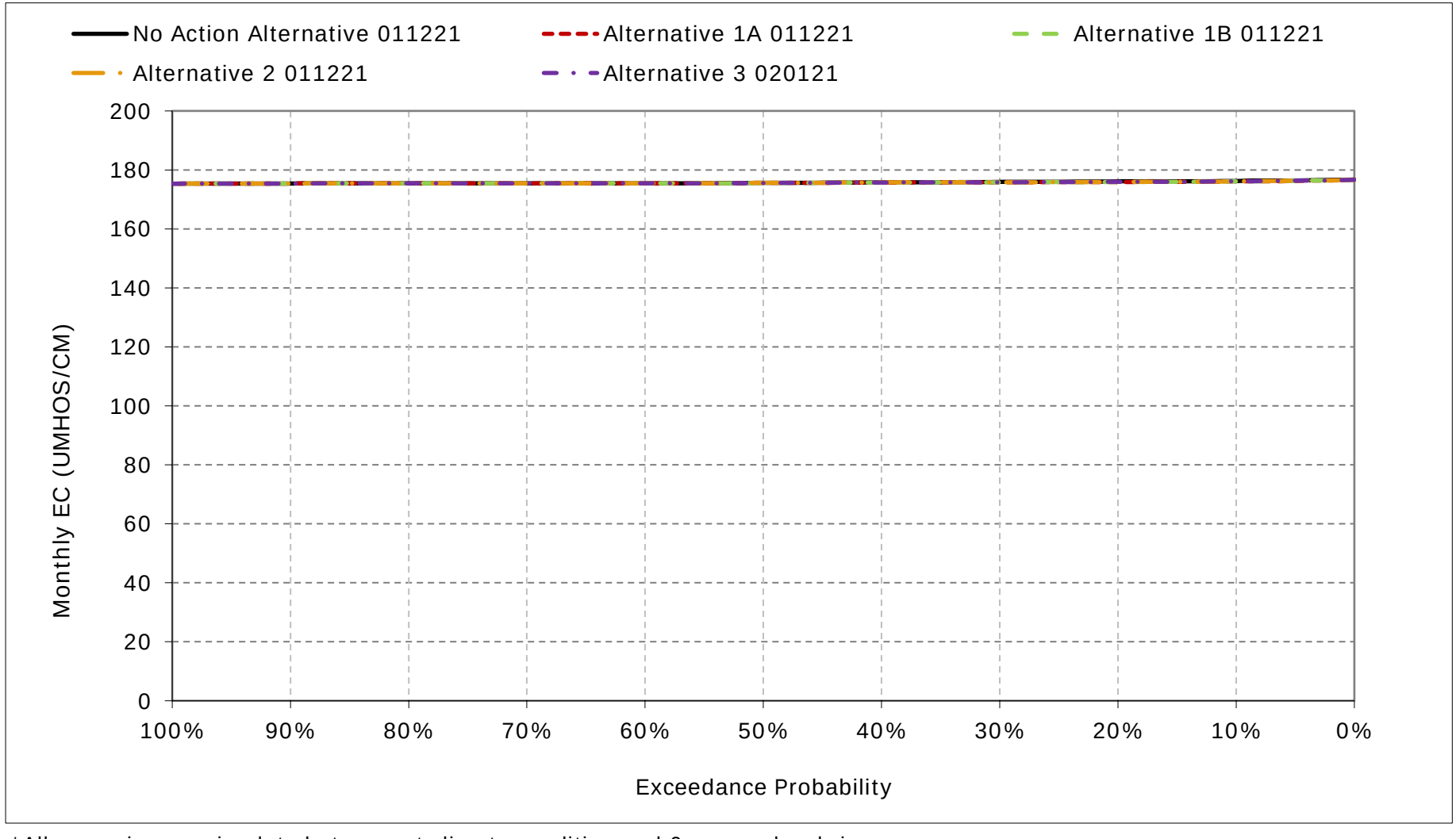
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-14. Sacramento River downstream of Georgiana Slough Salinity, August EC



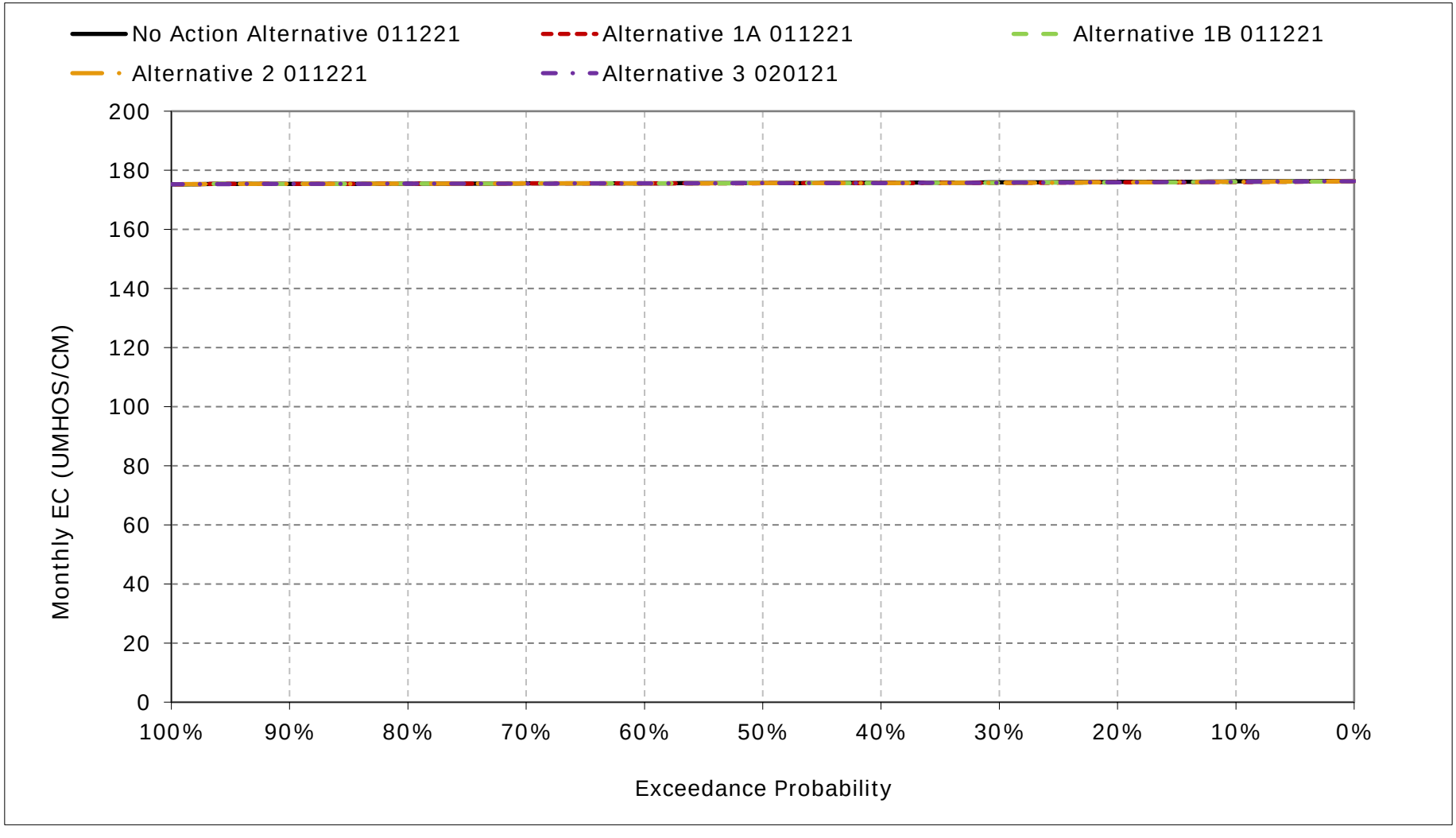
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-15. Sacramento River downstream of Georgiana Slough Salinity, September EC



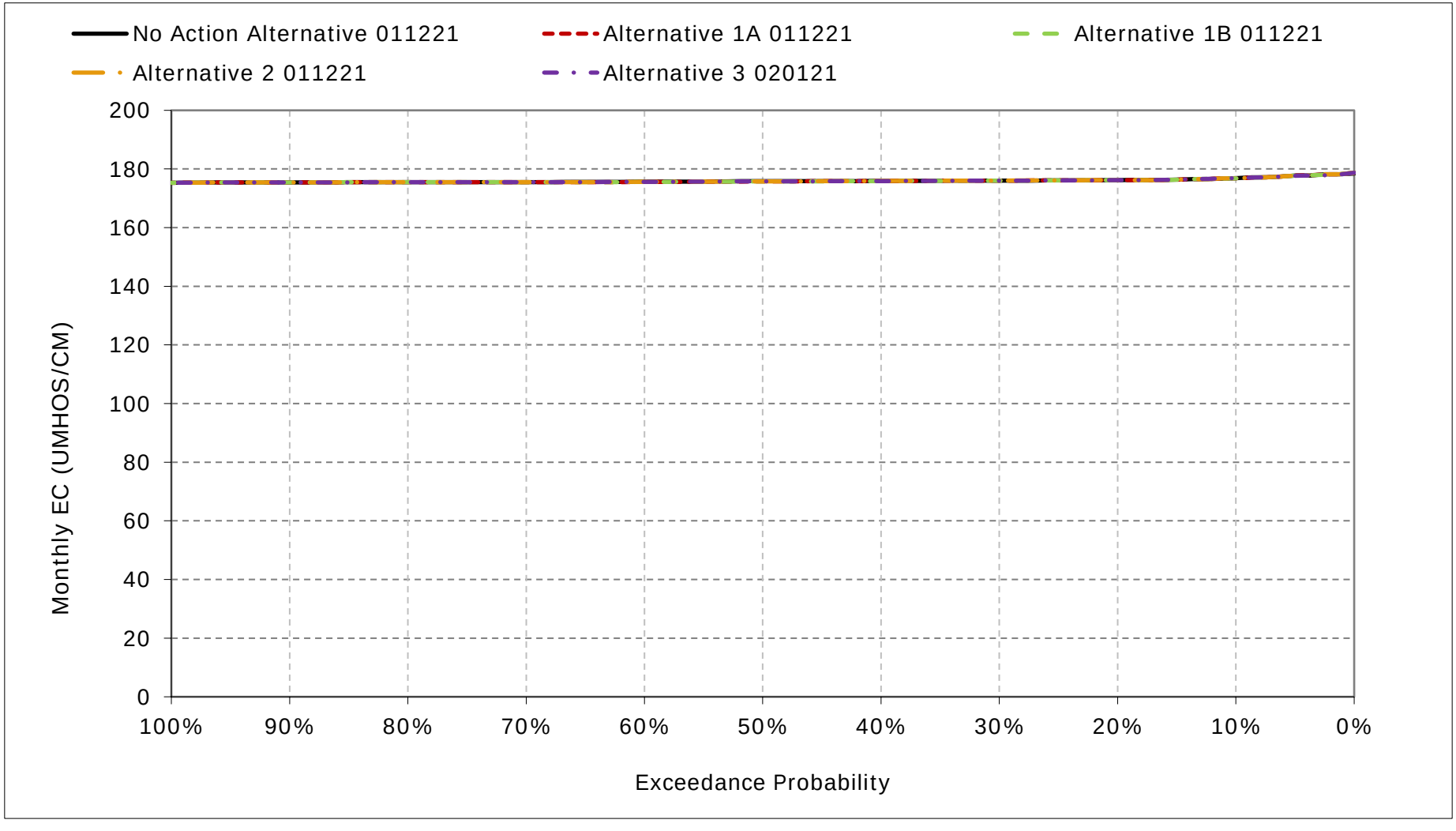
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-16. Sacramento River downstream of Georgiana Slough Salinity, October EC



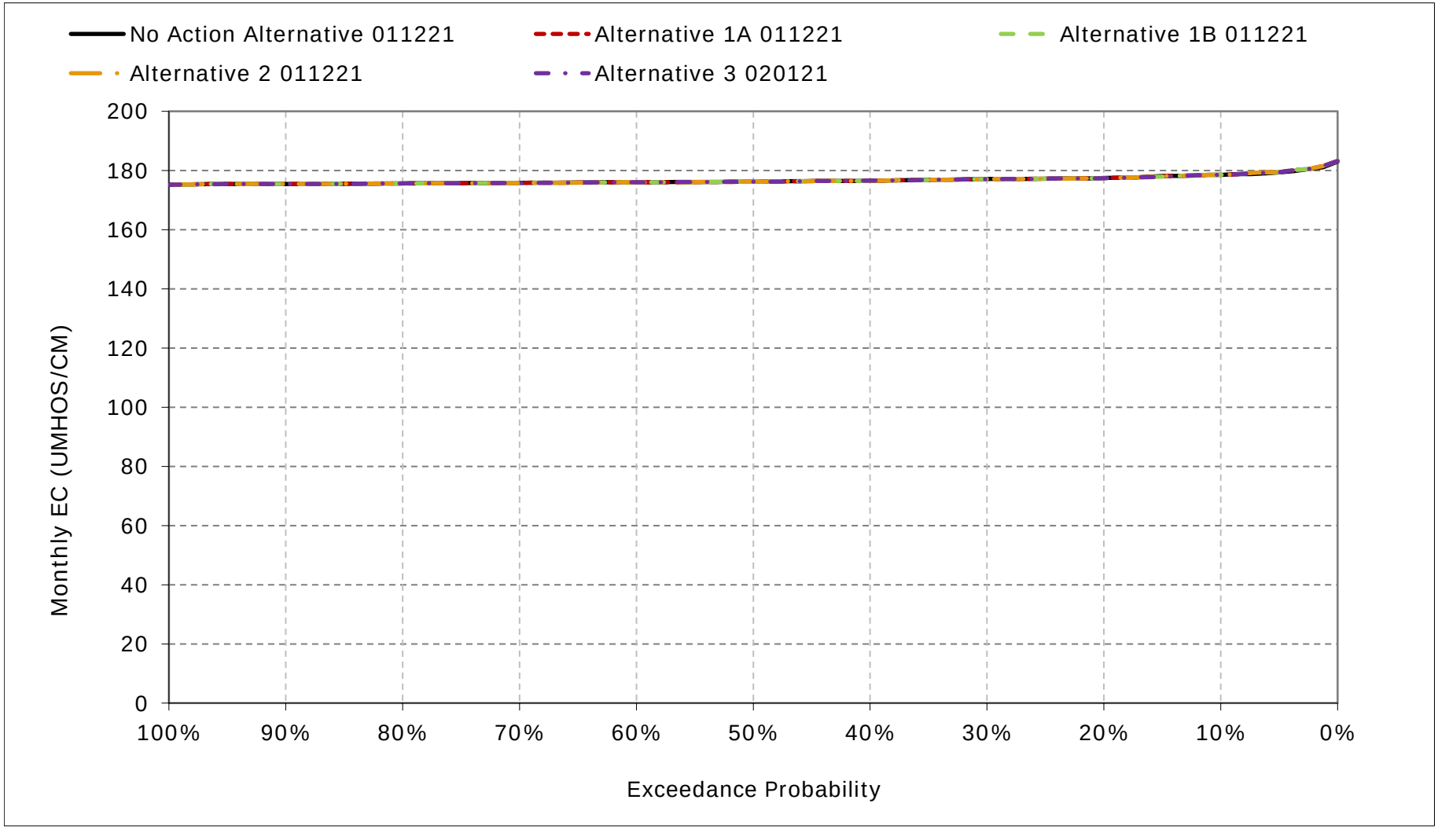
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-17. Sacramento River downstream of Georgiana Slough Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-3-18. Sacramento River downstream of Georgiana Slough Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-4-1a. Sacramento River at Rio Vista, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	433	422	352	258	201	195	191	198	216	278	373	438
20%	412	360	317	232	196	189	188	191	202	232	328	397
30%	390	335	262	217	192	187	186	187	197	218	316	371
40%	365	289	245	202	190	185	184	183	191	199	247	356
50%	323	224	226	197	186	183	182	182	188	192	233	300
60%	191	219	213	192	184	182	181	180	185	186	203	191
70%	189	214	189	188	183	180	180	179	183	185	200	188
80%	188	204	183	185	182	180	179	178	180	183	196	185
90%	186	183	179	181	180	179	178	177	178	182	190	183
Long Term												
Full Simulation Period[a]	300	281	248	210	189	185	184	188	203	218	260	294
Water Year Types[b]												
Wet (32%)	187	206	217	188	182	181	180	179	181	183	194	185
Above Normal (15%)	191	215	226	198	186	181	181	180	185	185	199	188
Below Normal (17%)	337	276	245	205	188	186	184	183	189	195	241	329
Dry (22%)	397	328	266	224	195	187	186	188	198	225	324	386
Critical (15%)	464	445	315	252	203	194	193	222	290	341	386	461

Table 6B1-4-1b. Sacramento River at Rio Vista, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	383	376	346	257	202	196	191	198	216	278	345	402
20%	358	341	305	241	197	190	188	191	201	229	298	351
30%	338	305	272	221	193	188	186	187	197	218	285	337
40%	310	272	248	203	190	185	184	183	191	198	235	311
50%	285	221	232	198	186	183	182	182	188	191	225	280
60%	189	217	209	193	184	182	181	181	185	186	201	189
70%	188	214	190	190	183	180	180	179	183	185	198	186
80%	186	208	184	185	182	180	179	178	180	183	195	184
90%	184	183	179	181	180	179	178	177	179	182	189	182
Long Term												
Full Simulation Period[a]	273	267	249	211	190	185	184	188	203	215	247	275
Water Year Types[b]												
Wet (32%)	186	206	219	188	182	181	180	179	181	183	193	184
Above Normal (15%)	190	214	228	199	187	182	181	180	185	185	198	187
Below Normal (17%)	310	264	243	207	189	186	184	183	189	195	230	302
Dry (22%)	348	304	262	226	195	188	186	188	198	224	295	341
Critical (15%)	388	402	322	253	205	195	193	223	292	324	360	432

Table 6B1-4-1c. Sacramento River at Rio Vista, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-50	-46	-6	0	1	1	1	0	0	0	-28	-36
20%	-55	-19	-11	9	1	1	0	0	0	-3	-30	-46
30%	-52	-29	9	4	1	1	0	0	1	0	-31	-34
40%	-55	-17	3	1	0	0	0	0	1	-1	-12	-44
50%	-38	-3	6	1	0	0	0	0	0	-1	-8	-20
60%	-2	-2	-4	1	0	0	0	0	0	0	-2	-1
70%	-1	0	0	2	0	0	0	0	0	0	-2	-2
80%	-2	4	0	0	0	0	0	0	0	0	-2	-1
90%	-1	0	0	0	0	0	0	0	1	0	-1	-1
Long Term												
Full Simulation Period[a]	-27	-14	1	1	1	0	0	0	0	-3	-13	-19
Water Year Types[b]												
Wet (32%)	-1	0	1	0	0	0	0	0	0	0	-1	-1
Above Normal (15%)	-1	-1	2	1	0	0	0	0	0	0	-2	-1
Below Normal (17%)	-26	-12	-2	1	1	1	0	0	0	-1	-11	-27
Dry (22%)	-49	-23	-3	2	0	0	0	0	0	-2	-29	-45
Critical (15%)	-76	-43	7	2	2	1	0	2	1	-17	-26	-28

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-4-2a. Sacramento River at Rio Vista, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	433	422	352	258	201	195	191	198	216	278	373	438
20%	412	360	317	232	196	189	188	191	202	232	328	397
30%	390	335	262	217	192	187	186	187	197	218	316	371
40%	365	289	245	202	190	185	184	183	191	199	247	356
50%	323	224	226	197	186	183	182	182	188	192	233	300
60%	191	219	213	192	184	182	181	180	185	186	203	191
70%	189	214	189	188	183	180	180	179	183	185	200	188
80%	188	204	183	185	182	180	179	178	180	183	196	185
90%	186	183	179	181	180	179	178	177	178	182	190	183
Long Term												
Full Simulation Period[a]	300	281	248	210	189	185	184	188	203	218	260	294
Water Year Types[b]												
Wet (32%)	187	206	217	188	182	181	180	179	181	183	194	185
Above Normal (15%)	191	215	226	198	186	181	181	180	185	185	199	188
Below Normal (17%)	337	276	245	205	188	186	184	183	189	195	241	329
Dry (22%)	397	328	266	224	195	187	186	188	198	225	324	386
Critical (15%)	464	445	315	252	203	194	193	222	290	341	386	461

Table 6B1-4-2b. Sacramento River at Rio Vista, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	385	384	350	258	202	196	191	199	215	278	354	394
20%	367	335	313	241	196	190	188	191	201	229	298	360
30%	348	308	271	220	193	188	186	187	197	219	285	335
40%	311	274	248	203	190	185	184	183	191	198	236	315
50%	289	221	232	198	186	183	182	182	188	191	222	278
60%	190	217	209	193	184	182	181	181	185	186	202	189
70%	188	213	189	189	183	180	180	179	183	185	198	186
80%	186	209	184	185	182	180	179	178	180	183	195	184
90%	185	182	179	181	180	179	178	177	179	182	189	182
Long Term												
Full Simulation Period[a]	275	268	249	211	190	185	184	188	203	215	246	275
Water Year Types[b]												
Wet (32%)	186	206	218	188	182	181	180	179	181	183	193	184
Above Normal (15%)	190	215	228	199	187	182	181	180	185	185	198	187
Below Normal (17%)	311	263	243	207	189	186	184	183	189	195	229	300
Dry (22%)	352	308	263	226	195	188	186	188	198	224	295	344
Critical (15%)	395	403	319	254	204	195	193	223	292	324	359	427

Table 6B1-4-2c. Sacramento River at Rio Vista, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-47	-38	-2	0	1	1	0	1	-1	0	-19	-44
20%	-45	-25	-3	9	0	1	0	0	0	-3	-30	-38
30%	-42	-27	9	3	1	1	0	0	1	0	-31	-36
40%	-55	-15	3	1	0	0	0	0	1	-1	-11	-41
50%	-34	-3	6	1	0	0	0	0	0	-1	-11	-22
60%	-1	-2	-4	1	0	0	0	0	0	0	-2	-1
70%	-1	-1	0	1	0	0	0	0	0	0	-2	-2
80%	-2	5	0	0	0	0	0	0	0	0	-2	-1
90%	-1	-1	0	0	0	0	0	0	1	0	-1	-1
Long Term												
Full Simulation Period[a]	-25	-13	0	1	0	0	0	0	0	-3	-13	-19
Water Year Types[b]												
Wet (32%)	-1	0	1	0	0	0	0	0	0	0	-1	-1
Above Normal (15%)	-1	0	1	1	0	0	0	0	0	0	-2	-1
Below Normal (17%)	-25	-13	-2	2	1	1	0	0	0	-1	-12	-29
Dry (22%)	-45	-19	-3	1	0	0	0	0	0	-2	-30	-42
Critical (15%)	-69	-42	4	2	1	1	0	2	2	-17	-27	-33

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-4-3a. Sacramento River at Rio Vista, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	433	422	352	258	201	195	191	198	216	278	373	438
20%	412	360	317	232	196	189	188	191	202	232	328	397
30%	390	335	262	217	192	187	186	187	197	218	316	371
40%	365	289	245	202	190	185	184	183	191	199	247	356
50%	323	224	226	197	186	183	182	182	188	192	233	300
60%	191	219	213	192	184	182	181	180	185	186	203	191
70%	189	214	189	188	183	180	180	179	183	185	200	188
80%	188	204	183	185	182	180	179	178	180	183	196	185
90%	186	183	179	181	180	179	178	177	178	182	190	183
Long Term												
Full Simulation Period[a]	300	281	248	210	189	185	184	188	203	218	260	294
Water Year Types[b]												
Wet (32%)	187	206	217	188	182	181	180	179	181	183	194	185
Above Normal (15%)	191	215	226	198	186	181	181	180	185	185	199	188
Below Normal (17%)	337	276	245	205	188	186	184	183	189	195	241	329
Dry (22%)	397	328	266	224	195	187	186	188	198	225	324	386
Critical (15%)	464	445	315	252	203	194	193	222	290	341	386	461

Table 6B1-4-3b. Sacramento River at Rio Vista, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	392	392	355	257	202	196	191	198	216	278	349	395
20%	365	358	316	240	196	190	188	191	201	229	305	373
30%	342	306	272	221	193	188	186	187	197	219	285	337
40%	310	272	248	203	190	185	184	183	191	198	234	312
50%	287	222	233	198	186	183	182	182	188	191	225	276
60%	190	217	209	193	184	182	181	181	185	186	201	189
70%	188	214	190	190	183	180	180	179	183	185	198	186
80%	186	208	184	185	182	180	179	178	180	184	195	184
90%	184	183	179	181	180	179	178	177	179	182	189	182
Long Term												
Full Simulation Period[a]	275	270	249	211	190	185	184	188	203	215	247	276
Water Year Types[b]												
Wet (32%)	186	206	219	188	182	181	180	179	181	183	193	184
Above Normal (15%)	190	214	228	199	187	182	181	180	185	185	197	187
Below Normal (17%)	308	263	243	207	189	186	184	183	189	195	230	300
Dry (22%)	353	315	266	226	195	188	186	188	198	224	295	343
Critical (15%)	395	403	319	254	204	195	193	223	292	325	361	435

Table 6B1-4-3c. Sacramento River at Rio Vista, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-41	-30	3	0	1	1	1	0	0	0	-24	-43
20%	-47	-2	-1	8	1	1	0	0	0	-3	-23	-25
30%	-48	-29	9	4	1	1	0	0	1	0	-31	-34
40%	-55	-17	3	1	0	0	0	0	1	-1	-13	-44
50%	-36	-3	7	1	0	0	0	0	0	-1	-8	-23
60%	-2	-2	-4	1	0	0	0	0	0	0	-2	-1
70%	-1	0	0	2	0	0	0	0	0	0	-2	-2
80%	-2	4	0	0	0	0	0	0	0	0	-2	-1
90%	-1	0	0	0	0	0	0	0	1	0	-1	-1
Long Term												
Full Simulation Period[a]	-25	-11	1	1	0	0	0	0	0	-3	-13	-18
Water Year Types[b]												
Wet (32%)	-1	0	2	0	0	0	0	0	0	0	-2	-1
Above Normal (15%)	-1	-1	2	1	0	0	0	0	0	0	-2	-1
Below Normal (17%)	-29	-13	-2	2	1	1	0	0	0	-1	-12	-29
Dry (22%)	-43	-13	0	2	0	0	0	0	0	-2	-30	-42
Critical (15%)	-69	-42	4	2	1	1	0	2	1	-17	-25	-25

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-4-4a. Sacramento River at Rio Vista, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	433	422	352	258	201	195	191	198	216	278	373	438
20%	412	360	317	232	196	189	188	191	202	232	328	397
30%	390	335	262	217	192	187	186	187	197	218	316	371
40%	365	289	245	202	190	185	184	183	191	199	247	356
50%	323	224	226	197	186	183	182	182	188	192	233	300
60%	191	219	213	192	184	182	181	180	185	186	203	191
70%	189	214	189	188	183	180	180	179	183	185	200	188
80%	188	204	183	185	182	180	179	178	180	183	196	185
90%	186	183	179	181	180	179	178	177	178	182	190	183
Long Term												
Full Simulation Period[a]	300	281	248	210	189	185	184	188	203	218	260	294
Water Year Types[b]												
Wet (32%)	187	206	217	188	182	181	180	179	181	183	194	185
Above Normal (15%)	191	215	226	198	186	181	181	180	185	185	199	188
Below Normal (17%)	337	276	245	205	188	186	184	183	189	195	241	329
Dry (22%)	397	328	266	224	195	187	186	188	198	225	324	386
Critical (15%)	464	445	315	252	203	194	193	222	290	341	386	461

Table 6B1-4-4b. Sacramento River at Rio Vista, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	418	399	357	258	202	195	191	199	215	278	355	406
20%	386	347	309	239	196	190	188	191	202	227	309	372
30%	351	314	271	219	192	188	186	187	197	218	289	341
40%	315	273	248	204	190	185	184	183	191	198	237	320
50%	289	221	234	198	186	183	182	182	188	191	222	277
60%	190	218	207	193	184	182	181	181	185	186	201	190
70%	188	213	188	189	183	180	180	179	183	185	198	186
80%	186	207	184	185	182	180	179	178	180	183	194	184
90%	184	182	179	181	180	179	178	177	178	182	189	182
Long Term												
Full Simulation Period[a]	281	271	249	211	190	185	184	188	203	215	249	280
Water Year Types[b]												
Wet (32%)	186	206	218	188	182	181	180	179	181	183	193	184
Above Normal (15%)	190	215	227	199	187	182	181	180	185	185	198	187
Below Normal (17%)	308	264	243	208	189	186	184	183	190	195	230	301
Dry (22%)	365	315	268	225	194	188	186	188	198	223	301	356
Critical (15%)	418	408	319	253	205	195	193	224	293	325	366	444

Table 6B1-4-4c. Sacramento River at Rio Vista, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-14	-23	5	0	1	0	0	1	-1	0	-18	-31
20%	-26	-13	-7	7	0	1	0	0	0	-5	-20	-25
30%	-39	-20	8	2	0	1	0	0	1	0	-27	-30
40%	-50	-16	3	1	0	1	0	0	1	-1	-11	-36
50%	-34	-3	8	1	0	0	0	0	0	-1	-11	-22
60%	-1	-1	-6	0	0	0	0	0	0	0	-2	-1
70%	-1	-1	-1	1	0	0	0	0	0	0	-2	-2
80%	-1	3	0	0	0	0	0	0	0	0	-2	-1
90%	-1	0	0	0	0	0	0	0	1	0	-1	-1
Long Term												
Full Simulation Period[a]	-19	-10	1	1	0	0	0	0	1	-3	-11	-14
Water Year Types[b]												
Wet (32%)	-1	0	1	0	0	0	0	0	0	0	-1	-1
Above Normal (15%)	-1	0	0	1	0	0	0	0	0	0	-1	-1
Below Normal (17%)	-29	-12	-3	3	1	1	0	0	0	-1	-11	-28
Dry (22%)	-32	-12	2	0	0	0	0	0	0	-3	-23	-30
Critical (15%)	-46	-37	4	1	2	1	0	2	3	-16	-20	-17

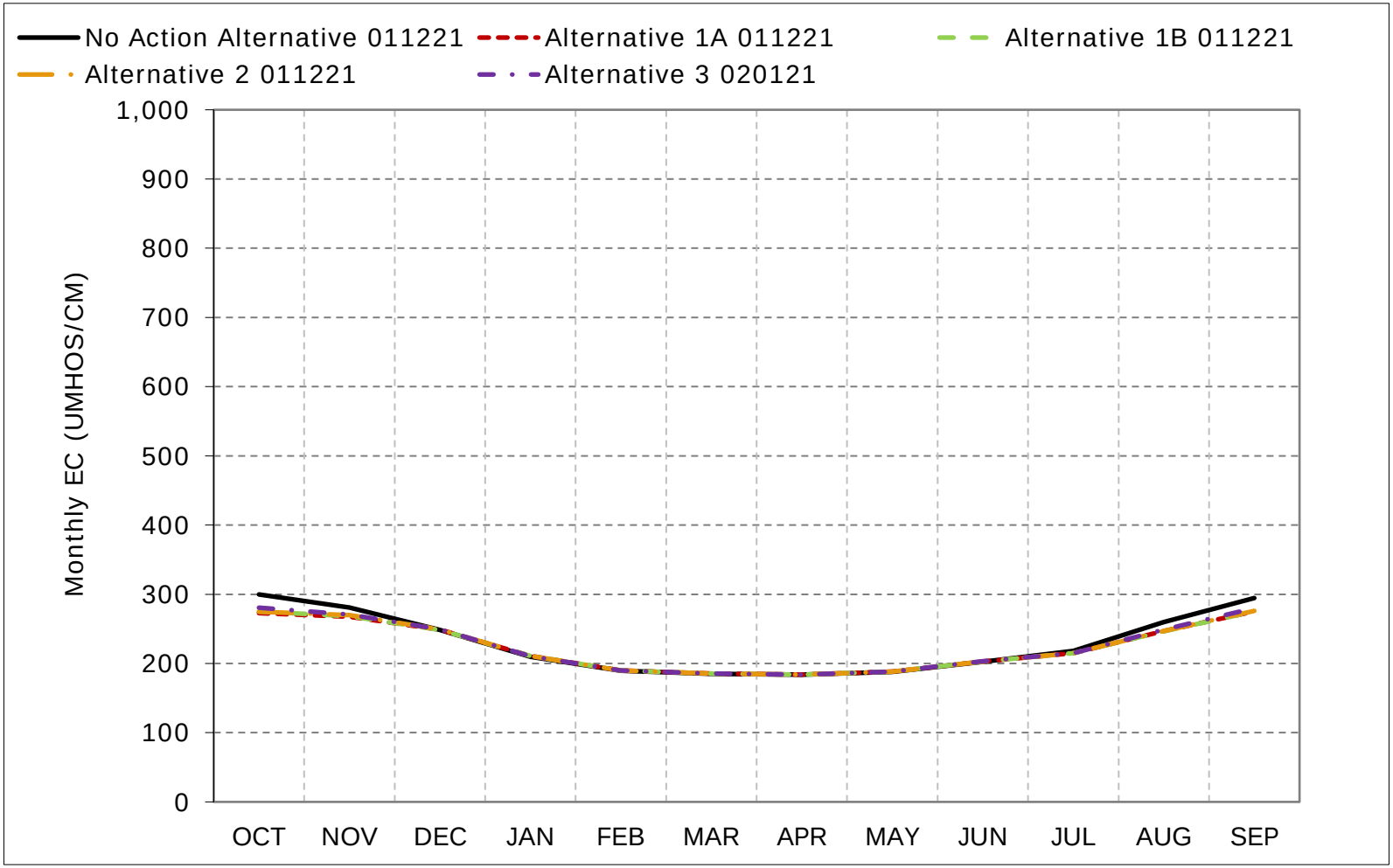
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-1. Sacramento River at Rio Vista, Long-Term Average EC

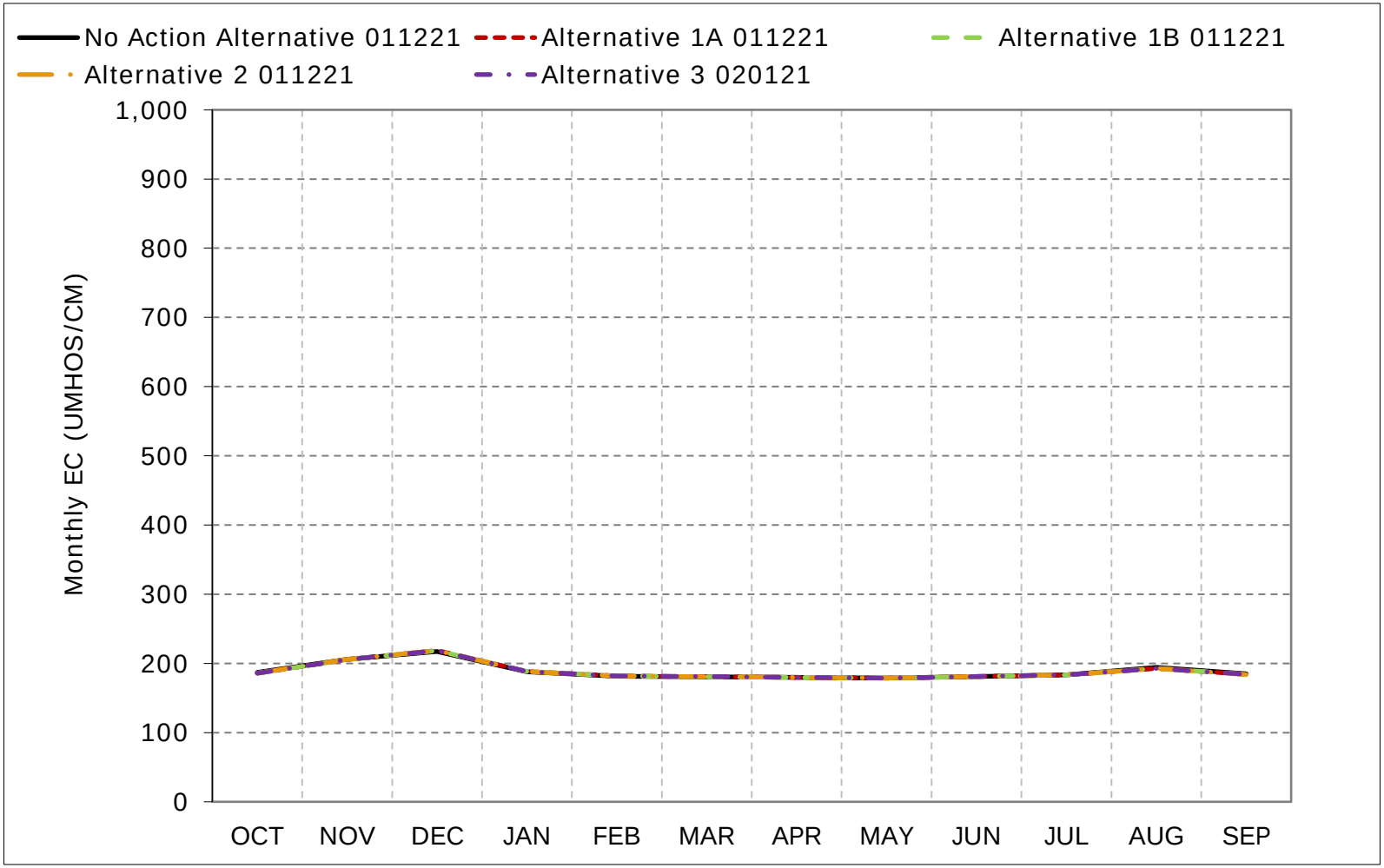


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-2. Sacramento River at Rio Vista, Wet Year Average EC

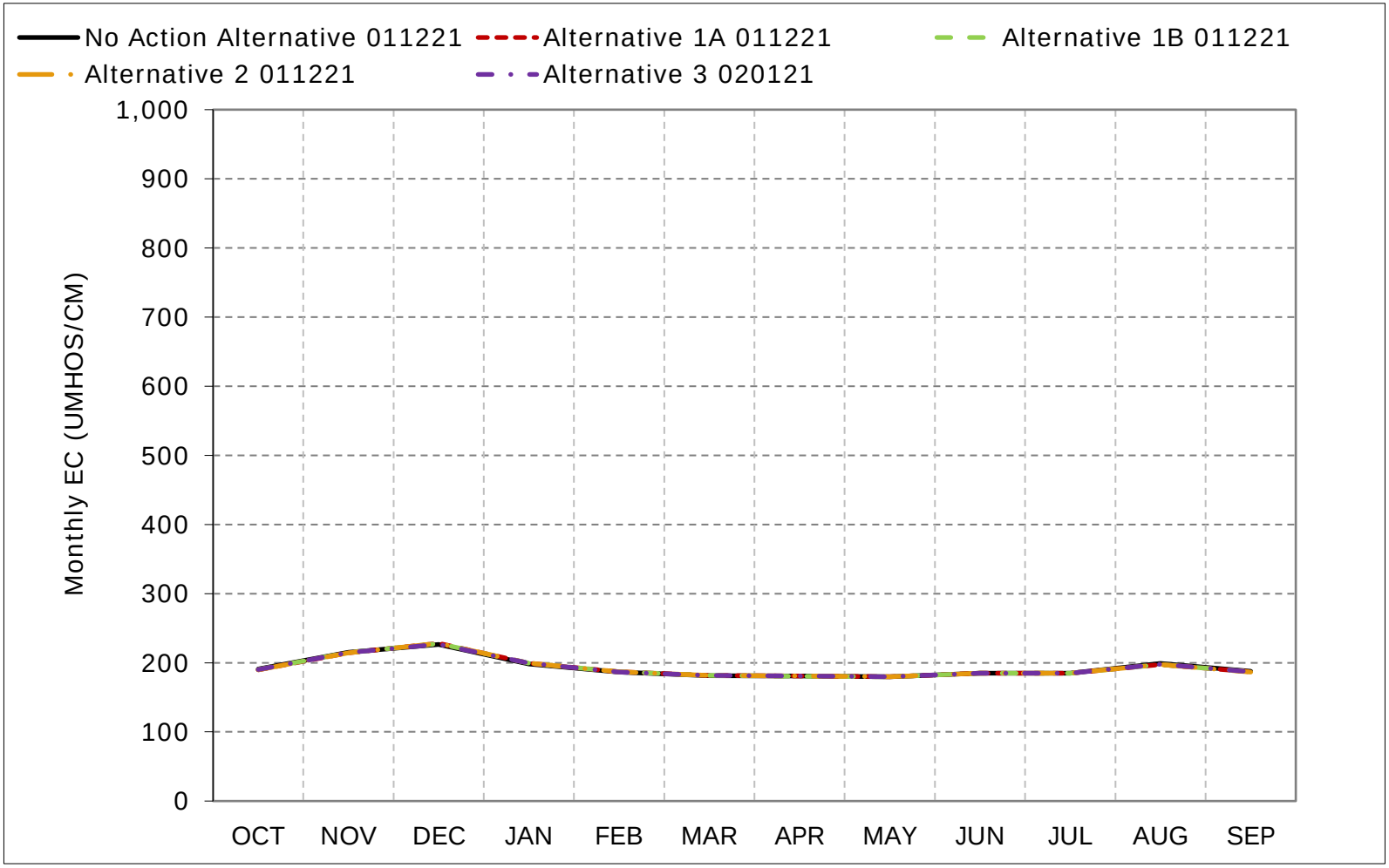


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-3. Sacramento River at Rio Vista, Above Normal Year Average EC

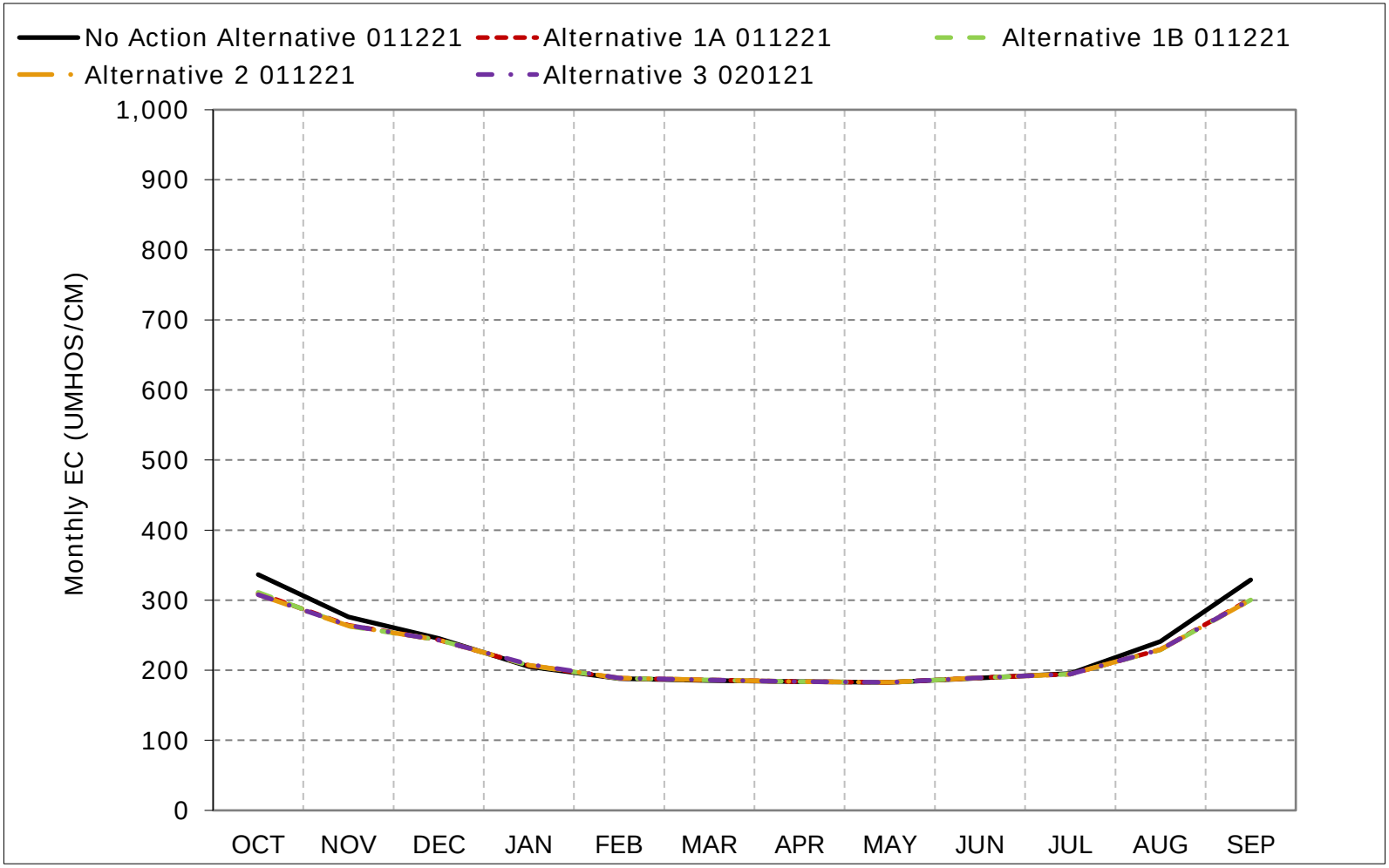


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-4. Sacramento River at Rio Vista, Below Normal Year Average EC

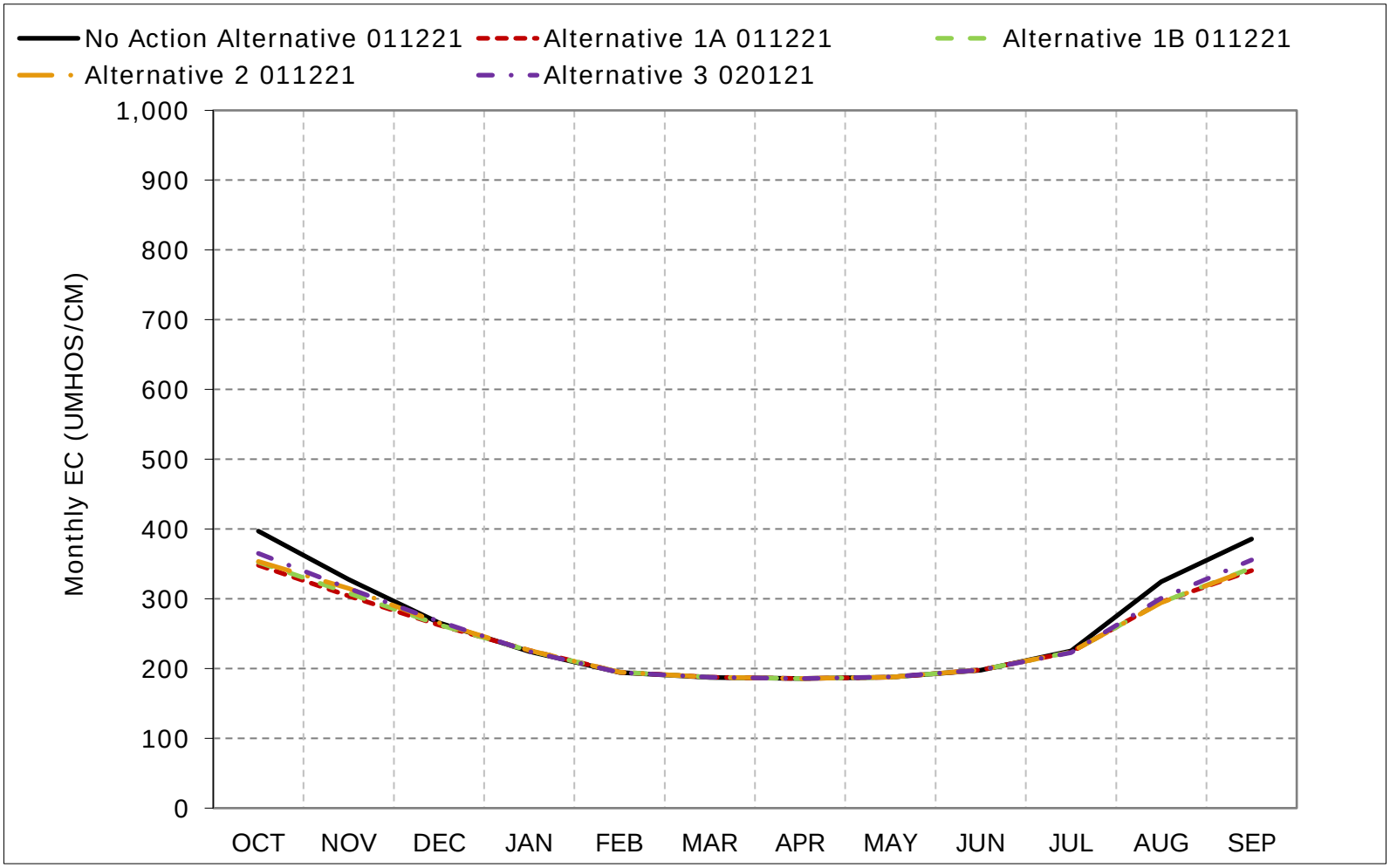


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-5. Sacramento River at Rio Vista, Dry Year Average EC

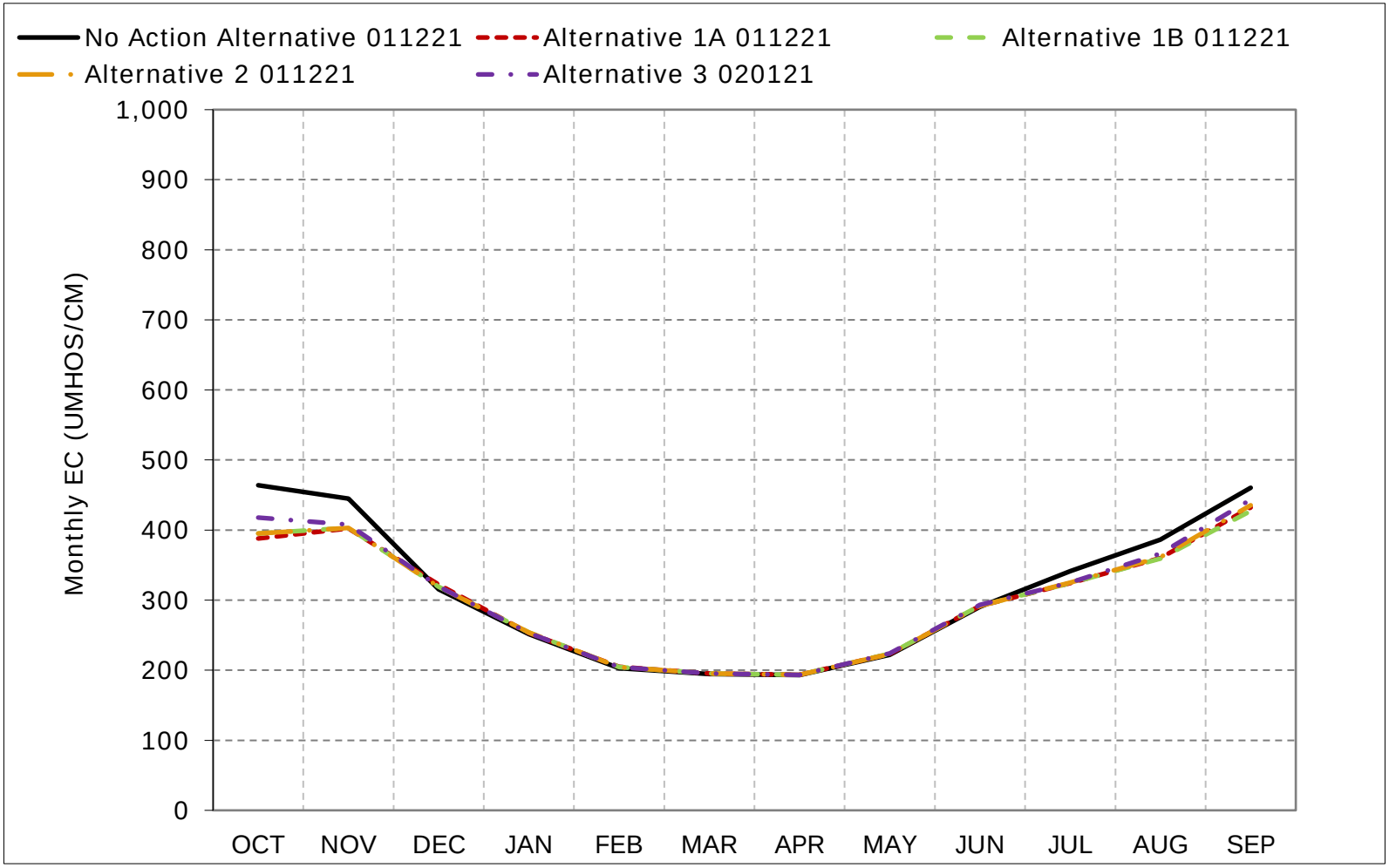


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-6. Sacramento River at Rio Vista, Critical Year Average EC

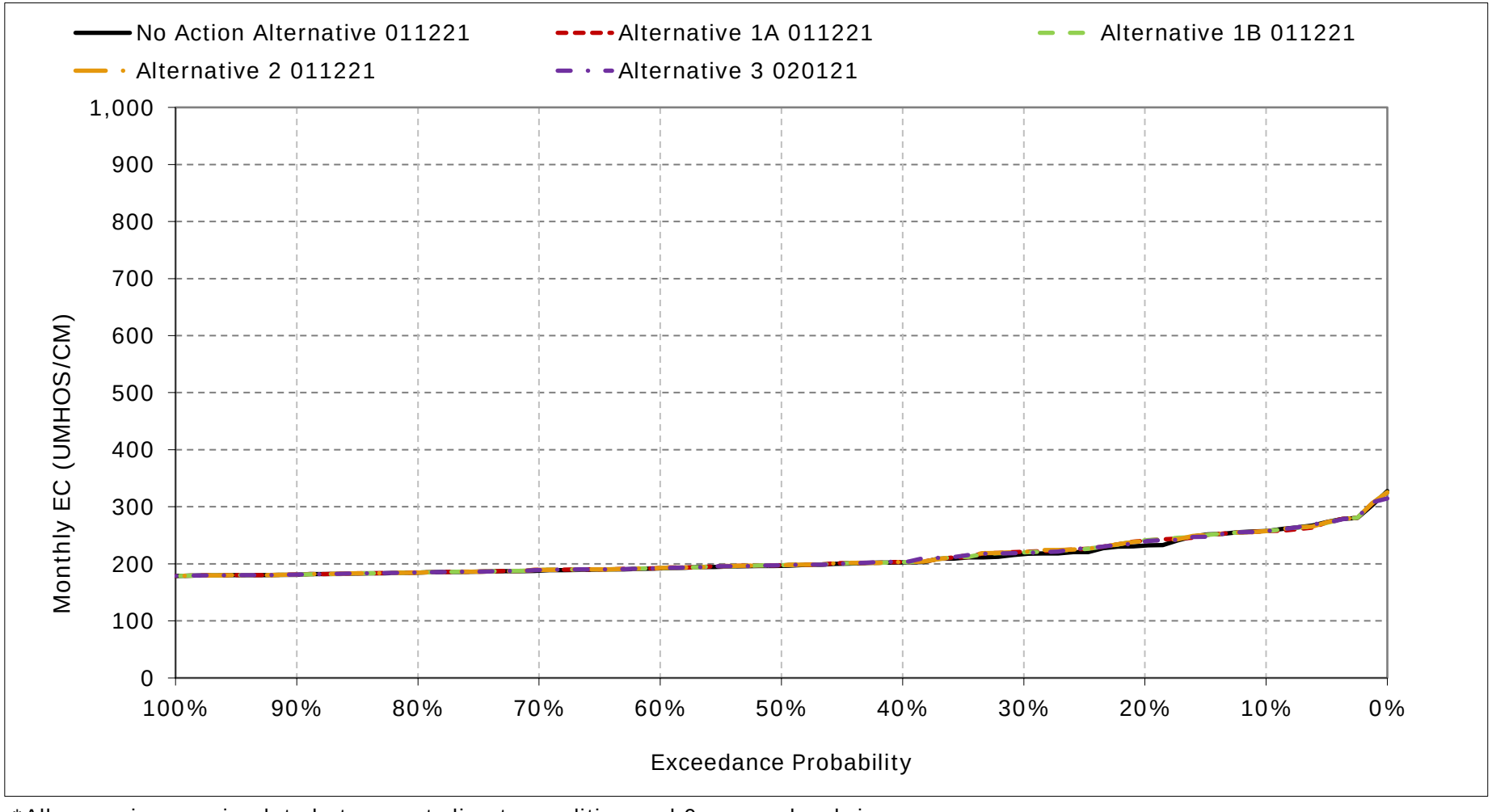


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

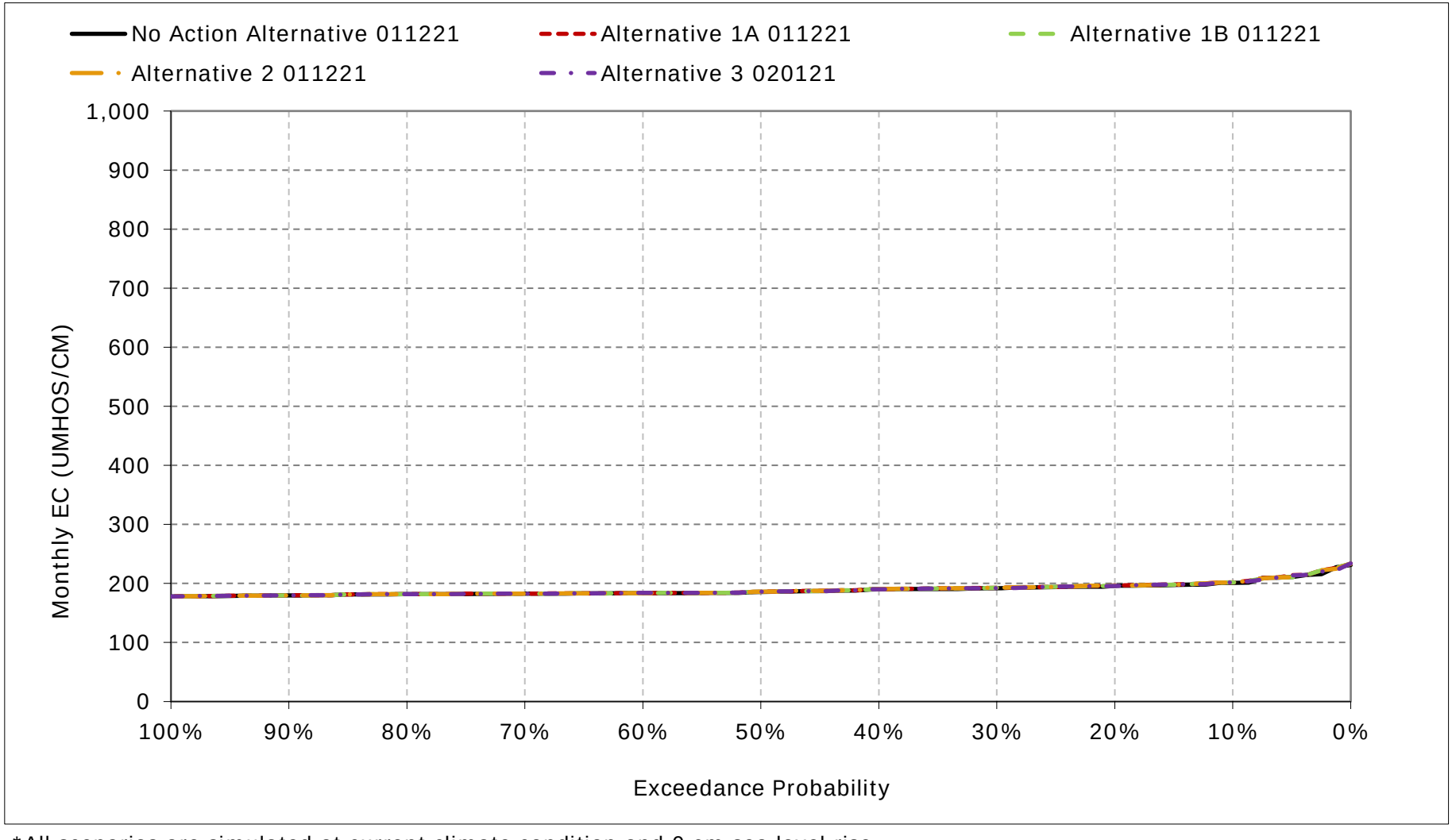
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-7. Sacramento River at Rio Vista Salinity, January EC



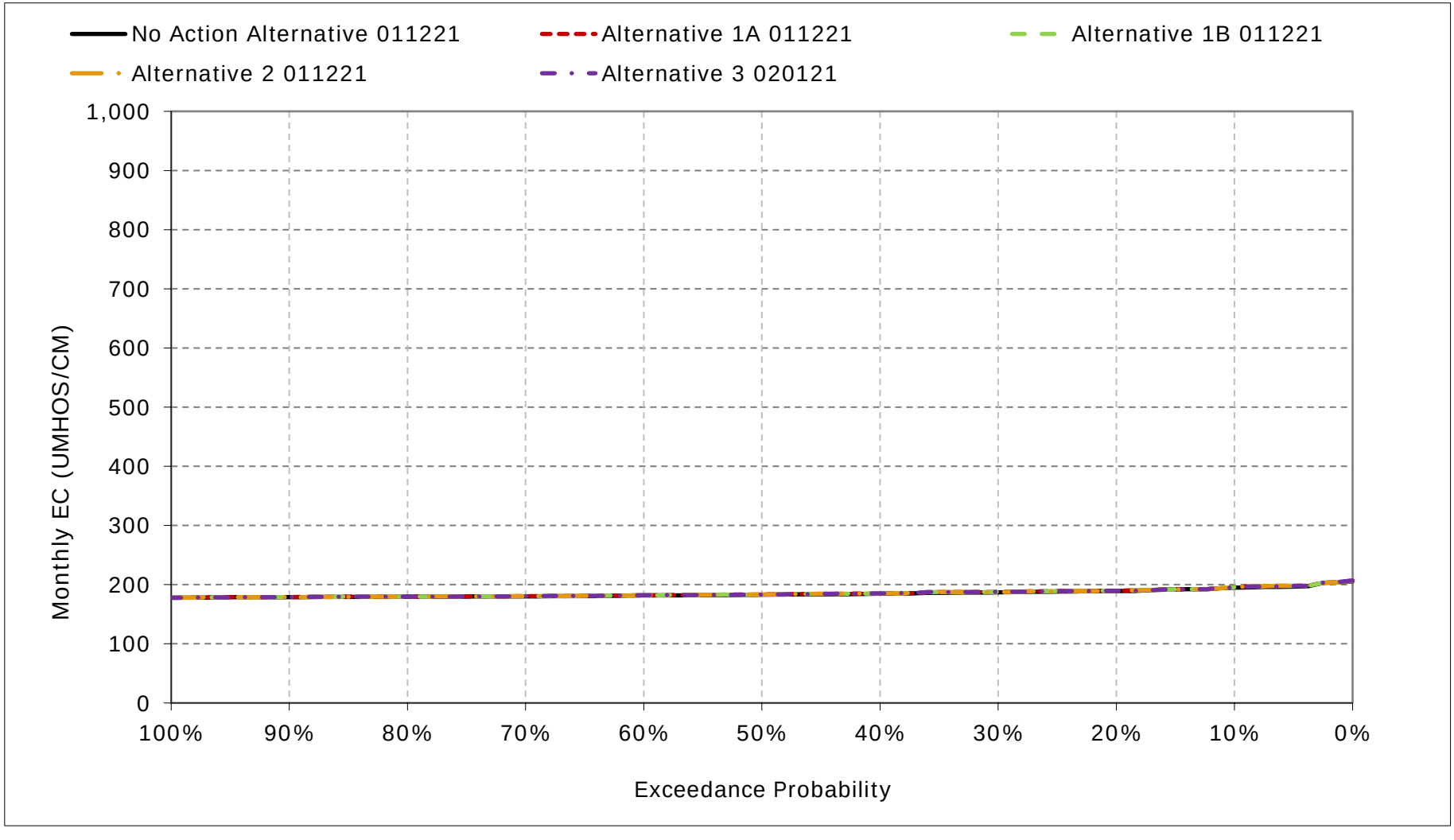
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-8. Sacramento River at Rio Vista Salinity, February EC



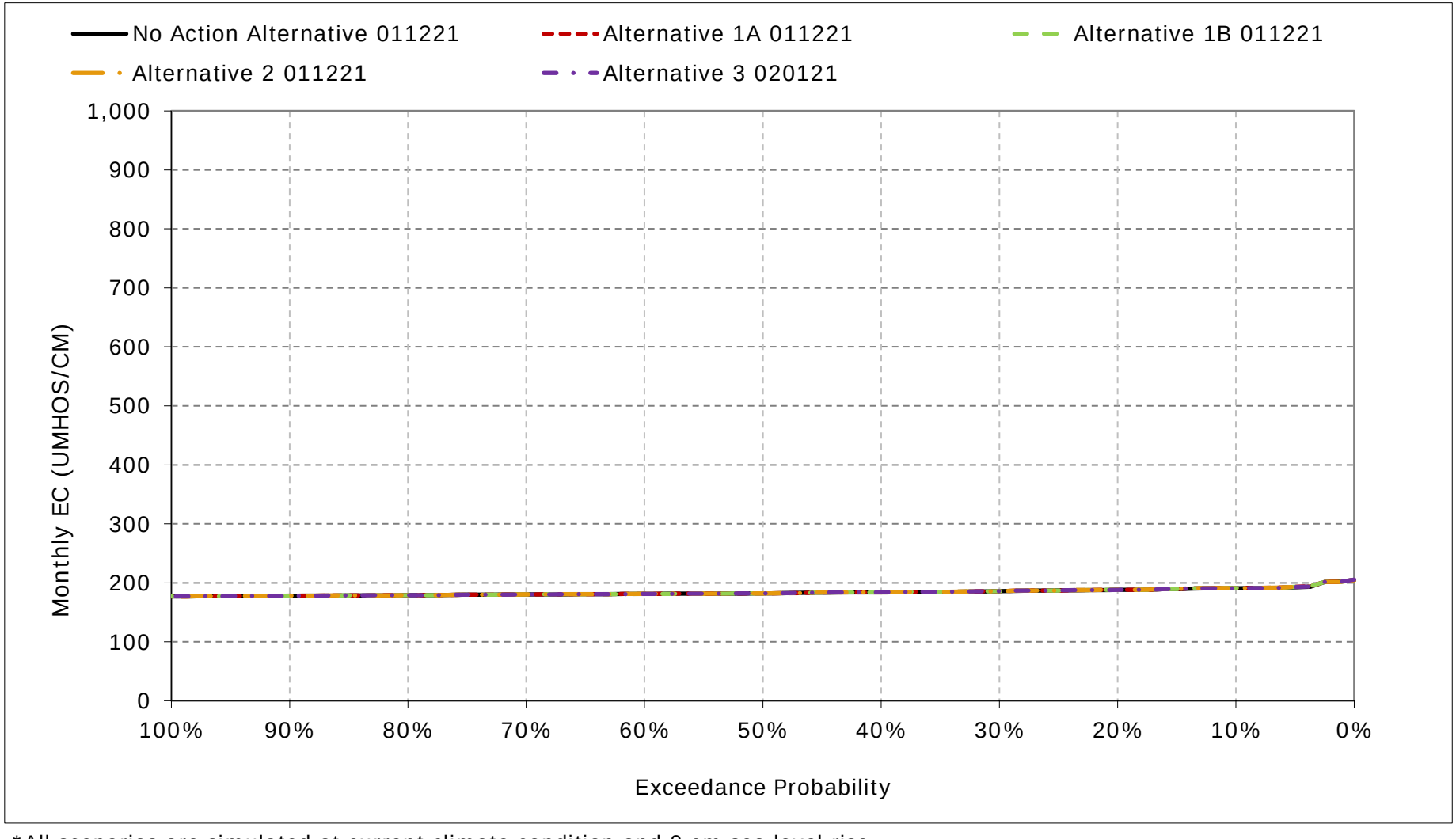
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-9. Sacramento River at Rio Vista Salinity, March EC



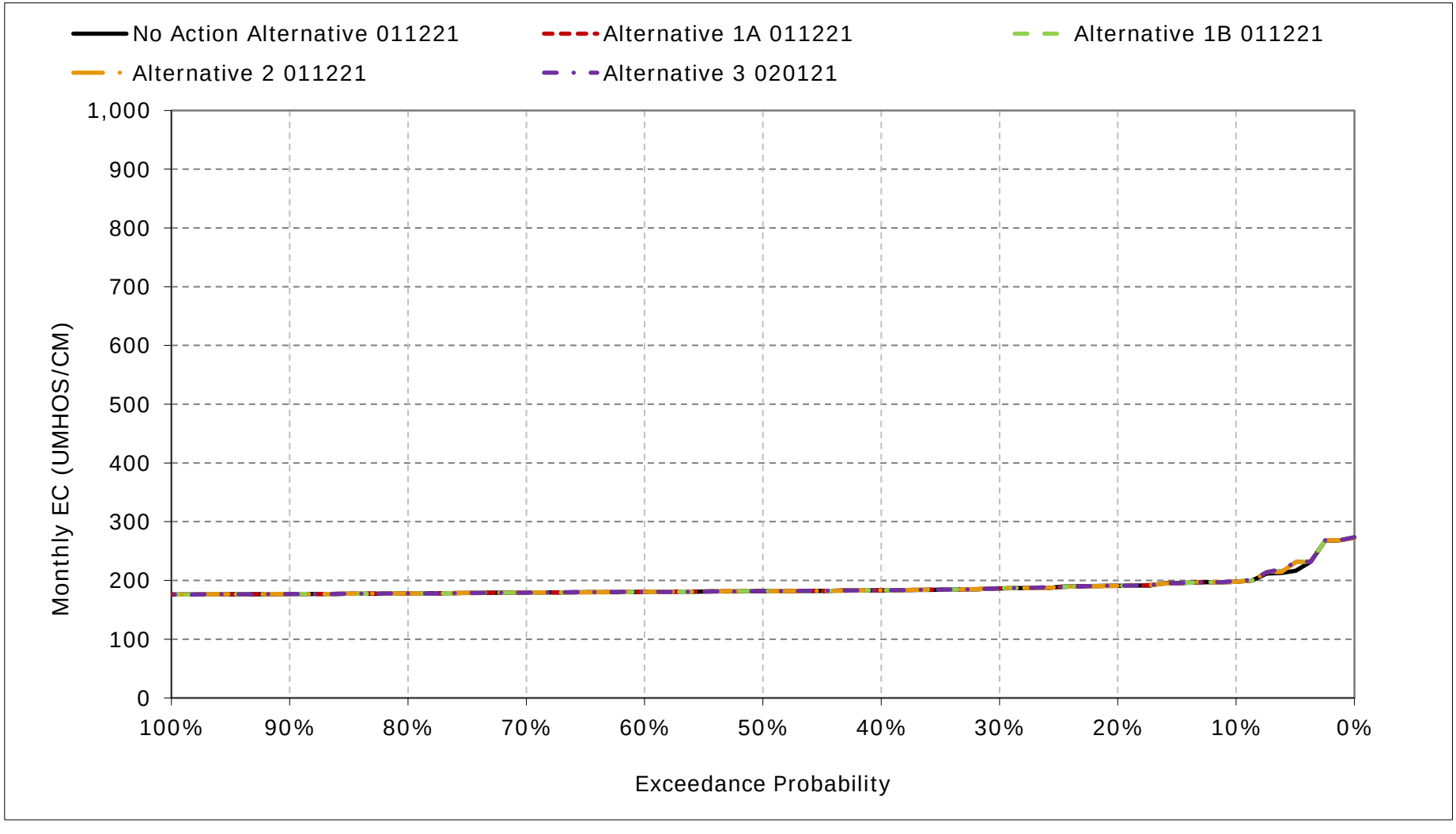
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-10. Sacramento River at Rio Vista Salinity, April EC



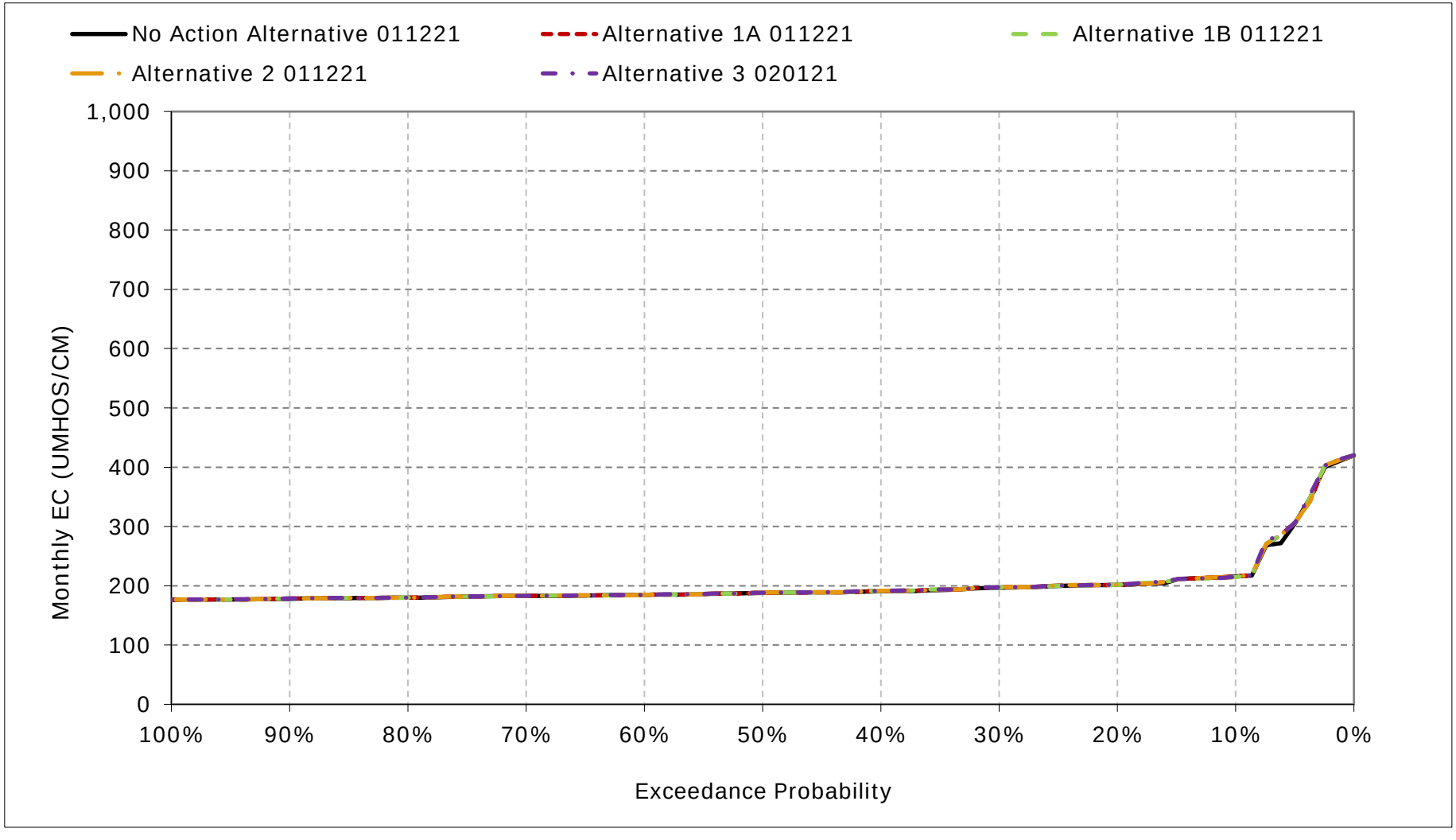
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-11. Sacramento River at Rio Vista Salinity, May EC



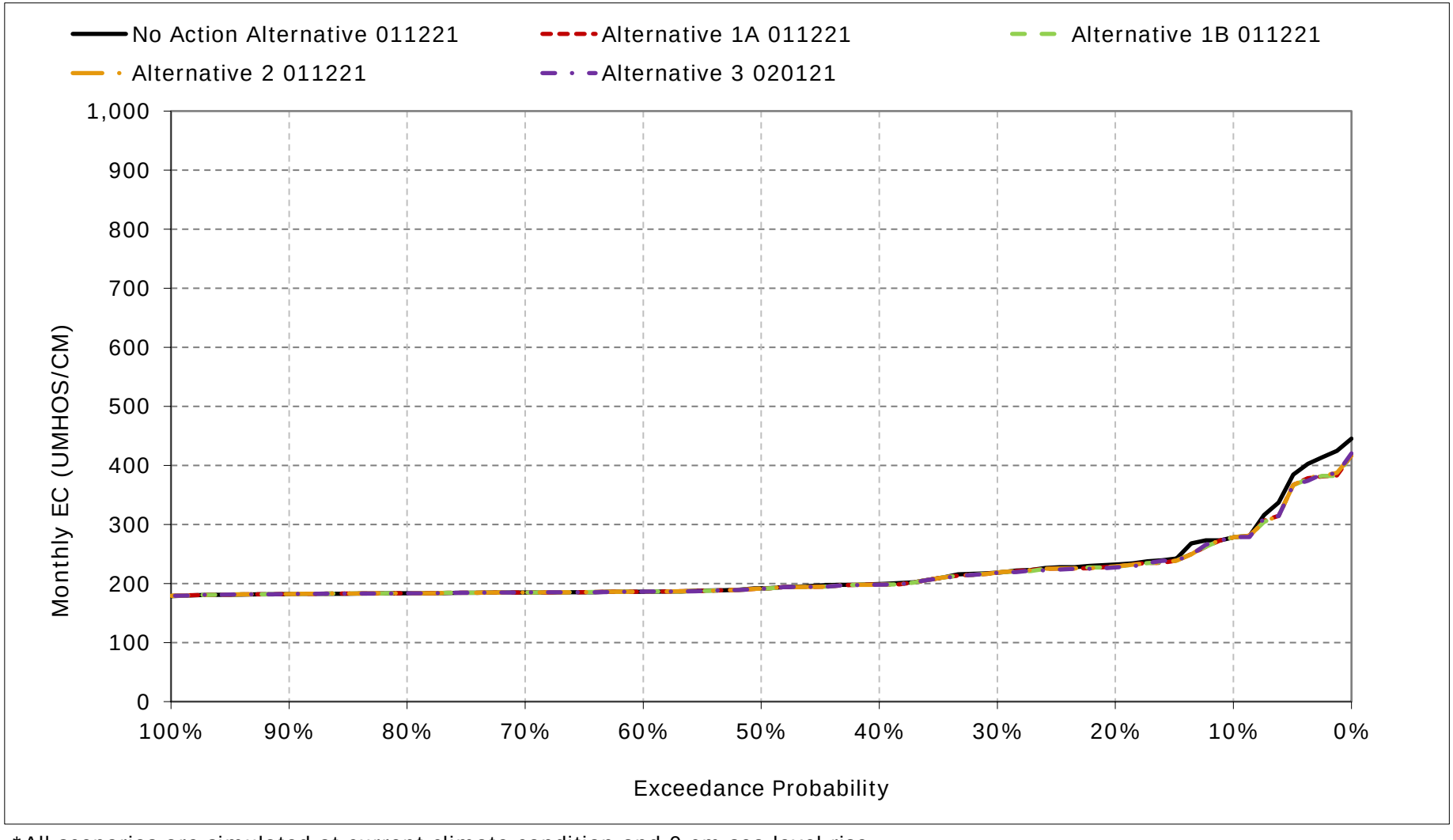
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-12. Sacramento River at Rio Vista Salinity, June EC



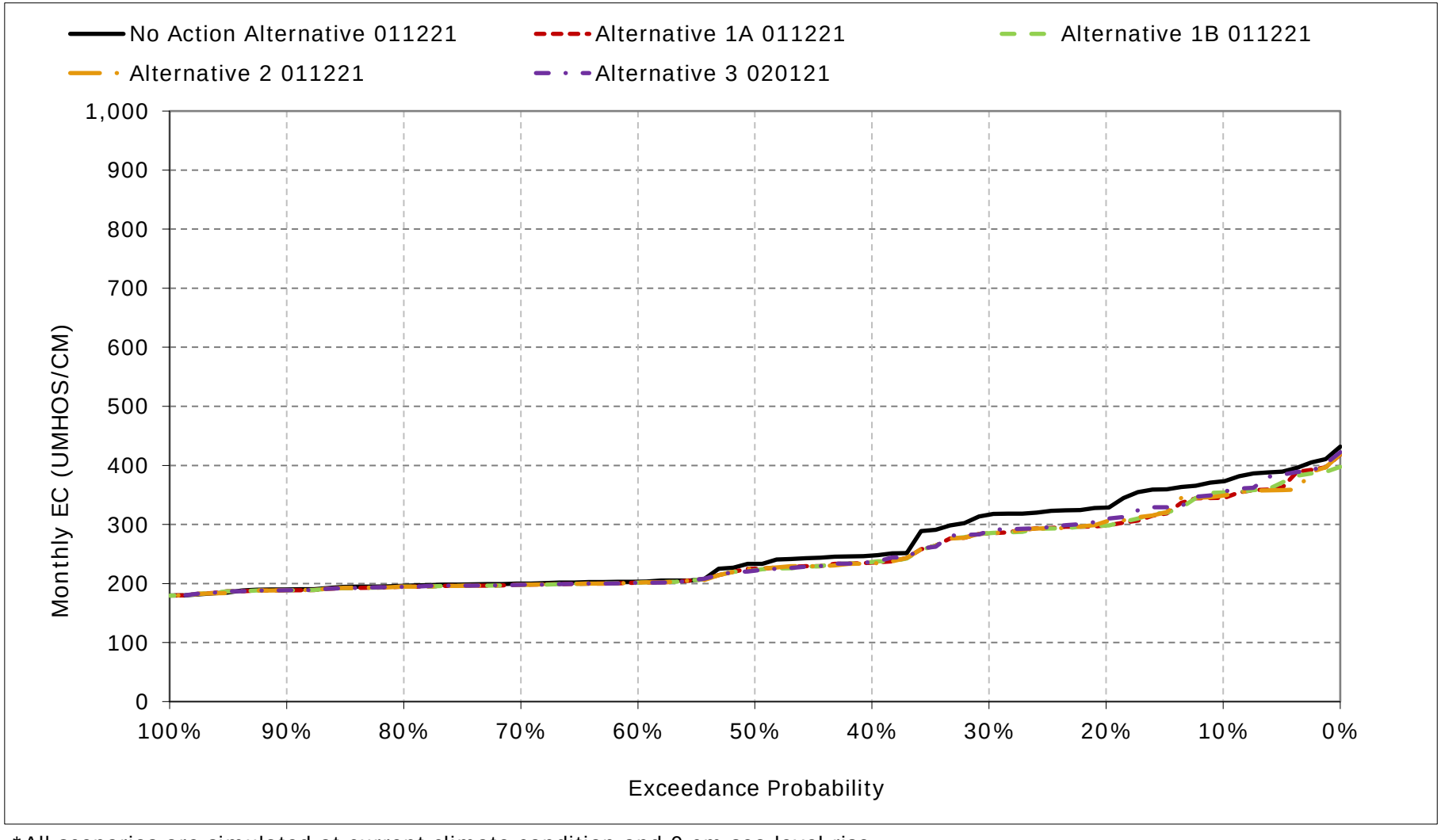
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-13. Sacramento River at Rio Vista Salinity, July EC



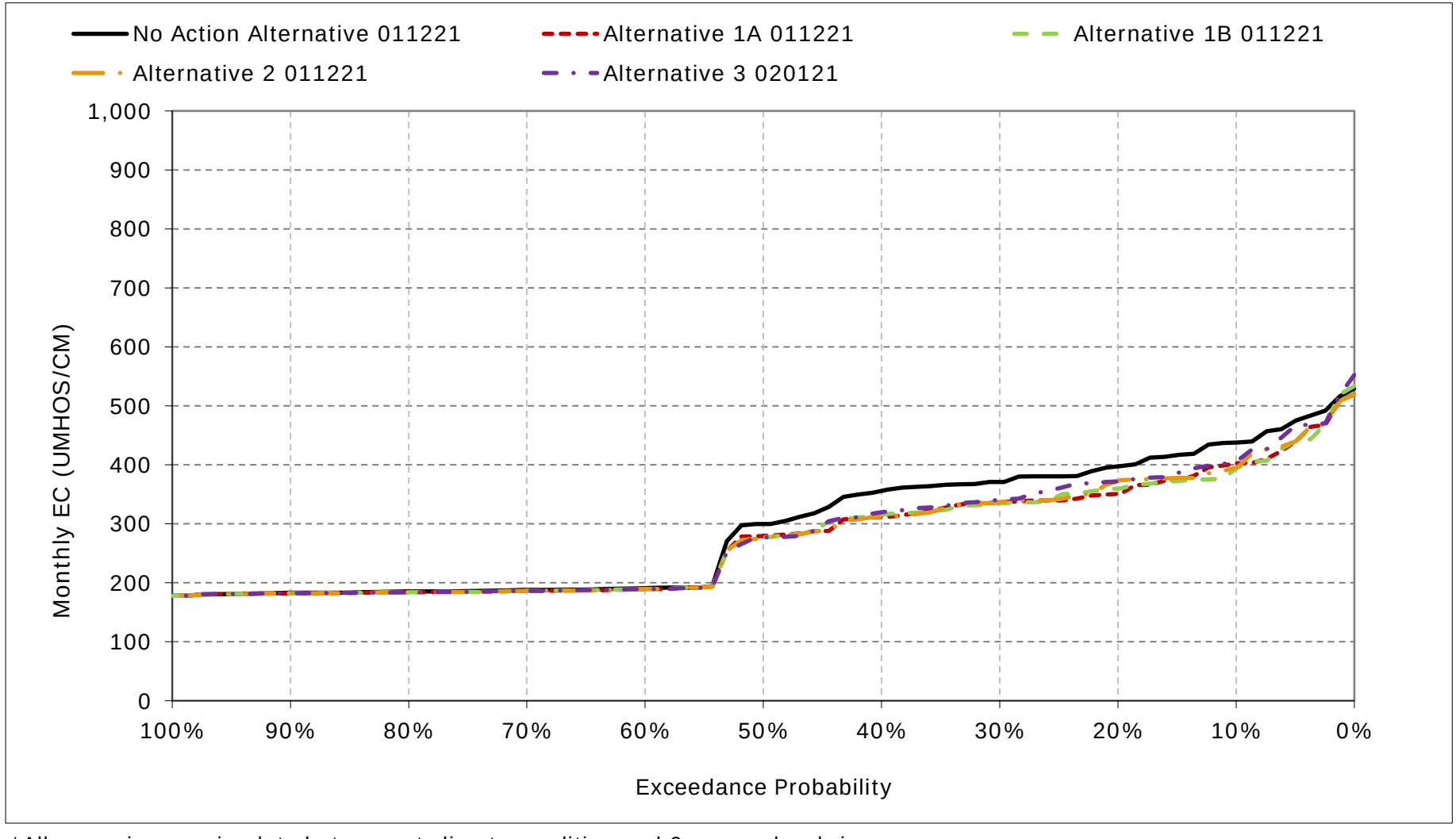
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-14. Sacramento River at Rio Vista Salinity, August EC



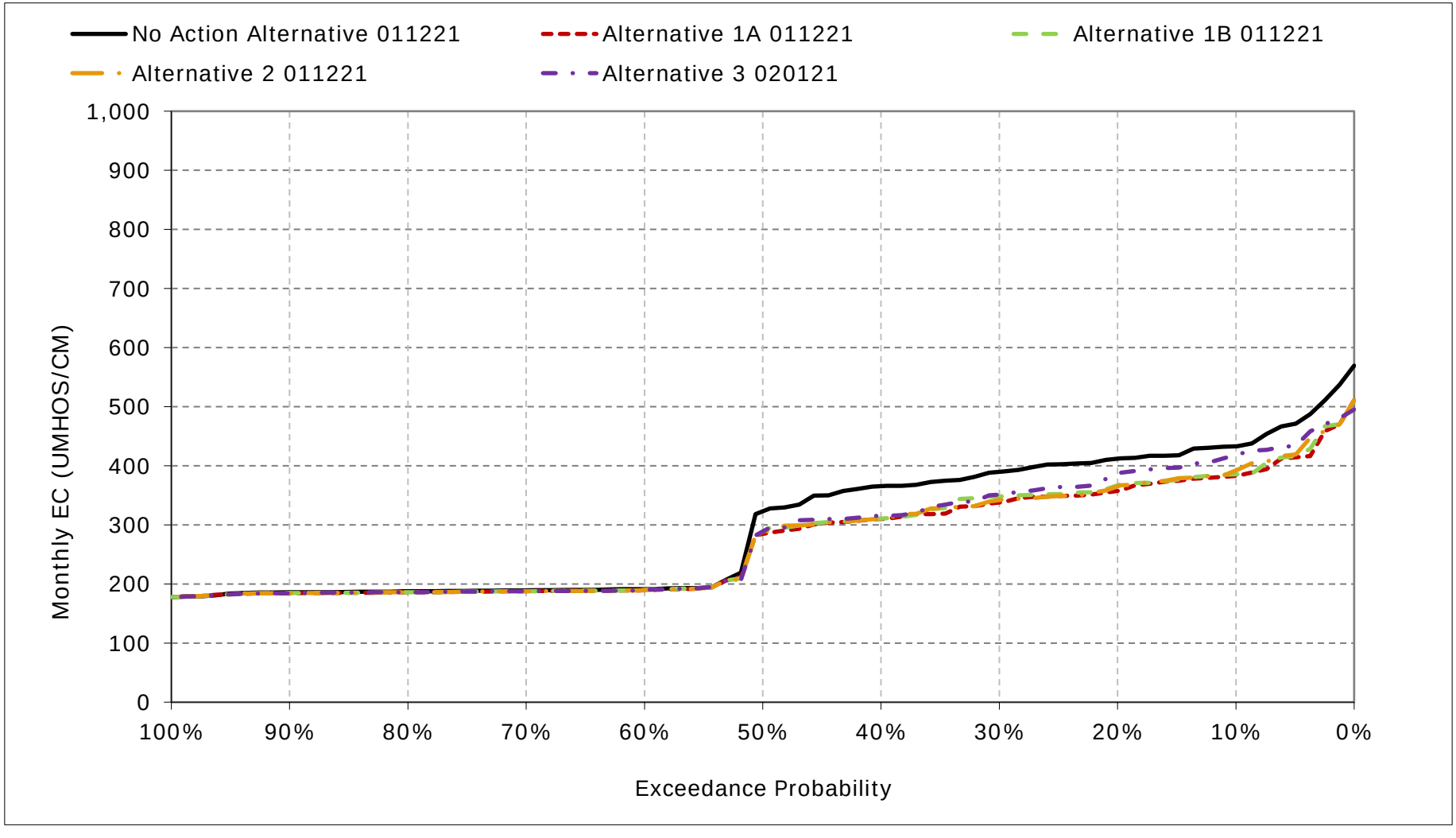
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-15. Sacramento River at Rio Vista Salinity, September EC



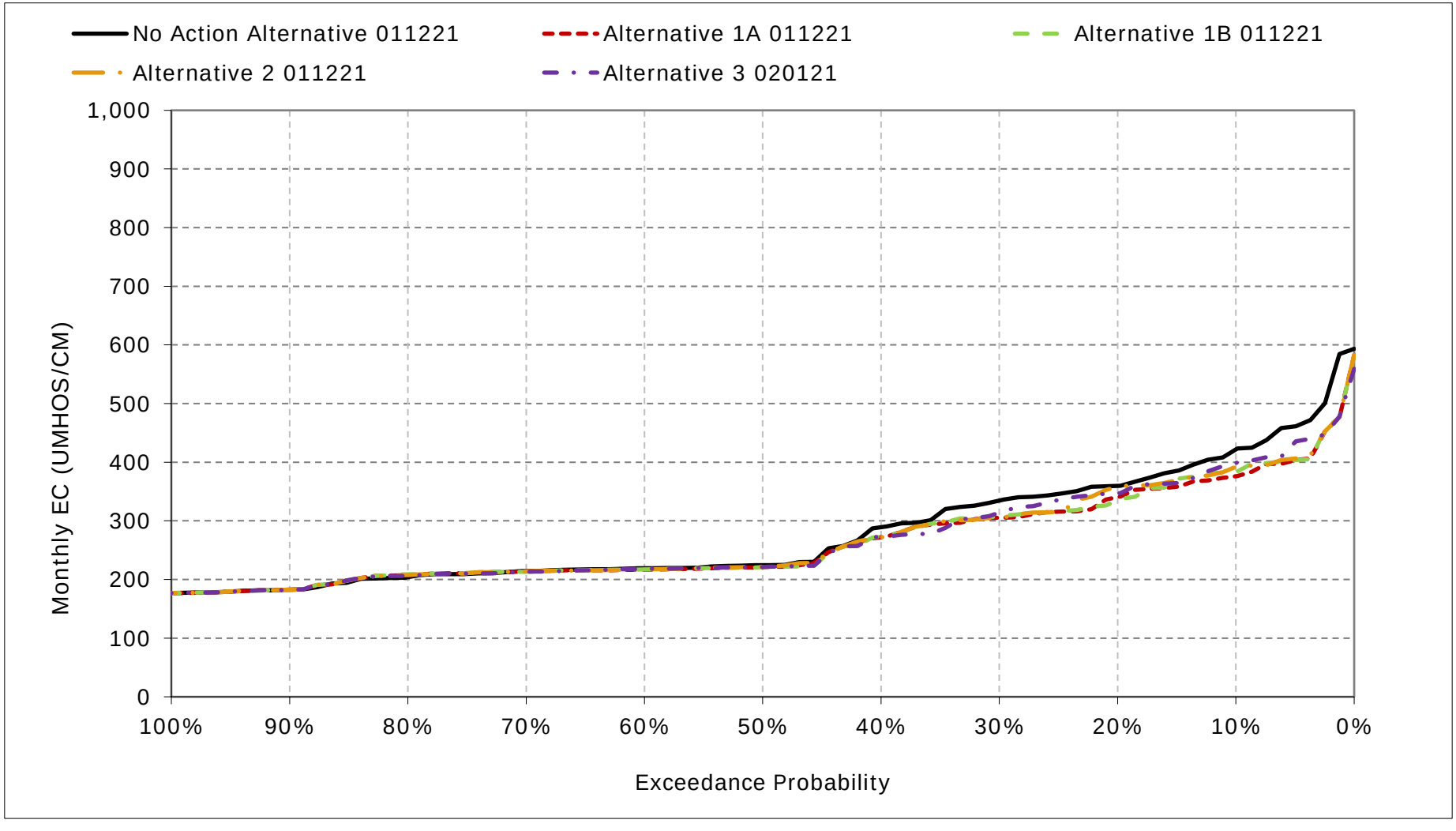
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-16. Sacramento River at Rio Vista Salinity, October EC



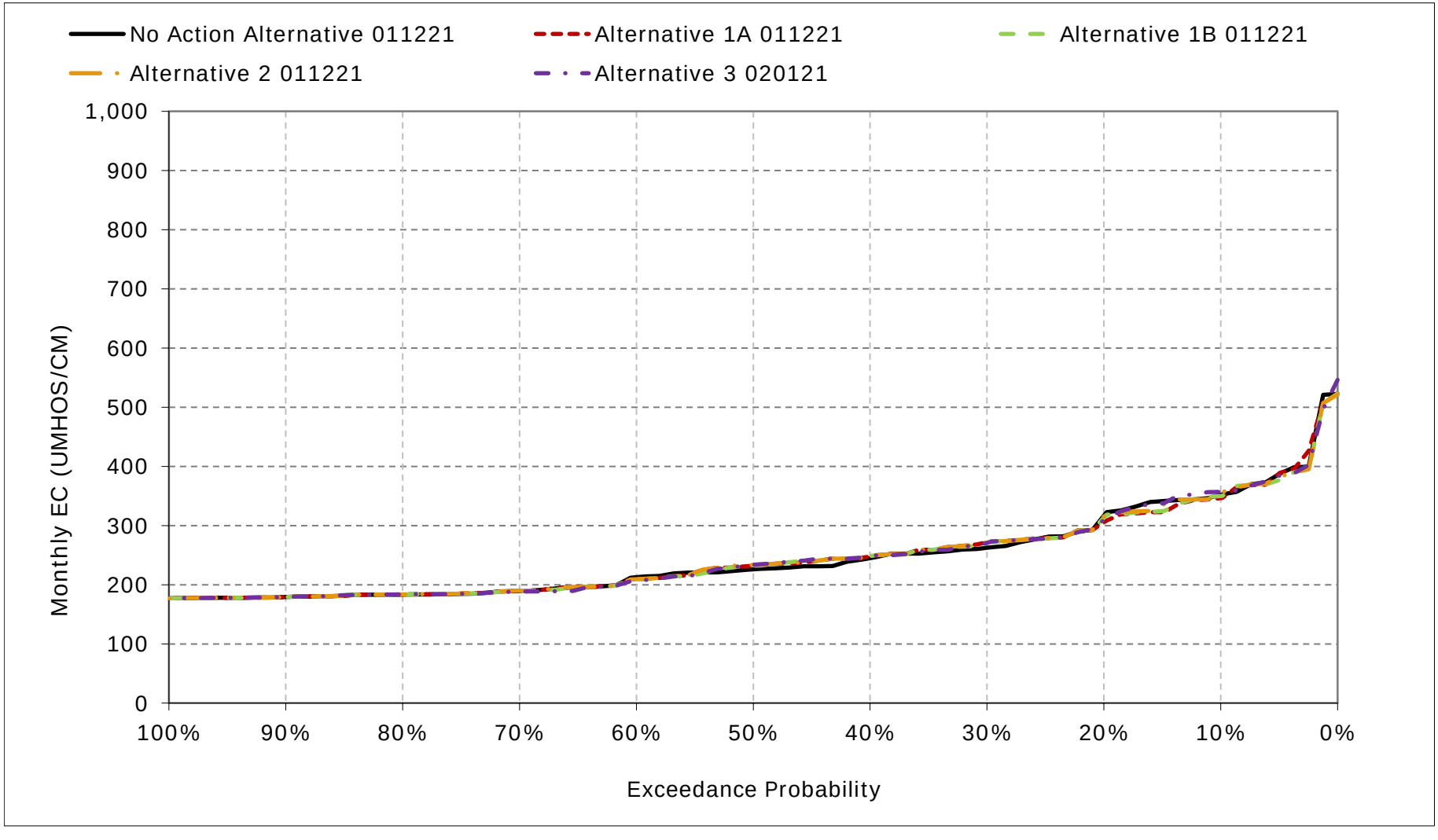
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-17. Sacramento River at Rio Vista Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-4-18. Sacramento River at Rio Vista Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-5-1a. Sacramento River at Emmaton, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,178	2,935	2,234	1,117	349	323	383	581	829	1,507	2,601	3,162
20%	3,000	2,544	1,748	808	264	236	248	436	677	1,038	2,086	2,879
30%	2,791	2,235	1,267	560	219	197	210	328	587	840	1,849	2,596
40%	2,672	1,762	1,012	356	203	194	198	218	449	546	1,251	2,443
50%	2,068	894	745	272	193	189	192	200	375	443	991	1,737
60%	497	852	574	214	189	186	187	190	283	353	689	421
70%	461	759	269	194	185	183	184	185	240	324	635	397
80%	404	613	211	188	183	181	182	180	192	299	567	369
90%	346	285	184	182	182	181	180	178	181	268	500	323
Long Term												
Full Simulation Period[a]	1,706	1,484	989	479	249	224	237	341	541	730	1,277	1,611
Water Year Types[b]												
Wet (32%)	394	621	649	210	183	183	184	189	224	283	545	349
Above Normal (15%)	489	784	738	321	195	185	187	190	302	328	610	393
Below Normal (17%)	2,206	1,475	979	435	207	200	206	241	402	490	1,116	2,070
Dry (22%)	2,932	2,121	1,186	651	294	238	242	351	593	936	1,994	2,755
Critical (15%)	3,341	3,111	1,697	1,014	426	363	431	922	1,553	2,069	2,642	3,311

Table 6B1-5-1b. Sacramento River at Emmaton, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,804	2,625	2,175	1,086	374	345	391	576	824	1,506	2,371	2,912
20%	2,504	2,228	1,716	837	262	246	248	443	680	975	1,784	2,495
30%	2,328	1,935	1,308	609	226	200	211	329	600	807	1,611	2,288
40%	2,080	1,499	1,033	367	205	197	198	221	460	538	1,052	1,952
50%	1,753	855	885	275	195	189	192	200	380	434	888	1,552
60%	479	824	543	218	189	187	187	190	282	357	664	394
70%	418	752	263	196	185	184	185	185	240	322	590	370
80%	366	668	224	188	183	182	182	180	193	298	531	344
90%	324	272	184	182	182	181	180	179	183	269	470	305
Long Term												
Full Simulation Period[a]	1,456	1,355	997	490	253	227	237	342	546	702	1,145	1,426
Water Year Types[b]												
Wet (32%)	370	625	668	211	184	183	184	189	226	284	518	333
Above Normal (15%)	461	773	760	332	196	185	187	191	305	328	582	372
Below Normal (17%)	1,949	1,344	955	447	210	203	206	241	408	480	971	1,791
Dry (22%)	2,463	1,859	1,144	669	296	239	241	348	596	888	1,700	2,314
Critical (15%)	2,720	2,773	1,773	1,032	444	370	433	934	1,565	1,958	2,440	3,089

Table 6B1-5-1c. Sacramento River at Emmaton, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-373	-310	-59	-31	24	22	7	-5	-5	-1	-230	-249
20%	-496	-316	-33	28	-2	10	0	7	3	-63	-302	-384
30%	-463	-300	41	49	7	3	1	1	14	-33	-238	-307
40%	-592	-263	21	11	2	2	0	3	11	-8	-200	-491
50%	-314	-39	140	3	2	0	1	0	5	-9	-103	-186
60%	-19	-29	-31	4	0	1	1	0	-1	4	-24	-27
70%	-43	-7	-6	1	1	0	0	0	0	-2	-45	-27
80%	-38	56	13	0	0	0	0	0	2	-1	-36	-25
90%	-23	-13	0	0	0	0	0	0	2	1	-30	-19
Long Term												
Full Simulation Period[a]	-249	-130	7	11	4	2	0	2	4	-28	-132	-185
Water Year Types[b]												
Wet (32%)	-24	4	19	1	0	0	0	0	2	1	-28	-17
Above Normal (15%)	-28	-12	22	12	1	1	0	0	3	0	-29	-21
Below Normal (17%)	-257	-131	-24	12	3	3	0	1	6	-11	-146	-279
Dry (22%)	-469	-261	-42	18	2	2	0	-2	2	-48	-295	-441
Critical (15%)	-621	-338	76	18	18	7	2	12	11	-111	-202	-222

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-5-2a. Sacramento River at Emmaton, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,178	2,935	2,234	1,117	349	323	383	581	829	1,507	2,601	3,162
20%	3,000	2,544	1,748	808	264	236	248	436	677	1,038	2,086	2,879
30%	2,791	2,235	1,267	560	219	197	210	328	587	840	1,849	2,596
40%	2,672	1,762	1,012	356	203	194	198	218	449	546	1,251	2,443
50%	2,068	894	745	272	193	189	192	200	375	443	991	1,737
60%	497	852	574	214	189	186	187	190	283	353	689	421
70%	461	759	269	194	185	183	184	185	240	324	635	397
80%	404	613	211	188	183	181	182	180	192	299	567	369
90%	346	285	184	182	182	181	180	178	181	268	500	323
Long Term												
Full Simulation Period[a]	1,706	1,484	989	479	249	224	237	341	541	730	1,277	1,611
Water Year Types[b]												
Wet (32%)	394	621	649	210	183	183	184	189	224	283	545	349
Above Normal (15%)	489	784	738	321	195	185	187	190	302	328	610	393
Below Normal (17%)	2,206	1,475	979	435	207	200	206	241	402	490	1,116	2,070
Dry (22%)	2,932	2,121	1,186	651	294	238	242	351	593	936	1,994	2,755
Critical (15%)	3,341	3,111	1,697	1,014	426	363	431	922	1,553	2,069	2,642	3,311

Table 6B1-5-2b. Sacramento River at Emmaton, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,785	2,676	2,179	1,088	373	346	391	578	824	1,507	2,371	2,757
20%	2,581	2,177	1,755	836	263	247	249	443	678	975	1,799	2,531
30%	2,395	1,948	1,306	588	221	200	211	329	600	795	1,595	2,260
40%	2,107	1,561	1,047	363	204	197	198	221	459	537	1,046	1,979
50%	1,724	857	884	275	195	189	192	201	380	434	883	1,494
60%	481	820	532	218	189	187	187	190	284	354	665	401
70%	424	752	263	196	185	184	185	185	240	322	590	370
80%	366	661	234	189	183	182	182	180	193	297	529	342
90%	325	272	184	183	182	181	180	178	183	269	470	305
Long Term												
Full Simulation Period[a]	1,474	1,360	991	489	252	227	237	343	547	700	1,143	1,423
Water Year Types[b]												
Wet (32%)	371	627	666	211	184	183	184	189	226	284	518	333
Above Normal (15%)	466	775	756	332	196	185	187	191	305	328	582	374
Below Normal (17%)	1,955	1,325	952	446	210	203	206	241	408	478	963	1,776
Dry (22%)	2,503	1,887	1,145	666	295	239	242	350	598	885	1,695	2,347
Critical (15%)	2,767	2,783	1,748	1,034	440	370	433	936	1,568	1,957	2,438	3,034

Table 6B1-5-2c. Sacramento River at Emmaton, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-392	-259	-55	-29	24	23	8	-3	-5	0	-230	-405
20%	-419	-367	6	28	-1	10	1	7	1	-63	-287	-348
30%	-395	-288	39	28	2	3	1	1	14	-45	-254	-336
40%	-566	-201	35	6	1	2	0	2	11	-10	-206	-464
50%	-344	-37	139	3	2	0	1	0	5	-9	-108	-243
60%	-17	-33	-41	4	0	1	1	0	2	2	-24	-20
70%	-37	-7	-6	1	1	0	0	0	0	-2	-45	-26
80%	-38	48	23	1	0	0	0	0	2	-1	-38	-27
90%	-21	-13	0	0	0	0	0	0	2	1	-30	-19
Long Term												
Full Simulation Period[a]	-232	-124	2	10	3	2	0	2	5	-29	-135	-188
Water Year Types[b]												
Wet (32%)	-24	6	17	1	0	0	0	0	2	1	-28	-16
Above Normal (15%)	-23	-9	18	12	1	1	0	0	3	0	-28	-19
Below Normal (17%)	-251	-150	-28	12	3	3	0	0	7	-12	-154	-294
Dry (22%)	-429	-233	-40	15	1	1	0	0	5	-51	-299	-408
Critical (15%)	-574	-328	51	20	14	7	2	14	15	-112	-204	-277

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-5-3a. Sacramento River at Emmaton, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,178	2,935	2,234	1,117	349	323	383	581	829	1,507	2,601	3,162
20%	3,000	2,544	1,748	808	264	236	248	436	677	1,038	2,086	2,879
30%	2,791	2,235	1,267	560	219	197	210	328	587	840	1,849	2,596
40%	2,672	1,762	1,012	356	203	194	198	218	449	546	1,251	2,443
50%	2,068	894	745	272	193	189	192	200	375	443	991	1,737
60%	497	852	574	214	189	186	187	190	283	353	689	421
70%	461	759	269	194	185	183	184	185	240	324	635	397
80%	404	613	211	188	183	181	182	180	192	299	567	369
90%	346	285	184	182	182	181	180	178	181	268	500	323
Long Term												
Full Simulation Period[a]	1,706	1,484	989	479	249	224	237	341	541	730	1,277	1,611
Water Year Types[b]												
Wet (32%)	394	621	649	210	183	183	184	189	224	283	545	349
Above Normal (15%)	489	784	738	321	195	185	187	190	302	328	610	393
Below Normal (17%)	2,206	1,475	979	435	207	200	206	241	402	490	1,116	2,070
Dry (22%)	2,932	2,121	1,186	651	294	238	242	351	593	936	1,994	2,755
Critical (15%)	3,341	3,111	1,697	1,014	426	363	431	922	1,553	2,069	2,642	3,311

Table 6B1-5-3b. Sacramento River at Emmaton, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,849	2,729	2,203	1,104	374	345	391	580	825	1,507	2,341	2,898
20%	2,562	2,444	1,753	836	262	247	248	443	680	977	1,832	2,563
30%	2,382	1,952	1,308	610	221	200	211	329	600	807	1,594	2,300
40%	2,163	1,498	1,039	367	205	197	198	221	460	536	1,053	1,941
50%	1,756	853	888	274	195	189	192	200	380	434	888	1,518
60%	476	824	544	218	189	187	187	190	282	357	662	394
70%	416	752	263	196	185	184	185	185	240	322	590	370
80%	375	668	224	188	183	182	182	180	193	297	531	344
90%	324	272	184	183	182	181	180	179	183	269	470	303
Long Term												
Full Simulation Period[a]	1,473	1,381	1,000	491	252	226	237	342	546	702	1,144	1,431
Water Year Types[b]												
Wet (32%)	372	630	668	211	184	183	184	189	226	284	514	330
Above Normal (15%)	461	772	760	332	196	185	187	191	305	328	580	371
Below Normal (17%)	1,926	1,335	954	451	210	203	206	241	408	479	968	1,774
Dry (22%)	2,511	1,968	1,175	669	295	239	241	348	596	888	1,698	2,340
Critical (15%)	2,788	2,787	1,747	1,035	440	369	434	934	1,565	1,962	2,449	3,115

Table 6B1-5-3c. Sacramento River at Emmaton, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-329	-207	-31	-13	25	22	7	-1	-4	0	-261	-264
20%	-439	-100	5	28	-2	10	0	7	3	-61	-254	-316
30%	-409	-284	41	50	2	3	1	1	14	-33	-255	-296
40%	-509	-264	27	10	2	3	0	3	11	-11	-198	-502
50%	-312	-41	143	1	2	0	1	0	5	-9	-103	-220
60%	-21	-28	-29	4	0	1	0	0	-1	4	-27	-27
70%	-44	-7	-5	1	1	0	0	0	0	-2	-45	-26
80%	-29	55	13	0	0	0	0	0	2	-2	-36	-25
90%	-22	-13	0	0	0	0	0	0	2	1	-30	-21
Long Term												
Full Simulation Period[a]	-232	-104	10	12	3	2	0	2	4	-28	-133	-180
Water Year Types[b]												
Wet (32%)	-23	9	19	1	0	0	0	0	2	1	-31	-20
Above Normal (15%)	-28	-13	22	12	1	1	0	0	3	0	-31	-22
Below Normal (17%)	-280	-140	-25	16	3	3	0	1	6	-11	-149	-295
Dry (22%)	-421	-152	-10	17	1	2	0	-2	3	-48	-296	-416
Critical (15%)	-553	-324	50	21	14	6	2	13	12	-107	-193	-196

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-5-4a. Sacramento River at Emmaton, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,178	2,935	2,234	1,117	349	323	383	581	829	1,507	2,601	3,162
20%	3,000	2,544	1,748	808	264	236	248	436	677	1,038	2,086	2,879
30%	2,791	2,235	1,267	560	219	197	210	328	587	840	1,849	2,596
40%	2,672	1,762	1,012	356	203	194	198	218	449	546	1,251	2,443
50%	2,068	894	745	272	193	189	192	200	375	443	991	1,737
60%	497	852	574	214	189	186	187	190	283	353	689	421
70%	461	759	269	194	185	183	184	185	240	324	635	397
80%	404	613	211	188	183	181	182	180	192	299	567	369
90%	346	285	184	182	182	181	180	178	181	268	500	323
Long Term												
Full Simulation Period[a]	1,706	1,484	989	479	249	224	237	341	541	730	1,277	1,611
Water Year Types[b]												
Wet (32%)	394	621	649	210	183	183	184	189	224	283	545	349
Above Normal (15%)	489	784	738	321	195	185	187	190	302	328	610	393
Below Normal (17%)	2,206	1,475	979	435	207	200	206	241	402	490	1,116	2,070
Dry (22%)	2,932	2,121	1,186	651	294	238	242	351	593	936	1,994	2,755
Critical (15%)	3,341	3,111	1,697	1,014	426	363	431	922	1,553	2,069	2,642	3,311

Table 6B1-5-4b. Sacramento River at Emmaton, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,029	2,814	2,255	1,091	373	344	391	578	837	1,505	2,397	2,961
20%	2,729	2,387	1,749	829	251	246	246	443	680	959	1,903	2,647
30%	2,479	2,060	1,290	627	226	200	211	330	601	795	1,644	2,350
40%	2,149	1,530	1,065	363	205	196	198	221	460	535	1,059	1,970
50%	1,680	859	816	275	195	190	192	201	380	431	883	1,451
60%	472	818	531	217	189	187	187	190	284	355	662	403
70%	439	766	264	195	185	184	185	185	242	322	590	368
80%	365	640	220	189	183	182	182	180	193	297	528	345
90%	332	272	184	183	182	181	180	179	182	269	468	305
Long Term												
Full Simulation Period[a]	1,519	1,388	1,000	488	251	226	237	345	550	701	1,162	1,464
Water Year Types[b]												
Wet (32%)	372	627	665	210	184	183	184	189	226	284	517	334
Above Normal (15%)	460	774	744	332	196	185	187	191	305	326	583	370
Below Normal (17%)	1,908	1,330	945	463	210	203	206	241	409	477	968	1,774
Dry (22%)	2,619	1,983	1,196	651	288	238	241	356	602	880	1,750	2,452
Critical (15%)	2,956	2,828	1,752	1,030	444	370	433	942	1,580	1,971	2,483	3,162

Table 6B1-5-4c. Sacramento River at Emmaton, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-148	-121	22	-27	24	22	7	-2	8	-2	-205	-200
20%	-271	-157	0	21	-12	10	-2	7	3	-79	-183	-232
30%	-312	-176	23	67	7	3	1	2	14	-45	-205	-245
40%	-523	-232	53	7	2	1	0	2	11	-11	-192	-473
50%	-388	-35	71	3	2	1	1	0	5	-13	-109	-286
60%	-26	-34	-42	4	1	1	1	0	2	2	-27	-18
70%	-21	7	-5	1	1	0	0	0	2	-2	-45	-28
80%	-39	27	9	1	0	0	0	0	2	-2	-39	-23
90%	-14	-13	0	0	0	0	0	0	2	1	-32	-19
Long Term												
Full Simulation Period[a]	-187	-96	11	9	2	2	0	4	8	-29	-115	-147
Water Year Types[b]												
Wet (32%)	-23	6	16	1	0	0	0	0	2	1	-28	-16
Above Normal (15%)	-28	-11	6	11	1	1	0	0	4	-1	-27	-23
Below Normal (17%)	-298	-145	-35	28	3	3	0	0	8	-14	-149	-296
Dry (22%)	-312	-138	11	0	-5	0	-1	5	9	-57	-244	-303
Critical (15%)	-385	-283	55	17	19	7	2	20	27	-98	-159	-150

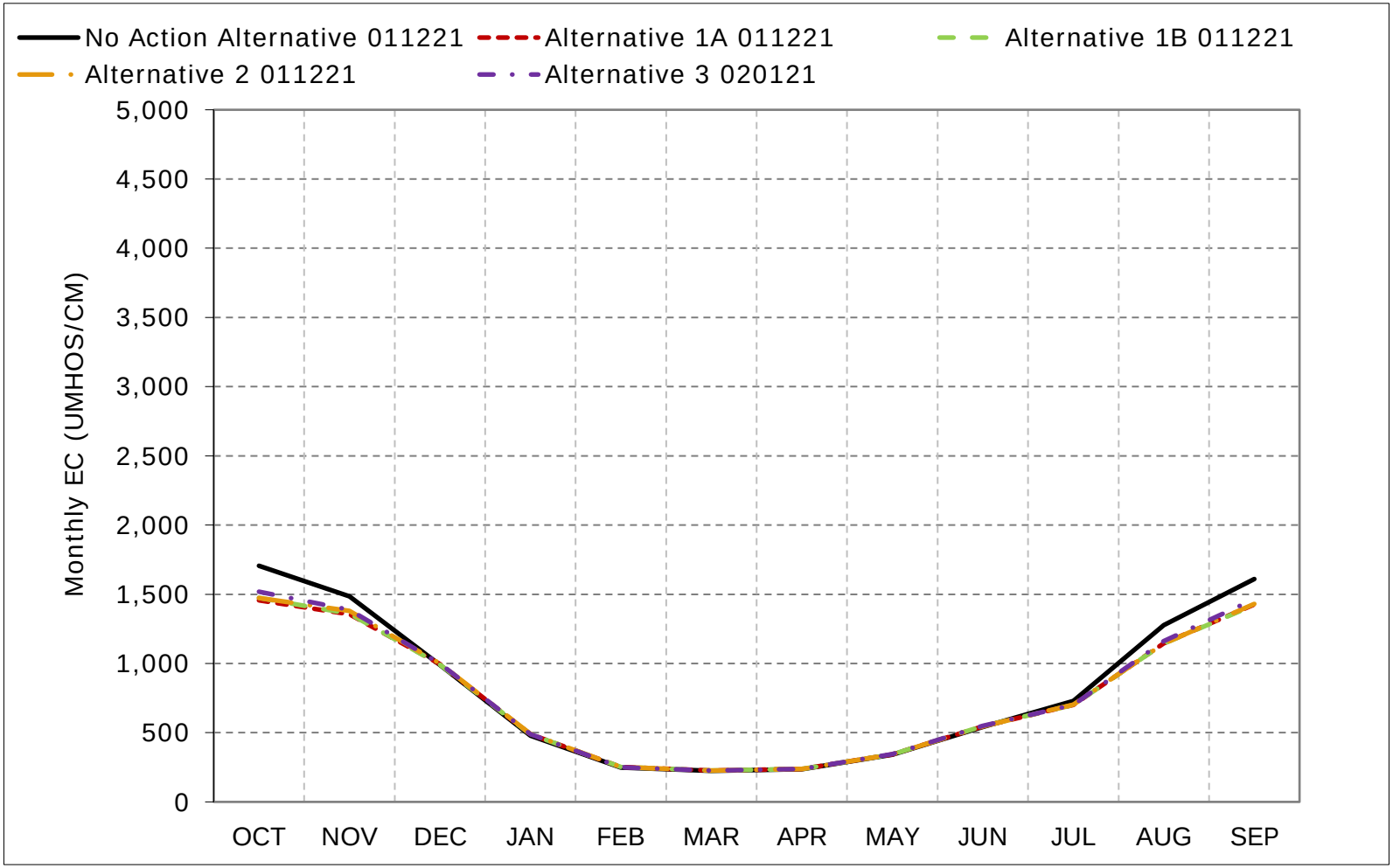
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-1. Sacramento River at Emmaton, Long-Term Average EC

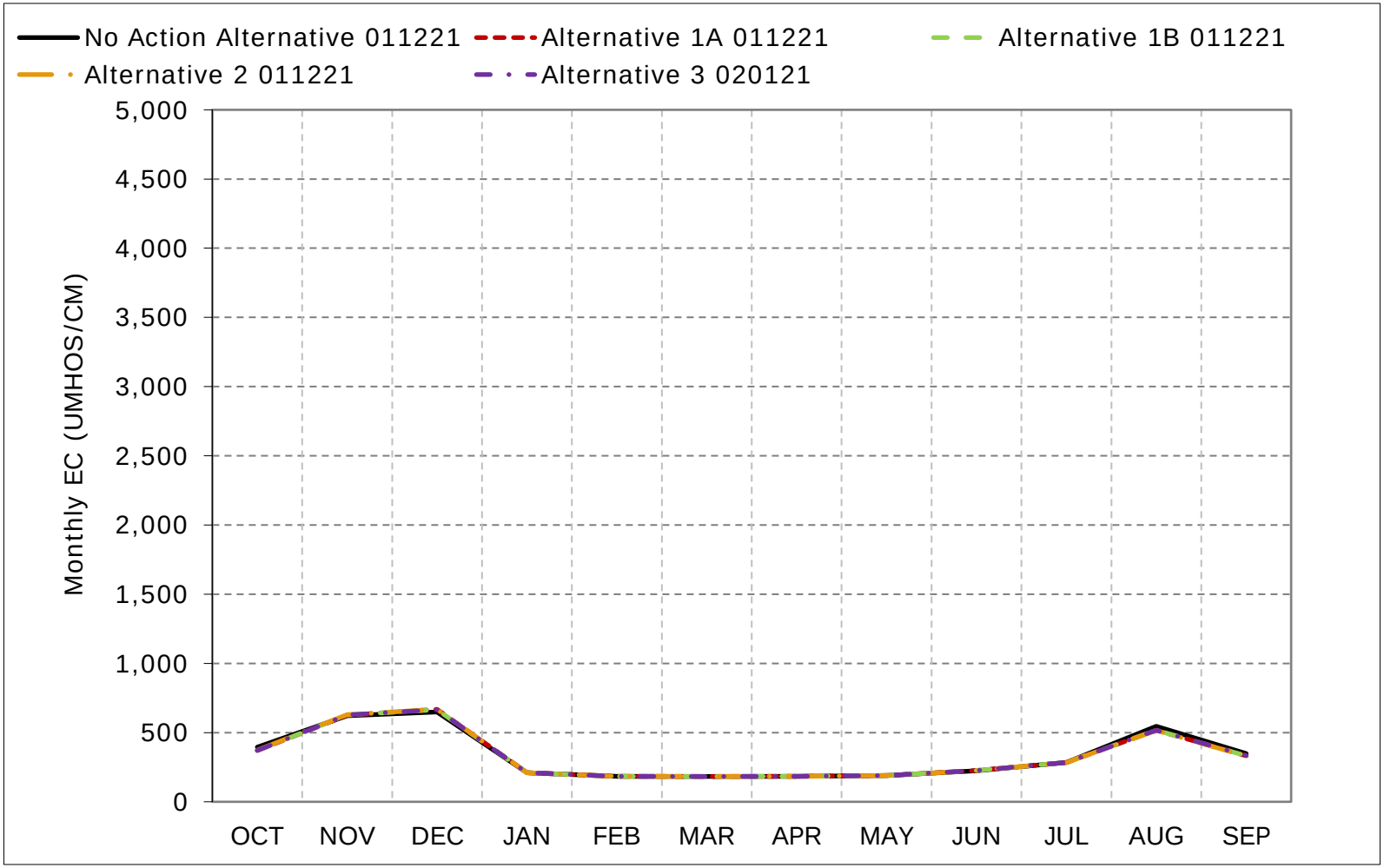


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-2. Sacramento River at Emmaton, Wet Year Average EC

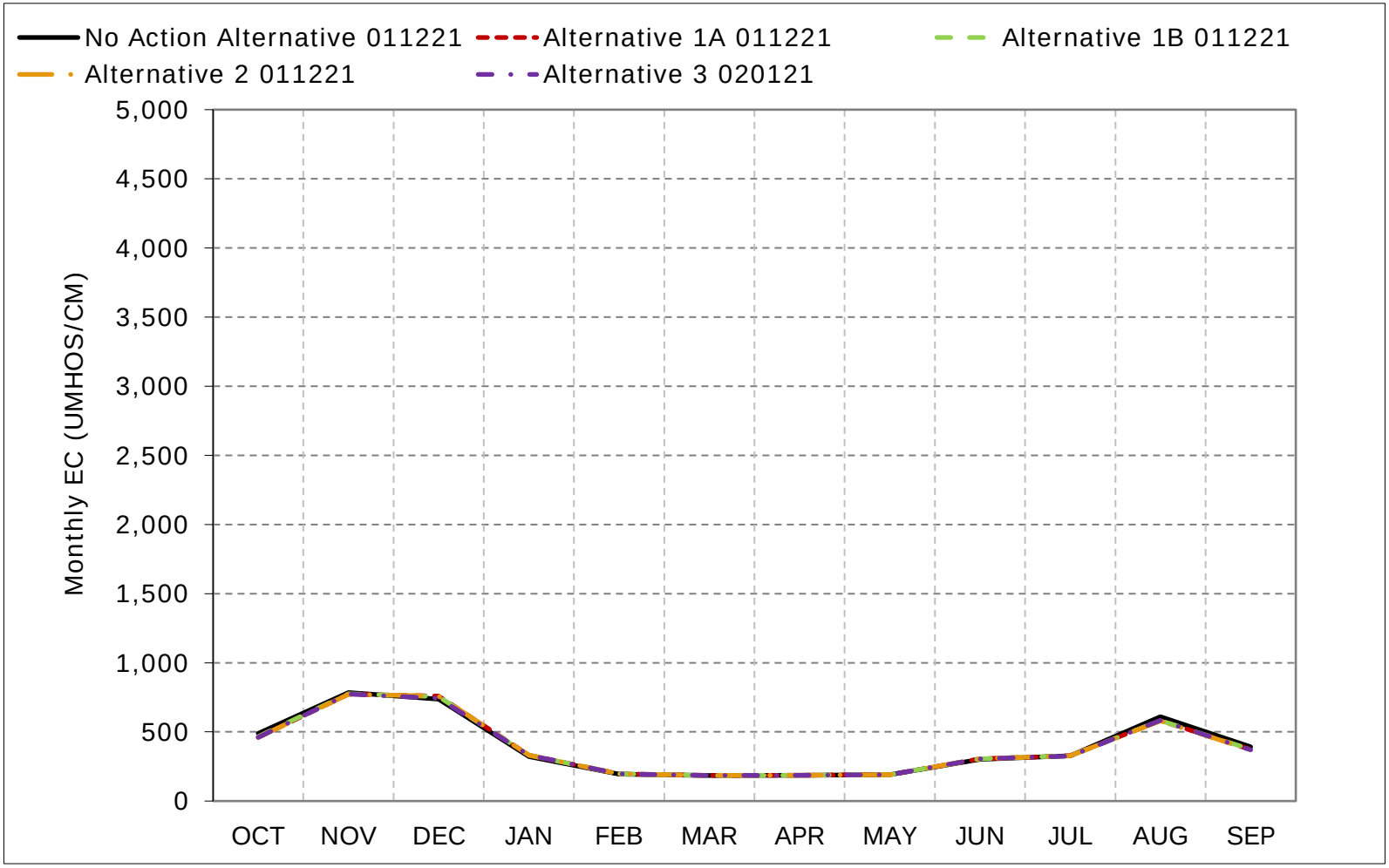


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-3. Sacramento River at Emmaton, Above Normal Year Average EC

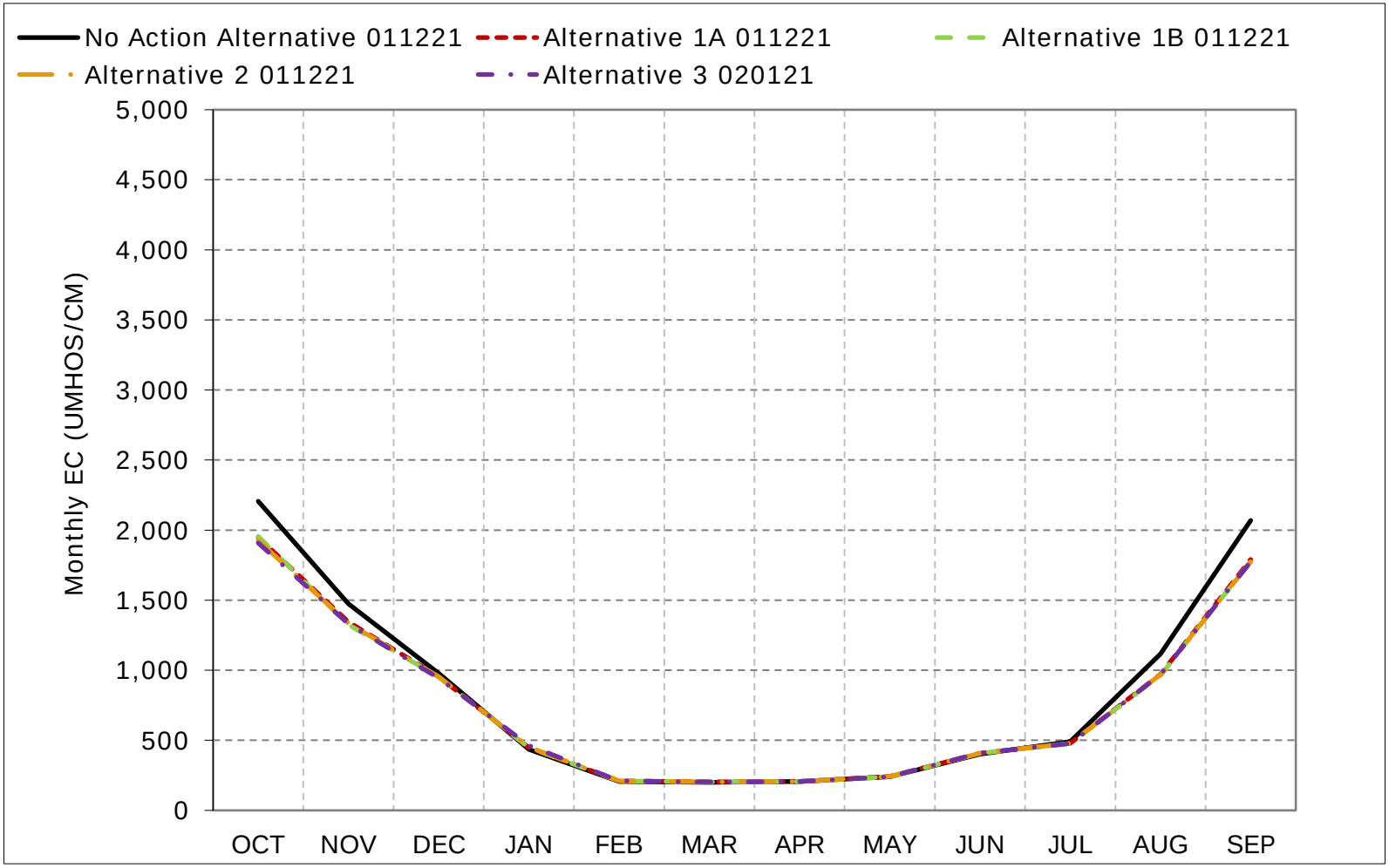


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-4. Sacramento River at Emmaton, Below Normal Year Average EC

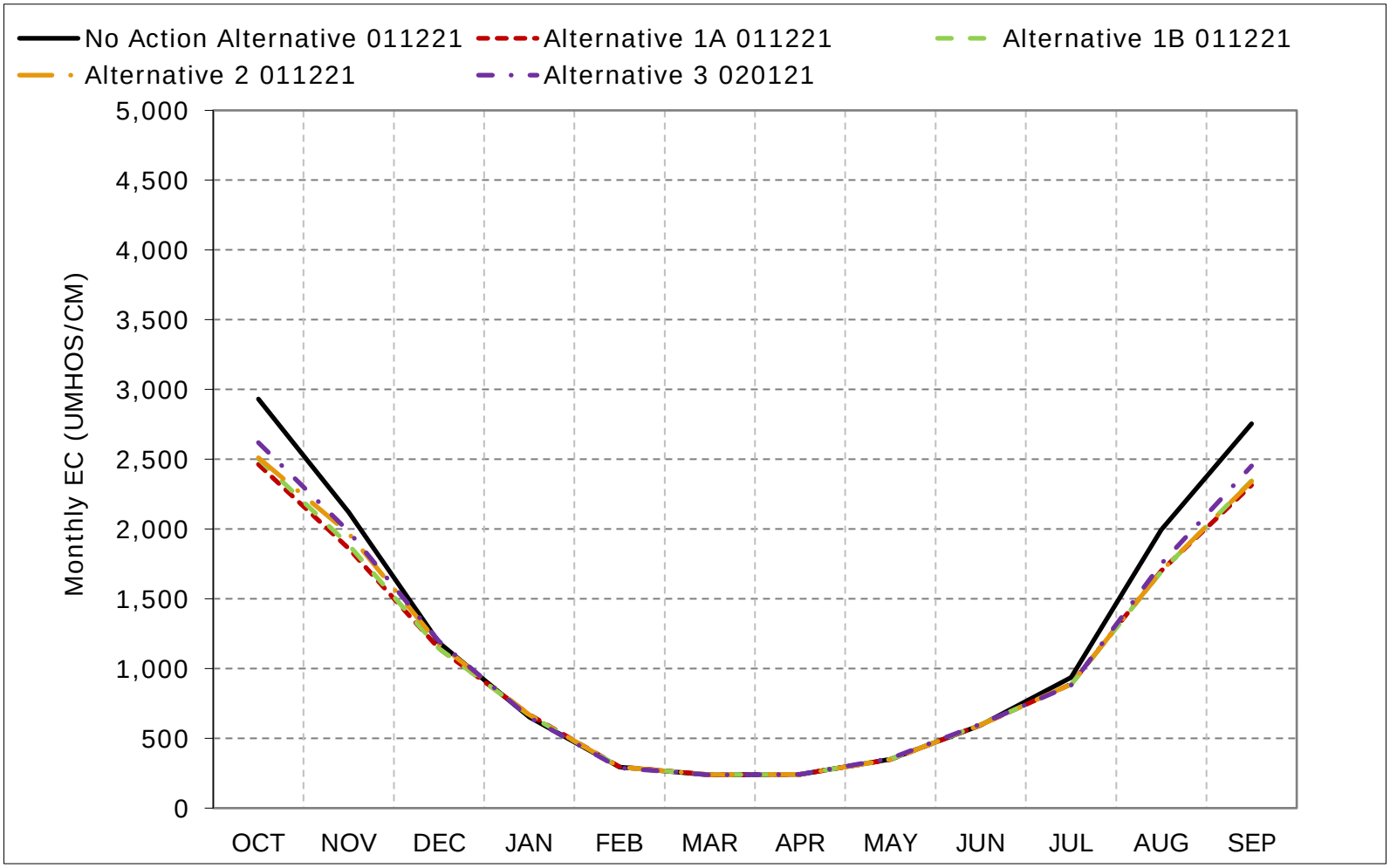


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-5. Sacramento River at Emmaton, Dry Year Average EC

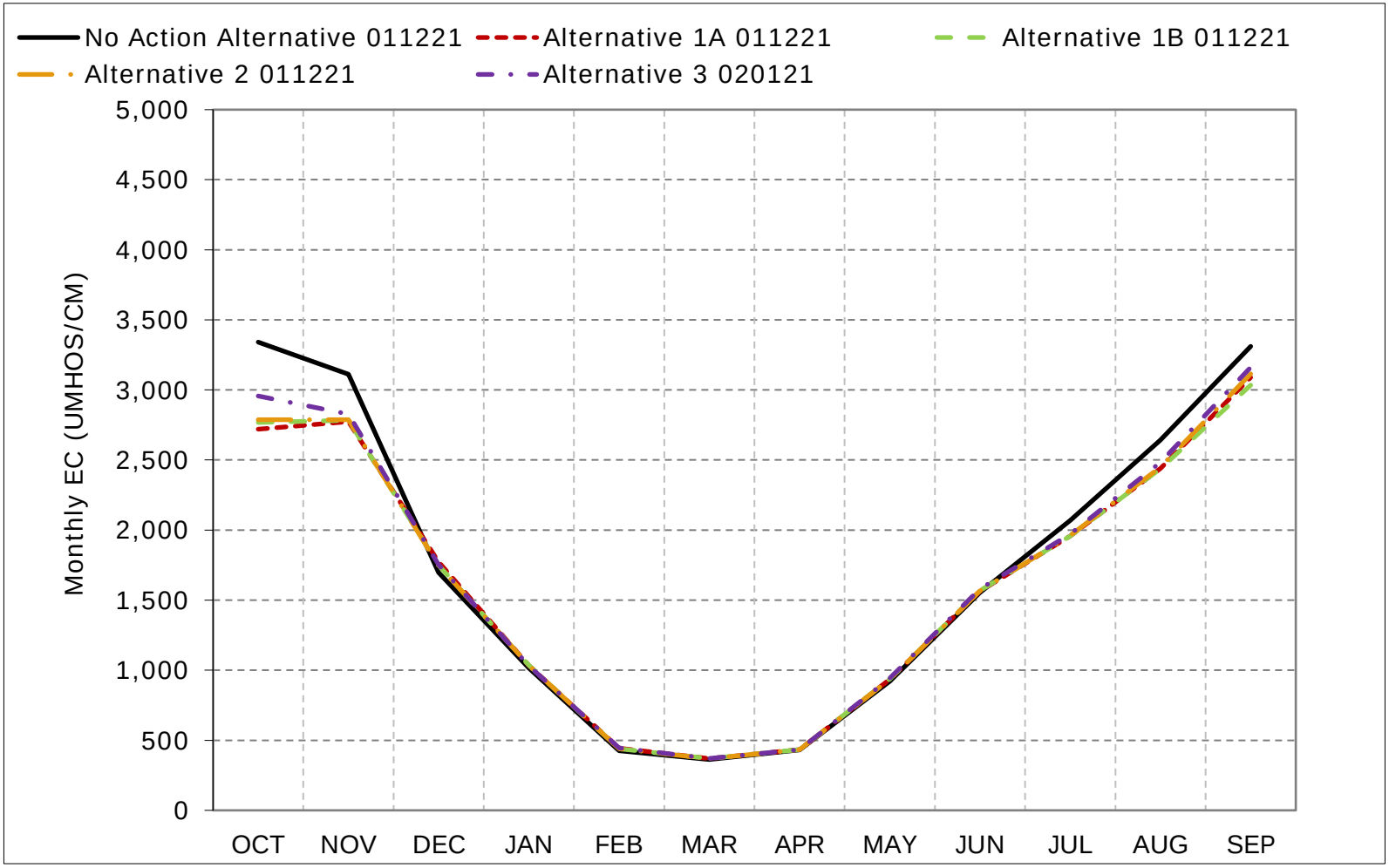


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-6. Sacramento River at Emmaton, Critical Year Average EC

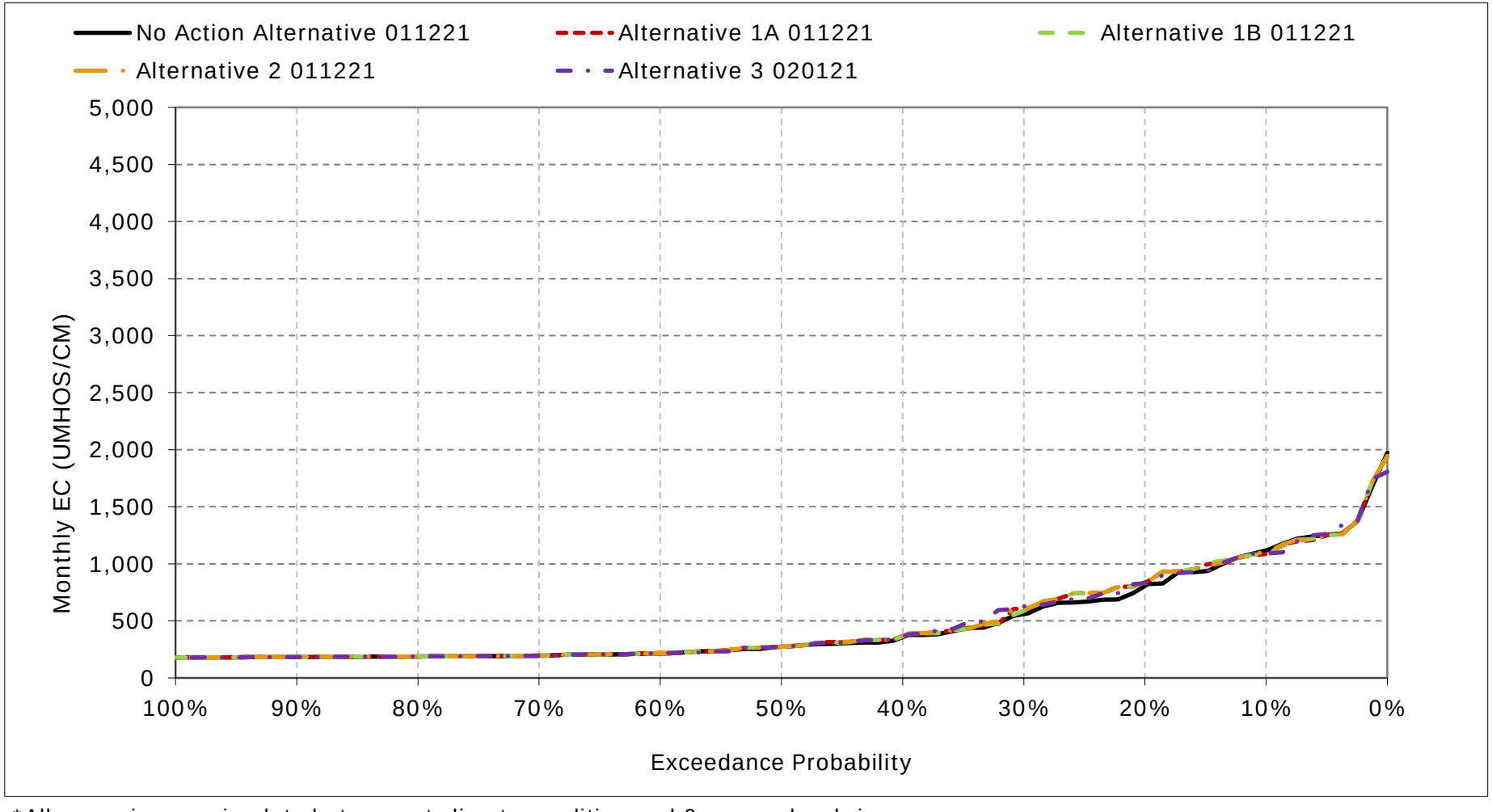


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

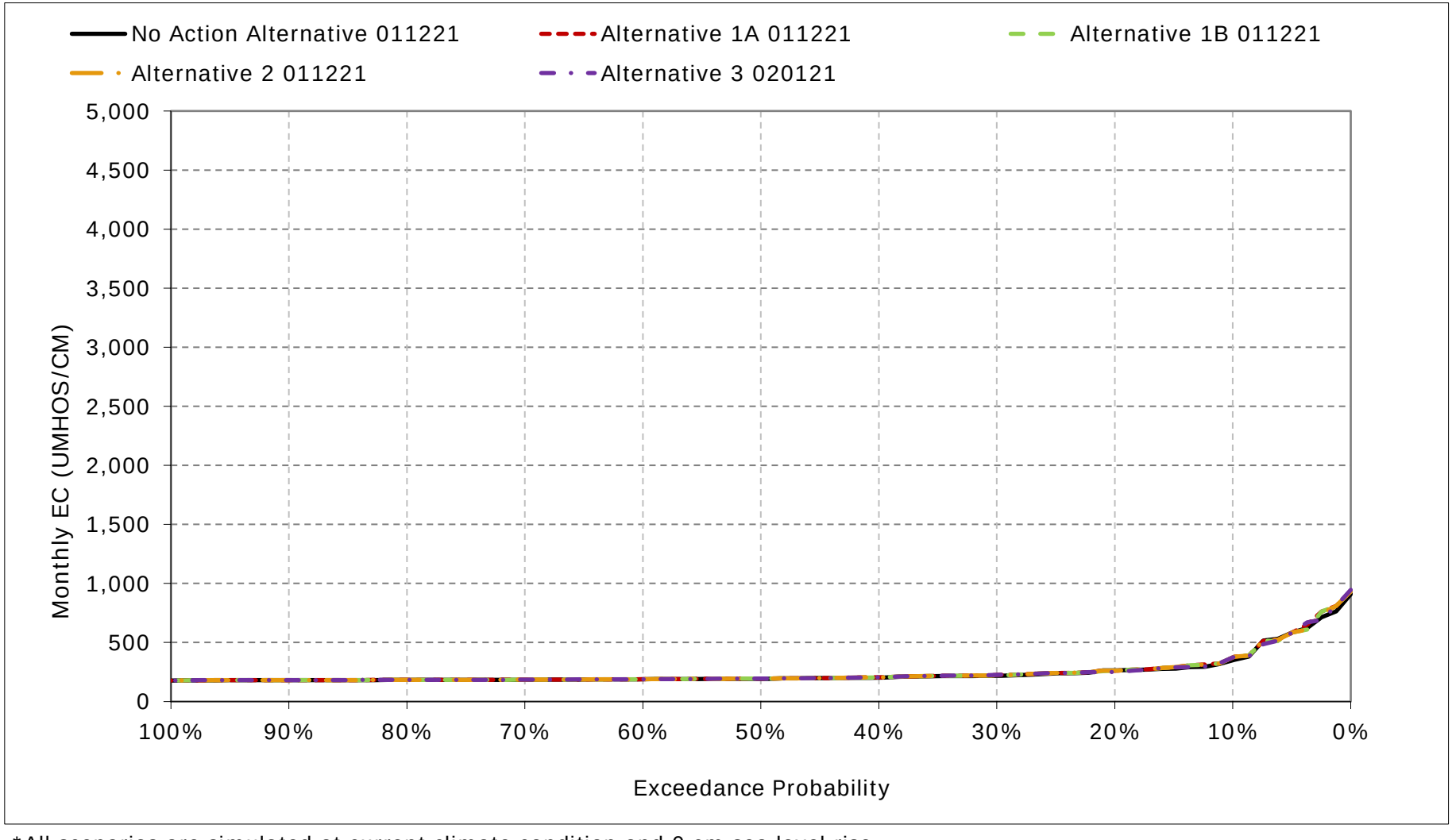
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-7. Sacramento River at Emmaton Salinity, January EC



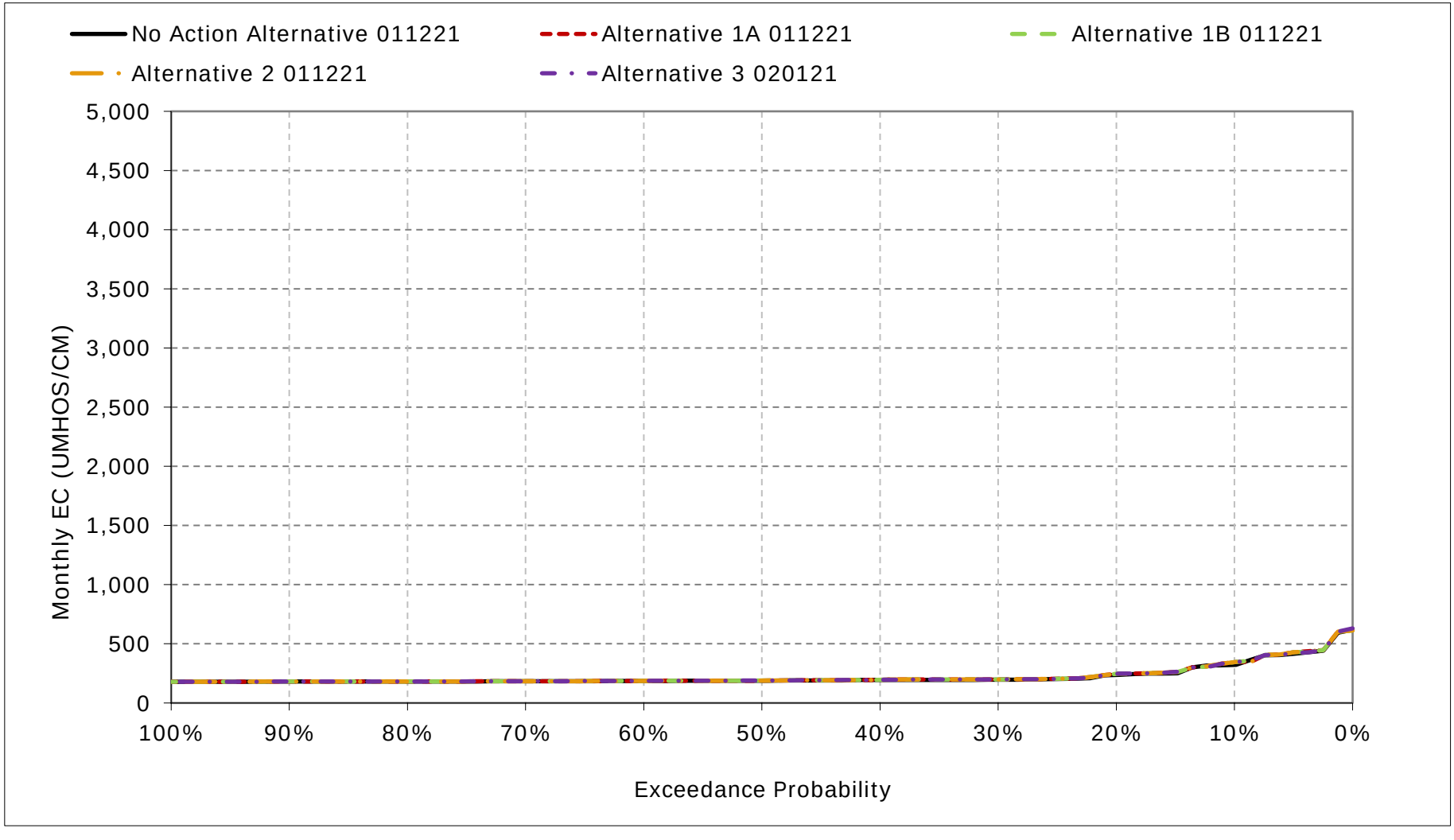
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-8. Sacramento River at Emmaton Salinity, February EC



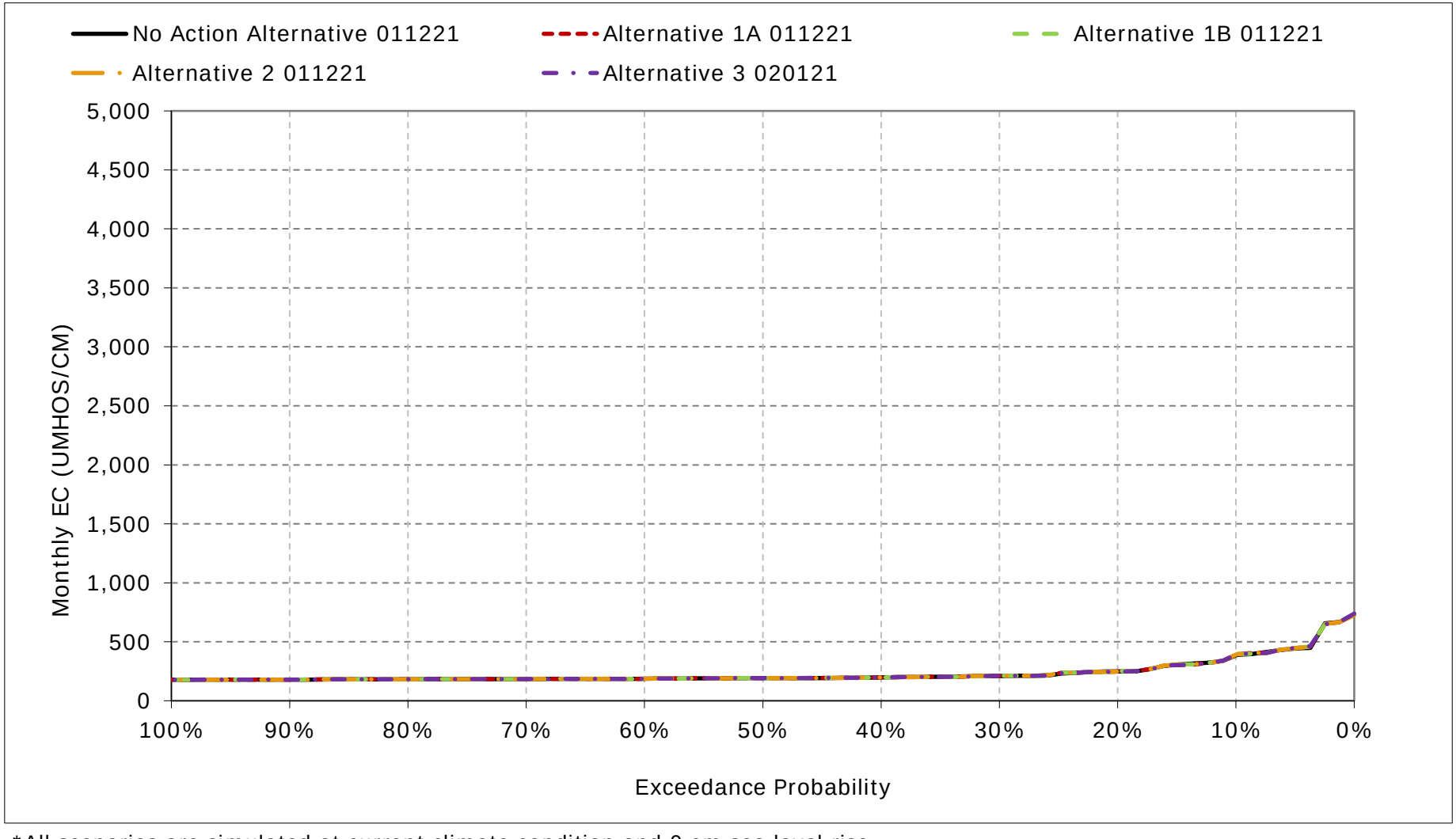
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-9. Sacramento River at Emmaton Salinity, March EC



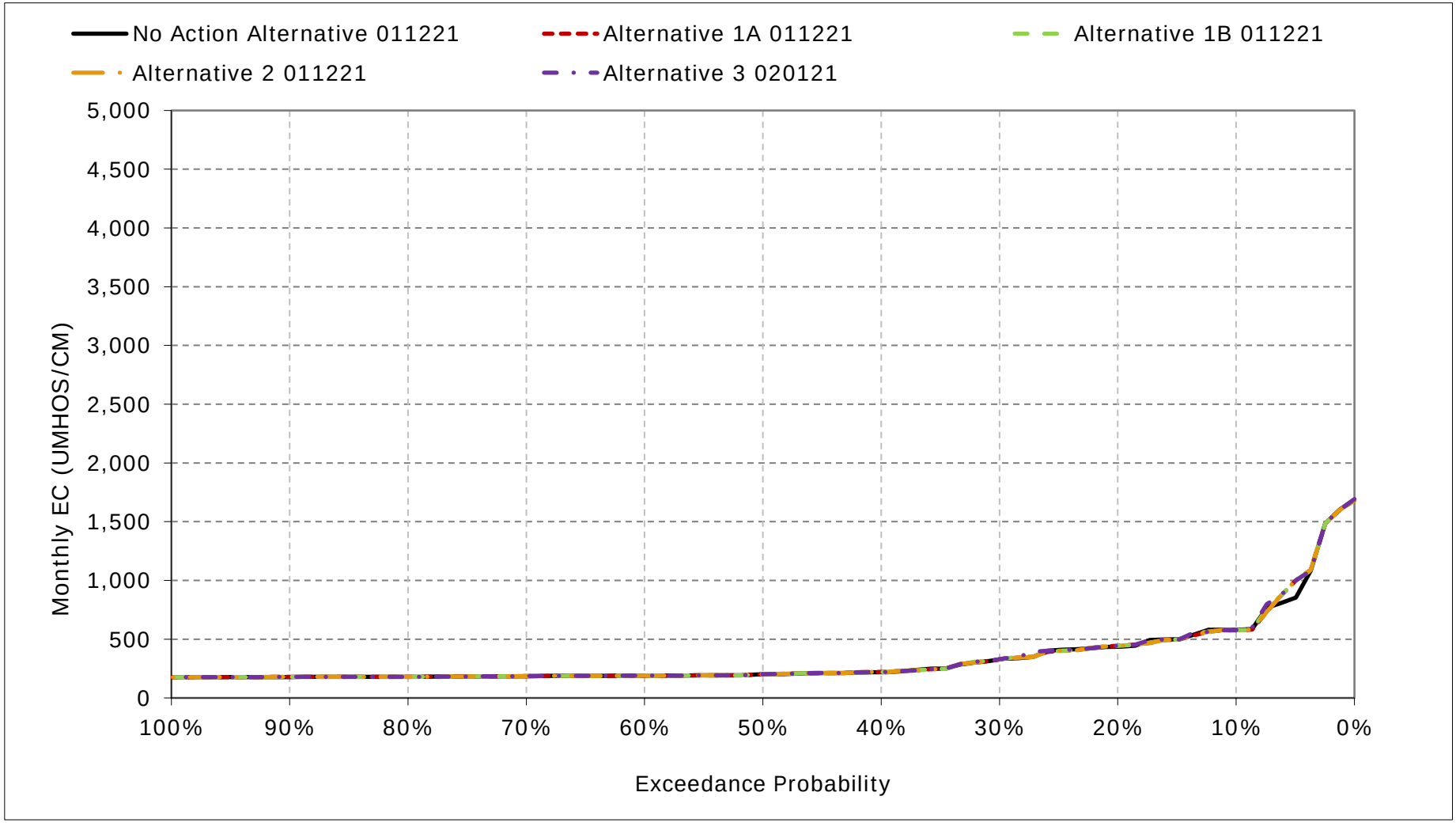
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-10. Sacramento River at Emmaton Salinity, April EC



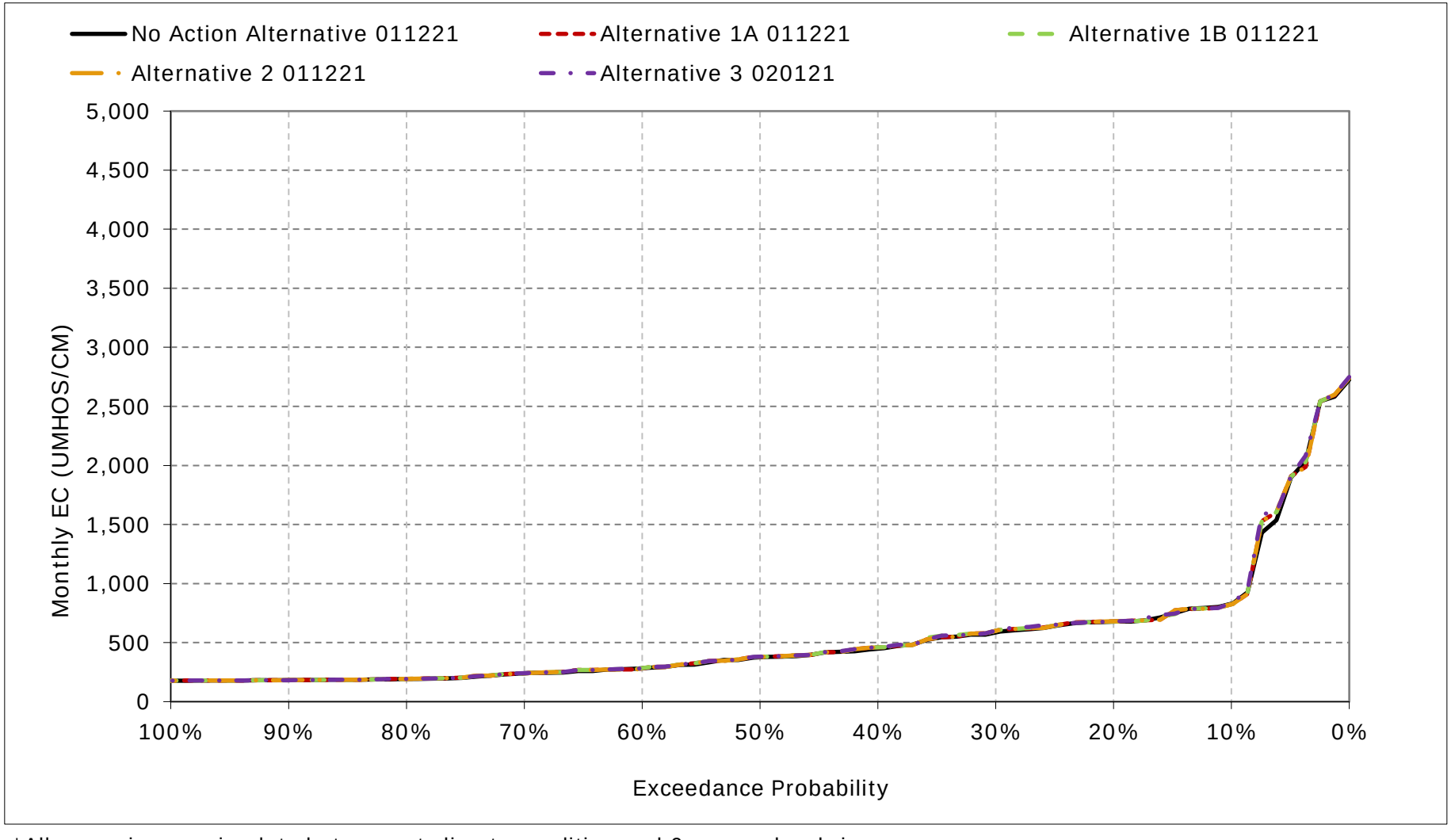
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-11. Sacramento River at Emmaton Salinity, May EC



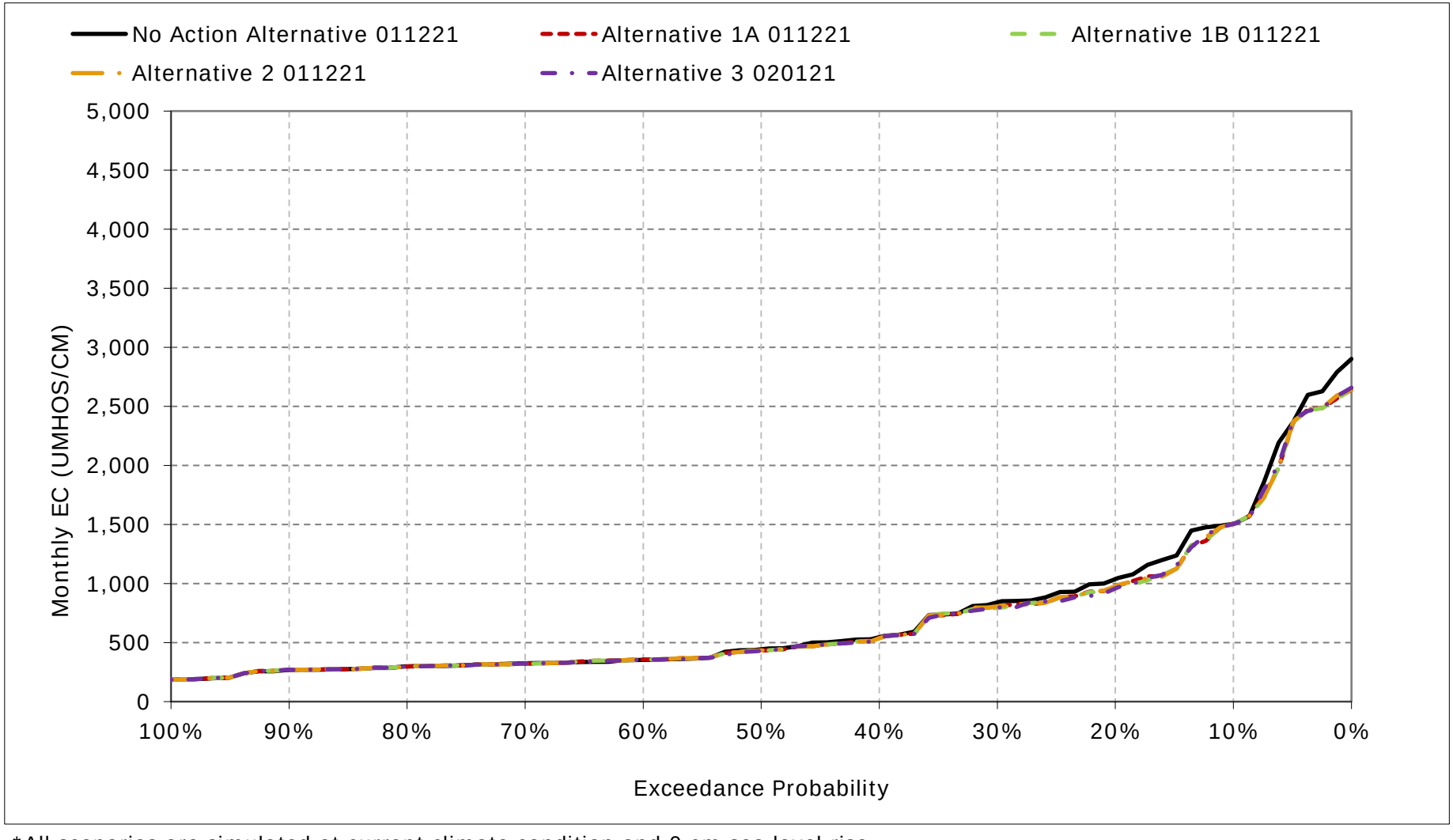
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-12. Sacramento River at Emmaton Salinity, June EC



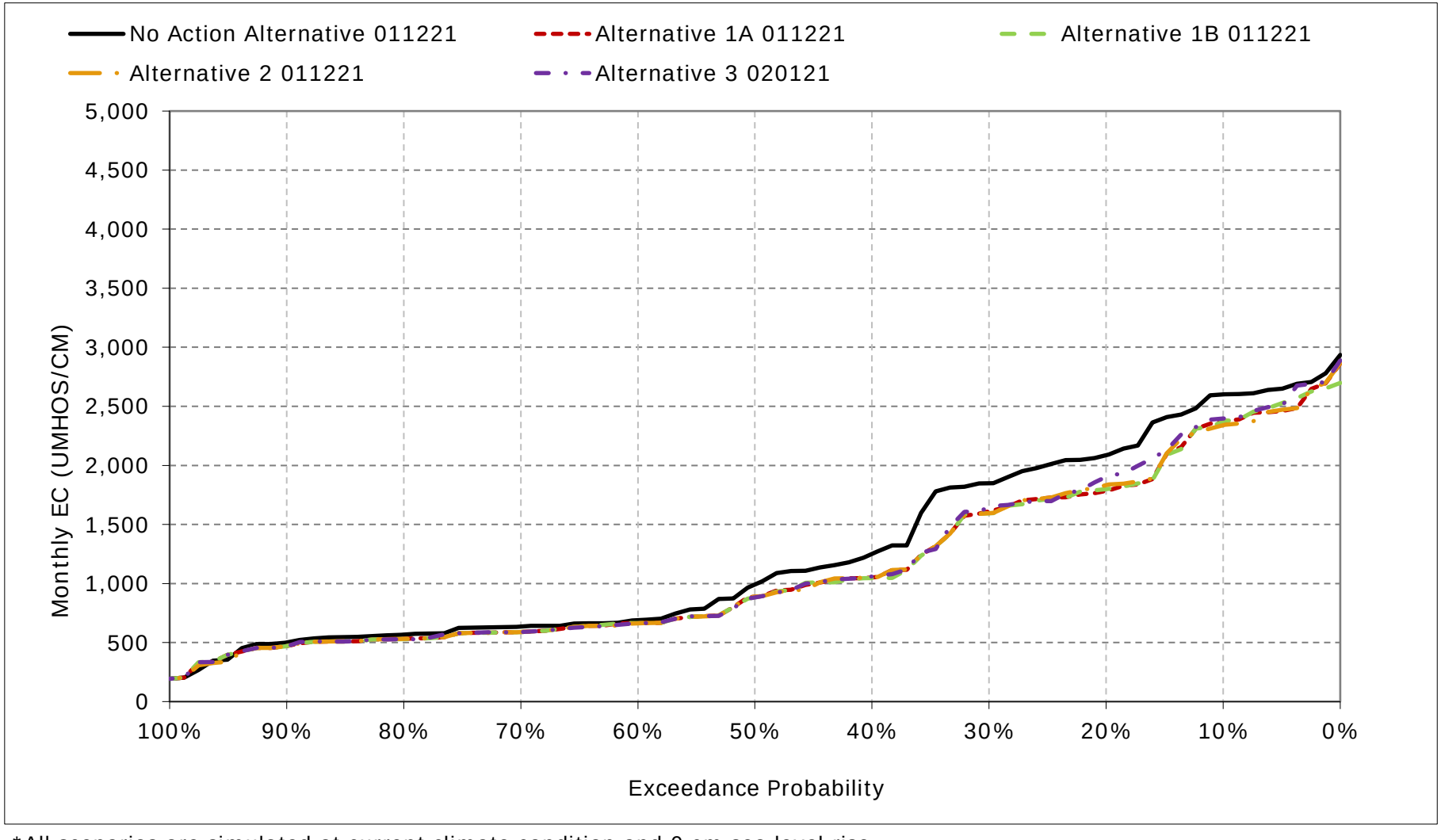
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-13. Sacramento River at Emmaton Salinity, July EC



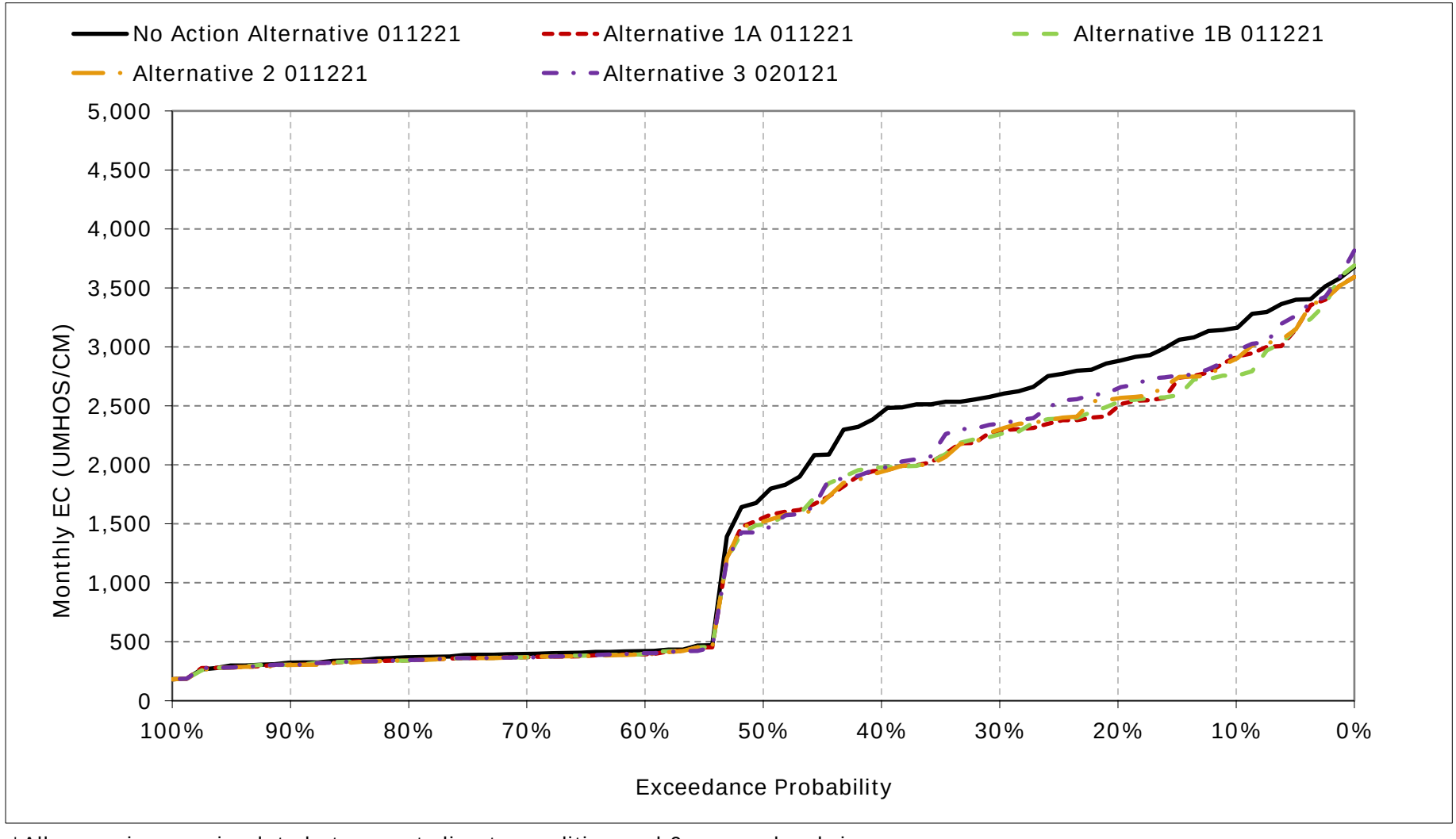
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-14. Sacramento River at Emmaton Salinity, August EC



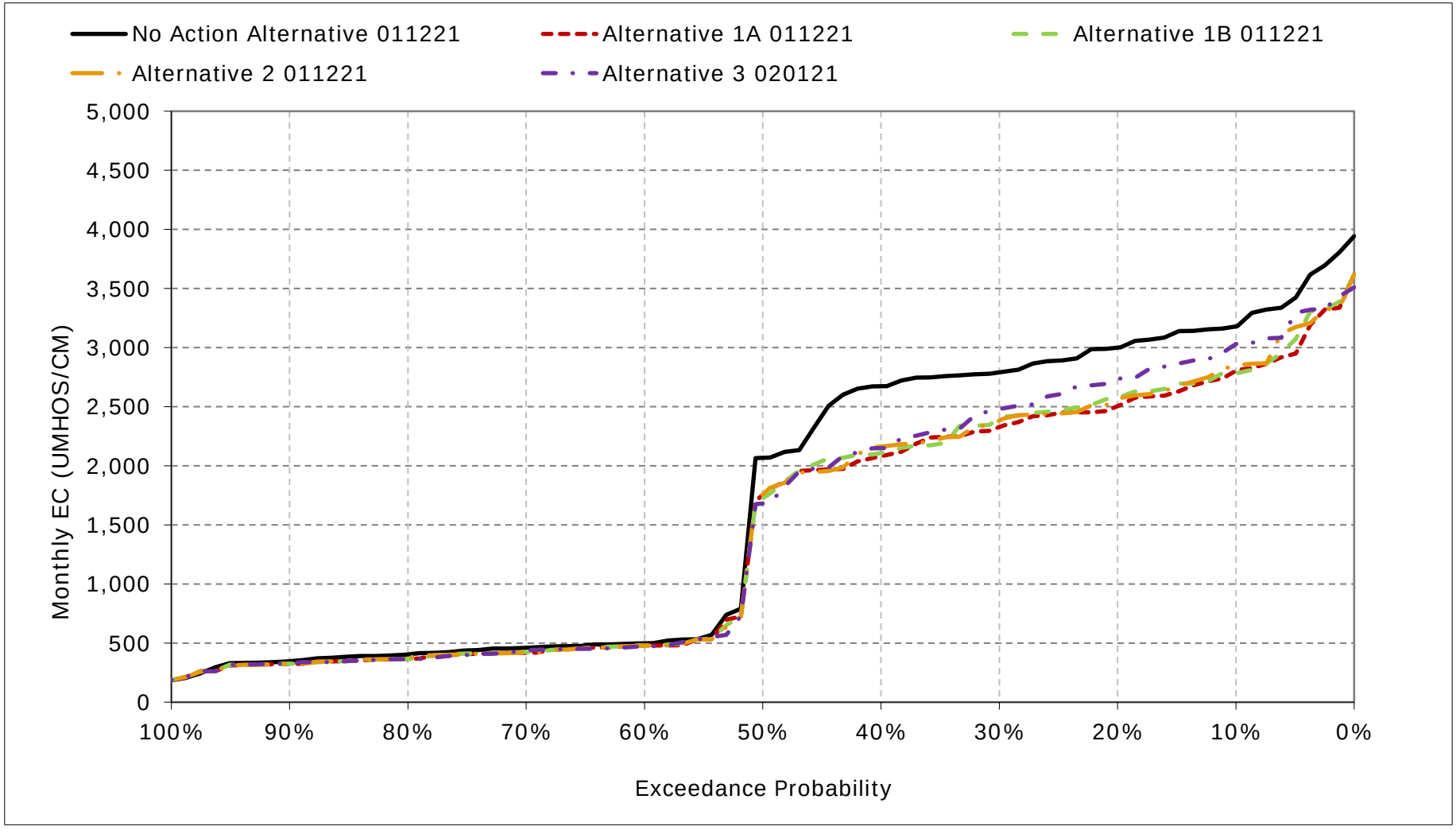
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-15. Sacramento River at Emmaton Salinity, September EC



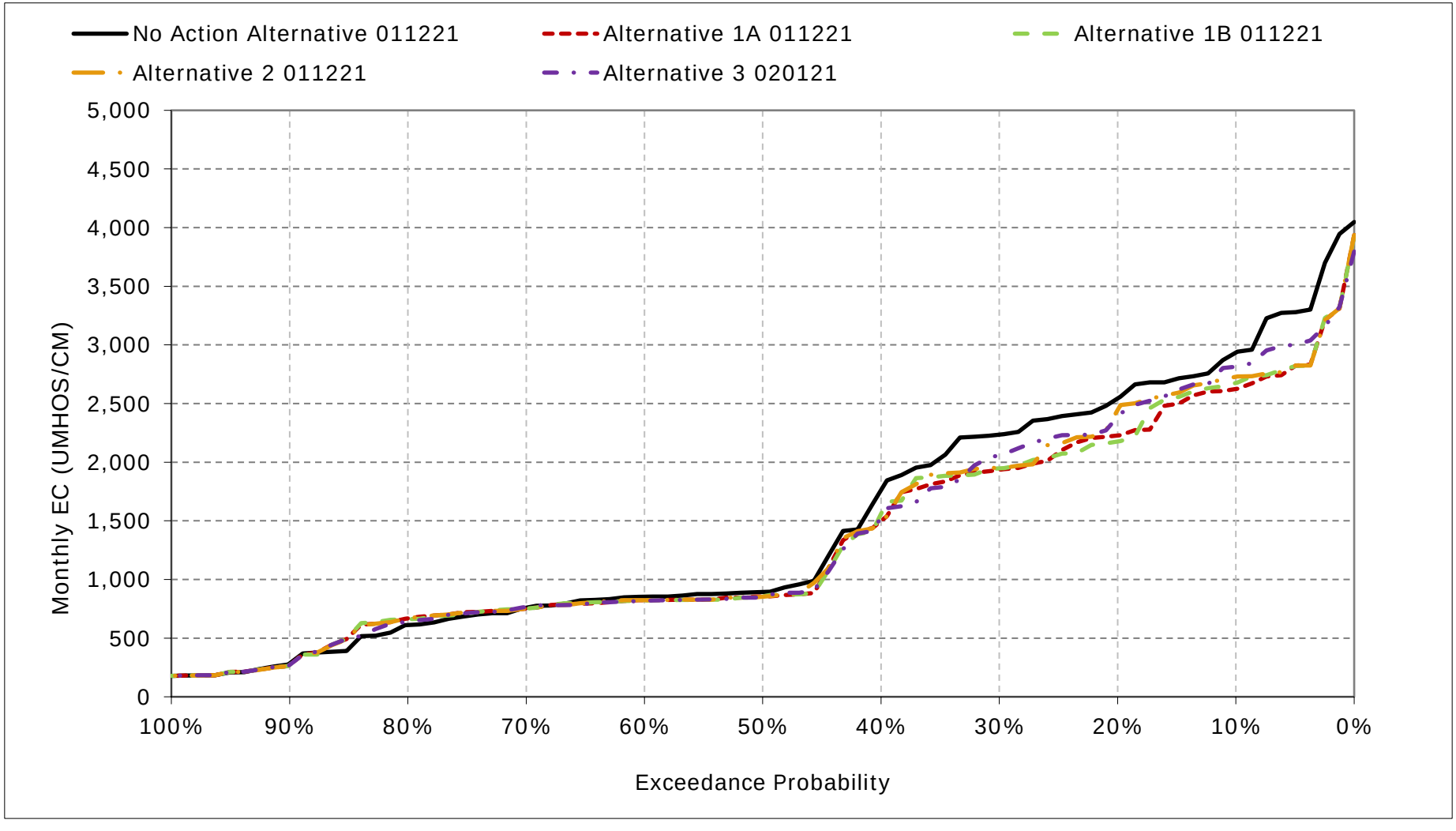
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-16. Sacramento River at Emmaton Salinity, October EC



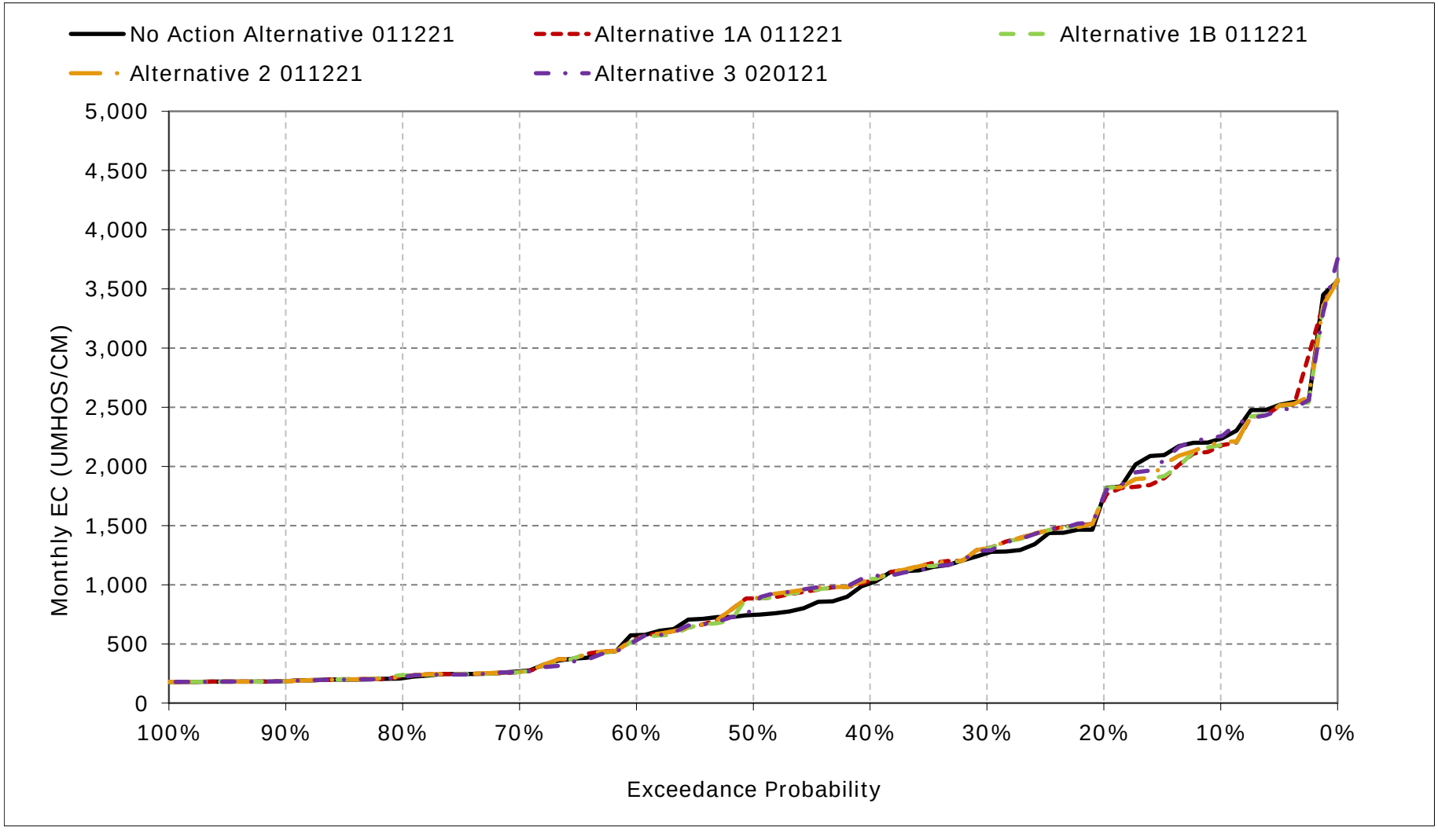
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-17. Sacramento River at Emmaton Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-5-18. Sacramento River at Emmaton Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-6-1a. Sacramento River at Collinsville, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,081	9,793	8,923	5,872	2,191	2,124	2,458	3,526	4,093	6,074	8,377	9,504
20%	9,807	9,327	7,420	4,550	1,151	1,006	1,112	2,609	3,938	5,245	7,373	9,132
30%	9,561	8,816	6,453	3,432	669	383	595	1,895	3,369	4,755	6,951	8,781
40%	9,329	7,711	5,660	1,704	341	291	435	872	2,539	3,608	6,137	8,436
50%	7,847	4,729	4,286	1,073	302	231	302	540	2,047	2,970	5,446	7,300
60%	2,756	4,449	3,495	487	211	207	222	353	1,490	2,266	4,080	2,712
70%	2,649	4,236	967	226	199	194	208	257	1,076	2,064	3,908	2,591
80%	2,384	3,572	607	199	192	189	192	194	465	1,718	3,600	2,425
90%	2,157	1,261	254	189	187	187	186	183	197	1,236	3,271	2,244
Long Term												
Full Simulation Period[a]	6,132	5,979	4,328	2,129	813	646	772	1,372	2,399	3,472	5,403	5,824
Water Year Types[b]												
Wet (32%)	2,268	3,269	3,219	393	198	197	217	324	713	1,482	3,320	2,260
Above Normal (15%)	2,714	4,147	3,605	1,152	280	201	238	368	1,401	2,046	3,774	2,521
Below Normal (17%)	8,054	6,179	4,057	2,102	463	417	476	888	2,145	3,197	5,687	7,949
Dry (22%)	9,762	8,186	4,822	3,395	1,282	822	973	1,887	3,389	4,987	7,153	8,890
Critical (15%)	10,232	10,136	7,027	5,002	2,385	2,067	2,553	4,438	5,862	7,257	8,585	9,767

Table 6B1-6-1b. Sacramento River at Collinsville, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,465	9,360	8,689	5,671	2,222	2,178	2,500	3,483	4,113	5,945	8,100	9,327
20%	9,110	8,710	7,513	4,911	1,162	1,042	1,114	2,601	3,924	5,206	6,868	8,556
30%	8,753	8,315	6,593	3,669	764	432	601	1,891	3,310	4,729	6,560	8,245
40%	8,397	7,106	5,819	1,770	360	303	447	876	2,597	3,597	5,614	7,487
50%	7,308	4,576	5,028	1,087	315	248	307	544	2,075	2,877	5,065	6,782
60%	2,646	4,389	3,326	512	215	210	225	356	1,489	2,247	4,069	2,596
70%	2,489	4,272	987	228	199	195	209	258	1,075	2,103	3,752	2,436
80%	2,231	3,860	665	201	192	189	194	195	540	1,742	3,439	2,306
90%	2,011	1,290	256	190	188	187	186	183	198	1,241	3,142	2,115
Long Term												
Full Simulation Period[a]	5,703	5,749	4,380	2,186	839	670	776	1,376	2,415	3,443	5,144	5,479
Water Year Types[b]												
Wet (32%)	2,146	3,319	3,333	398	199	199	218	326	725	1,490	3,231	2,155
Above Normal (15%)	2,600	4,110	3,693	1,226	286	206	240	373	1,423	2,051	3,665	2,388
Below Normal (17%)	7,582	5,965	4,025	2,140	487	452	481	894	2,180	3,167	5,264	7,309
Dry (22%)	9,070	7,672	4,723	3,492	1,308	849	976	1,875	3,379	4,921	6,661	8,197
Critical (15%)	9,271	9,515	7,238	5,115	2,488	2,141	2,567	4,464	5,896	7,170	8,357	9,559

Table 6B1-6-1c. Sacramento River at Collinsville, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-616	-433	-234	-200	31	54	42	-42	20	-129	-277	-177
20%	-697	-617	93	361	11	36	2	-8	-14	-39	-505	-576
30%	-808	-501	140	237	95	48	5	-4	-59	-26	-392	-536
40%	-933	-605	160	66	18	12	12	4	59	-11	-524	-949
50%	-539	-153	742	14	13	17	5	4	28	-92	-380	-519
60%	-109	-60	-169	24	3	3	3	2	-1	-19	-11	-115
70%	-160	36	20	2	1	1	0	0	-1	39	-156	-155
80%	-153	287	58	1	1	0	2	0	75	24	-160	-119
90%	-146	29	2	1	0	0	1	0	1	5	-129	-130
Long Term												
Full Simulation Period[a]	-429	-230	52	57	26	24	4	4	16	-29	-258	-345
Water Year Types[b]												
Wet (32%)	-122	49	114	5	1	2	1	2	13	9	-90	-105
Above Normal (15%)	-114	-37	88	74	7	5	2	5	22	5	-109	-133
Below Normal (17%)	-472	-214	-32	38	24	34	5	6	35	-30	-423	-640
Dry (22%)	-692	-513	-99	97	27	26	3	-12	-10	-66	-492	-693
Critical (15%)	-961	-622	210	113	102	74	14	26	33	-88	-229	-208

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-6-2a. Sacramento River at Collinsville, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,081	9,793	8,923	5,872	2,191	2,124	2,458	3,526	4,093	6,074	8,377	9,504
20%	9,807	9,327	7,420	4,550	1,151	1,006	1,112	2,609	3,938	5,245	7,373	9,132
30%	9,561	8,816	6,453	3,432	669	383	595	1,895	3,369	4,755	6,951	8,781
40%	9,329	7,711	5,660	1,704	341	291	435	872	2,539	3,608	6,137	8,436
50%	7,847	4,729	4,286	1,073	302	231	302	540	2,047	2,970	5,446	7,300
60%	2,756	4,449	3,495	487	211	207	222	353	1,490	2,266	4,080	2,712
70%	2,649	4,236	967	226	199	194	208	257	1,076	2,064	3,908	2,591
80%	2,384	3,572	607	199	192	189	192	194	465	1,718	3,600	2,425
90%	2,157	1,261	254	189	187	187	186	183	197	1,236	3,271	2,244
Long Term												
Full Simulation Period[a]	6,132	5,979	4,328	2,129	813	646	772	1,372	2,399	3,472	5,403	5,824
Water Year Types[b]												
Wet (32%)	2,268	3,269	3,219	393	198	197	217	324	713	1,482	3,320	2,260
Above Normal (15%)	2,714	4,147	3,605	1,152	280	201	238	368	1,401	2,046	3,774	2,521
Below Normal (17%)	8,054	6,179	4,057	2,102	463	417	476	888	2,145	3,197	5,687	7,949
Dry (22%)	9,762	8,186	4,822	3,395	1,282	822	973	1,887	3,389	4,987	7,153	8,890
Critical (15%)	10,232	10,136	7,027	5,002	2,385	2,067	2,553	4,438	5,862	7,257	8,585	9,767

Table 6B1-6-2b. Sacramento River at Collinsville, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,543	9,356	8,716	5,776	2,218	2,177	2,504	3,491	4,187	5,949	8,091	9,307
20%	9,231	8,702	7,506	4,905	1,173	1,041	1,114	2,597	3,923	5,183	6,874	8,586
30%	8,796	8,338	6,590	3,555	751	434	608	1,934	3,303	4,745	6,542	8,236
40%	8,490	7,241	5,881	1,746	360	302	443	874	2,597	3,589	5,545	7,485
50%	7,269	4,577	5,006	1,085	310	247	307	547	2,077	2,880	5,060	6,658
60%	2,666	4,373	3,231	507	214	210	225	356	1,513	2,250	4,070	2,596
70%	2,500	4,282	998	242	200	195	208	258	1,075	2,103	3,752	2,460
80%	2,231	3,860	662	201	192	189	194	195	539	1,740	3,439	2,294
90%	2,015	1,289	255	191	188	187	186	183	198	1,241	3,143	2,116
Long Term												
Full Simulation Period[a]	5,730	5,760	4,362	2,179	835	668	777	1,378	2,420	3,441	5,139	5,478
Water Year Types[b]												
Wet (32%)	2,150	3,325	3,326	398	199	199	218	326	725	1,490	3,232	2,154
Above Normal (15%)	2,621	4,118	3,667	1,224	284	206	240	373	1,422	2,050	3,668	2,405
Below Normal (17%)	7,564	5,876	3,994	2,136	487	452	481	892	2,182	3,159	5,239	7,275
Dry (22%)	9,143	7,759	4,708	3,471	1,302	847	977	1,885	3,396	4,918	6,657	8,249
Critical (15%)	9,333	9,542	7,216	5,105	2,467	2,133	2,571	4,470	5,903	7,170	8,352	9,498

Table 6B1-6-2c. Sacramento River at Collinsville, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-538	-437	-208	-96	27	53	46	-34	94	-125	-286	-197
20%	-576	-625	86	355	22	36	2	-12	-15	-62	-500	-546
30%	-765	-478	137	123	82	51	13	39	-67	-10	-409	-545
40%	-839	-470	222	42	19	12	8	2	59	-18	-592	-951
50%	-578	-153	720	12	8	16	5	7	30	-90	-386	-642
60%	-90	-76	-265	19	2	3	3	2	24	-17	-10	-116
70%	-149	46	31	16	1	1	0	0	0	39	-156	-131
80%	-154	288	55	1	1	0	2	0	74	23	-161	-131
90%	-141	28	1	2	0	0	1	0	1	5	-128	-128
Long Term												
Full Simulation Period[a]	-402	-219	35	50	22	22	5	6	21	-31	-263	-346
Water Year Types[b]												
Wet (32%)	-118	56	107	6	1	2	1	2	13	9	-89	-107
Above Normal (15%)	-93	-29	61	72	5	5	1	6	22	4	-106	-116
Below Normal (17%)	-490	-303	-63	34	24	34	5	3	37	-38	-448	-674
Dry (22%)	-619	-426	-114	76	21	24	5	-1	7	-70	-496	-640
Critical (15%)	-899	-594	189	103	81	66	18	32	41	-88	-234	-269

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-6-3a. Sacramento River at Collinsville, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,081	9,793	8,923	5,872	2,191	2,124	2,458	3,526	4,093	6,074	8,377	9,504
20%	9,807	9,327	7,420	4,550	1,151	1,006	1,112	2,609	3,938	5,245	7,373	9,132
30%	9,561	8,816	6,453	3,432	669	383	595	1,895	3,369	4,755	6,951	8,781
40%	9,329	7,711	5,660	1,704	341	291	435	872	2,539	3,608	6,137	8,436
50%	7,847	4,729	4,286	1,073	302	231	302	540	2,047	2,970	5,446	7,300
60%	2,756	4,449	3,495	487	211	207	222	353	1,490	2,266	4,080	2,712
70%	2,649	4,236	967	226	199	194	208	257	1,076	2,064	3,908	2,591
80%	2,384	3,572	607	199	192	189	192	194	465	1,718	3,600	2,425
90%	2,157	1,261	254	189	187	187	186	183	197	1,236	3,271	2,244
Long Term												
Full Simulation Period[a]	6,132	5,979	4,328	2,129	813	646	772	1,372	2,399	3,472	5,403	5,824
Water Year Types[b]												
Wet (32%)	2,268	3,269	3,219	393	198	197	217	324	713	1,482	3,320	2,260
Above Normal (15%)	2,714	4,147	3,605	1,152	280	201	238	368	1,401	2,046	3,774	2,521
Below Normal (17%)	8,054	6,179	4,057	2,102	463	417	476	888	2,145	3,197	5,687	7,949
Dry (22%)	9,762	8,186	4,822	3,395	1,282	822	973	1,887	3,389	4,987	7,153	8,890
Critical (15%)	10,232	10,136	7,027	5,002	2,385	2,067	2,553	4,438	5,862	7,257	8,585	9,767

Table 6B1-6-3b. Sacramento River at Collinsville, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,492	9,406	8,797	5,717	2,224	2,178	2,500	3,483	4,113	5,976	8,091	9,352
20%	9,221	8,999	7,506	4,910	1,163	1,042	1,114	2,601	3,924	5,213	6,884	8,699
30%	8,773	8,377	6,593	3,669	751	432	600	1,891	3,301	4,748	6,542	8,277
40%	8,378	7,103	5,852	1,769	360	302	442	876	2,597	3,584	5,614	7,448
50%	7,303	4,602	5,027	1,084	315	247	307	544	2,075	2,880	5,067	6,723
60%	2,670	4,408	3,335	512	214	210	225	356	1,489	2,247	4,035	2,577
70%	2,499	4,256	1,026	228	199	195	209	258	1,075	2,103	3,752	2,436
80%	2,249	3,860	665	201	192	189	194	195	539	1,740	3,439	2,306
90%	2,009	1,291	256	190	188	187	186	183	198	1,241	3,142	2,105
Long Term												
Full Simulation Period[a]	5,728	5,800	4,397	2,188	836	668	777	1,376	2,415	3,443	5,136	5,478
Water Year Types[b]												
Wet (32%)	2,165	3,334	3,334	398	199	199	218	326	725	1,490	3,206	2,131
Above Normal (15%)	2,598	4,107	3,693	1,226	286	206	240	373	1,423	2,051	3,658	2,385
Below Normal (17%)	7,526	5,949	4,021	2,159	488	452	481	893	2,179	3,165	5,257	7,278
Dry (22%)	9,128	7,870	4,822	3,490	1,306	848	975	1,875	3,380	4,923	6,666	8,241
Critical (15%)	9,377	9,556	7,206	5,108	2,466	2,128	2,572	4,467	5,897	7,173	8,358	9,580

Table 6B1-6-3c. Sacramento River at Collinsville, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-589	-387	-126	-155	33	54	43	-42	20	-98	-286	-152
20%	-585	-329	85	360	11	36	2	-8	-14	-32	-489	-433
30%	-788	-439	140	237	82	49	5	-4	-68	-7	-410	-503
40%	-951	-608	192	66	19	12	7	4	59	-23	-524	-987
50%	-544	-128	741	12	13	16	5	4	28	-90	-379	-577
60%	-85	-41	-160	24	2	3	3	2	-1	-19	-45	-134
70%	-150	20	58	2	1	1	0	0	0	39	-156	-155
80%	-135	287	58	1	1	0	2	0	74	23	-160	-119
90%	-147	30	2	1	0	0	0	0	1	5	-129	-140
Long Term												
Full Simulation Period[a]	-404	-179	69	59	23	22	4	4	16	-29	-267	-346
Water Year Types[b]												
Wet (32%)	-103	65	115	5	1	2	1	2	13	8	-114	-130
Above Normal (15%)	-117	-41	87	74	6	5	2	5	22	5	-116	-136
Below Normal (17%)	-528	-230	-36	57	25	34	5	5	34	-32	-430	-671
Dry (22%)	-634	-316	0	95	25	26	2	-12	-9	-65	-487	-649
Critical (15%)	-854	-581	179	106	80	61	19	29	35	-85	-227	-188

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-6-4a. Sacramento River at Collinsville, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,081	9,793	8,923	5,872	2,191	2,124	2,458	3,526	4,093	6,074	8,377	9,504
20%	9,807	9,327	7,420	4,550	1,151	1,006	1,112	2,609	3,938	5,245	7,373	9,132
30%	9,561	8,816	6,453	3,432	669	383	595	1,895	3,369	4,755	6,951	8,781
40%	9,329	7,711	5,660	1,704	341	291	435	872	2,539	3,608	6,137	8,436
50%	7,847	4,729	4,286	1,073	302	231	302	540	2,047	2,970	5,446	7,300
60%	2,756	4,449	3,495	487	211	207	222	353	1,490	2,266	4,080	2,712
70%	2,649	4,236	967	226	199	194	208	257	1,076	2,064	3,908	2,591
80%	2,384	3,572	607	199	192	189	192	194	465	1,718	3,600	2,425
90%	2,157	1,261	254	189	187	187	186	183	197	1,236	3,271	2,244
Long Term												
Full Simulation Period[a]	6,132	5,979	4,328	2,129	813	646	772	1,372	2,399	3,472	5,403	5,824
Water Year Types[b]												
Wet (32%)	2,268	3,269	3,219	393	198	197	217	324	713	1,482	3,320	2,260
Above Normal (15%)	2,714	4,147	3,605	1,152	280	201	238	368	1,401	2,046	3,774	2,521
Below Normal (17%)	8,054	6,179	4,057	2,102	463	417	476	888	2,145	3,197	5,687	7,949
Dry (22%)	9,762	8,186	4,822	3,395	1,282	822	973	1,887	3,389	4,987	7,153	8,890
Critical (15%)	10,232	10,136	7,027	5,002	2,385	2,067	2,553	4,438	5,862	7,257	8,585	9,767

Table 6B1-6-4b. Sacramento River at Collinsville, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,779	9,578	8,859	5,662	2,213	2,167	2,501	3,504	4,236	6,059	8,124	9,374
20%	9,403	9,131	7,488	4,907	1,146	1,045	1,113	2,633	3,928	5,190	7,009	8,862
30%	9,071	8,502	6,567	3,676	764	424	611	1,937	3,316	4,669	6,500	8,394
40%	8,520	7,194	5,884	1,749	363	303	444	865	2,602	3,580	5,620	7,554
50%	6,865	4,591	4,789	1,079	314	246	307	546	2,079	2,872	5,057	6,595
60%	2,656	4,380	3,298	503	213	211	225	353	1,511	2,229	4,034	2,550
70%	2,517	4,282	1,040	238	200	195	208	258	1,082	2,102	3,752	2,462
80%	2,232	3,802	658	201	192	189	195	194	538	1,739	3,477	2,293
90%	2,055	1,291	256	189	188	187	186	183	198	1,241	3,134	2,139
Long Term												
Full Simulation Period[a]	5,782	5,795	4,374	2,179	829	668	776	1,388	2,430	3,436	5,169	5,538
Water Year Types[b]												
Wet (32%)	2,156	3,322	3,325	393	199	200	218	326	725	1,490	3,228	2,163
Above Normal (15%)	2,615	4,094	3,609	1,224	284	206	240	373	1,425	2,036	3,668	2,380
Below Normal (17%)	7,437	5,807	3,907	2,240	485	451	480	890	2,186	3,150	5,250	7,270
Dry (22%)	9,298	7,929	4,865	3,407	1,260	839	974	1,920	3,421	4,896	6,737	8,428
Critical (15%)	9,602	9,639	7,221	5,093	2,497	2,142	2,568	4,488	5,926	7,196	8,432	9,652

Table 6B1-6-4c. Sacramento River at Collinsville, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-302	-215	-64	-210	22	43	43	-21	143	-15	-253	-130
20%	-403	-196	68	357	-5	40	2	24	-10	-55	-364	-270
30%	-490	-314	114	243	95	41	16	43	-53	-86	-451	-387
40%	-809	-517	225	45	22	12	9	-7	64	-27	-517	-881
50%	-982	-138	504	6	12	15	5	7	32	-98	-388	-706
60%	-100	-68	-198	16	1	4	2	0	21	-37	-46	-162
70%	-132	47	73	12	1	1	0	0	6	38	-156	-128
80%	-152	229	51	1	1	0	2	0	73	22	-122	-132
90%	-102	30	2	1	0	0	1	0	1	5	-137	-106
Long Term												
Full Simulation Period[a]	-349	-184	46	50	16	22	4	16	31	-36	-233	-286
Water Year Types[b]												
Wet (32%)	-112	53	106	0	1	2	1	2	13	9	-92	-97
Above Normal (15%)	-99	-54	3	72	4	5	1	6	25	-10	-106	-141
Below Normal (17%)	-617	-371	-150	138	23	34	4	1	41	-47	-437	-679
Dry (22%)	-464	-257	42	12	-22	16	2	33	32	-91	-416	-462
Critical (15%)	-630	-498	194	91	111	75	15	49	64	-61	-153	-116

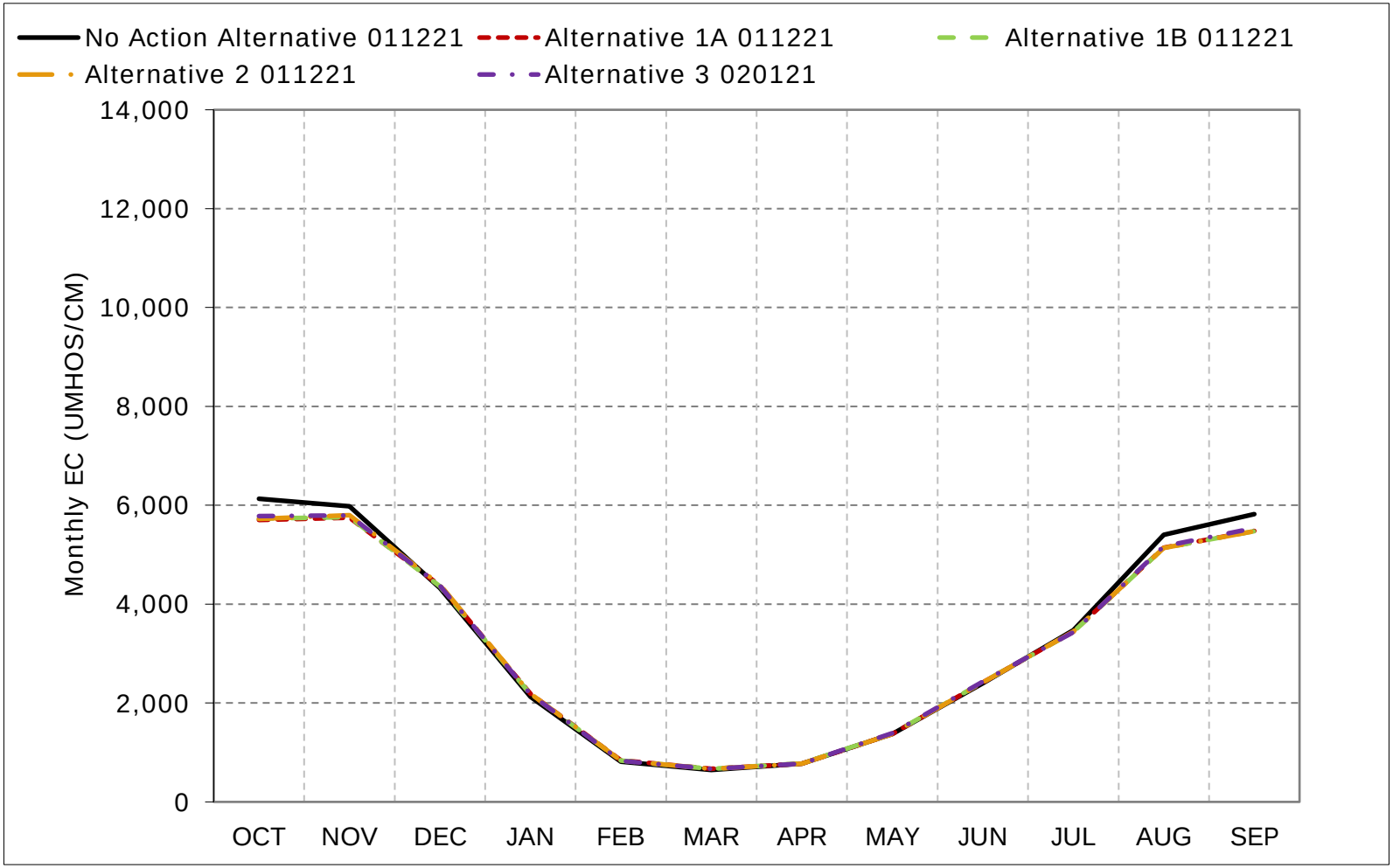
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-1. Sacramento River at Collinsville, Long-Term Average EC

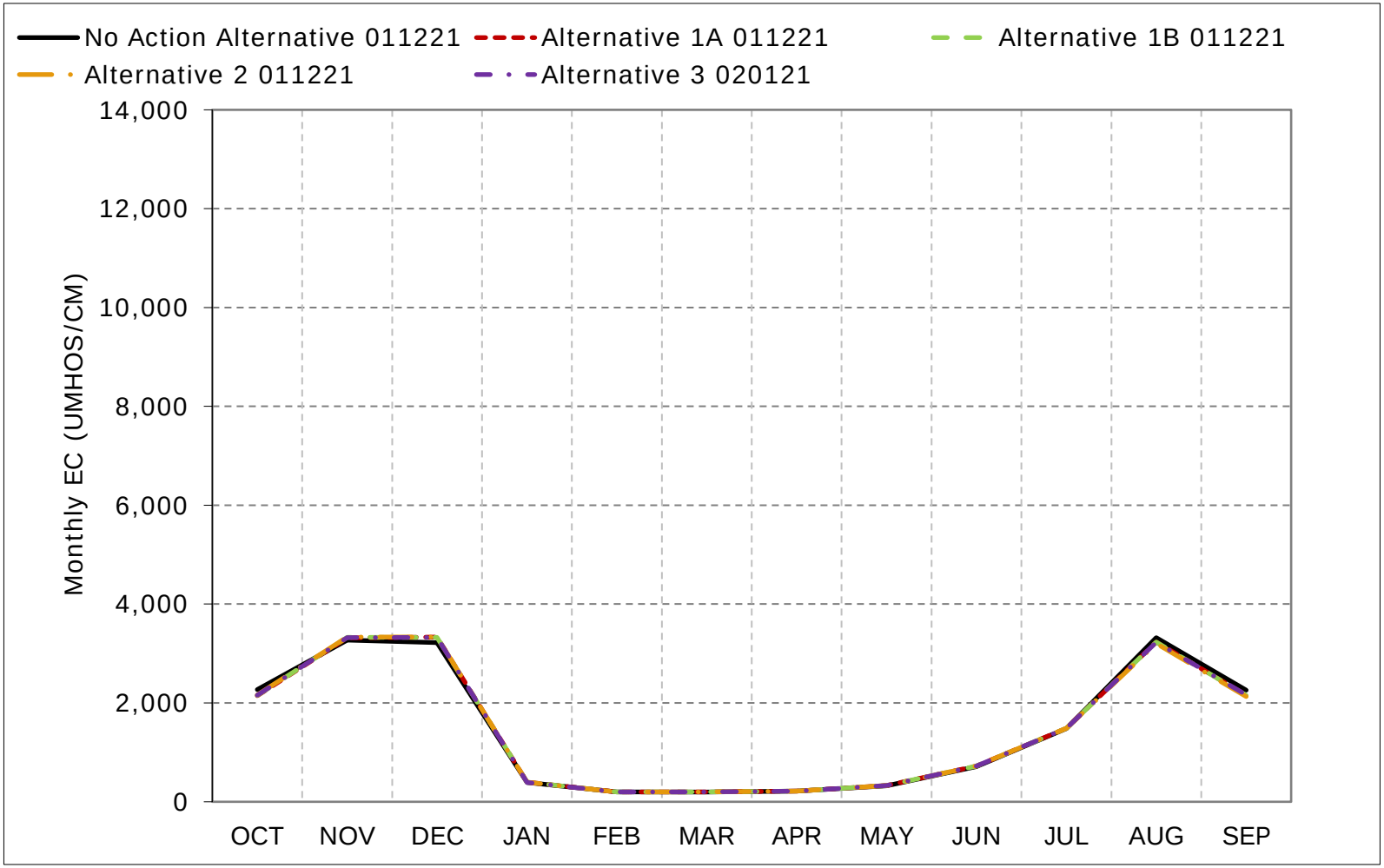


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-2. Sacramento River at Collinsville, Wet Year Average EC

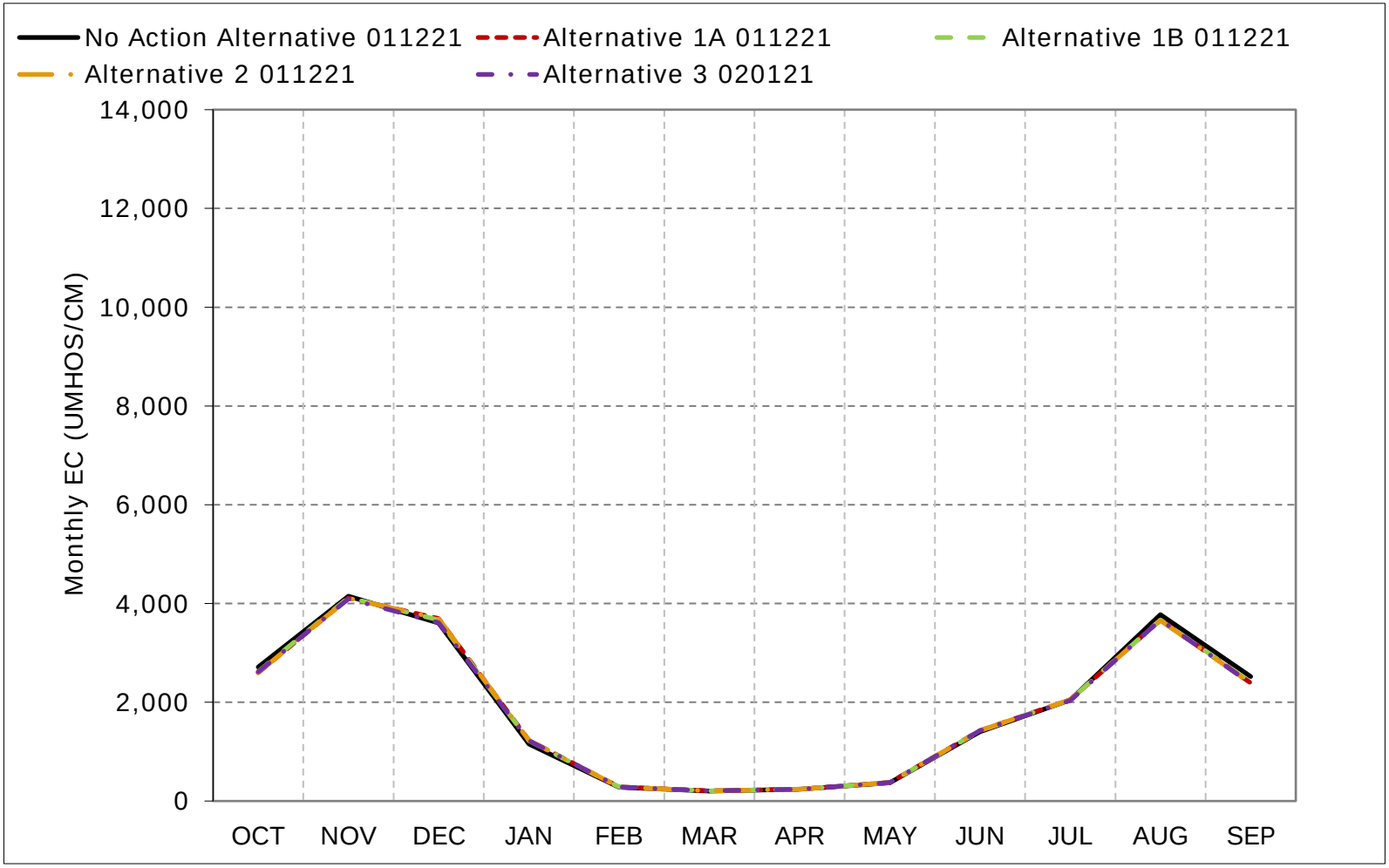


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-3. Sacramento River at Collinsville, Above Normal Year Average EC

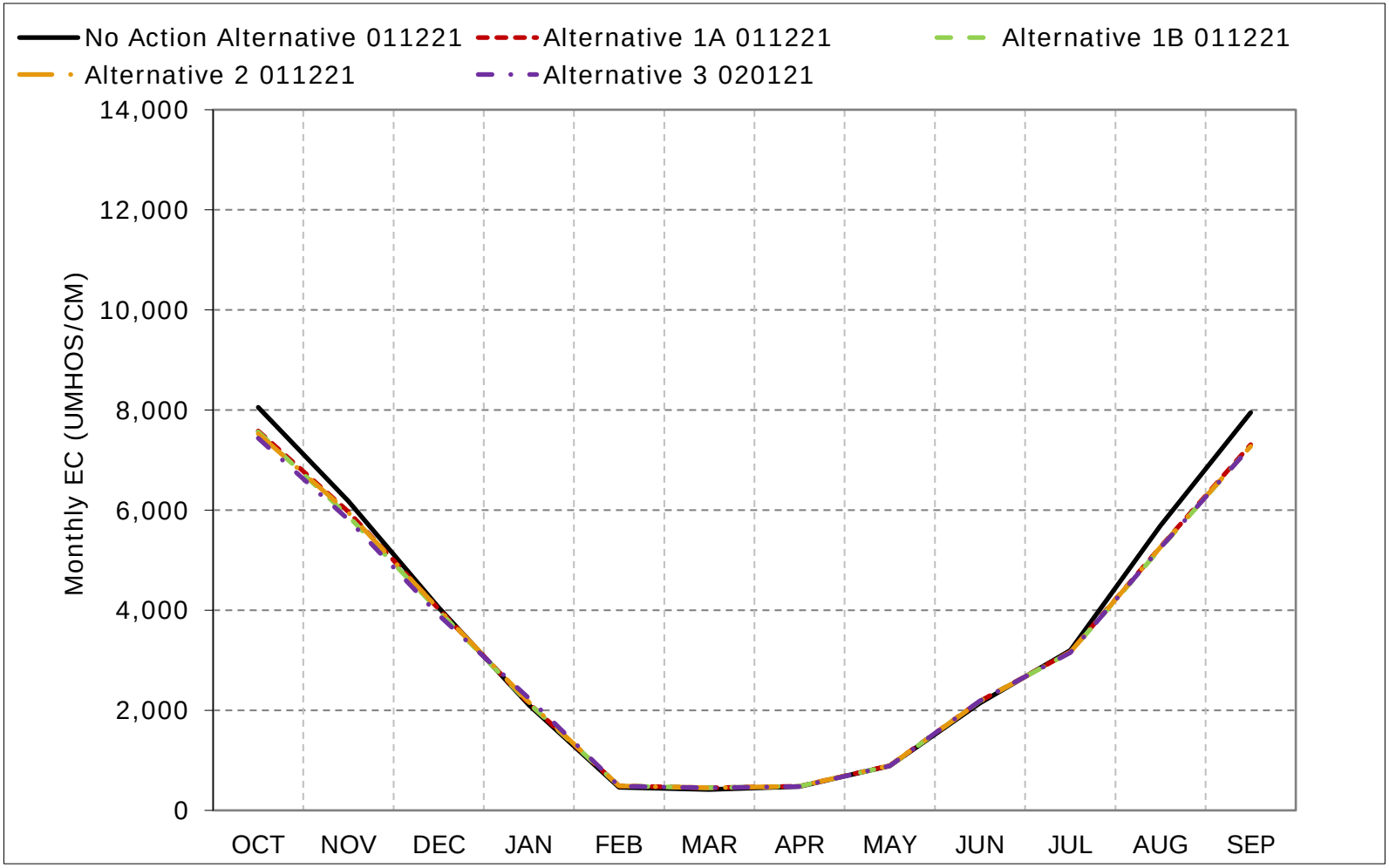


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-4. Sacramento River at Collinsville, Below Normal Year Average EC

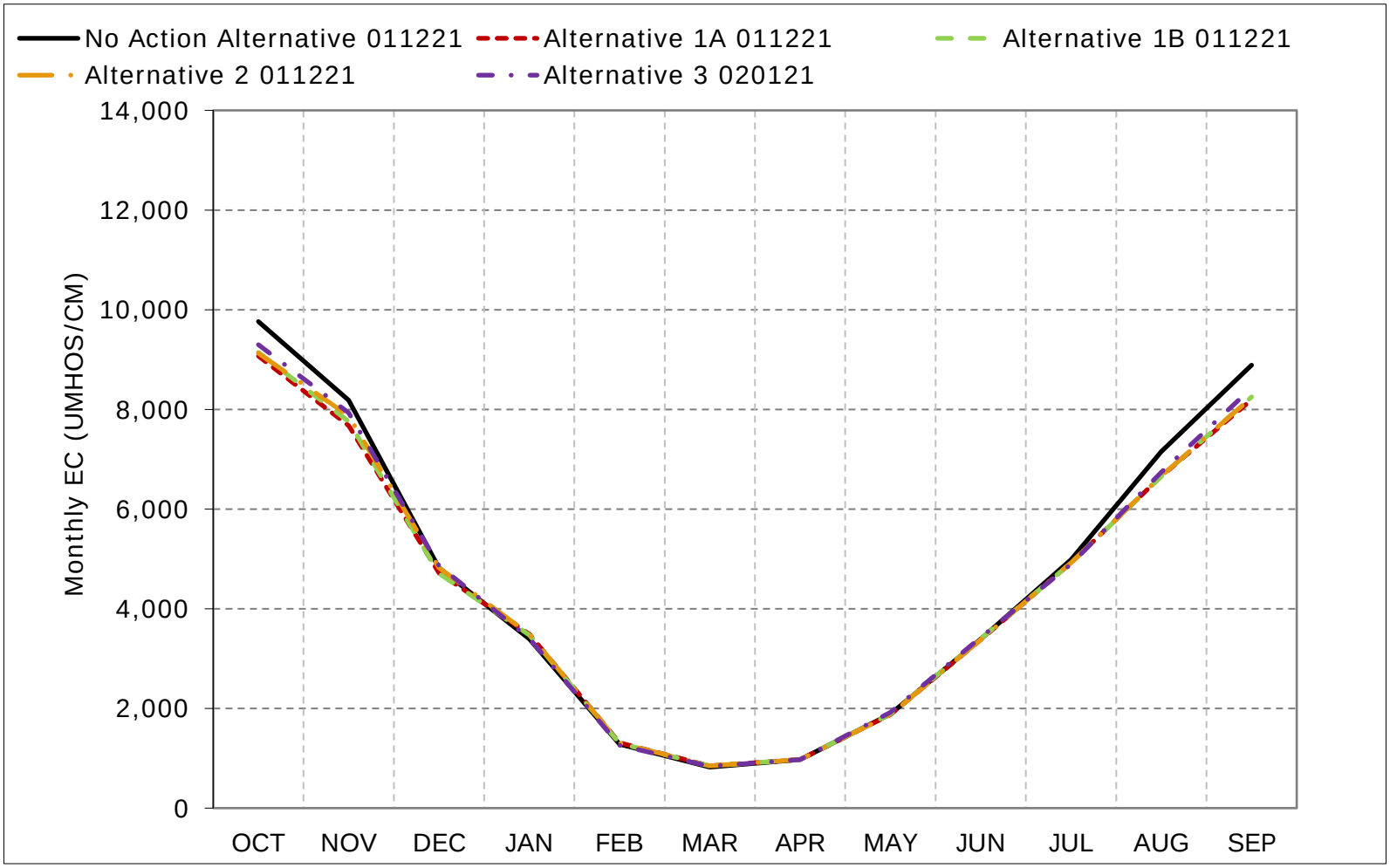


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-5. Sacramento River at Collinsville, Dry Year Average EC

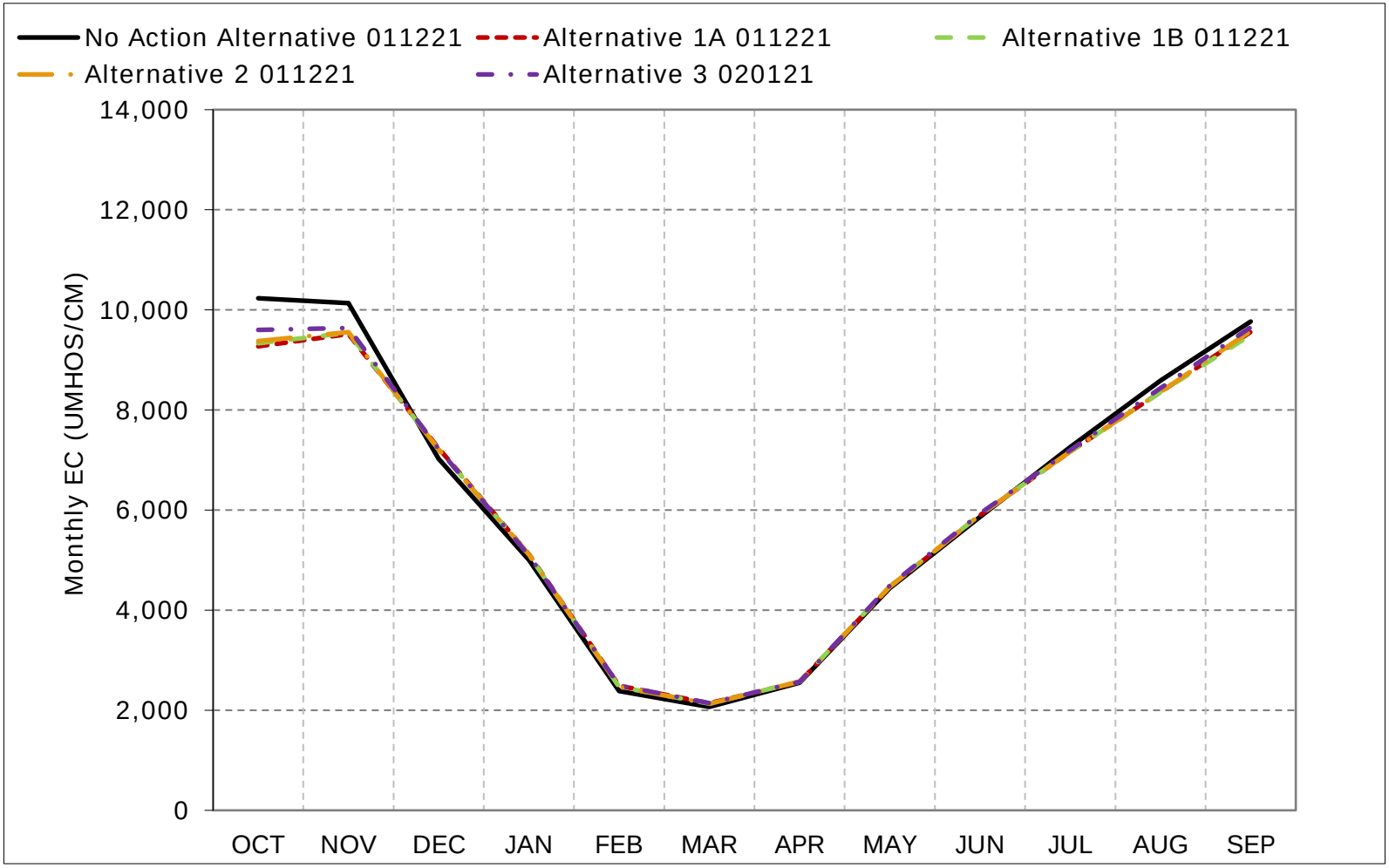


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-6. Sacramento River at Collinsville, Critical Year Average EC

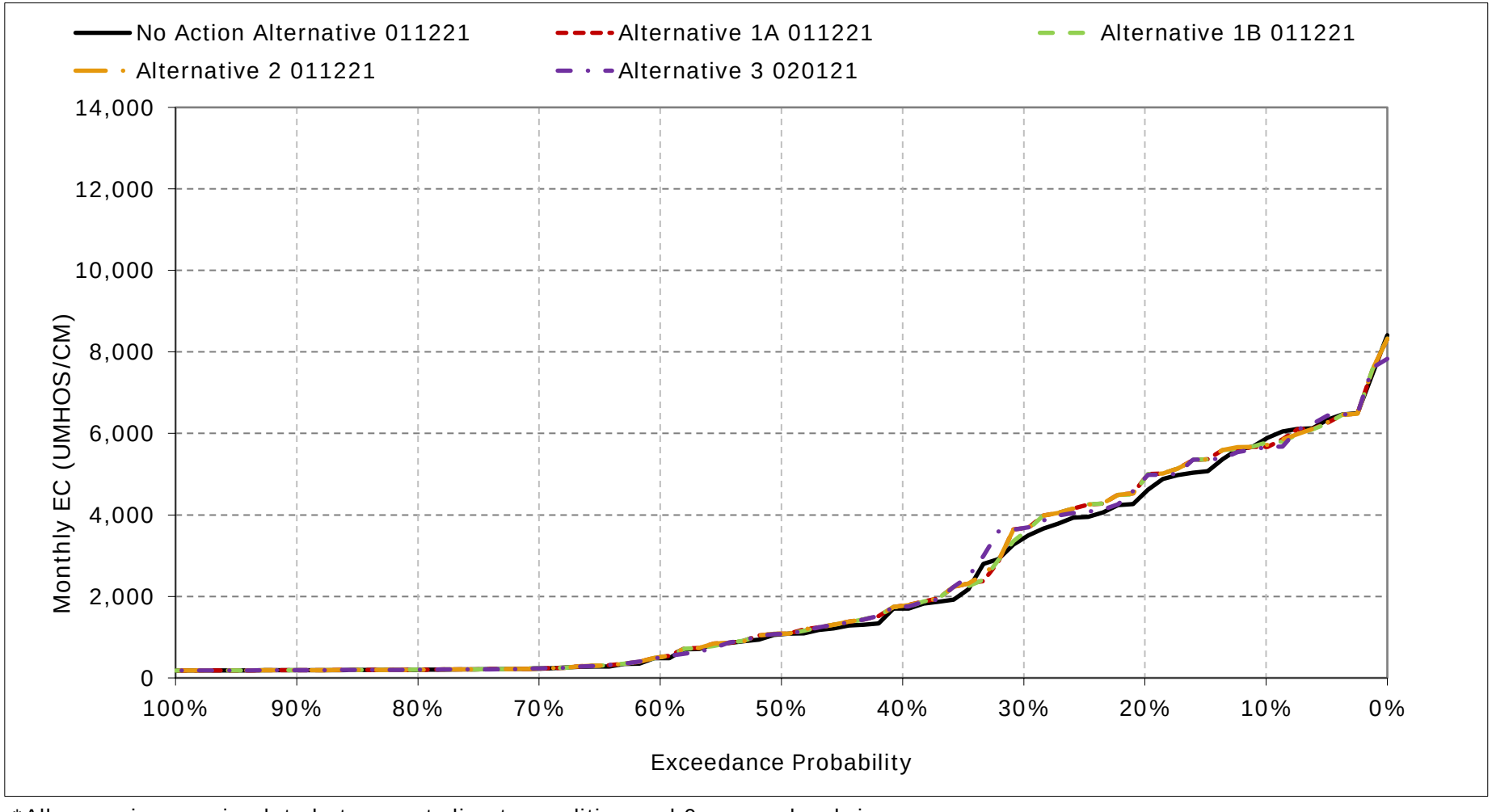


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

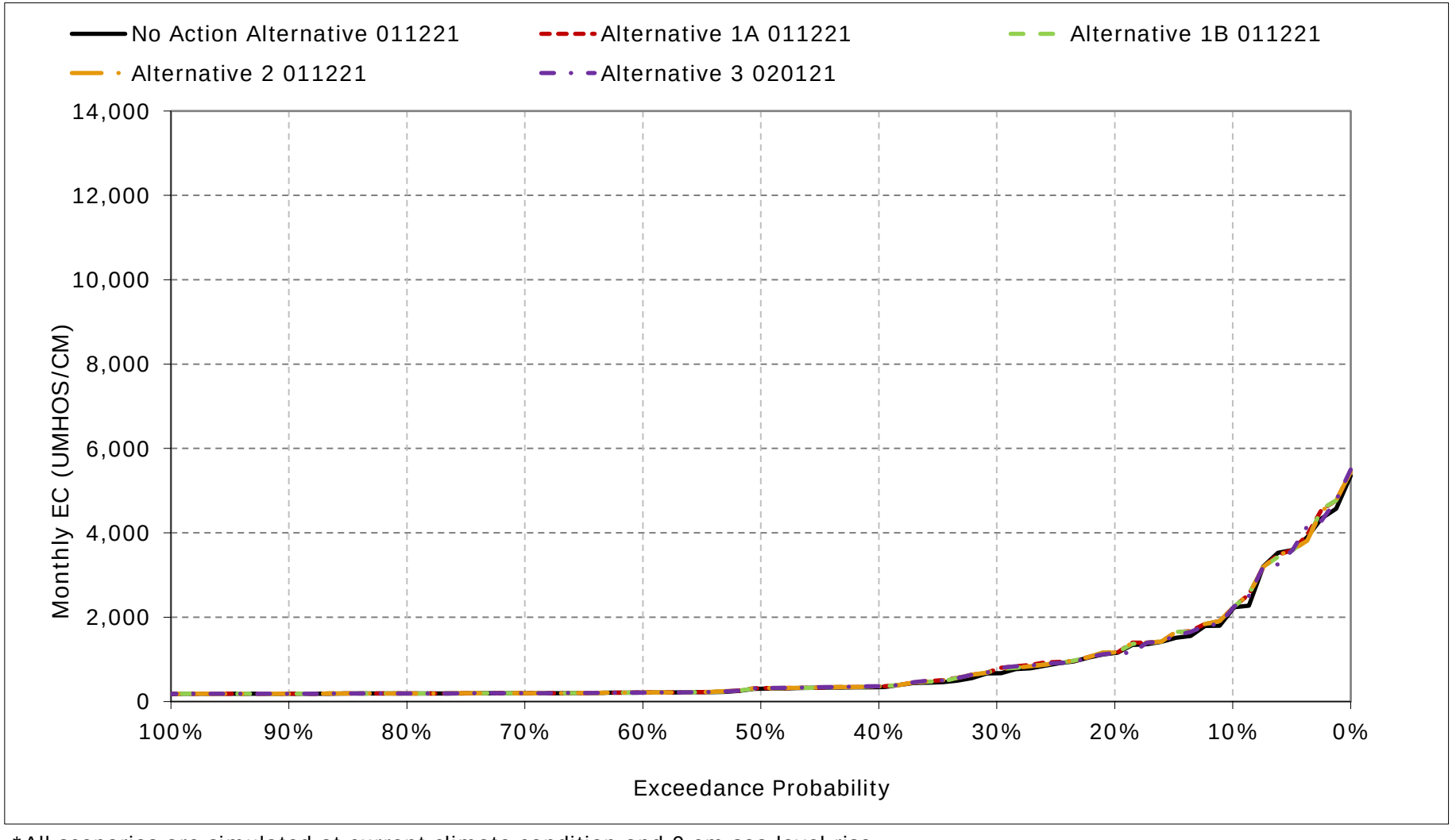
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-7. Sacramento River at Collinsville Salinity, January EC



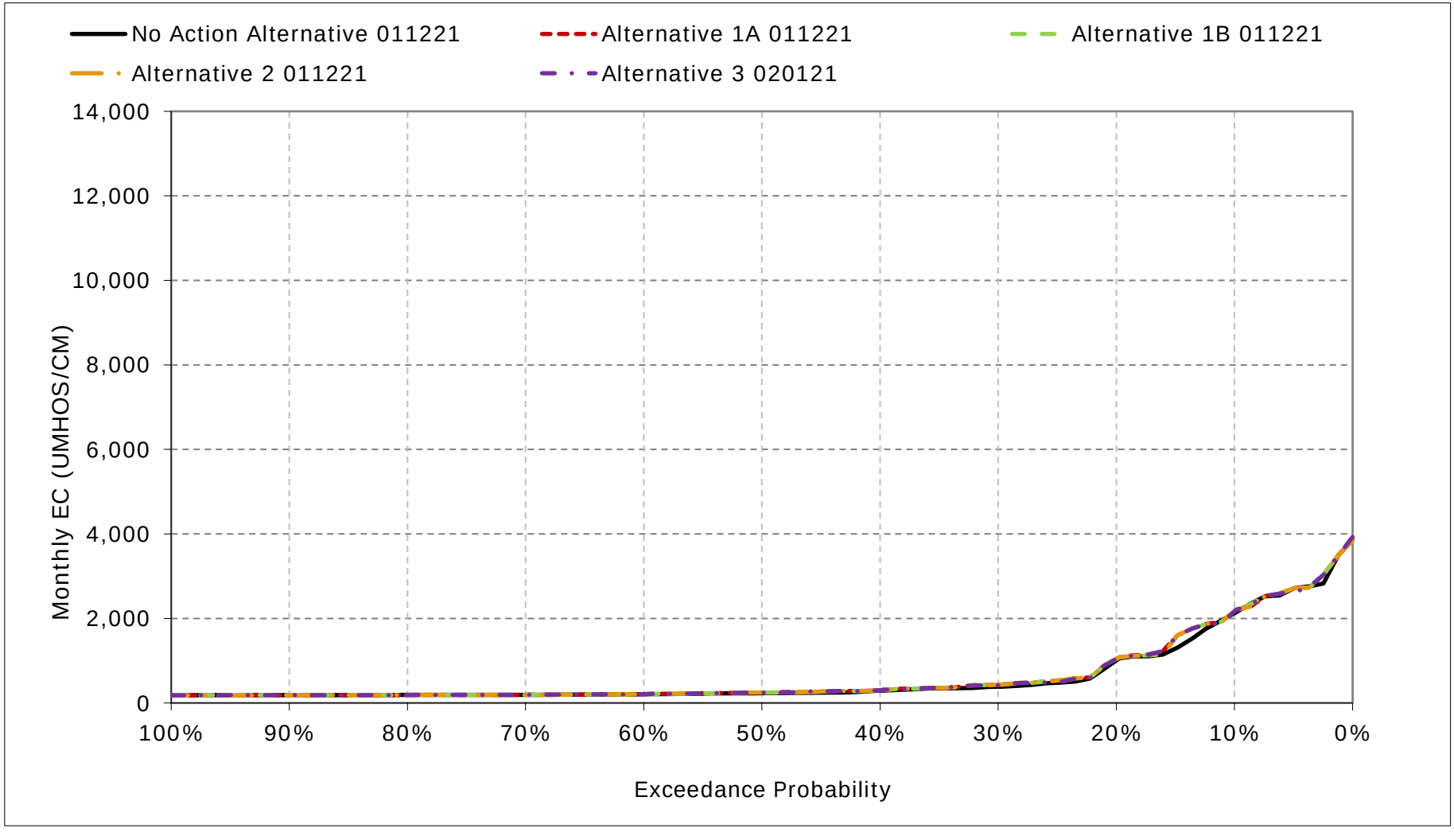
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-8. Sacramento River at Collinsville Salinity, February EC



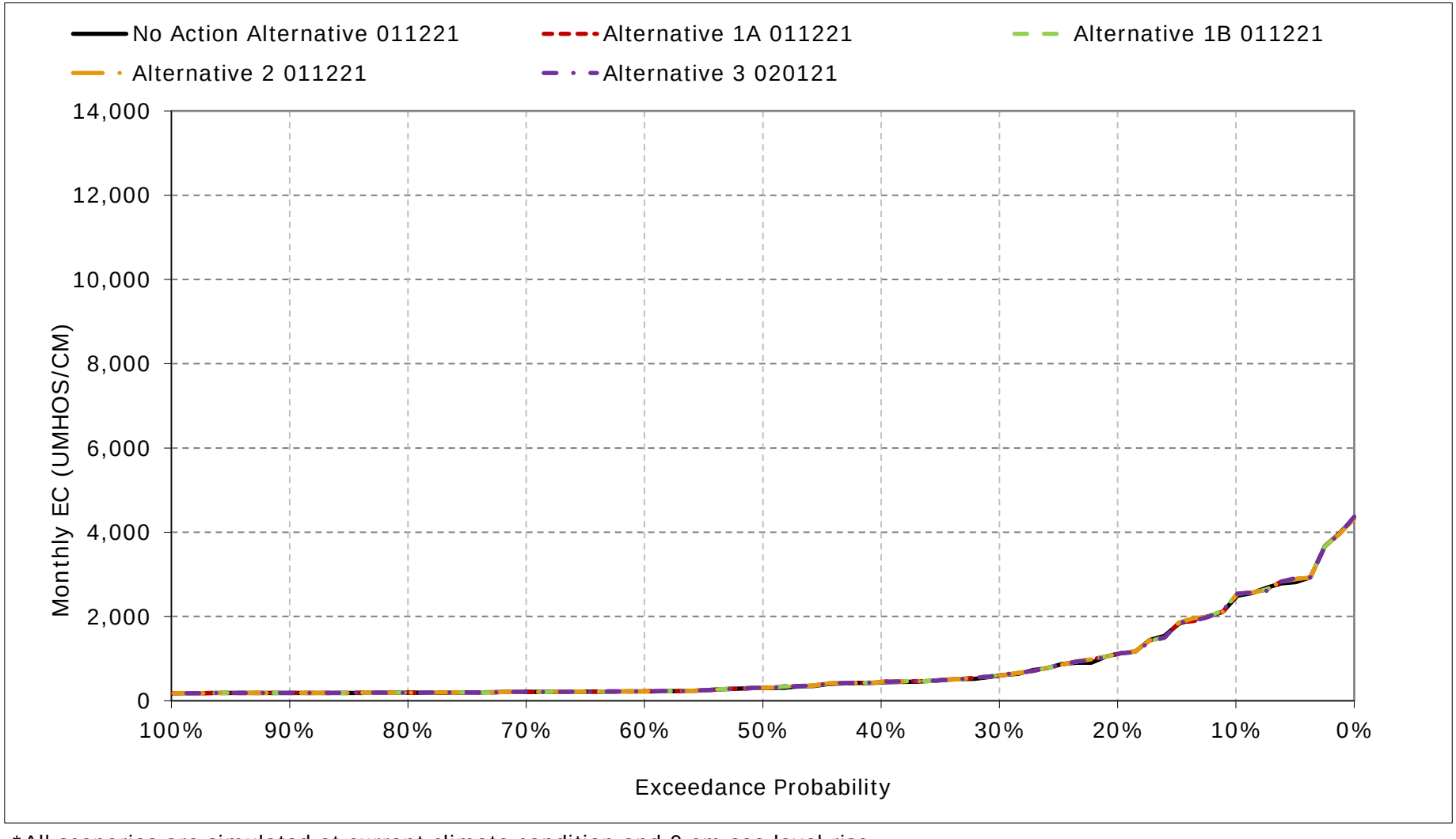
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-9. Sacramento River at Collinsville Salinity, March EC



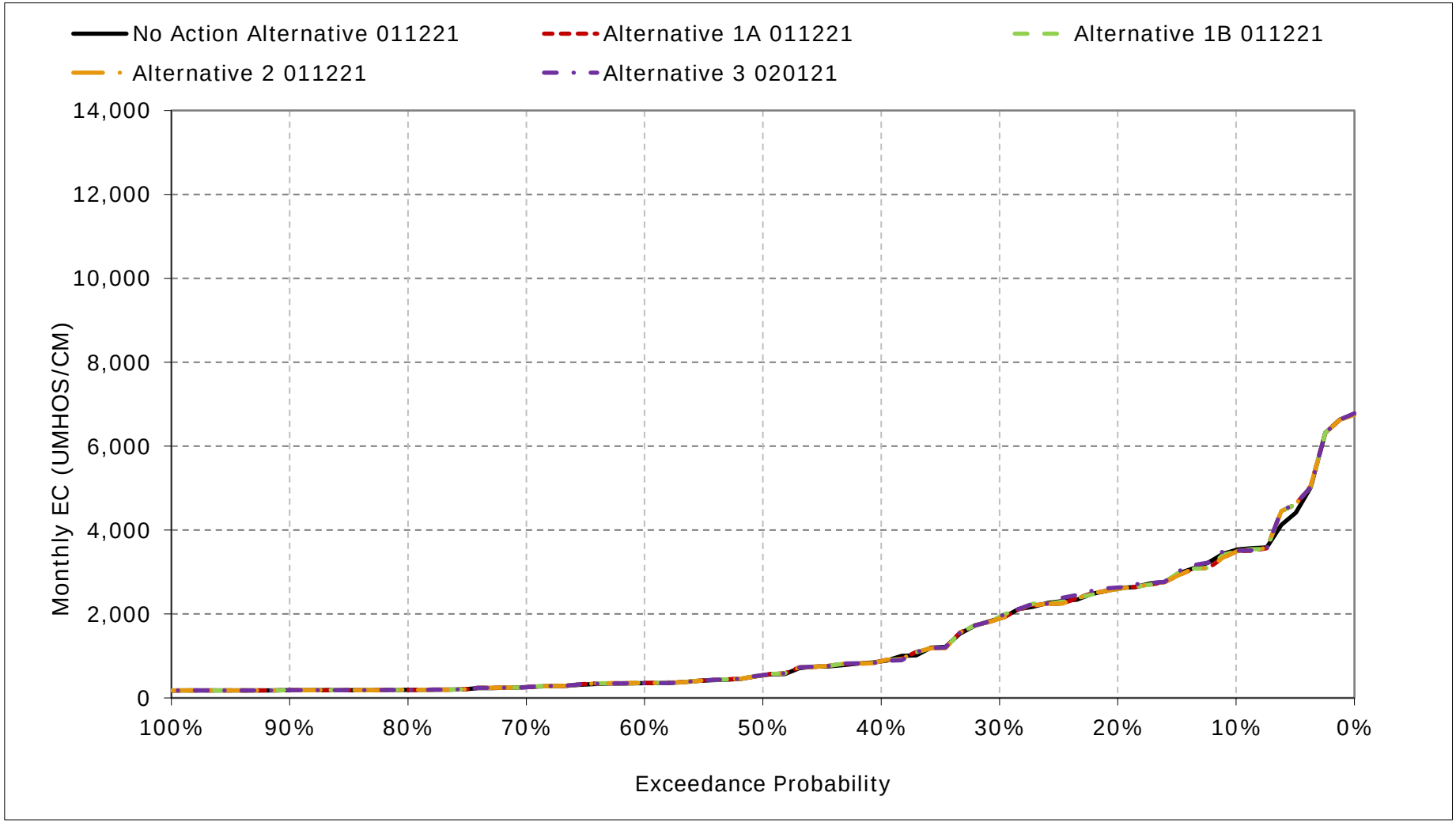
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-10. Sacramento River at Collinsville Salinity, April EC



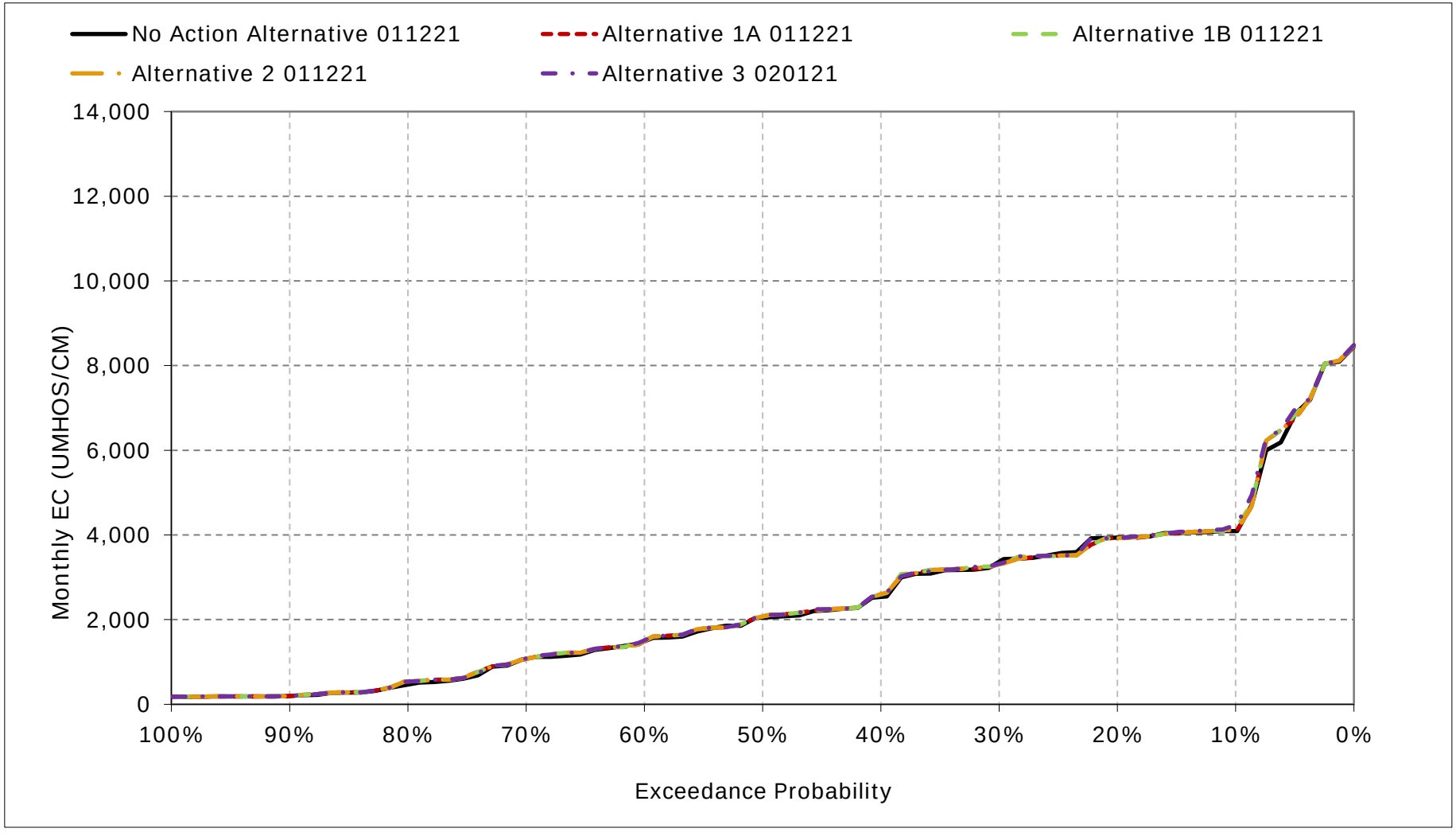
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-11. Sacramento River at Collinsville Salinity, May EC



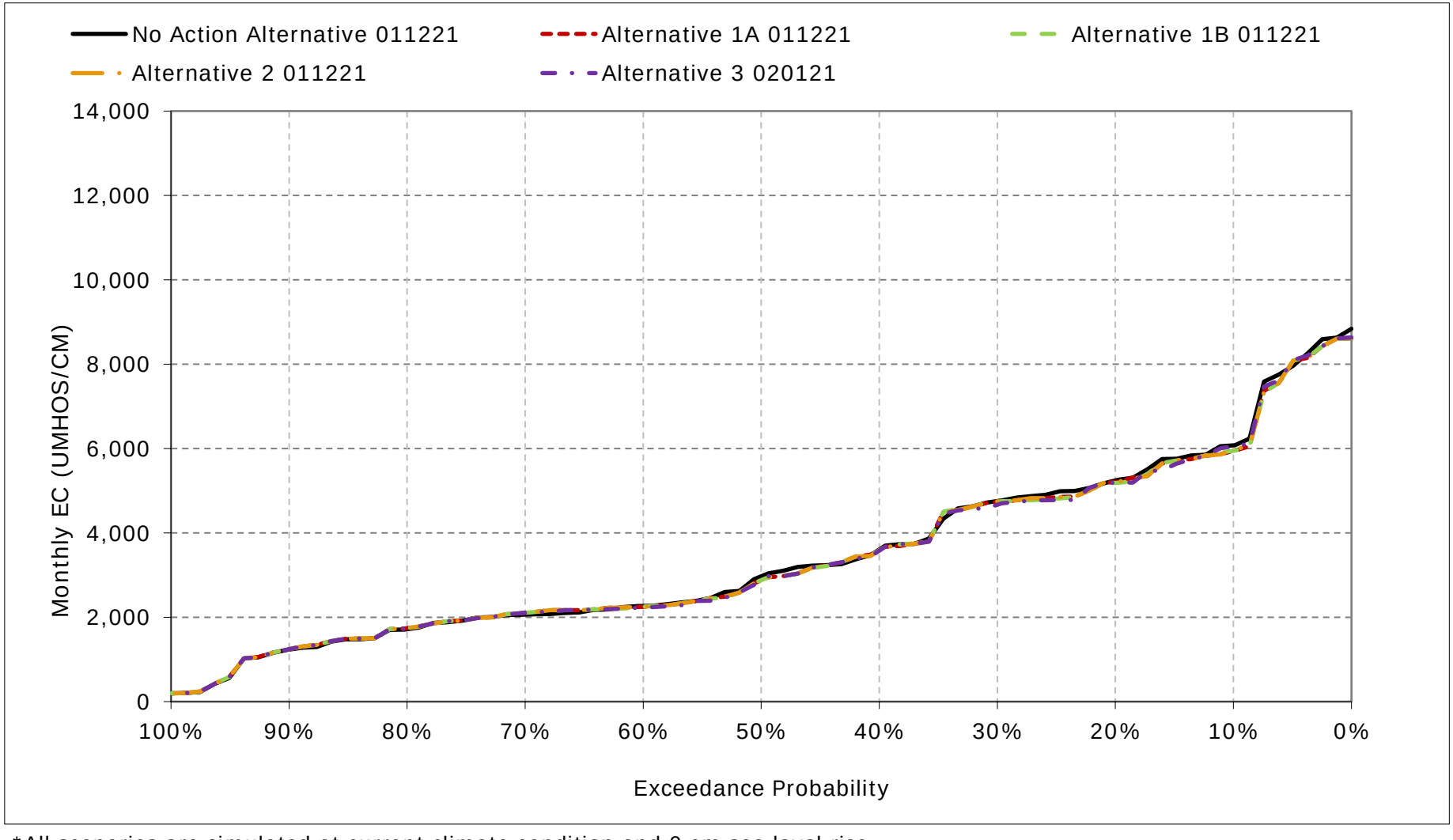
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-12. Sacramento River at Collinsville Salinity, June EC



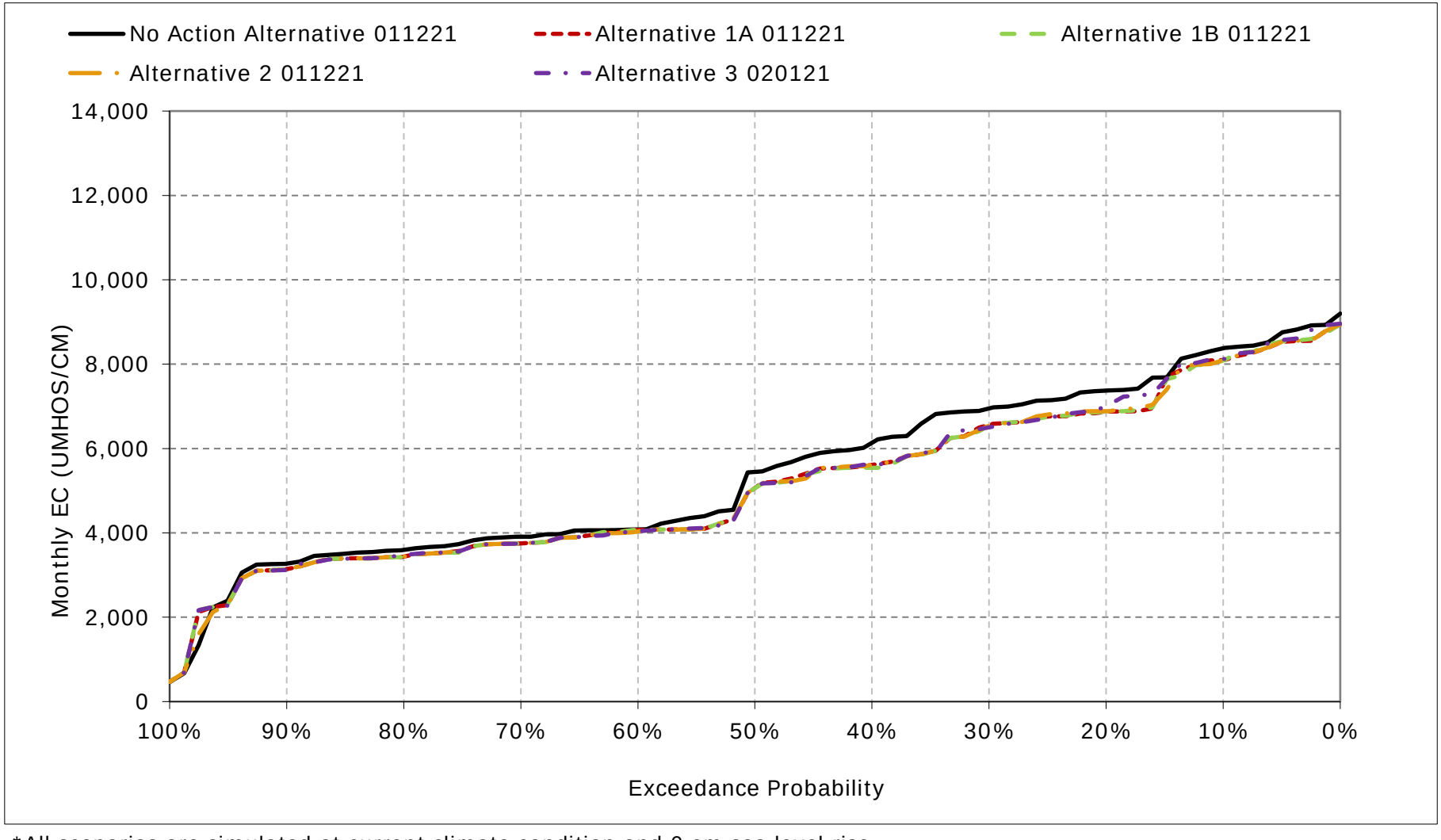
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-13. Sacramento River at Collinsville Salinity, July EC



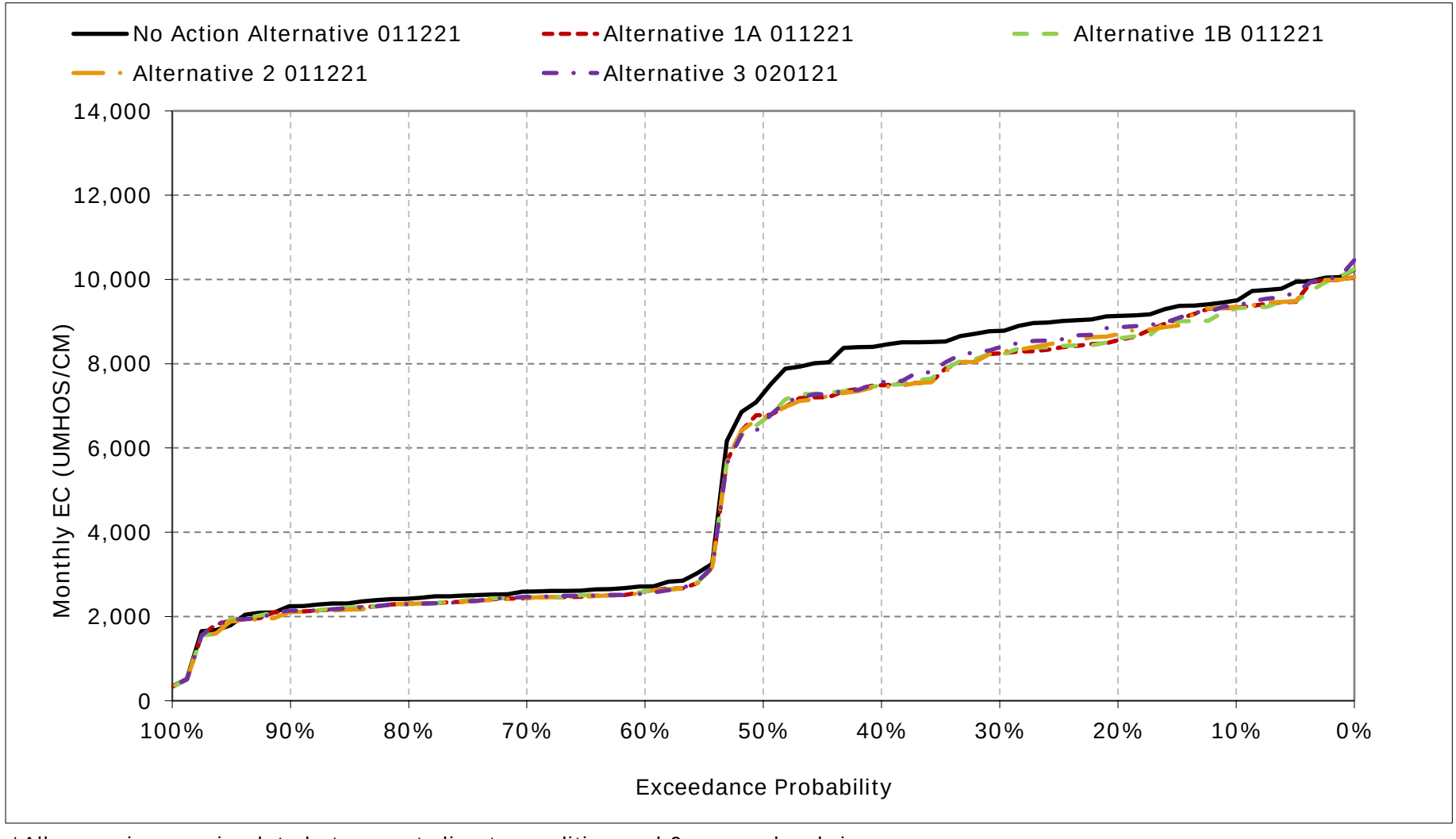
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-14. Sacramento River at Collinsville Salinity, August EC



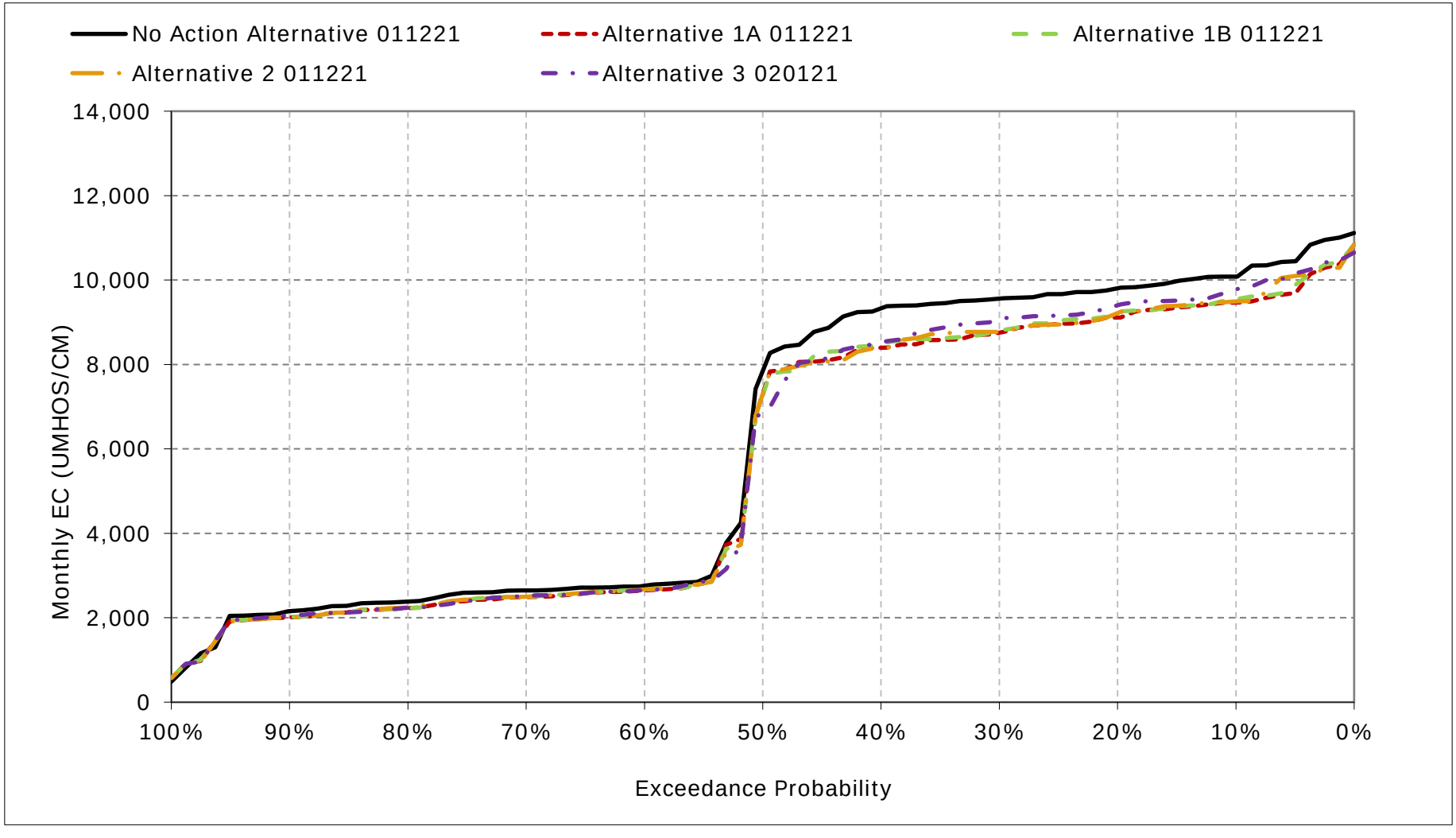
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-15. Sacramento River at Collinsville Salinity, September EC



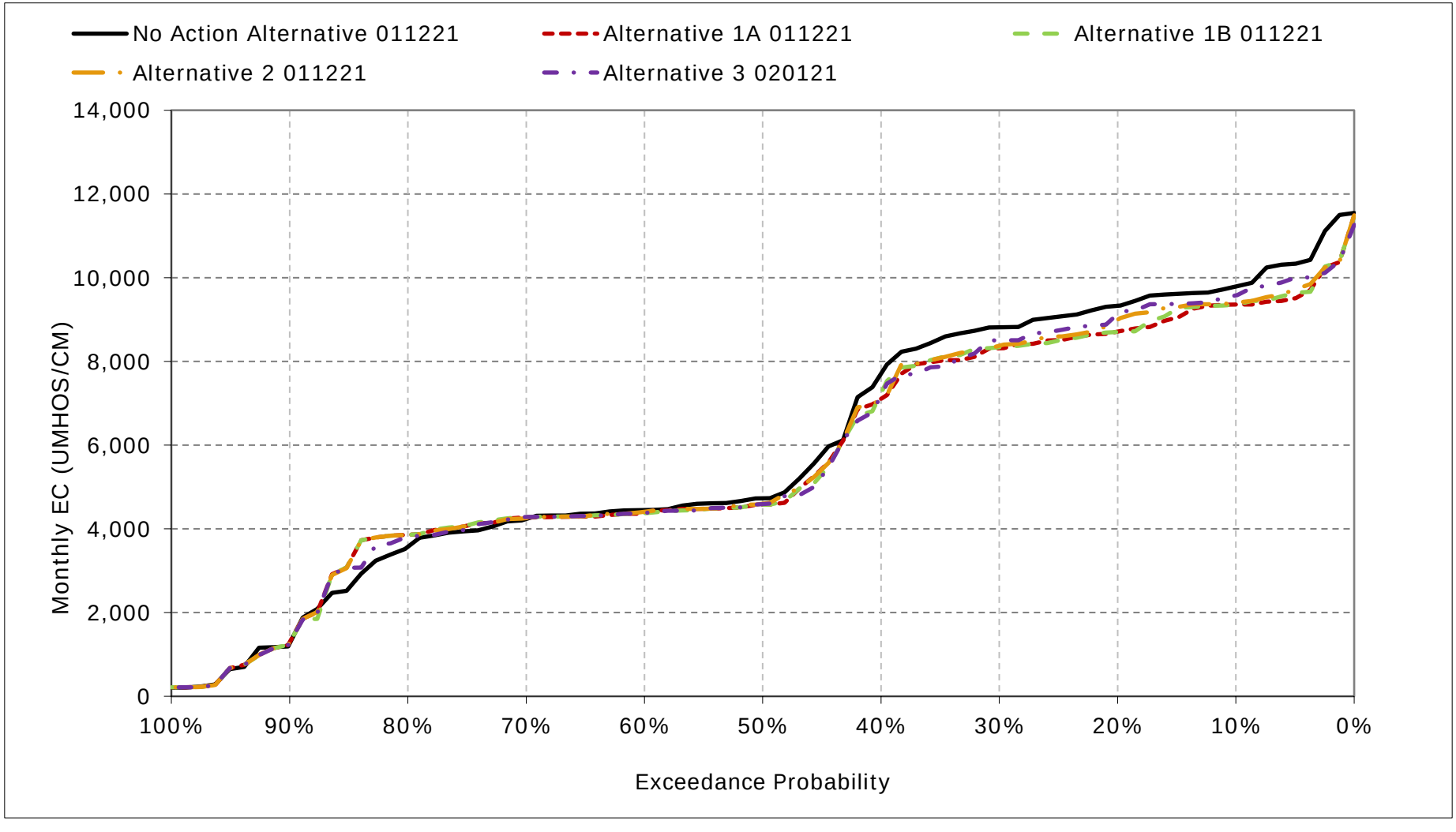
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-16. Sacramento River at Collinsville Salinity, October EC



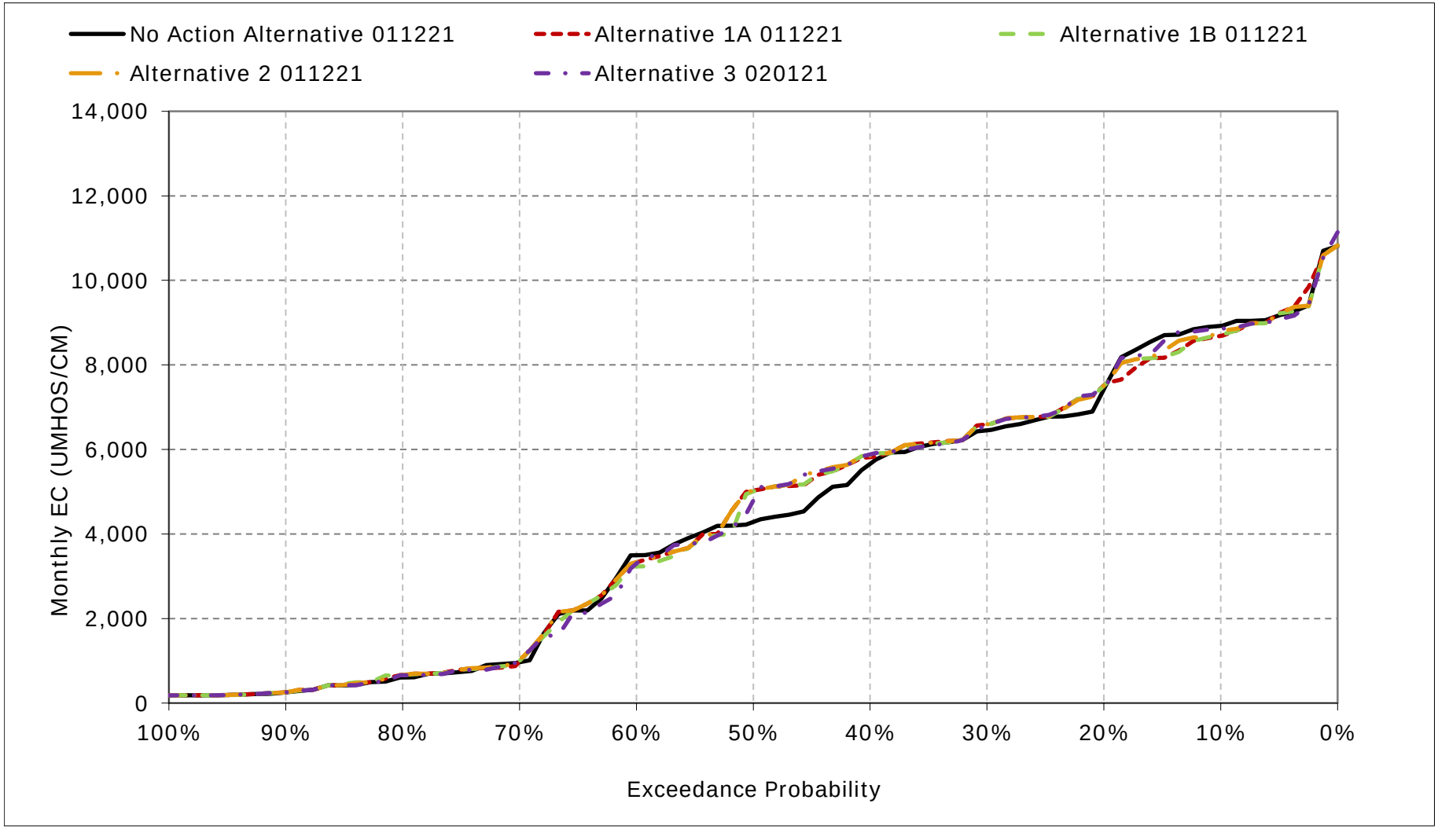
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-17. Sacramento River at Collinsville Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-6-18. Sacramento River at Collinsville Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-7-1a. Sacramento River at Mallard Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,867	13,588	12,795	9,643	4,659	4,448	4,931	6,271	7,107	9,465	11,956	13,236
20%	13,549	13,181	11,317	8,079	2,522	2,289	2,611	4,994	6,893	8,663	10,863	12,782
30%	13,314	12,649	10,316	6,409	1,531	850	1,470	3,961	6,014	8,124	10,478	12,454
40%	13,136	11,559	9,347	3,562	759	620	1,098	2,131	4,957	6,555	9,652	12,149
50%	11,480	7,983	7,719	2,241	511	384	696	1,306	3,999	5,759	8,852	10,991
60%	5,286	7,603	6,584	1,128	240	252	399	853	3,260	4,735	7,122	5,333
70%	5,127	7,428	2,048	359	214	208	286	568	2,345	4,266	6,884	5,147
80%	4,762	6,522	1,291	211	202	198	202	275	1,167	3,694	6,473	4,939
90%	4,437	2,959	387	196	193	195	191	189	259	2,592	6,037	4,660
Long Term												
Full Simulation Period[a]	9,193	9,129	6,892	3,711	1,550	1,245	1,530	2,543	4,258	6,044	8,566	8,907
Water Year Types[b]												
Wet (32%)	4,539	5,819	5,430	642	228	241	315	599	1,481	3,116	5,973	4,606
Above Normal (15%)	5,205	7,103	6,041	2,105	455	246	401	827	2,853	4,256	6,696	5,069
Below Normal (17%)	11,548	9,387	6,312	3,904	937	887	1,061	1,933	4,159	6,046	9,116	11,614
Dry (22%)	13,533	11,866	7,421	6,025	2,612	1,727	2,163	3,797	6,081	8,314	10,661	12,535
Critical (15%)	14,005	13,923	10,793	8,268	4,633	4,116	4,889	7,304	9,063	10,767	12,269	13,462

Table 6B1-7-1b. Sacramento River at Mallard Slough, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,301	13,117	12,634	9,459	4,675	4,546	4,951	6,212	7,174	9,390	11,793	13,116
20%	12,991	12,498	11,421	8,430	2,560	2,377	2,624	4,986	6,872	8,652	10,399	12,219
30%	12,659	12,259	10,352	6,800	1,616	1,031	1,509	3,949	5,976	8,092	10,102	11,966
40%	12,267	10,982	9,583	3,688	822	679	1,128	2,090	5,025	6,501	9,064	11,140
50%	10,981	7,842	8,611	2,327	539	451	730	1,331	4,045	5,599	8,364	10,404
60%	5,130	7,547	6,460	1,203	245	262	398	860	3,280	4,698	7,103	5,181
70%	4,954	7,382	2,208	358	217	209	287	567	2,379	4,334	6,753	5,008
80%	4,563	6,894	1,399	216	205	200	205	275	1,344	3,747	6,289	4,757
90%	4,278	2,885	393	196	193	195	192	189	262	2,598	5,874	4,523
Long Term												
Full Simulation Period[a]	8,783	8,918	6,961	3,799	1,600	1,301	1,542	2,549	4,285	6,028	8,315	8,563
Water Year Types[b]												
Wet (32%)	4,388	5,900	5,584	653	230	248	317	603	1,506	3,134	5,888	4,469
Above Normal (15%)	5,066	7,066	6,144	2,232	472	266	408	839	2,896	4,270	6,577	4,892
Below Normal (17%)	11,087	9,232	6,312	3,969	988	970	1,082	1,947	4,219	6,011	8,659	10,963
Dry (22%)	12,914	11,358	7,304	6,169	2,677	1,804	2,181	3,782	6,066	8,274	10,200	11,897
Critical (15%)	13,137	13,279	11,008	8,430	4,797	4,248	4,911	7,330	9,100	10,708	12,080	13,306

Table 6B1-7-1c. Sacramento River at Mallard Slough, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-567	-471	-161	-185	16	98	20	-58	66	-75	-163	-120
20%	-557	-683	104	351	38	87	13	-8	-21	-11	-464	-563
30%	-655	-390	36	391	85	181	39	-12	-38	-32	-376	-488
40%	-869	-577	235	125	63	58	31	-40	68	-54	-588	-1,009
50%	-499	-140	893	86	28	67	34	25	46	-160	-489	-588
60%	-157	-56	-124	75	5	10	-1	7	20	-37	-20	-152
70%	-173	-46	161	-1	3	1	1	-1	34	69	-131	-139
80%	-200	372	108	5	3	2	2	0	178	53	-184	-182
90%	-160	-73	6	0	0	1	1	0	2	6	-163	-138
Long Term												
Full Simulation Period[a]	-410	-212	70	88	50	56	12	6	27	-16	-251	-344
Water Year Types[b]												
Wet (32%)	-150	81	154	11	2	7	2	4	25	18	-85	-137
Above Normal (15%)	-140	-37	103	127	17	20	7	12	43	13	-118	-177
Below Normal (17%)	-461	-155	-1	64	51	84	21	14	60	-34	-457	-651
Dry (22%)	-619	-507	-117	143	65	77	17	-16	-15	-41	-461	-638
Critical (15%)	-868	-644	215	162	163	132	22	26	37	-59	-189	-156

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-7-2a. Sacramento River at Mallard Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,867	13,588	12,795	9,643	4,659	4,448	4,931	6,271	7,107	9,465	11,956	13,236
20%	13,549	13,181	11,317	8,079	2,522	2,289	2,611	4,994	6,893	8,663	10,863	12,782
30%	13,314	12,649	10,316	6,409	1,531	850	1,470	3,961	6,014	8,124	10,478	12,454
40%	13,136	11,559	9,347	3,562	759	620	1,098	2,131	4,957	6,555	9,652	12,149
50%	11,480	7,983	7,719	2,241	511	384	696	1,306	3,999	5,759	8,852	10,991
60%	5,286	7,603	6,584	1,128	240	252	399	853	3,260	4,735	7,122	5,333
70%	5,127	7,428	2,048	359	214	208	286	568	2,345	4,266	6,884	5,147
80%	4,762	6,522	1,291	211	202	198	202	275	1,167	3,694	6,473	4,939
90%	4,437	2,959	387	196	193	195	191	189	259	2,592	6,037	4,660
Long Term												
Full Simulation Period[a]	9,193	9,129	6,892	3,711	1,550	1,245	1,530	2,543	4,258	6,044	8,566	8,907
Water Year Types[b]												
Wet (32%)	4,539	5,819	5,430	642	228	241	315	599	1,481	3,116	5,973	4,606
Above Normal (15%)	5,205	7,103	6,041	2,105	455	246	401	827	2,853	4,256	6,696	5,069
Below Normal (17%)	11,548	9,387	6,312	3,904	937	887	1,061	1,933	4,159	6,046	9,116	11,614
Dry (22%)	13,533	11,866	7,421	6,025	2,612	1,727	2,163	3,797	6,081	8,314	10,661	12,535
Critical (15%)	14,005	13,923	10,793	8,268	4,633	4,116	4,889	7,304	9,063	10,767	12,269	13,462

Table 6B1-7-2b. Sacramento River at Mallard Slough, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,308	13,153	12,660	9,535	4,668	4,546	4,953	6,233	7,241	9,389	11,733	13,096
20%	13,072	12,555	11,414	8,429	2,571	2,377	2,624	4,987	6,871	8,661	10,408	12,243
30%	12,668	12,256	10,349	6,650	1,614	1,032	1,520	4,015	5,984	8,086	10,083	11,972
40%	12,376	11,125	9,577	3,649	819	676	1,128	2,087	5,025	6,546	9,023	11,067
50%	10,945	7,861	8,582	2,320	533	450	730	1,339	4,045	5,603	8,367	10,287
60%	5,147	7,555	6,255	1,193	244	262	398	860	3,319	4,679	7,099	5,191
70%	4,963	7,416	2,435	358	217	209	287	567	2,378	4,330	6,753	4,994
80%	4,562	6,894	1,373	212	205	200	205	275	1,342	3,745	6,289	4,737
90%	4,287	2,884	391	196	193	195	192	190	261	2,598	5,875	4,525
Long Term												
Full Simulation Period[a]	8,805	8,927	6,937	3,788	1,591	1,298	1,544	2,553	4,292	6,026	8,309	8,563
Water Year Types[b]												
Wet (32%)	4,393	5,908	5,575	655	230	248	317	603	1,506	3,134	5,890	4,465
Above Normal (15%)	5,094	7,074	6,098	2,227	467	265	407	841	2,896	4,268	6,581	4,917
Below Normal (17%)	11,055	9,109	6,253	3,961	987	970	1,081	1,944	4,221	6,001	8,629	10,926
Dry (22%)	12,980	11,457	7,289	6,135	2,665	1,801	2,183	3,796	6,090	8,275	10,198	11,945
Critical (15%)	13,191	13,313	10,997	8,411	4,761	4,232	4,922	7,338	9,108	10,710	12,074	13,259

Table 6B1-7-2c. Sacramento River at Mallard Slough, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-559	-435	-135	-108	10	98	22	-37	134	-76	-222	-140
20%	-477	-626	97	349	49	87	12	-7	-22	-2	-456	-539
30%	-645	-394	33	241	84	182	51	54	-30	-39	-396	-482
40%	-760	-434	230	86	60	55	31	-44	68	-8	-630	-1,082
50%	-535	-121	864	79	23	66	34	33	46	-156	-486	-705
60%	-139	-47	-329	65	4	10	-1	7	59	-56	-23	-142
70%	-164	-12	387	-1	3	1	2	-1	34	65	-131	-153
80%	-200	372	82	1	3	2	2	0	175	50	-185	-201
90%	-151	-75	4	0	0	1	1	0	2	5	-162	-135
Long Term												
Full Simulation Period[a]	-387	-202	45	77	41	52	14	10	34	-17	-257	-344
Water Year Types[b]												
Wet (32%)	-145	89	145	13	2	7	2	4	25	18	-84	-142
Above Normal (15%)	-112	-28	57	123	12	19	6	14	43	11	-115	-152
Below Normal (17%)	-493	-278	-59	57	50	83	20	11	62	-45	-487	-688
Dry (22%)	-553	-409	-132	110	53	74	20	-1	9	-40	-463	-590
Critical (15%)	-814	-610	205	144	128	116	33	34	45	-58	-195	-203

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-7-3a. Sacramento River at Mallard Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,867	13,588	12,795	9,643	4,659	4,448	4,931	6,271	7,107	9,465	11,956	13,236
20%	13,549	13,181	11,317	8,079	2,522	2,289	2,611	4,994	6,893	8,663	10,863	12,782
30%	13,314	12,649	10,316	6,409	1,531	850	1,470	3,961	6,014	8,124	10,478	12,454
40%	13,136	11,559	9,347	3,562	759	620	1,098	2,131	4,957	6,555	9,652	12,149
50%	11,480	7,983	7,719	2,241	511	384	696	1,306	3,999	5,759	8,852	10,991
60%	5,286	7,603	6,584	1,128	240	252	399	853	3,260	4,735	7,122	5,333
70%	5,127	7,428	2,048	359	214	208	286	568	2,345	4,266	6,884	5,147
80%	4,762	6,522	1,291	211	202	198	202	275	1,167	3,694	6,473	4,939
90%	4,437	2,959	387	196	193	195	191	189	259	2,592	6,037	4,660
Long Term												
Full Simulation Period[a]	9,193	9,129	6,892	3,711	1,550	1,245	1,530	2,543	4,258	6,044	8,566	8,907
Water Year Types[b]												
Wet (32%)	4,539	5,819	5,430	642	228	241	315	599	1,481	3,116	5,973	4,606
Above Normal (15%)	5,205	7,103	6,041	2,105	455	246	401	827	2,853	4,256	6,696	5,069
Below Normal (17%)	11,548	9,387	6,312	3,904	937	887	1,061	1,933	4,159	6,046	9,116	11,614
Dry (22%)	13,533	11,866	7,421	6,025	2,612	1,727	2,163	3,797	6,081	8,314	10,661	12,535
Critical (15%)	14,005	13,923	10,793	8,268	4,633	4,116	4,889	7,304	9,063	10,767	12,269	13,462

Table 6B1-7-3b. Sacramento River at Mallard Slough, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,308	13,221	12,715	9,458	4,678	4,546	4,951	6,224	7,172	9,414	11,735	13,118
20%	13,042	12,685	11,414	8,428	2,560	2,377	2,624	4,986	6,873	8,652	10,443	12,398
30%	12,689	12,305	10,352	6,797	1,616	1,031	1,507	3,949	5,959	8,106	10,083	12,031
40%	12,158	11,005	9,581	3,688	822	676	1,128	2,090	5,025	6,502	9,068	11,108
50%	10,977	7,920	8,609	2,326	538	451	730	1,331	4,045	5,603	8,366	10,375
60%	5,153	7,560	6,473	1,203	245	262	398	860	3,280	4,698	7,083	5,159
70%	4,961	7,385	2,208	358	217	209	287	567	2,379	4,334	6,753	4,974
80%	4,580	6,893	1,394	216	205	200	204	275	1,342	3,744	6,289	4,757
90%	4,277	2,878	393	196	193	195	192	189	261	2,598	5,874	4,463
Long Term												
Full Simulation Period[a]	8,805	8,968	6,983	3,801	1,594	1,297	1,543	2,550	4,285	6,028	8,304	8,558
Water Year Types[b]												
Wet (32%)	4,414	5,917	5,585	653	230	248	317	603	1,506	3,133	5,855	4,431
Above Normal (15%)	5,062	7,062	6,143	2,233	471	266	408	839	2,896	4,270	6,571	4,888
Below Normal (17%)	11,026	9,218	6,307	3,998	989	970	1,082	1,946	4,217	6,009	8,654	10,939
Dry (22%)	12,963	11,544	7,421	6,167	2,675	1,801	2,179	3,781	6,068	8,275	10,209	11,941
Critical (15%)	13,234	13,327	10,985	8,416	4,758	4,226	4,922	7,334	9,102	10,710	12,078	13,321

Table 6B1-7-3c. Sacramento River at Mallard Slough, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-559	-367	-80	-185	20	98	20	-47	64	-51	-220	-118
20%	-507	-496	96	349	38	87	13	-7	-20	-11	-421	-383
30%	-625	-344	36	388	85	181	38	-12	-55	-18	-396	-423
40%	-979	-554	234	125	64	56	31	-41	69	-53	-584	-1,040
50%	-503	-62	891	86	27	67	34	25	46	-157	-486	-616
60%	-133	-43	-111	75	5	9	-1	7	20	-38	-39	-174
70%	-167	-43	160	-1	3	1	1	-1	34	69	-131	-173
80%	-183	371	104	5	3	2	2	0	175	50	-185	-182
90%	-161	-81	6	0	0	1	1	0	2	6	-164	-197
Long Term												
Full Simulation Period[a]	-387	-162	92	91	44	52	13	6	27	-16	-262	-348
Water Year Types[b]												
Wet (32%)	-124	98	155	11	2	7	2	4	25	18	-119	-175
Above Normal (15%)	-143	-41	103	128	17	20	7	12	43	13	-125	-181
Below Normal (17%)	-521	-169	-5	93	52	83	21	12	58	-37	-461	-675
Dry (22%)	-569	-321	1	141	63	74	15	-16	-13	-39	-452	-594
Critical (15%)	-772	-596	193	148	125	110	33	31	39	-57	-191	-141

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-7-4a. Sacramento River at Mallard Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,867	13,588	12,795	9,643	4,659	4,448	4,931	6,271	7,107	9,465	11,956	13,236
20%	13,549	13,181	11,317	8,079	2,522	2,289	2,611	4,994	6,893	8,663	10,863	12,782
30%	13,314	12,649	10,316	6,409	1,531	850	1,470	3,961	6,014	8,124	10,478	12,454
40%	13,136	11,559	9,347	3,562	759	620	1,098	2,131	4,957	6,555	9,652	12,149
50%	11,480	7,983	7,719	2,241	511	384	696	1,306	3,999	5,759	8,852	10,991
60%	5,286	7,603	6,584	1,128	240	252	399	853	3,260	4,735	7,122	5,333
70%	5,127	7,428	2,048	359	214	208	286	568	2,345	4,266	6,884	5,147
80%	4,762	6,522	1,291	211	202	198	202	275	1,167	3,694	6,473	4,939
90%	4,437	2,959	387	196	193	195	191	189	259	2,592	6,037	4,660
Long Term												
Full Simulation Period[a]	9,193	9,129	6,892	3,711	1,550	1,245	1,530	2,543	4,258	6,044	8,566	8,907
Water Year Types[b]												
Wet (32%)	4,539	5,819	5,430	642	228	241	315	599	1,481	3,116	5,973	4,606
Above Normal (15%)	5,205	7,103	6,041	2,105	455	246	401	827	2,853	4,256	6,696	5,069
Below Normal (17%)	11,548	9,387	6,312	3,904	937	887	1,061	1,933	4,159	6,046	9,116	11,614
Dry (22%)	13,533	11,866	7,421	6,025	2,612	1,727	2,163	3,797	6,081	8,314	10,661	12,535
Critical (15%)	14,005	13,923	10,793	8,268	4,633	4,116	4,889	7,304	9,063	10,767	12,269	13,462

Table 6B1-7-4b. Sacramento River at Mallard Slough, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,473	13,374	12,783	9,255	4,656	4,529	4,966	6,234	7,304	9,425	11,859	13,215
20%	13,223	12,960	11,398	8,424	2,543	2,385	2,623	5,061	6,878	8,667	10,518	12,539
30%	12,944	12,294	10,326	6,786	1,617	1,031	1,520	4,021	5,996	7,984	10,037	12,123
40%	12,314	11,078	9,579	3,651	823	676	1,128	2,072	5,033	6,543	9,076	11,252
50%	10,455	7,859	8,398	2,327	558	452	729	1,338	4,048	5,588	8,363	10,227
60%	5,141	7,569	6,360	1,182	246	262	399	853	3,313	4,647	7,090	5,172
70%	4,957	7,390	2,267	357	217	209	287	566	2,379	4,317	6,753	5,008
80%	4,565	6,858	1,257	212	204	200	205	275	1,340	3,743	6,288	4,726
90%	4,314	2,881	389	196	193	195	192	190	261	2,598	5,874	4,539
Long Term												
Full Simulation Period[a]	8,849	8,951	6,943	3,789	1,584	1,297	1,541	2,566	4,304	6,019	8,336	8,617
Water Year Types[b]												
Wet (32%)	4,403	5,904	5,575	641	230	248	317	603	1,505	3,134	5,885	4,480
Above Normal (15%)	5,092	7,039	6,009	2,227	466	266	407	841	2,899	4,246	6,577	4,878
Below Normal (17%)	10,913	9,003	6,103	4,120	987	968	1,078	1,938	4,225	5,990	8,638	10,924
Dry (22%)	13,112	11,608	7,486	6,047	2,601	1,787	2,178	3,843	6,127	8,248	10,268	12,112
Critical (15%)	13,435	13,422	11,005	8,397	4,809	4,248	4,910	7,358	9,133	10,734	12,154	13,385

Table 6B1-7-4c. Sacramento River at Mallard Slough, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-394	-214	-11	-388	-3	81	36	-37	196	-40	-96	-21
20%	-325	-221	81	344	20	95	12	67	-15	4	-345	-243
30%	-369	-355	10	376	87	181	50	60	-18	-140	-441	-331
40%	-822	-481	232	89	64	56	31	-59	76	-12	-576	-897
50%	-1,025	-124	679	87	47	68	33	32	48	-171	-490	-764
60%	-145	-34	-224	54	5	10	0	0	53	-89	-32	-161
70%	-170	-38	219	-2	3	1	2	-1	34	51	-131	-138
80%	-197	336	-34	1	2	3	2	0	173	48	-185	-213
90%	-123	-78	3	0	0	1	1	1	2	6	-164	-122
Long Term												
Full Simulation Period[a]	-344	-178	51	78	34	52	11	22	46	-25	-230	-290
Water Year Types[b]												
Wet (32%)	-136	84	145	-1	2	7	2	4	25	18	-89	-126
Above Normal (15%)	-113	-63	-32	123	12	19	6	13	46	-10	-119	-191
Below Normal (17%)	-635	-384	-210	216	49	82	17	5	67	-56	-477	-690
Dry (22%)	-420	-258	65	22	-11	60	15	46	46	-66	-393	-423
Critical (15%)	-571	-501	212	129	176	132	22	54	70	-33	-114	-77

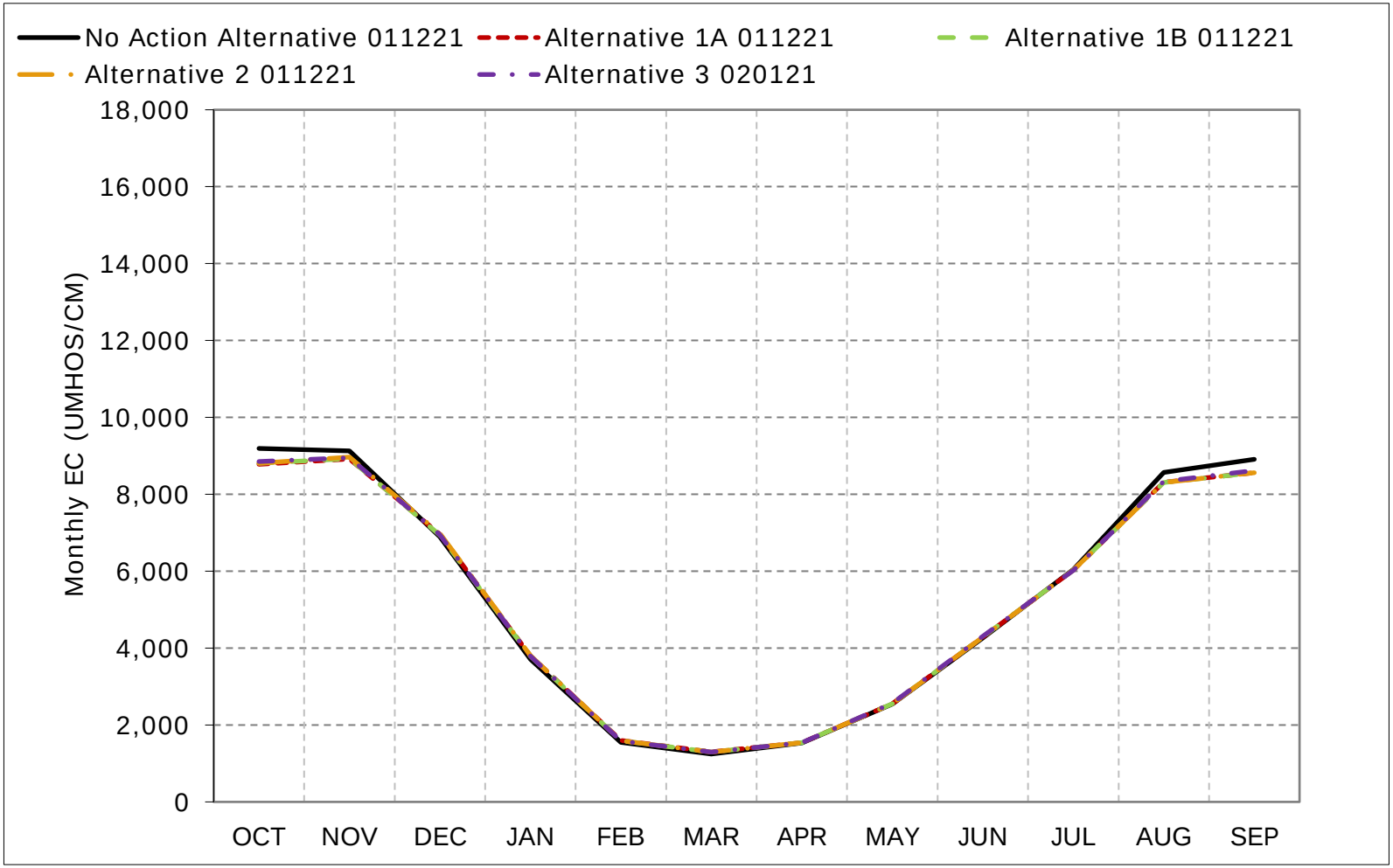
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-1. Sacramento River at Mallard Slough, Long-Term Average EC

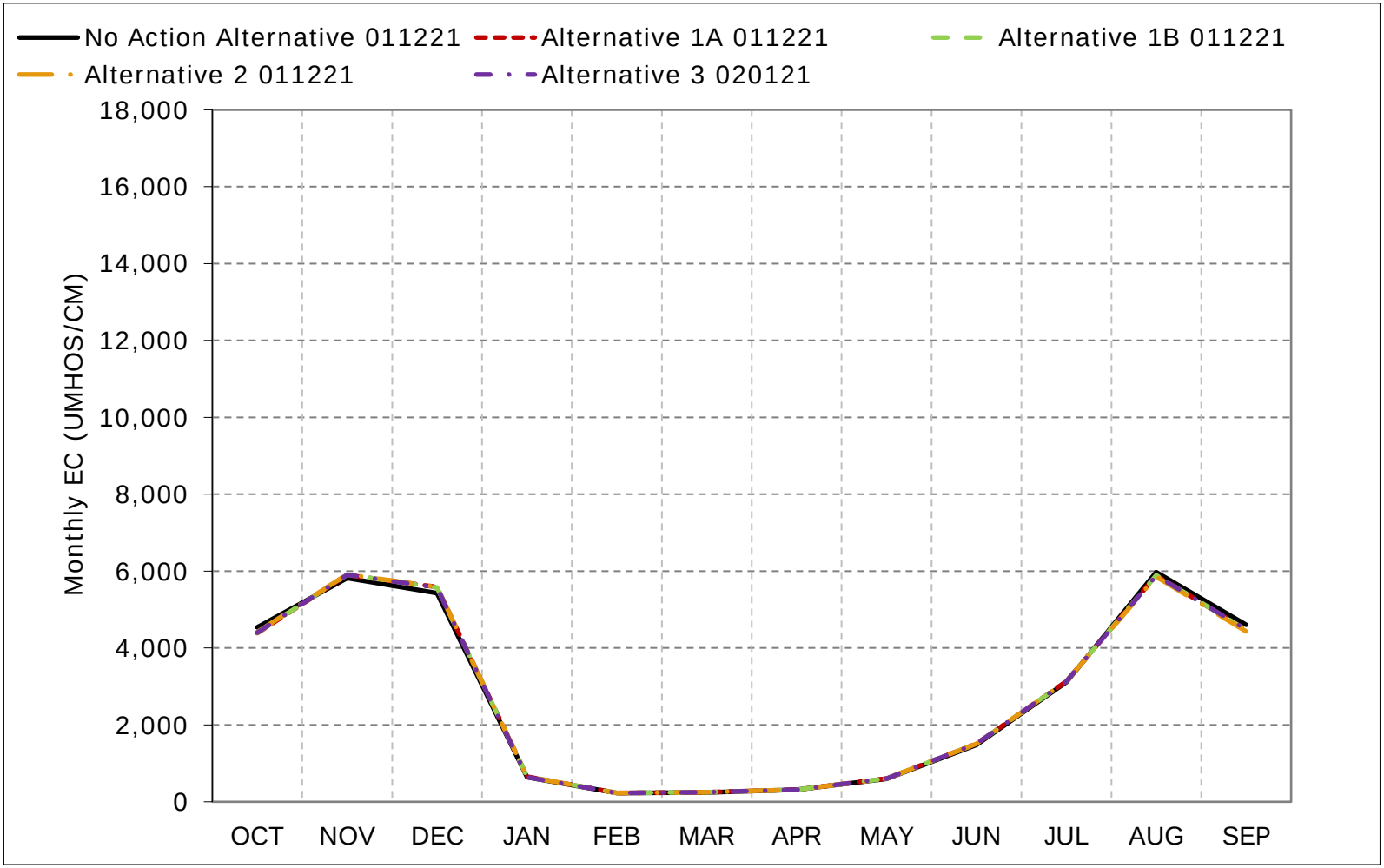


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-2. Sacramento River at Mallard Slough, Wet Year Average EC

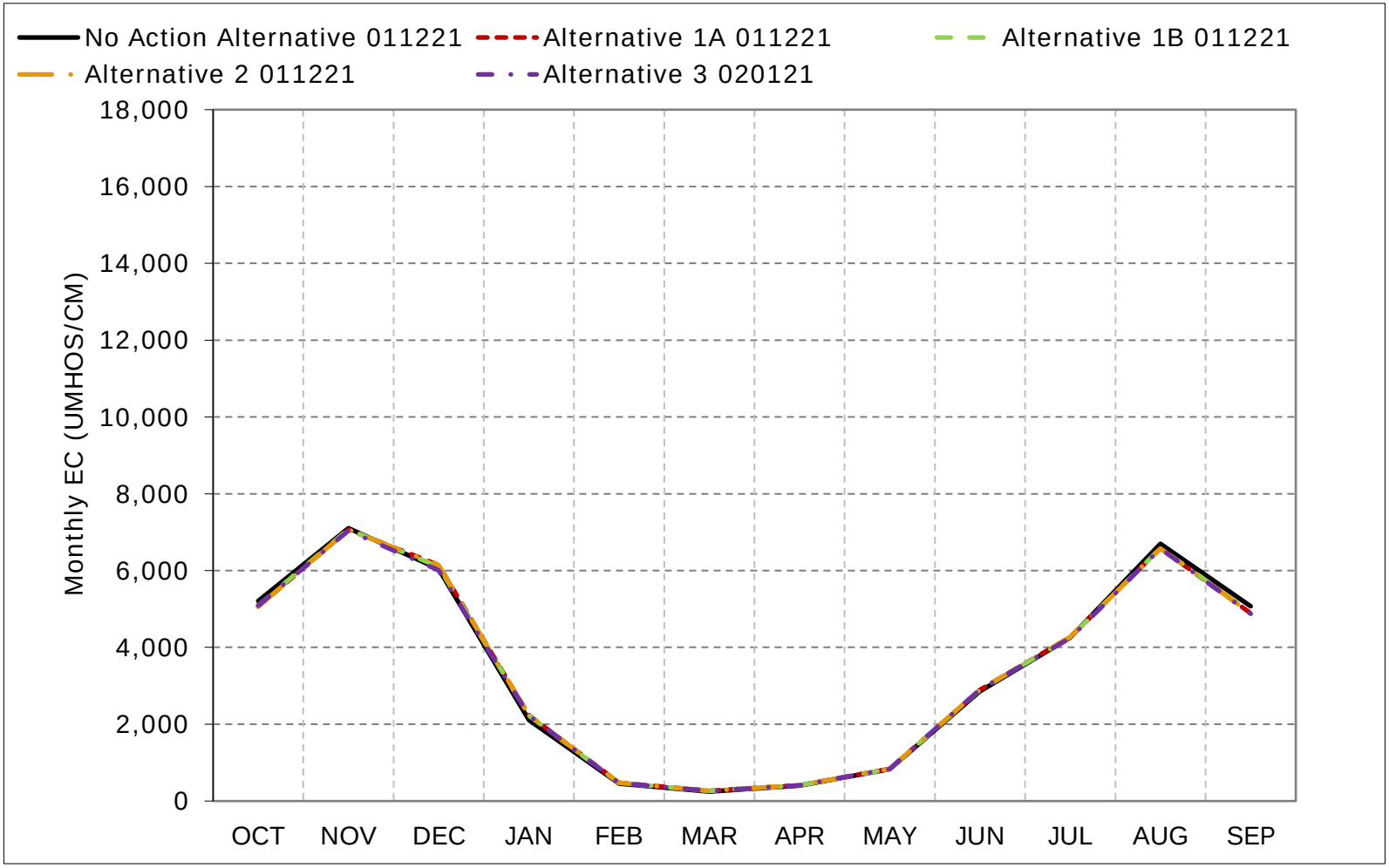


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-3. Sacramento River at Mallard Slough, Above Normal Year Average EC

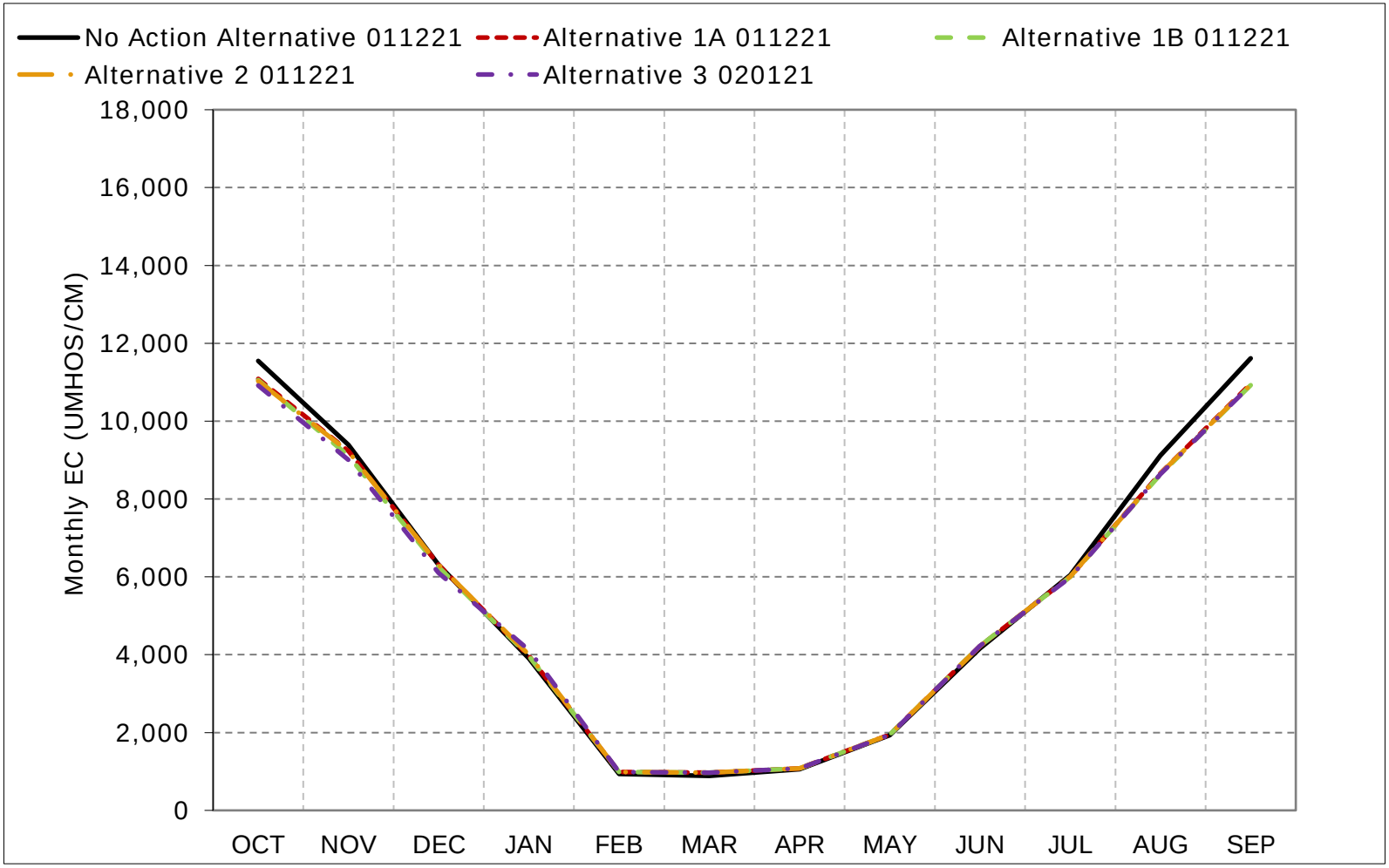


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-4. Sacramento River at Mallard Slough, Below Normal Year Average EC

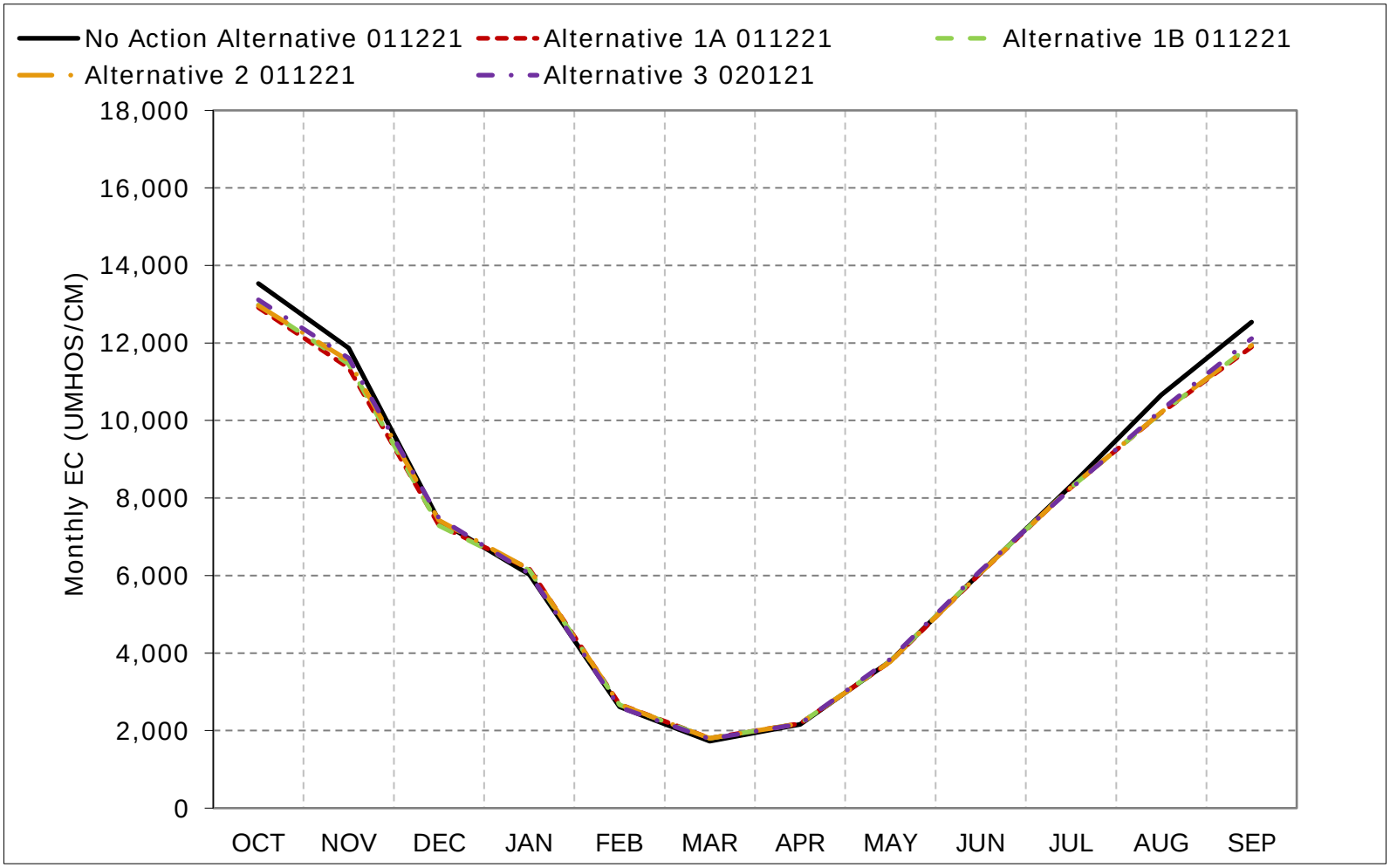


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-5. Sacramento River at Mallard Slough, Dry Year Average EC

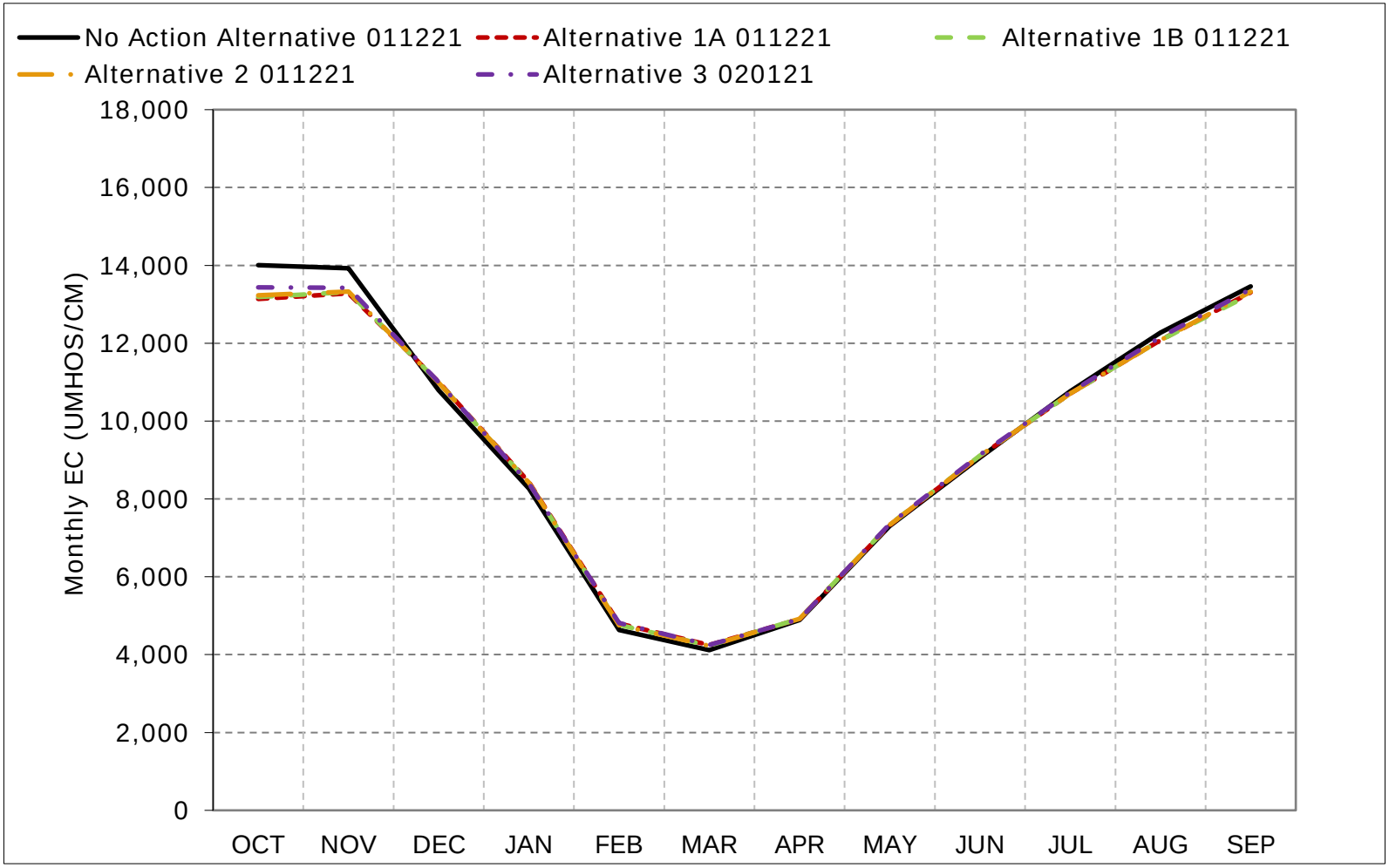


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-6. Sacramento River at Mallard Slough, Critical Year Average EC

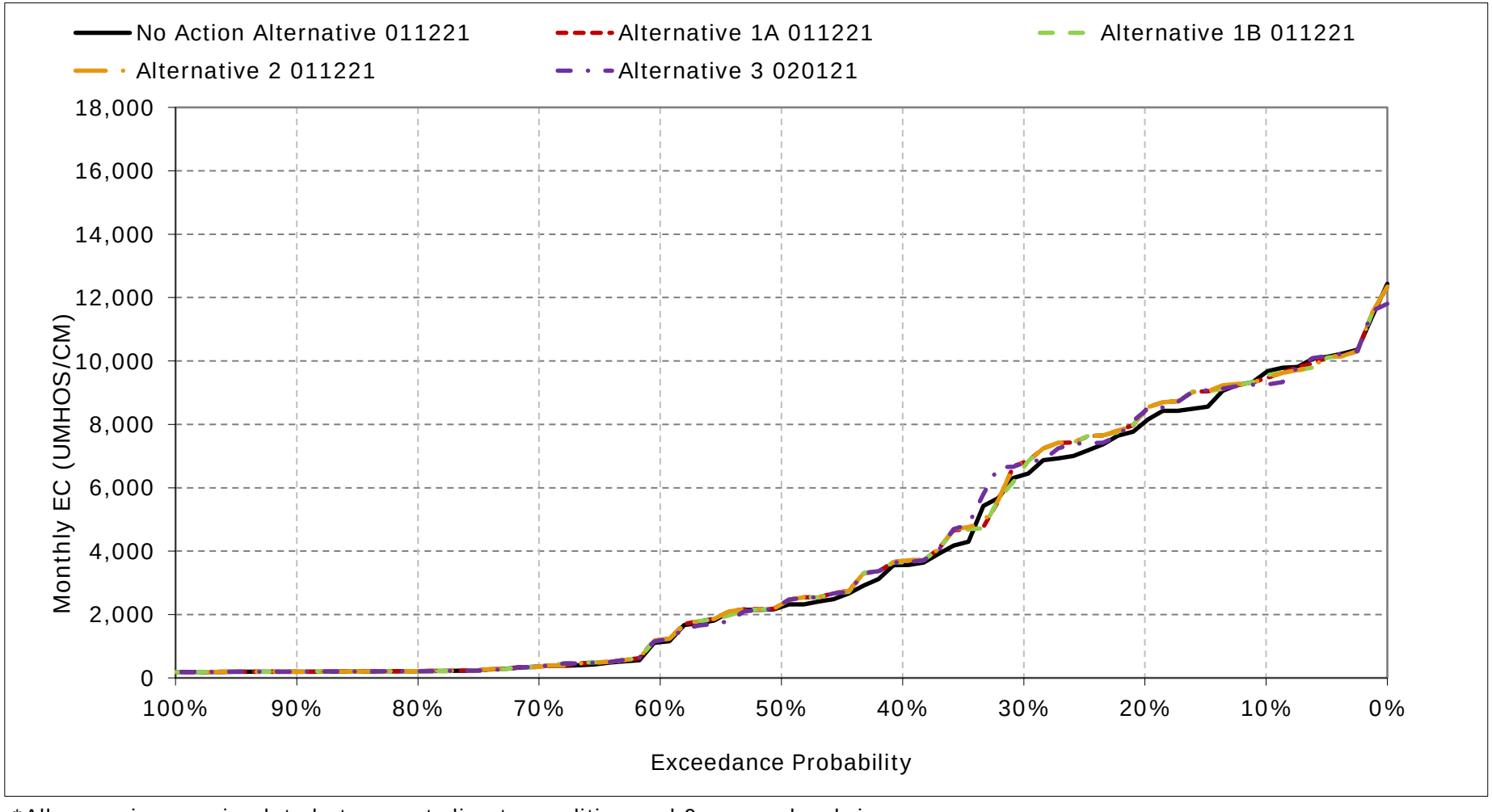


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

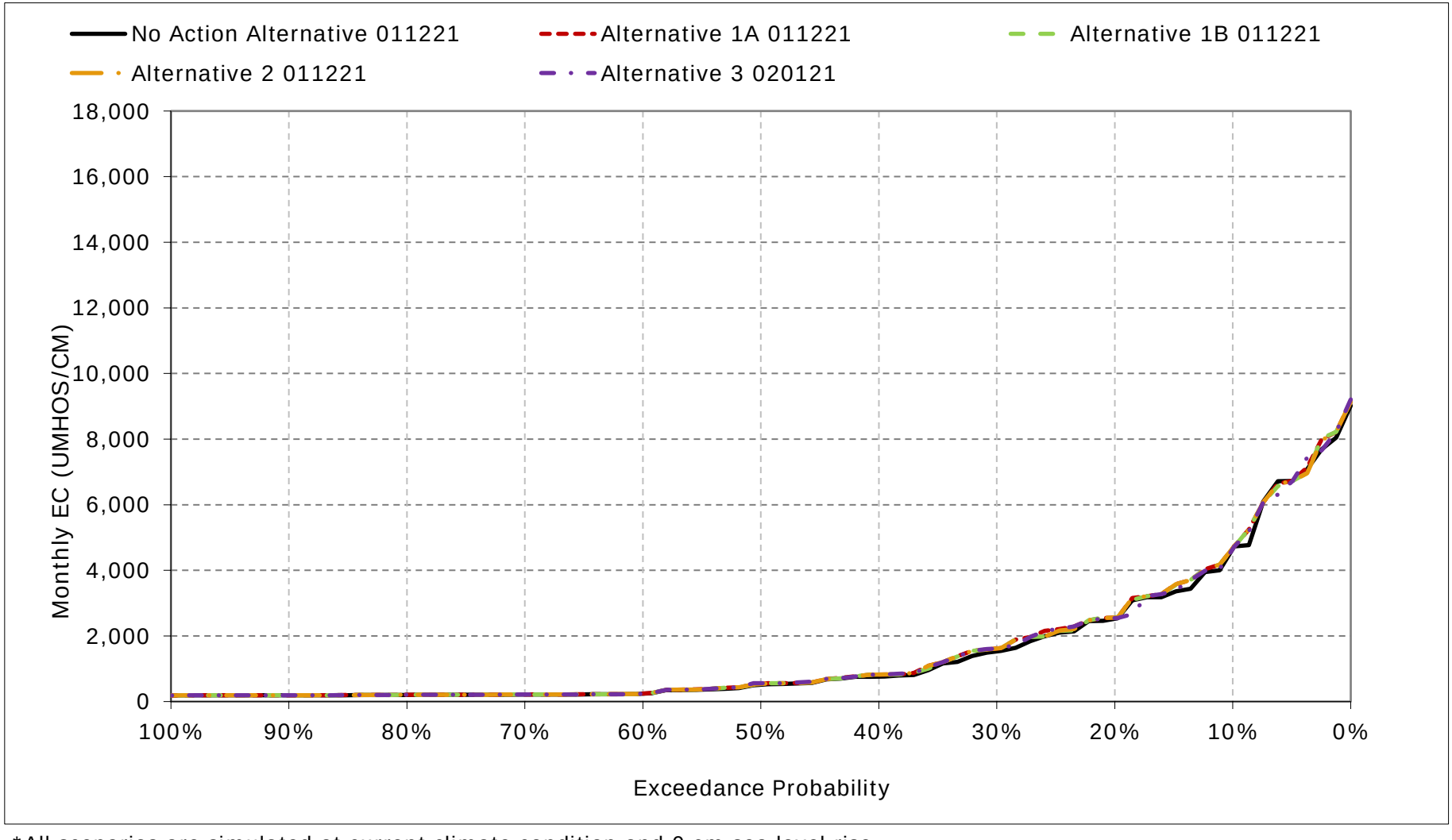
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-7. Sacramento River at Mallard Slough Salinity, January EC



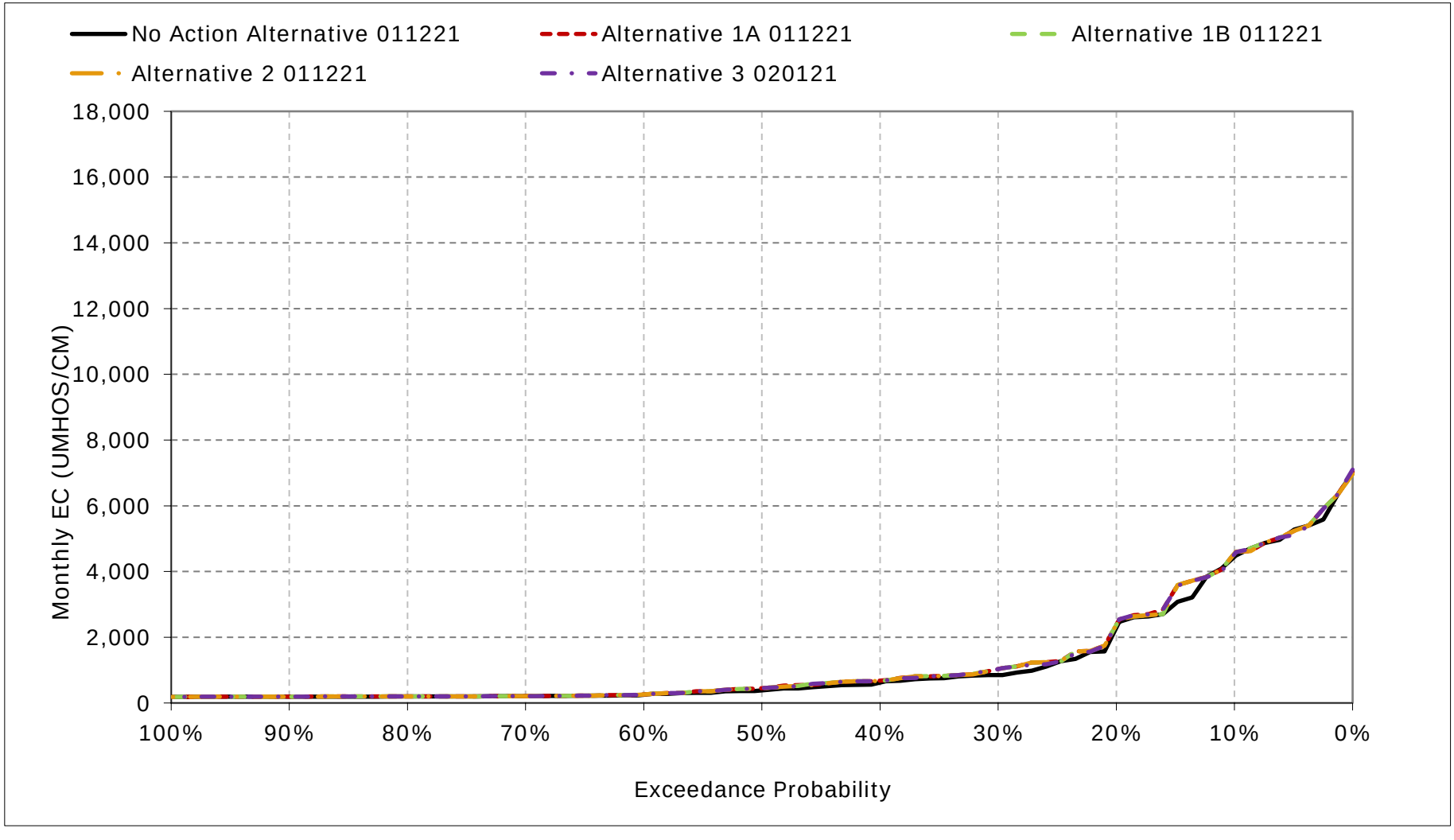
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-8. Sacramento River at Mallard Slough Salinity, February EC



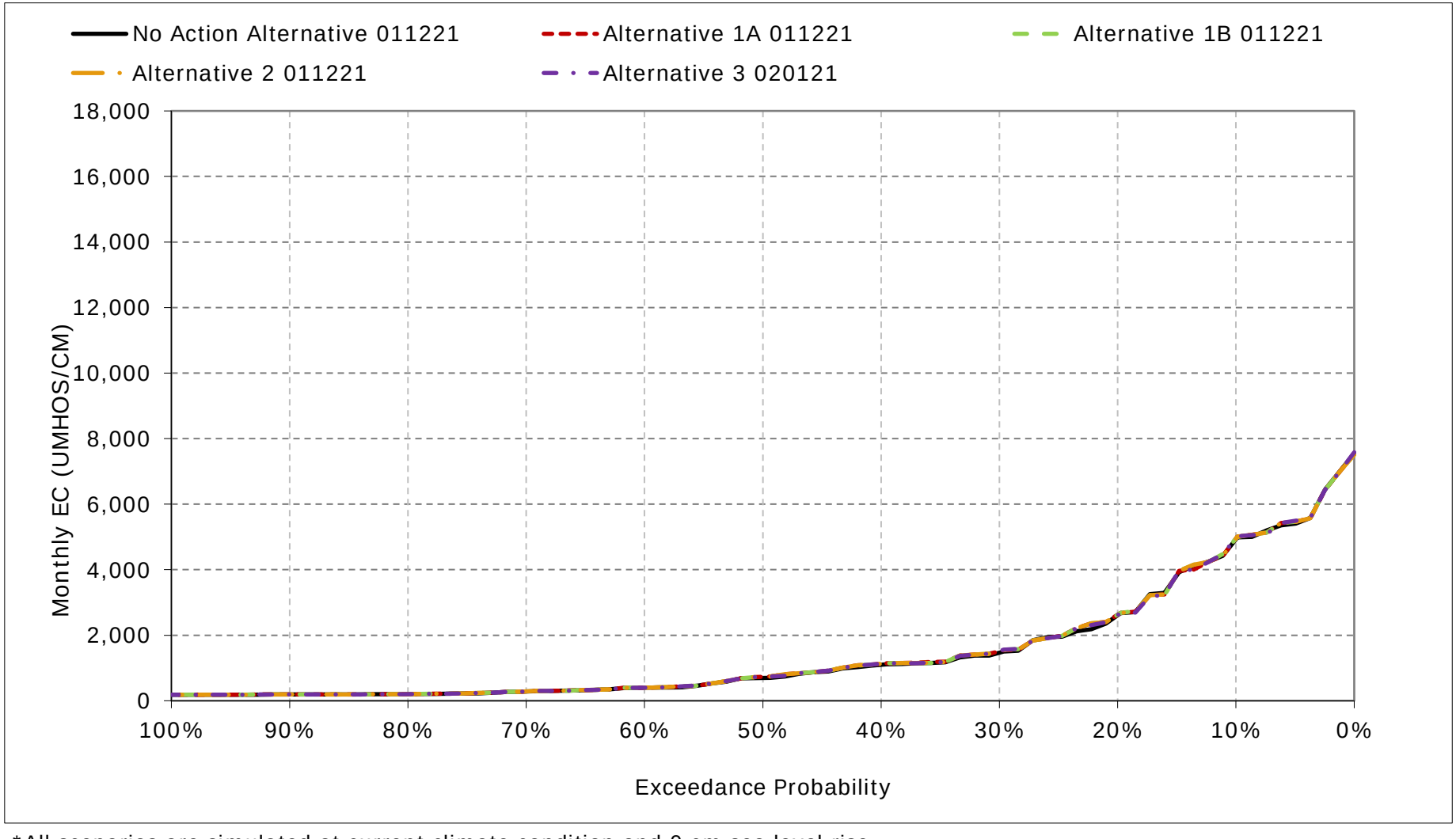
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-9. Sacramento River at Mallard Slough Salinity, March EC



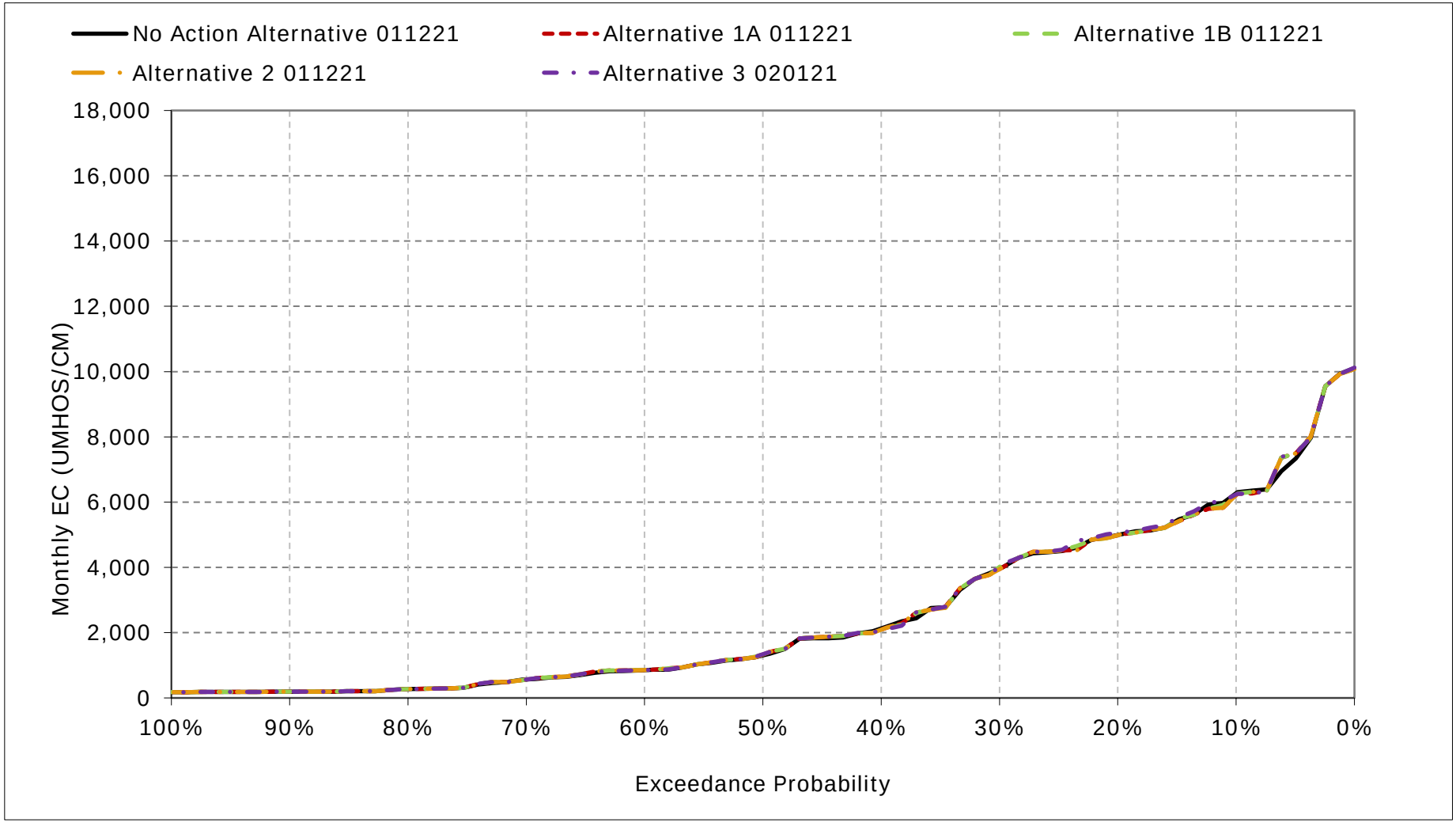
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-10. Sacramento River at Mallard Slough Salinity, April EC



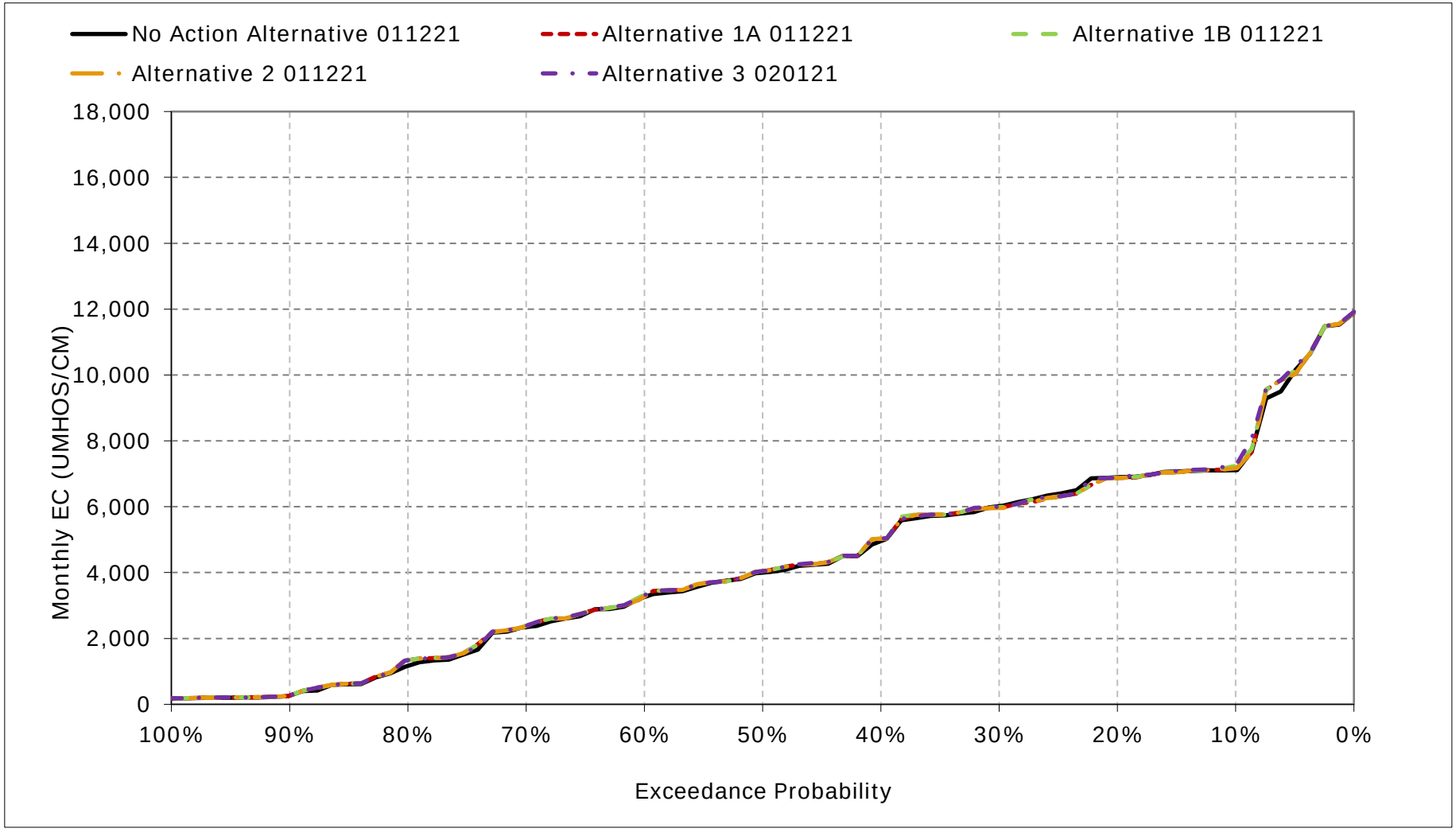
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-11. Sacramento River at Mallard Slough Salinity, May EC



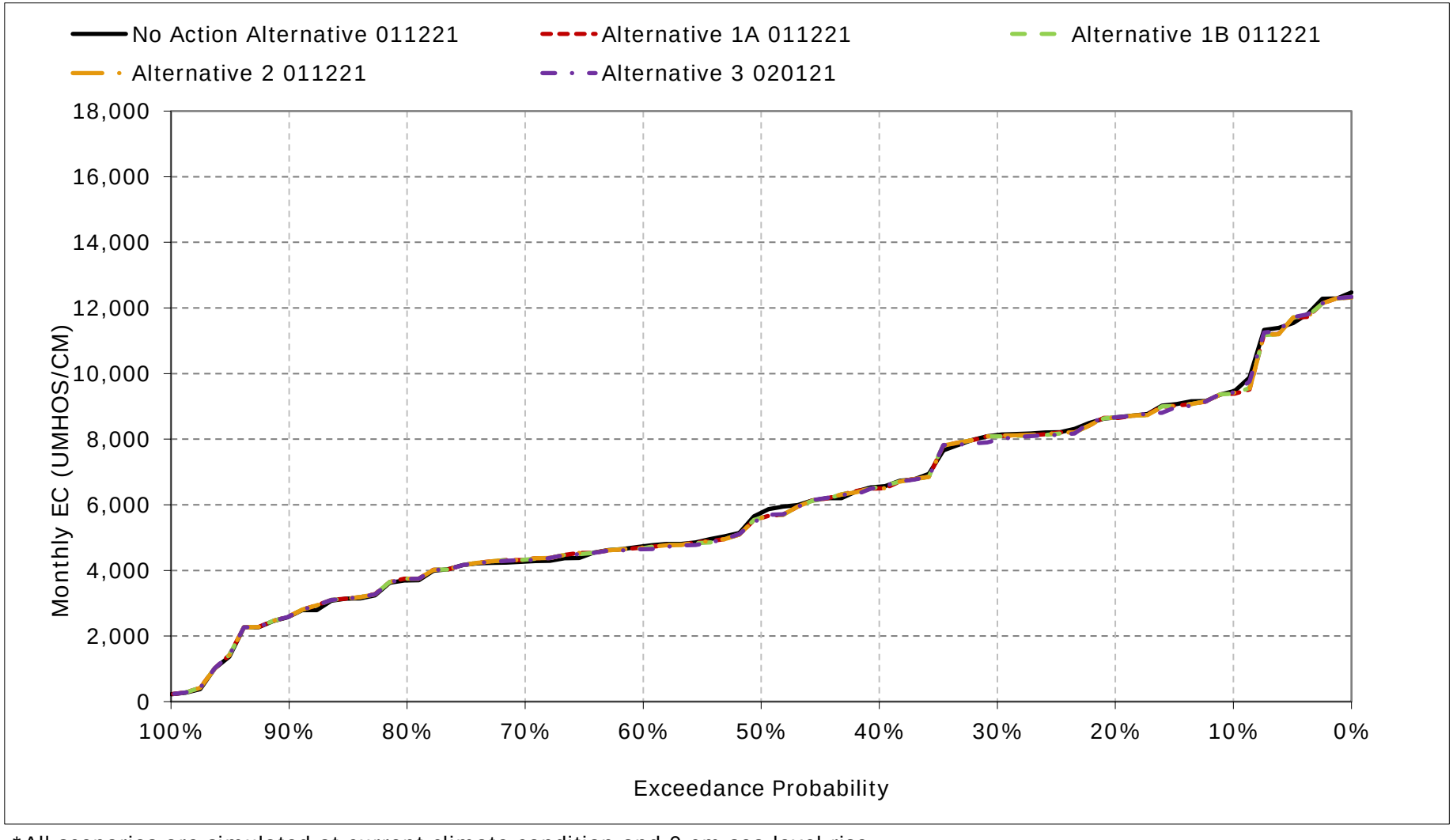
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-12. Sacramento River at Mallard Slough Salinity, June EC



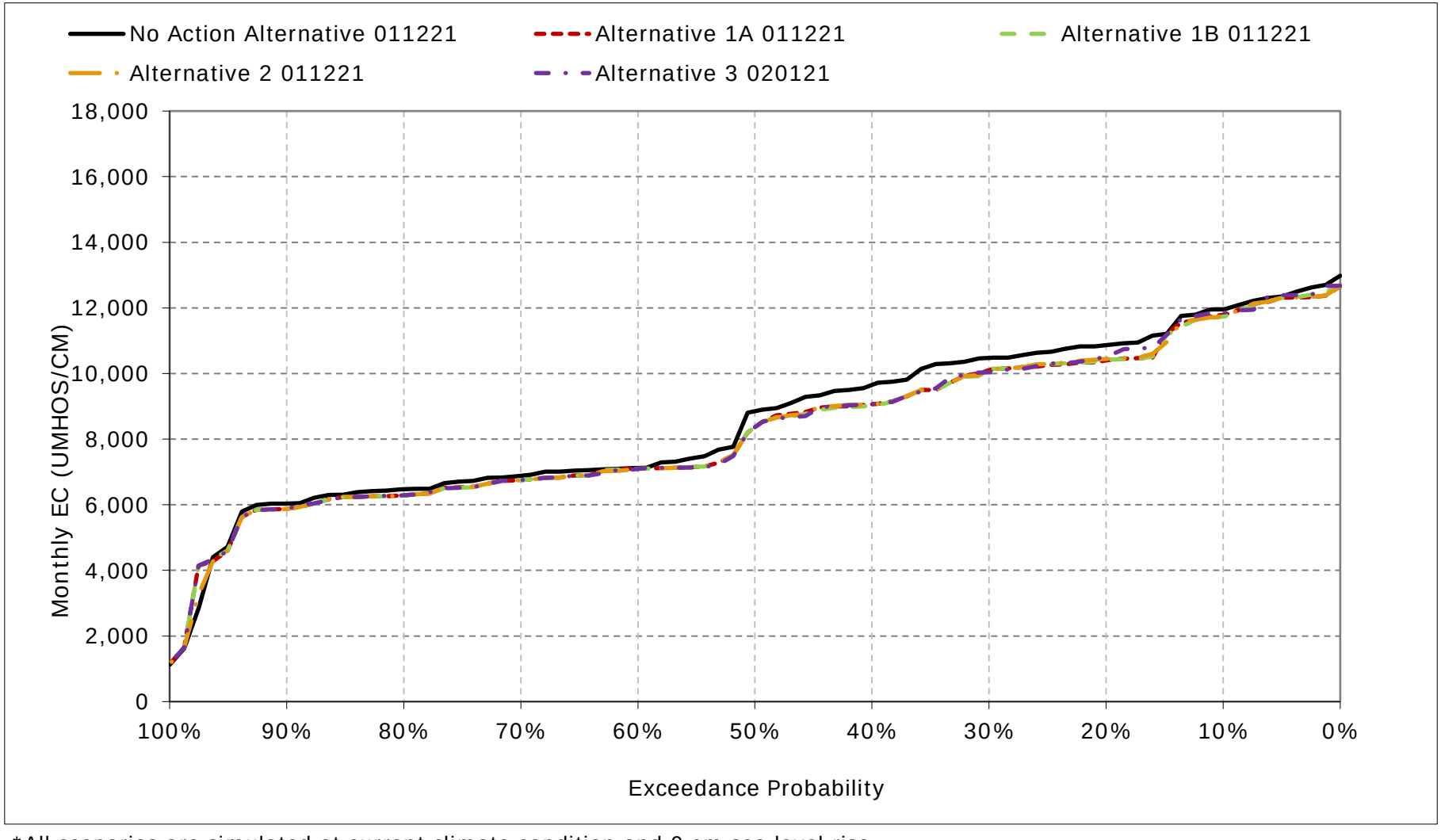
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-13. Sacramento River at Mallard Slough Salinity, July EC



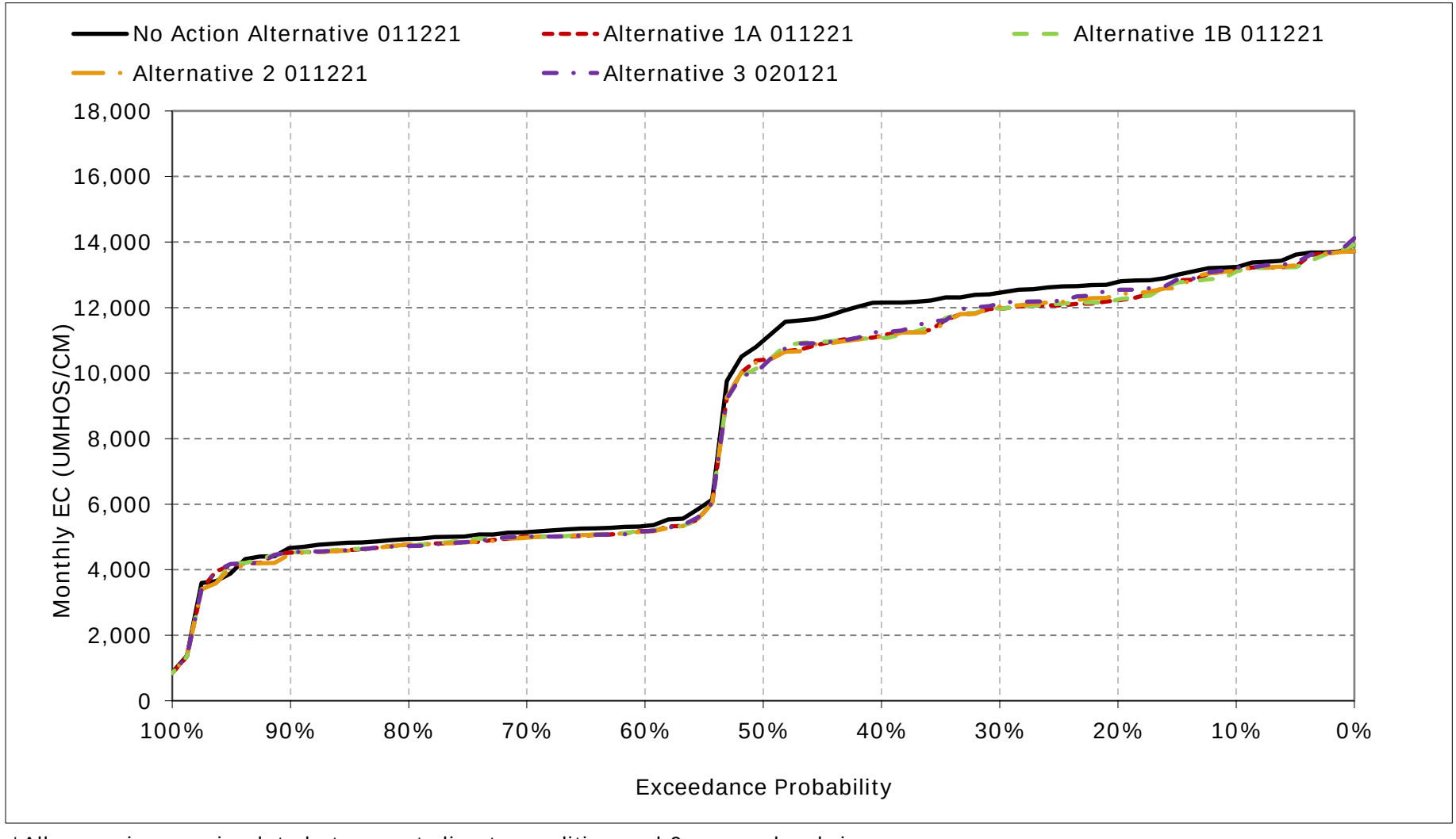
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-14. Sacramento River at Mallard Slough Salinity, August EC



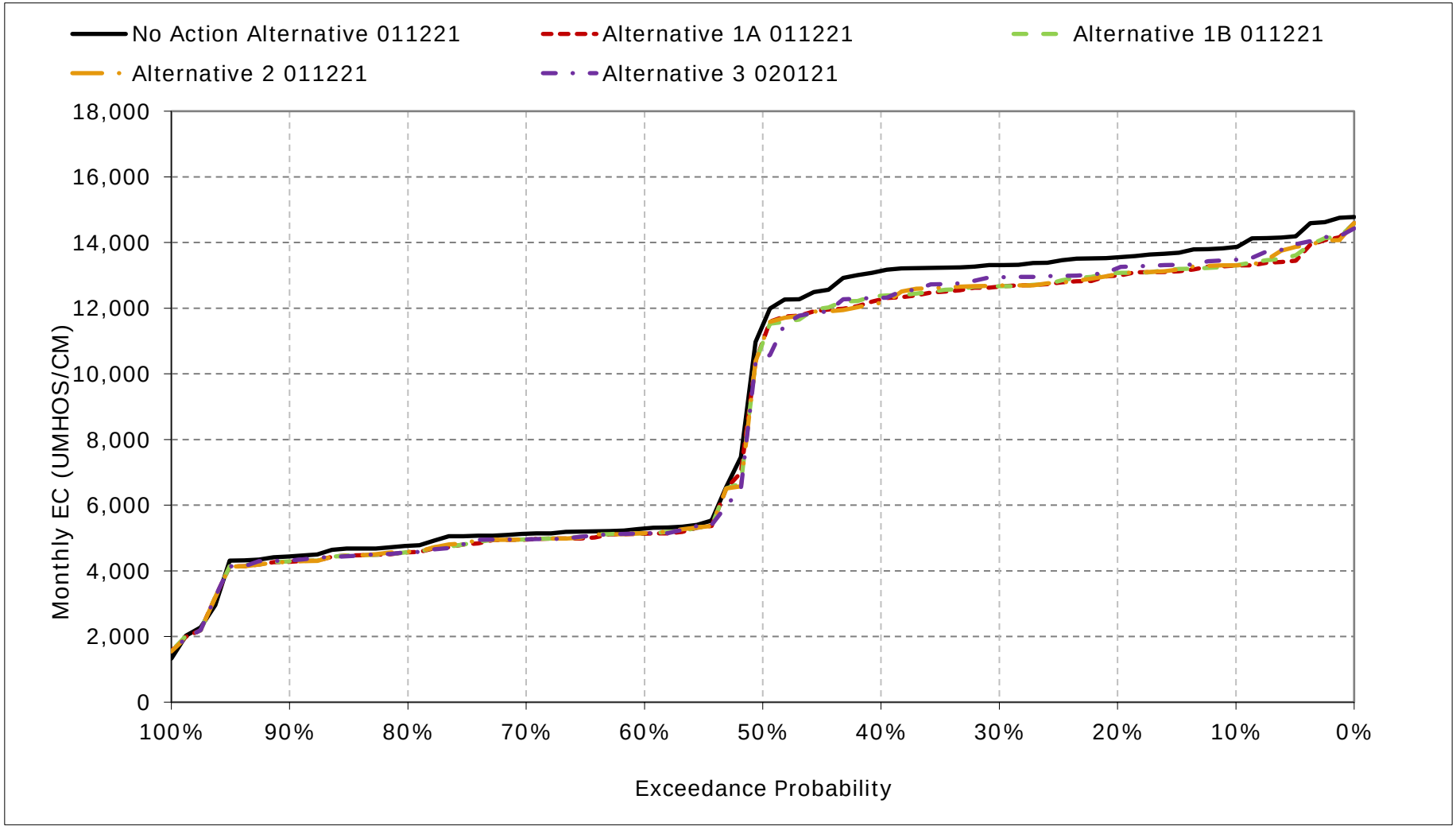
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-15. Sacramento River at Mallard Slough Salinity, September EC



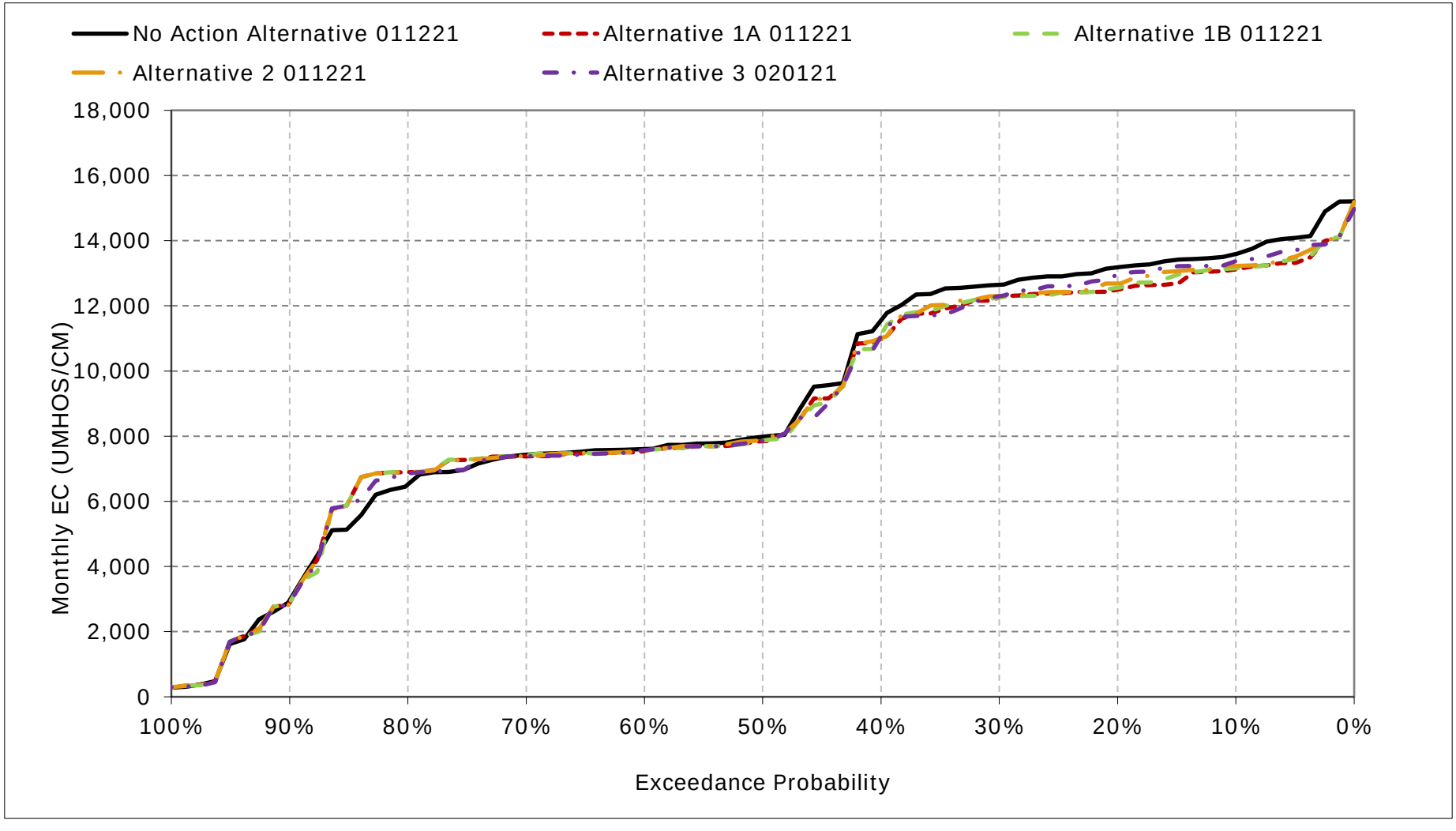
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-16. Sacramento River at Mallard Slough Salinity, October EC



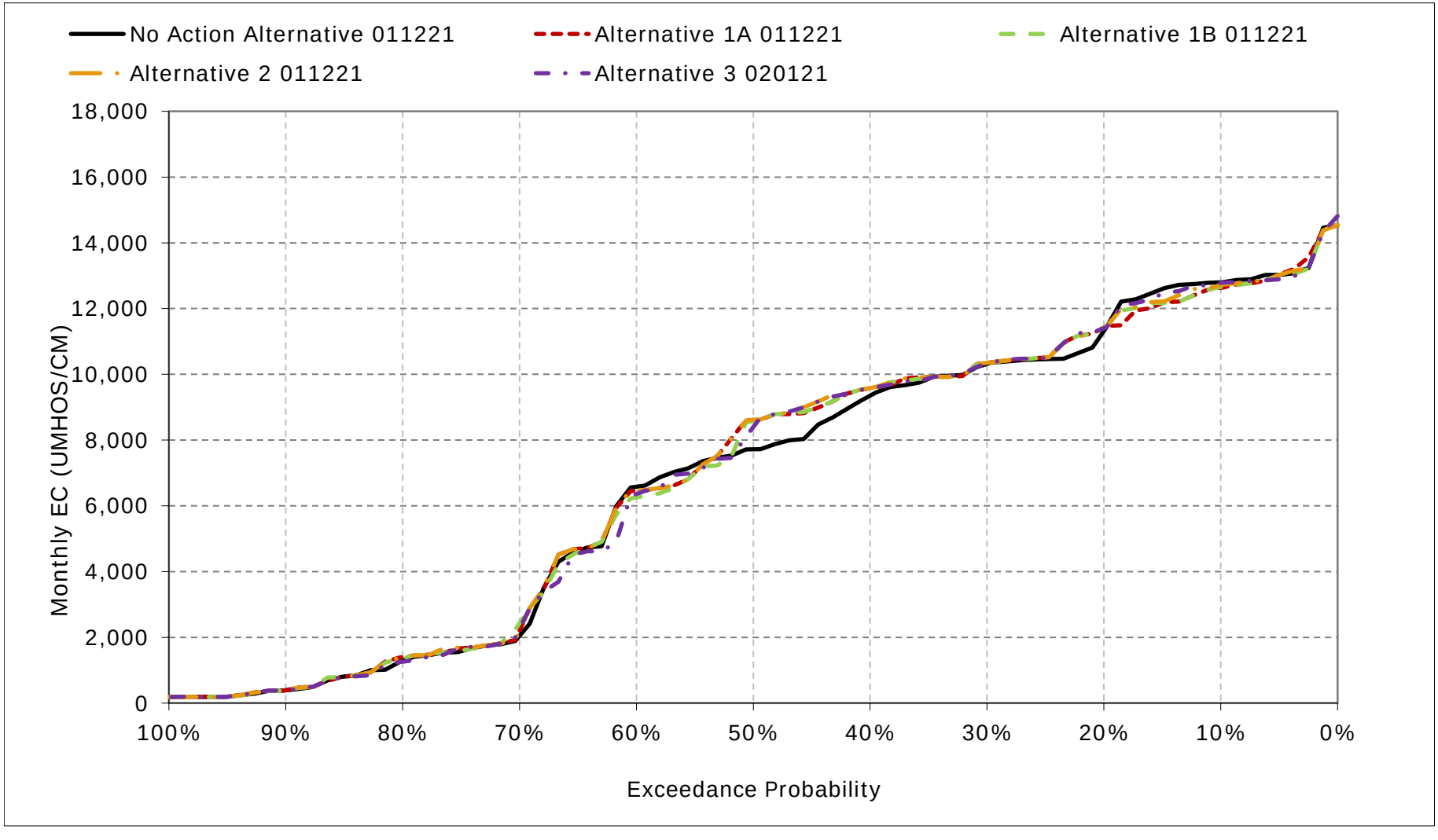
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-17. Sacramento River at Mallard Slough Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-7-18. Sacramento River at Mallard Slough Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-8-1a. Chipps Island North Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,799	14,482	13,751	10,669	5,476	5,208	5,698	7,051	7,971	10,388	12,907	14,205
20%	14,475	14,108	12,332	9,099	3,005	2,800	3,173	5,757	7,756	9,587	11,801	13,710
30%	14,230	13,610	11,250	7,283	1,874	1,073	1,807	4,627	6,793	9,038	11,400	13,403
40%	14,077	12,534	10,305	4,201	959	794	1,395	2,599	5,724	7,410	10,558	13,097
50%	12,427	8,889	8,720	2,723	601	472	889	1,606	4,599	6,605	9,715	11,967
60%	6,070	8,548	7,501	1,417	260	281	497	1,078	3,871	5,516	7,953	6,159
70%	5,909	8,332	2,467	418	218	213	325	725	2,777	4,979	7,724	5,966
80%	5,521	7,403	1,526	217	205	200	209	325	1,456	4,340	7,302	5,755
90%	5,191	3,554	478	196	193	194	191	194	302	3,053	6,842	5,434
Long Term												
Full Simulation Period[a]	10,031	9,970	7,591	4,190	1,805	1,460	1,800	2,925	4,827	6,797	9,429	9,776
Water Year Types[b]												
Wet (32%)	5,272	6,575	6,048	731	240	263	362	711	1,756	3,655	6,737	5,365
Above Normal (15%)	5,990	7,943	6,726	2,429	532	272	482	1,024	3,335	4,964	7,517	5,891
Below Normal (17%)	12,436	10,227	6,922	4,486	1,128	1,086	1,306	2,319	4,798	6,886	10,015	12,547
Dry (22%)	14,460	12,787	8,122	6,806	3,078	2,063	2,600	4,416	6,868	9,219	11,597	13,486
Critical (15%)	14,931	14,828	11,782	9,175	5,349	4,775	5,606	8,090	9,946	11,701	13,239	14,422

Table 6B1-8-1b. Chipps Island North Channel, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,257	14,021	13,563	10,489	5,493	5,290	5,705	6,985	8,037	10,321	12,797	14,087
20%	13,942	13,423	12,406	9,405	3,077	2,884	3,191	5,752	7,736	9,539	11,350	13,182
30%	13,631	13,224	11,287	7,733	1,983	1,309	1,864	4,613	6,774	8,989	11,050	12,955
40%	13,217	11,995	10,538	4,337	1,012	881	1,410	2,543	5,796	7,356	9,976	12,083
50%	11,950	8,750	9,583	2,839	626	558	933	1,635	4,648	6,441	9,231	11,373
60%	5,919	8,507	7,408	1,507	266	304	496	1,091	3,894	5,476	7,933	6,004
70%	5,735	8,268	2,691	436	219	216	327	723	2,813	5,050	7,598	5,826
80%	5,320	7,784	1,682	221	208	201	211	325	1,658	4,395	7,137	5,561
90%	5,034	3,472	486	198	193	195	194	194	305	3,060	6,690	5,308
Long Term												
Full Simulation Period[a]	9,636	9,766	7,661	4,286	1,862	1,527	1,815	2,931	4,857	6,785	9,188	9,443
Water Year Types[b]												
Wet (32%)	5,123	6,662	6,206	744	243	272	365	717	1,785	3,677	6,659	5,226
Above Normal (15%)	5,850	7,908	6,829	2,572	553	299	491	1,038	3,384	4,981	7,403	5,711
Below Normal (17%)	11,987	10,090	6,931	4,560	1,188	1,188	1,334	2,336	4,864	6,850	9,565	11,913
Dry (22%)	13,870	12,291	7,999	6,959	3,156	2,159	2,624	4,400	6,853	9,182	11,154	12,875
Critical (15%)	14,108	14,186	11,987	9,345	5,528	4,919	5,630	8,116	9,983	11,649	13,062	14,280

Table 6B1-8-1c. Chipps Island North Channel, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-542	-461	-188	-179	17	83	8	-66	67	-67	-110	-118
20%	-533	-685	74	306	72	84	17	-5	-20	-48	-451	-528
30%	-599	-386	36	450	109	236	57	-15	-19	-49	-351	-448
40%	-860	-539	233	135	53	87	16	-56	72	-54	-582	-1,014
50%	-477	-139	863	116	26	86	44	29	48	-164	-484	-593
60%	-151	-42	-93	90	6	23	-1	13	23	-40	-20	-155
70%	-173	-64	224	18	1	4	2	-2	36	71	-126	-140
80%	-201	380	155	4	3	1	2	0	202	56	-165	-194
90%	-157	-82	8	2	0	1	2	0	3	7	-152	-125
Long Term												
Full Simulation Period[a]	-394	-204	70	96	57	67	16	7	30	-12	-242	-334
Water Year Types[b]												
Wet (32%)	-149	87	158	13	2	9	3	5	29	21	-78	-139
Above Normal (15%)	-140	-35	104	142	21	27	9	14	50	17	-114	-180
Below Normal (17%)	-449	-137	9	74	60	102	28	17	66	-35	-450	-634
Dry (22%)	-590	-496	-123	152	78	96	24	-16	-14	-36	-442	-611
Critical (15%)	-823	-642	204	170	179	145	24	26	37	-52	-177	-143

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-8-2a. Chipps Island North Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,799	14,482	13,751	10,669	5,476	5,208	5,698	7,051	7,971	10,388	12,907	14,205
20%	14,475	14,108	12,332	9,099	3,005	2,800	3,173	5,757	7,756	9,587	11,801	13,710
30%	14,230	13,610	11,250	7,283	1,874	1,073	1,807	4,627	6,793	9,038	11,400	13,403
40%	14,077	12,534	10,305	4,201	959	794	1,395	2,599	5,724	7,410	10,558	13,097
50%	12,427	8,889	8,720	2,723	601	472	889	1,606	4,599	6,605	9,715	11,967
60%	6,070	8,548	7,501	1,417	260	281	497	1,078	3,871	5,516	7,953	6,159
70%	5,909	8,332	2,467	418	218	213	325	725	2,777	4,979	7,724	5,966
80%	5,521	7,403	1,526	217	205	200	209	325	1,456	4,340	7,302	5,755
90%	5,191	3,554	478	196	193	194	191	194	302	3,053	6,842	5,434
Long Term												
Full Simulation Period[a]	10,031	9,970	7,591	4,190	1,805	1,460	1,800	2,925	4,827	6,797	9,429	9,776
Water Year Types[b]												
Wet (32%)	5,272	6,575	6,048	731	240	263	362	711	1,756	3,655	6,737	5,365
Above Normal (15%)	5,990	7,943	6,726	2,429	532	272	482	1,024	3,335	4,964	7,517	5,891
Below Normal (17%)	12,436	10,227	6,922	4,486	1,128	1,086	1,306	2,319	4,798	6,886	10,015	12,547
Dry (22%)	14,460	12,787	8,122	6,806	3,078	2,063	2,600	4,416	6,868	9,219	11,597	13,486
Critical (15%)	14,931	14,828	11,782	9,175	5,349	4,775	5,606	8,090	9,946	11,701	13,239	14,422

Table 6B1-8-2b. Chipps Island North Channel, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,252	14,046	13,589	10,559	5,486	5,319	5,711	7,039	8,090	10,320	12,699	14,066
20%	13,997	13,490	12,421	9,403	3,083	2,883	3,190	5,749	7,735	9,580	11,351	13,204
30%	13,647	13,163	11,284	7,572	1,981	1,309	1,863	4,683	6,807	8,953	11,045	12,963
40%	13,334	12,134	10,533	4,298	1,012	877	1,410	2,539	5,797	7,402	9,946	12,046
50%	11,905	8,769	9,554	2,841	620	557	933	1,645	4,647	6,445	9,234	11,261
60%	5,946	8,487	7,169	1,495	265	304	496	1,091	3,936	5,456	7,932	6,016
70%	5,745	8,298	2,998	436	219	217	327	723	2,813	5,046	7,598	5,797
80%	5,319	7,787	1,646	220	208	201	210	325	1,655	4,395	7,137	5,554
90%	5,053	3,471	484	198	193	195	194	195	305	3,059	6,691	5,308
Long Term												
Full Simulation Period[a]	9,657	9,775	7,635	4,273	1,853	1,523	1,818	2,936	4,864	6,783	9,182	9,442
Water Year Types[b]												
Wet (32%)	5,128	6,671	6,197	746	243	272	365	717	1,785	3,677	6,660	5,221
Above Normal (15%)	5,878	7,916	6,778	2,566	547	298	490	1,040	3,384	4,978	7,406	5,737
Below Normal (17%)	11,953	9,961	6,865	4,552	1,186	1,187	1,333	2,332	4,867	6,839	9,534	11,877
Dry (22%)	13,933	12,387	7,987	6,922	3,143	2,156	2,626	4,415	6,879	9,184	11,153	12,920
Critical (15%)	14,159	14,222	11,979	9,325	5,488	4,903	5,643	8,124	9,991	11,651	13,056	14,235

Table 6B1-8-2c. Chipps Island North Channel, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-548	-436	-162	-109	10	111	13	-12	119	-68	-208	-140
20%	-477	-618	89	304	79	84	17	-8	-21	-7	-450	-506
30%	-583	-447	34	289	107	236	56	55	14	-86	-355	-440
40%	-743	-400	229	97	53	83	16	-60	73	-8	-612	-1,051
50%	-521	-120	833	118	19	85	44	39	48	-159	-480	-706
60%	-124	-61	-332	79	5	23	-1	13	65	-60	-21	-144
70%	-163	-35	531	18	1	4	2	-2	36	67	-126	-168
80%	-202	383	120	3	2	1	1	0	199	55	-165	-201
90%	-137	-83	6	2	0	1	2	1	3	6	-151	-126
Long Term												
Full Simulation Period[a]	-373	-196	44	84	47	63	18	11	37	-14	-247	-334
Water Year Types[b]												
Wet (32%)	-144	96	148	16	2	9	3	5	29	21	-77	-144
Above Normal (15%)	-112	-27	53	136	15	26	8	16	49	15	-111	-154
Below Normal (17%)	-483	-266	-57	66	58	101	27	13	69	-47	-481	-670
Dry (22%)	-527	-401	-135	116	65	93	26	-1	11	-34	-444	-566
Critical (15%)	-772	-606	197	150	139	129	37	34	45	-51	-183	-187

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-8-3a. Chipps Island North Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,799	14,482	13,751	10,669	5,476	5,208	5,698	7,051	7,971	10,388	12,907	14,205
20%	14,475	14,108	12,332	9,099	3,005	2,800	3,173	5,757	7,756	9,587	11,801	13,710
30%	14,230	13,610	11,250	7,283	1,874	1,073	1,807	4,627	6,793	9,038	11,400	13,403
40%	14,077	12,534	10,305	4,201	959	794	1,395	2,599	5,724	7,410	10,558	13,097
50%	12,427	8,889	8,720	2,723	601	472	889	1,606	4,599	6,605	9,715	11,967
60%	6,070	8,548	7,501	1,417	260	281	497	1,078	3,871	5,516	7,953	6,159
70%	5,909	8,332	2,467	418	218	213	325	725	2,777	4,979	7,724	5,966
80%	5,521	7,403	1,526	217	205	200	209	325	1,456	4,340	7,302	5,755
90%	5,191	3,554	478	196	193	194	191	194	302	3,053	6,842	5,434
Long Term												
Full Simulation Period[a]	10,031	9,970	7,591	4,190	1,805	1,460	1,800	2,925	4,827	6,797	9,429	9,776
Water Year Types[b]												
Wet (32%)	5,272	6,575	6,048	731	240	263	362	711	1,756	3,655	6,737	5,365
Above Normal (15%)	5,990	7,943	6,726	2,429	532	272	482	1,024	3,335	4,964	7,517	5,891
Below Normal (17%)	12,436	10,227	6,922	4,486	1,128	1,086	1,306	2,319	4,798	6,886	10,015	12,547
Dry (22%)	14,460	12,787	8,122	6,806	3,078	2,063	2,600	4,416	6,868	9,219	11,597	13,486
Critical (15%)	14,931	14,828	11,782	9,175	5,349	4,775	5,606	8,090	9,946	11,701	13,239	14,422

Table 6B1-8-3b. Chipps Island North Channel, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,258	14,150	13,612	10,492	5,497	5,290	5,705	7,034	8,035	10,341	12,720	14,087
20%	13,987	13,615	12,420	9,403	3,077	2,884	3,191	5,752	7,736	9,539	11,389	13,291
30%	13,645	13,254	11,287	7,730	1,983	1,309	1,864	4,613	6,772	9,002	11,041	13,014
40%	13,127	12,018	10,536	4,337	1,012	877	1,410	2,543	5,797	7,356	9,981	12,054
50%	11,946	8,814	9,581	2,836	626	558	933	1,635	4,647	6,445	9,234	11,357
60%	5,949	8,498	7,420	1,507	266	304	496	1,091	3,894	5,475	7,932	5,982
70%	5,747	8,292	2,691	436	219	217	327	723	2,814	5,051	7,598	5,787
80%	5,342	7,783	1,677	221	208	201	211	325	1,655	4,395	7,137	5,560
90%	5,020	3,464	486	198	193	195	194	194	305	3,060	6,690	5,229
Long Term												
Full Simulation Period[a]	9,658	9,815	7,683	4,289	1,856	1,522	1,817	2,932	4,857	6,785	9,177	9,437
Water Year Types[b]												
Wet (32%)	5,149	6,679	6,207	743	242	272	365	717	1,785	3,676	6,624	5,185
Above Normal (15%)	5,847	7,904	6,829	2,572	552	298	491	1,039	3,385	4,981	7,397	5,707
Below Normal (17%)	11,928	10,076	6,927	4,592	1,189	1,187	1,334	2,334	4,862	6,848	9,562	11,893
Dry (22%)	13,918	12,470	8,119	6,957	3,155	2,155	2,621	4,400	6,855	9,184	11,164	12,918
Critical (15%)	14,200	14,235	11,967	9,330	5,485	4,896	5,643	8,121	9,985	11,651	13,061	14,293

Table 6B1-8-3c. Chipps Island North Channel, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-542	-332	-139	-176	21	83	8	-17	64	-47	-187	-118
20%	-488	-493	88	304	72	84	17	-5	-20	-48	-412	-419
30%	-585	-356	36	447	109	236	57	-15	-21	-36	-359	-389
40%	-949	-516	232	135	53	83	16	-56	73	-53	-577	-1,043
50%	-481	-75	861	113	26	86	44	29	48	-160	-481	-610
60%	-121	-50	-81	90	6	23	-1	13	23	-40	-21	-177
70%	-162	-41	223	18	1	4	2	-2	36	72	-126	-179
80%	-180	380	150	4	3	1	2	0	199	55	-165	-194
90%	-170	-90	7	2	0	1	2	0	3	7	-152	-205
Long Term												
Full Simulation Period[a]	-373	-155	93	99	51	62	17	7	30	-12	-252	-339
Water Year Types[b]												
Wet (32%)	-123	104	159	13	2	9	3	5	29	21	-113	-179
Above Normal (15%)	-144	-39	103	143	20	26	9	15	50	17	-120	-184
Below Normal (17%)	-508	-151	5	106	61	101	28	15	64	-38	-454	-654
Dry (22%)	-542	-318	-3	151	77	92	21	-17	-12	-35	-433	-568
Critical (15%)	-731	-593	185	155	136	122	37	31	39	-50	-178	-129

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-8-4a. Chipps Island North Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,799	14,482	13,751	10,669	5,476	5,208	5,698	7,051	7,971	10,388	12,907	14,205
20%	14,475	14,108	12,332	9,099	3,005	2,800	3,173	5,757	7,756	9,587	11,801	13,710
30%	14,230	13,610	11,250	7,283	1,874	1,073	1,807	4,627	6,793	9,038	11,400	13,403
40%	14,077	12,534	10,305	4,201	959	794	1,395	2,599	5,724	7,410	10,558	13,097
50%	12,427	8,889	8,720	2,723	601	472	889	1,606	4,599	6,605	9,715	11,967
60%	6,070	8,548	7,501	1,417	260	281	497	1,078	3,871	5,516	7,953	6,159
70%	5,909	8,332	2,467	418	218	213	325	725	2,777	4,979	7,724	5,966
80%	5,521	7,403	1,526	217	205	200	209	325	1,456	4,340	7,302	5,755
90%	5,191	3,554	478	196	193	194	191	194	302	3,053	6,842	5,434
Long Term												
Full Simulation Period[a]	10,031	9,970	7,591	4,190	1,805	1,460	1,800	2,925	4,827	6,797	9,429	9,776
Water Year Types[b]												
Wet (32%)	5,272	6,575	6,048	731	240	263	362	711	1,756	3,655	6,737	5,365
Above Normal (15%)	5,990	7,943	6,726	2,429	532	272	482	1,024	3,335	4,964	7,517	5,891
Below Normal (17%)	12,436	10,227	6,922	4,486	1,128	1,086	1,306	2,319	4,798	6,886	10,015	12,547
Dry (22%)	14,460	12,787	8,122	6,806	3,078	2,063	2,600	4,416	6,868	9,219	11,597	13,486
Critical (15%)	14,931	14,828	11,782	9,175	5,349	4,775	5,606	8,090	9,946	11,701	13,239	14,422

Table 6B1-8-4b. Chipps Island North Channel, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,423	14,279	13,710	10,274	5,472	5,299	5,723	7,003	8,154	10,351	12,847	14,189
20%	14,149	13,878	12,406	9,399	3,056	2,893	3,175	5,797	7,744	9,622	11,455	13,491
30%	13,912	13,216	11,262	7,663	1,987	1,308	1,863	4,690	6,813	8,874	11,017	13,055
40%	13,296	12,074	10,536	4,302	1,016	877	1,410	2,521	5,803	7,398	9,981	12,224
50%	11,437	8,825	9,384	2,852	652	559	933	1,644	4,650	6,427	9,230	11,203
60%	5,929	8,463	7,285	1,482	267	304	497	1,082	3,929	5,402	7,927	6,009
70%	5,741	8,281	2,800	436	219	217	327	723	2,814	5,032	7,598	5,826
80%	5,322	7,741	1,556	220	207	201	211	325	1,653	4,394	7,137	5,534
90%	5,070	3,468	482	198	193	195	194	195	305	3,060	6,696	5,310
Long Term												
Full Simulation Period[a]	9,698	9,796	7,638	4,274	1,845	1,522	1,814	2,948	4,877	6,776	9,207	9,493
Water Year Types[b]												
Wet (32%)	5,138	6,665	6,197	729	243	272	365	717	1,784	3,677	6,655	5,238
Above Normal (15%)	5,877	7,880	6,681	2,566	546	298	490	1,040	3,387	4,955	7,401	5,695
Below Normal (17%)	11,812	9,849	6,700	4,722	1,187	1,185	1,330	2,324	4,870	6,828	9,543	11,875
Dry (22%)	14,059	12,531	8,187	6,829	3,074	2,140	2,621	4,464	6,917	9,158	11,218	13,080
Critical (15%)	14,391	14,332	11,987	9,310	5,541	4,919	5,629	8,144	10,016	11,674	13,134	14,354

Table 6B1-8-4c. Chipps Island North Channel, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-376	-203	-41	-395	-4	92	25	-48	184	-37	-60	-16
20%	-325	-229	74	300	52	93	2	40	-12	34	-346	-219
30%	-318	-394	11	380	113	236	56	62	20	-165	-383	-348
40%	-781	-460	231	101	57	83	16	-78	79	-12	-577	-873
50%	-990	-64	663	129	52	87	43	38	51	-177	-485	-764
60%	-141	-85	-216	65	7	23	0	4	58	-114	-27	-151
70%	-168	-52	333	18	1	5	2	-2	37	53	-126	-139
80%	-199	337	29	3	2	1	1	0	197	54	-165	-221
90%	-121	-87	4	2	0	0	2	1	3	7	-146	-124
Long Term												
Full Simulation Period[a]	-333	-174	47	85	40	62	14	23	50	-22	-222	-283
Water Year Types[b]												
Wet (32%)	-134	90	149	-1	2	9	3	5	28	21	-82	-127
Above Normal (15%)	-113	-63	-44	137	15	26	9	16	52	-9	-116	-196
Below Normal (17%)	-624	-377	-222	236	59	99	24	6	73	-57	-472	-672
Dry (22%)	-401	-257	65	23	-4	78	20	48	50	-60	-378	-405
Critical (15%)	-540	-496	205	135	191	144	23	54	70	-27	-105	-68

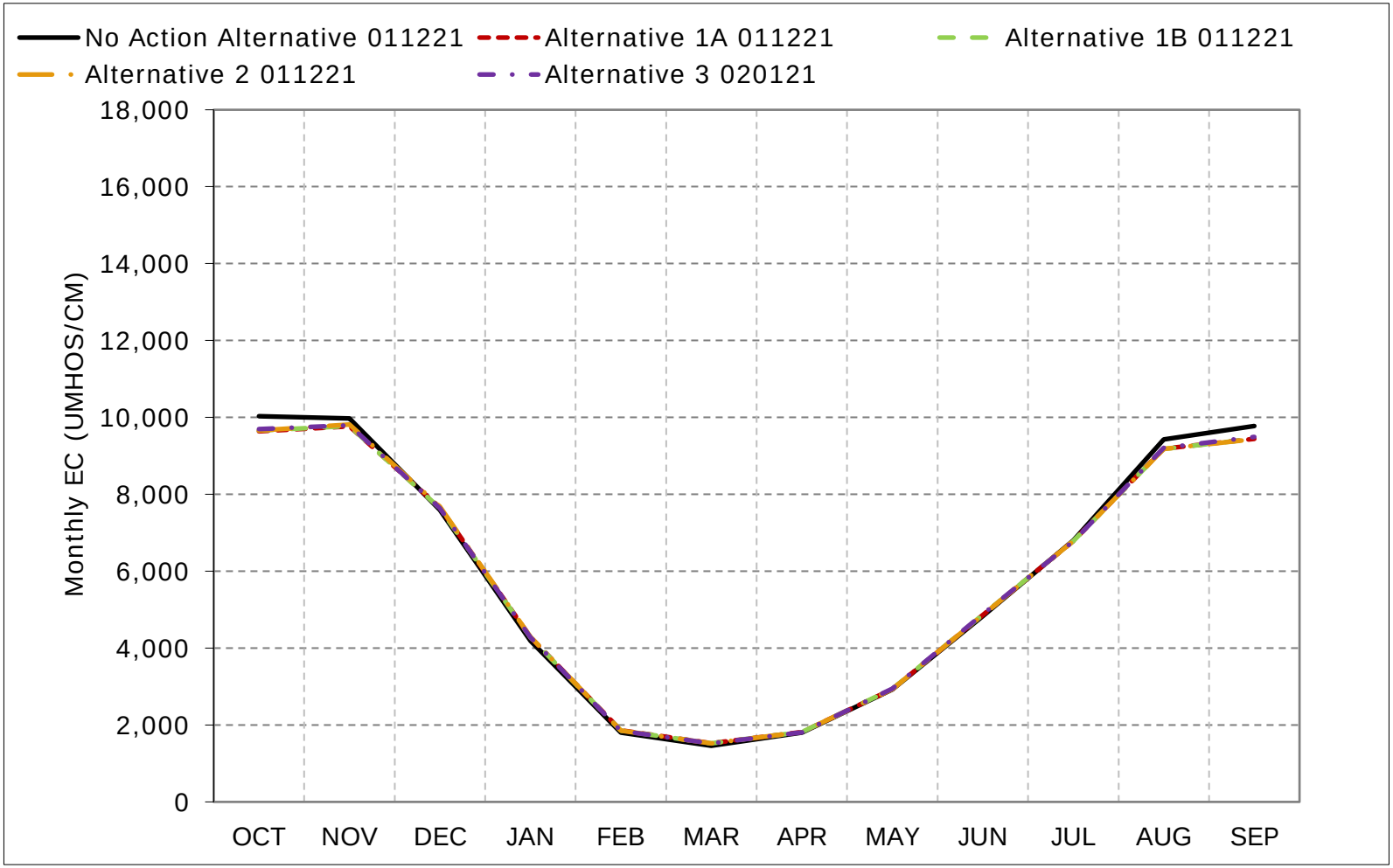
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-1. Chipps Island North Channel, Long-Term Average EC

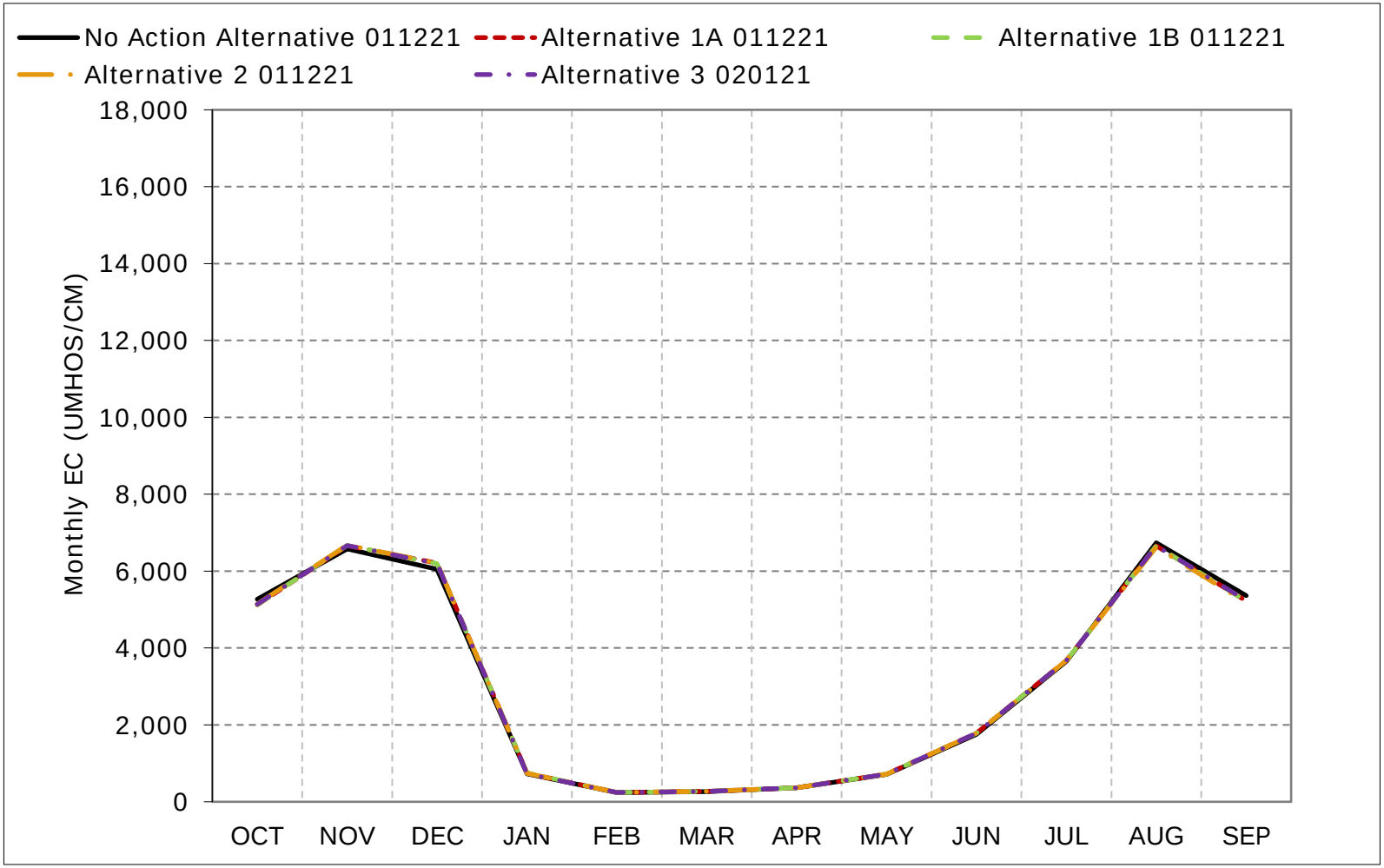


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-2. Chipps Island North Channel, Wet Year Average EC

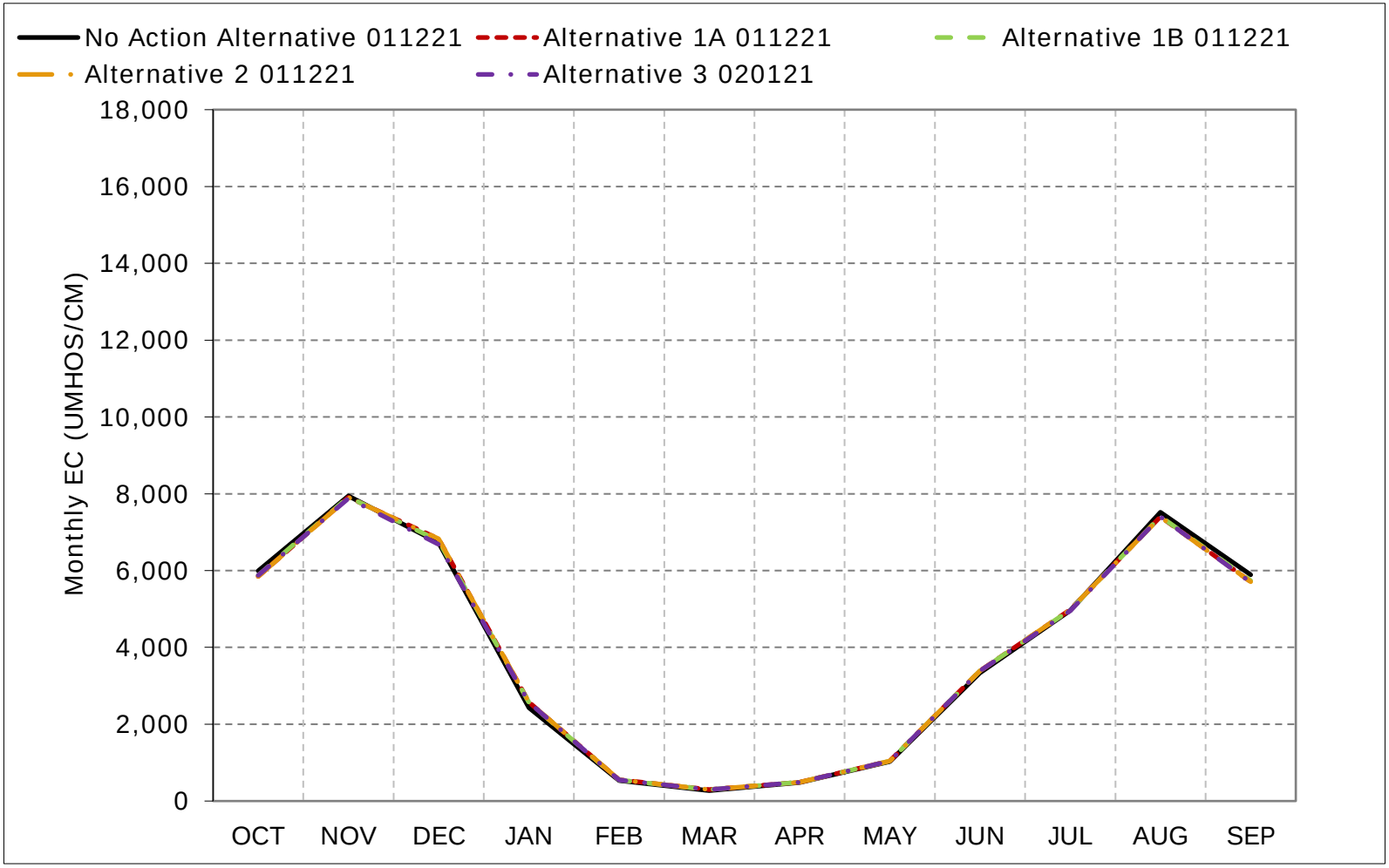


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-3. Chipps Island North Channel, Above Normal Year Average EC

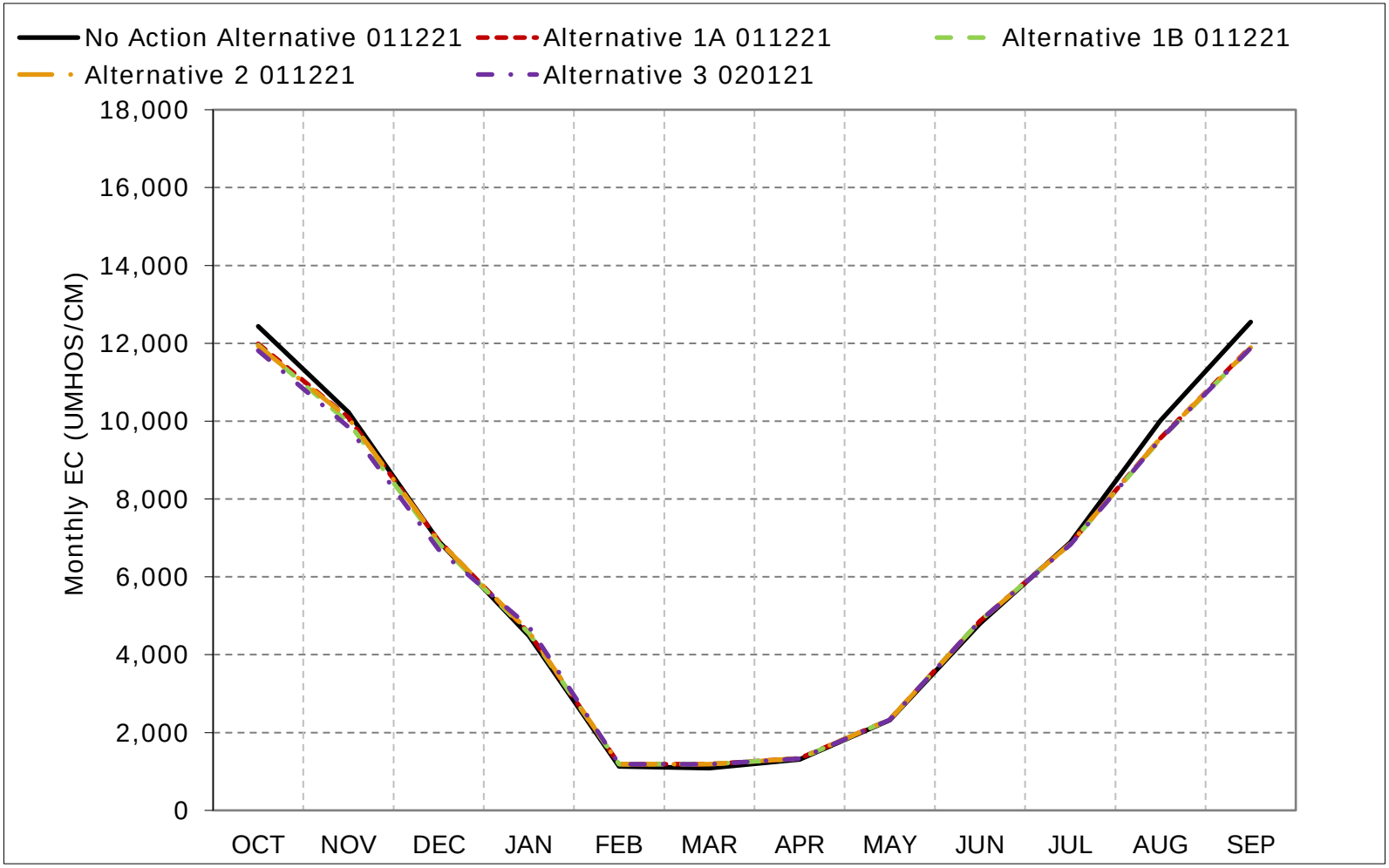


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-4. Chipps Island North Channel, Below Normal Year Average EC

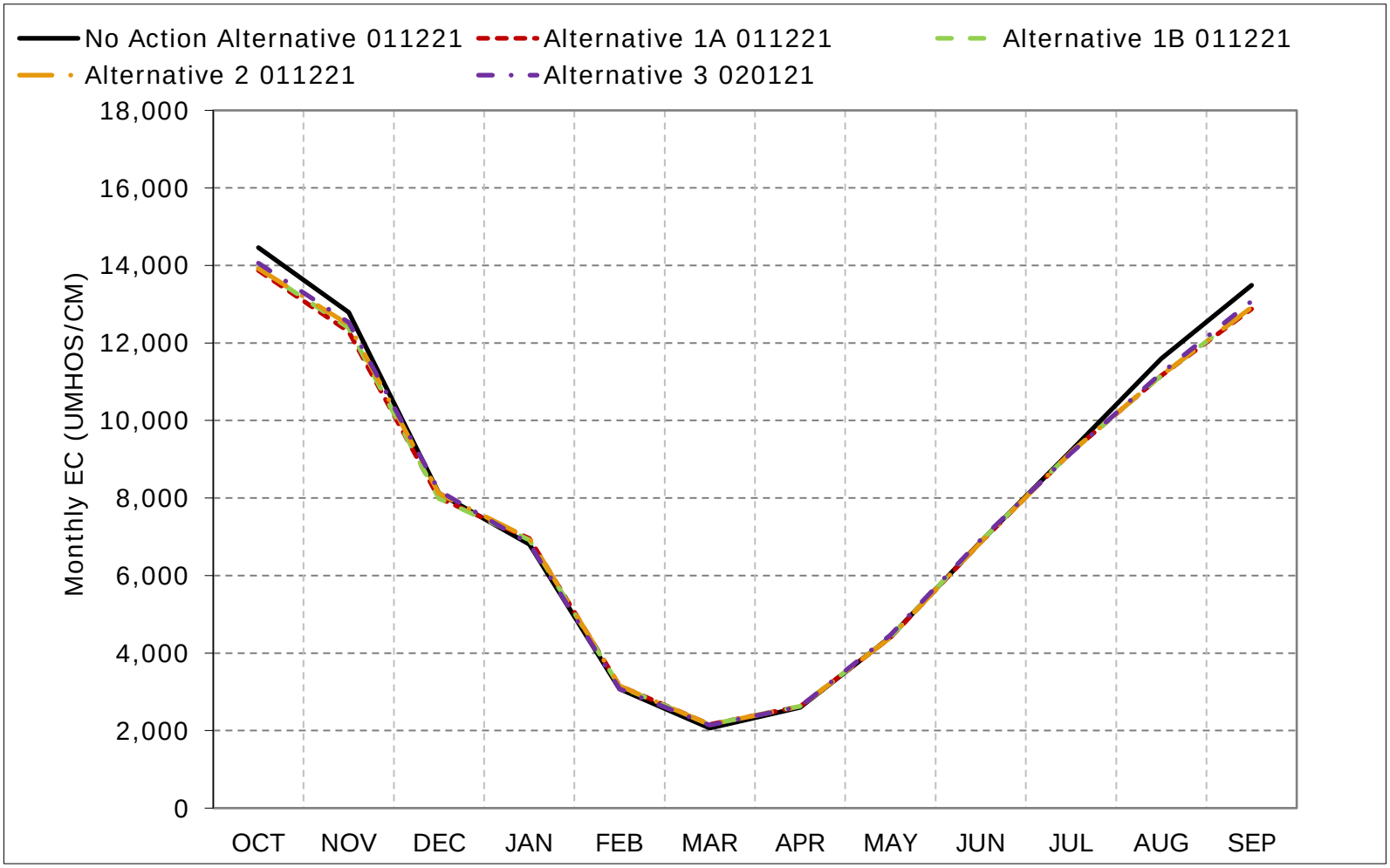


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-5. Chipps Island North Channel, Dry Year Average EC

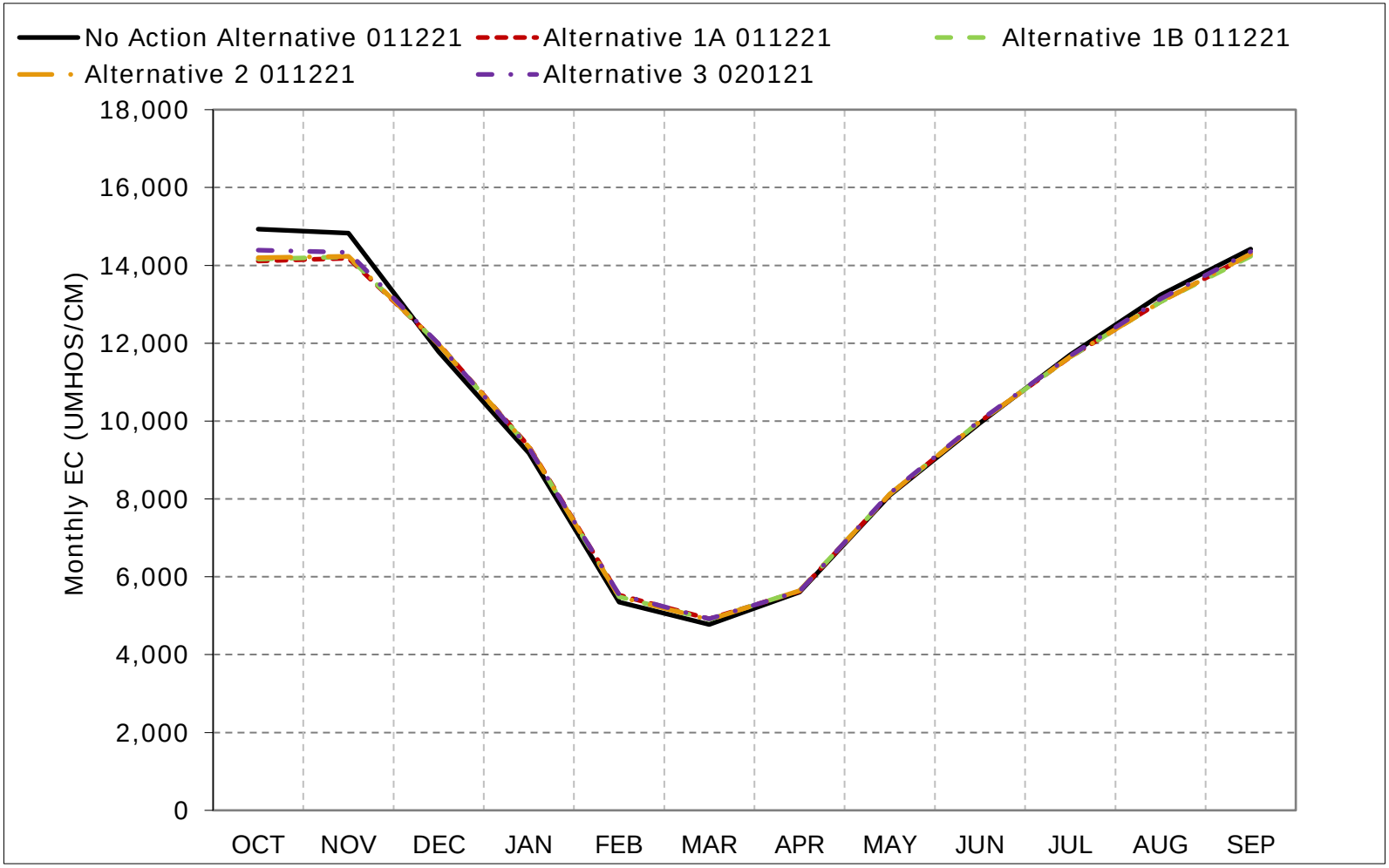


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-6. Chipps Island North Channel, Critical Year Average EC

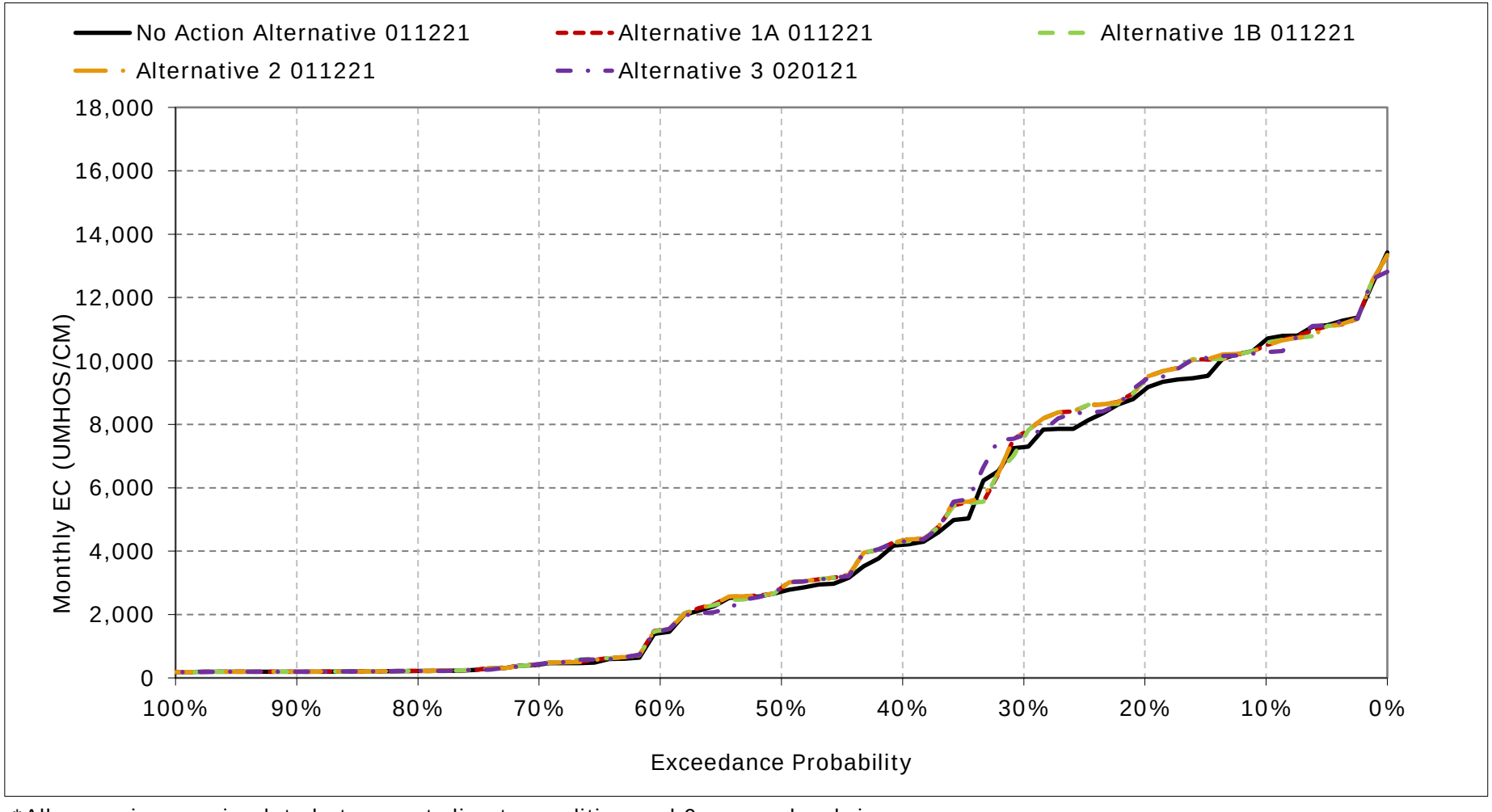


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

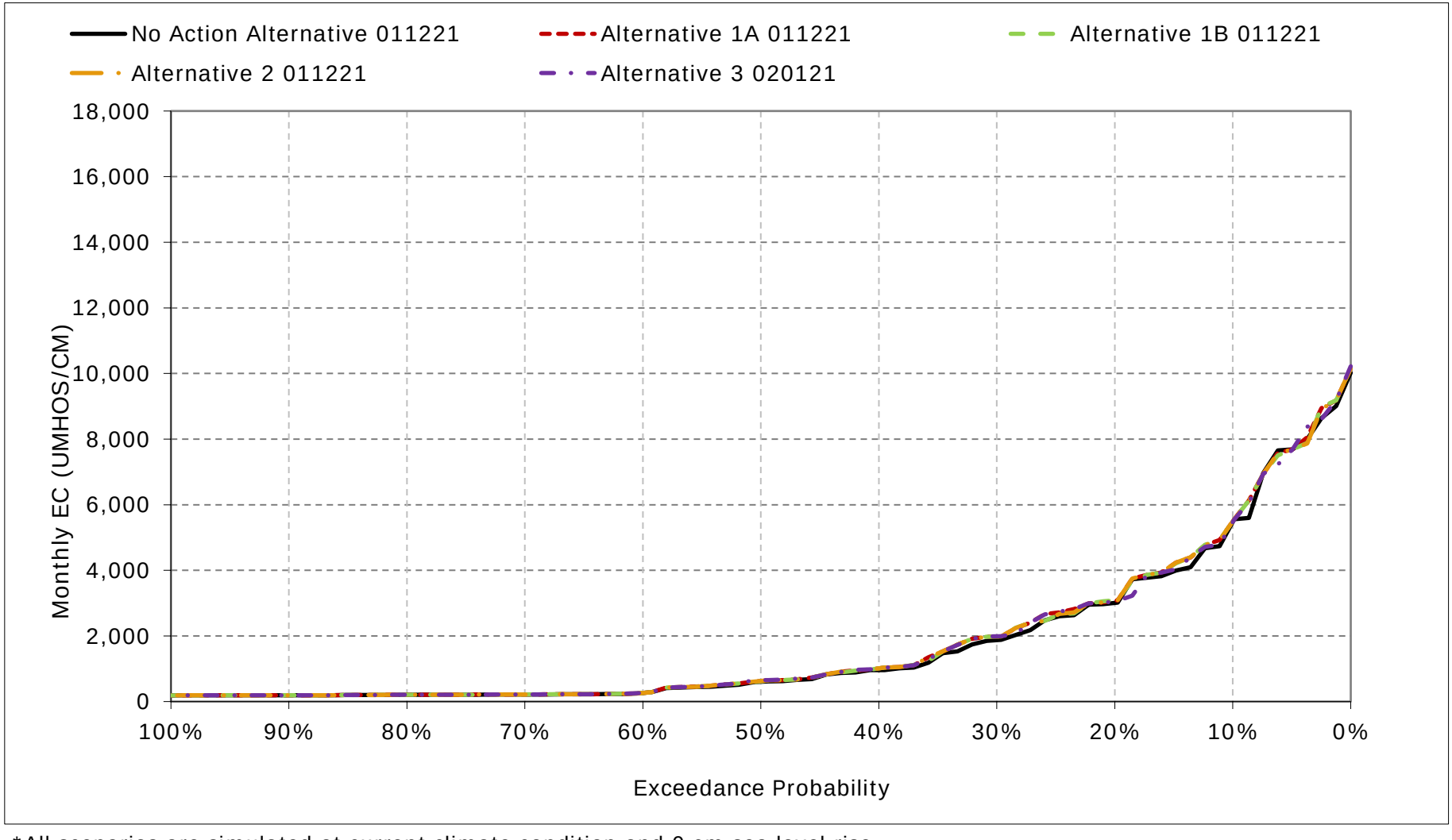
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-7. Chipps Island North Channel Salinity, January EC



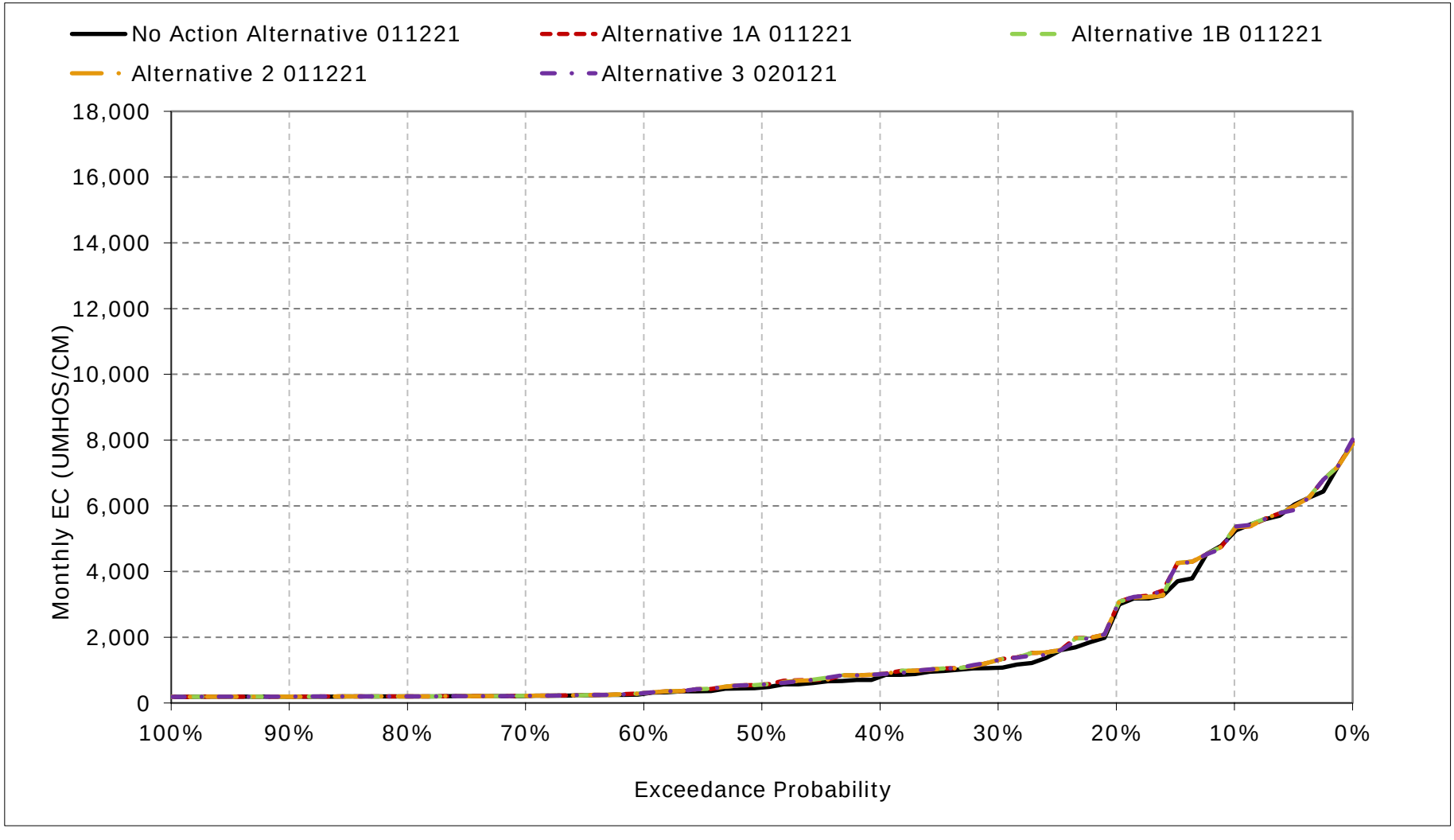
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-8. Chipps Island North Channel Salinity, February EC



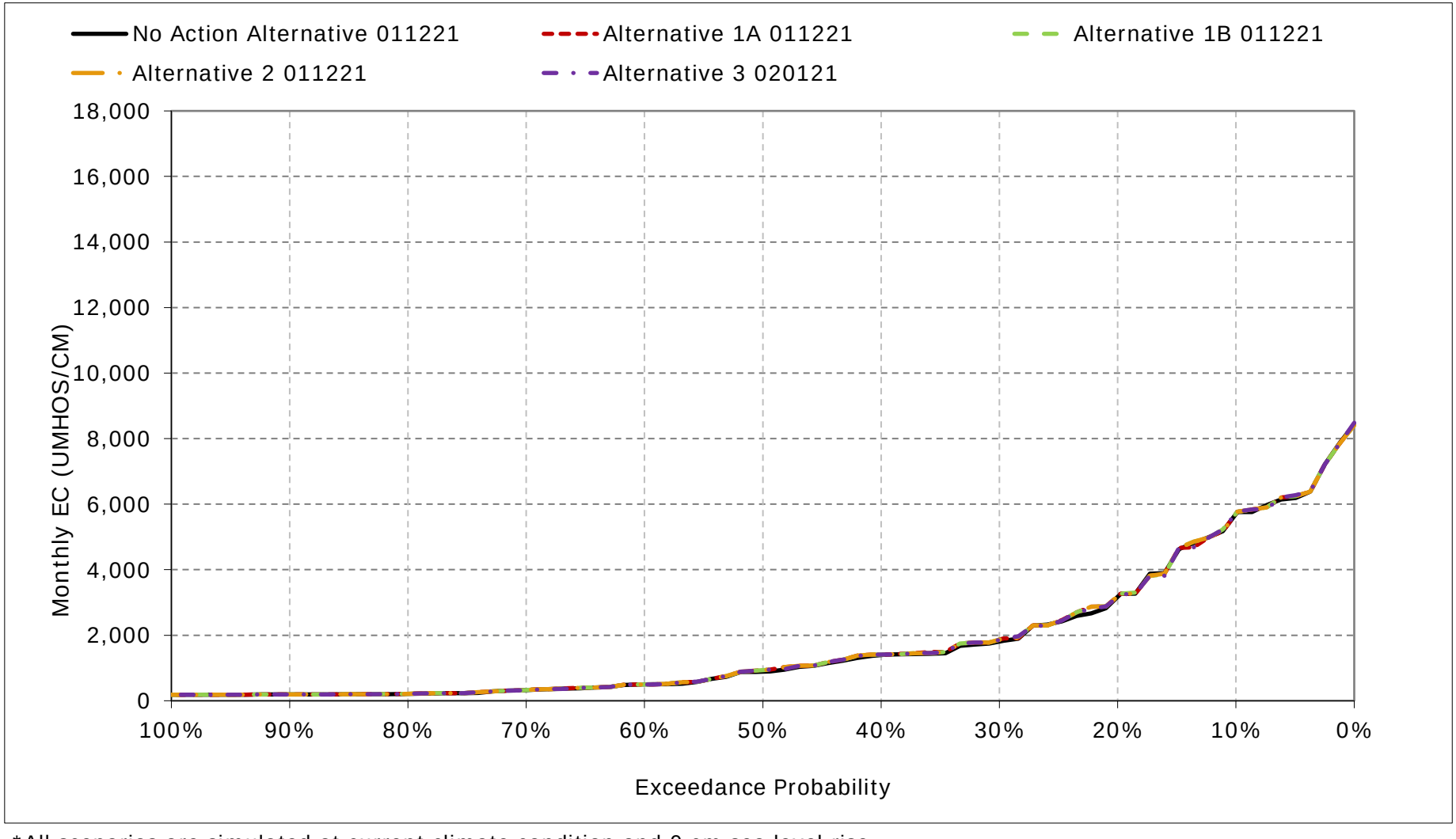
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-9. Chipps Island North Channel Salinity, March EC



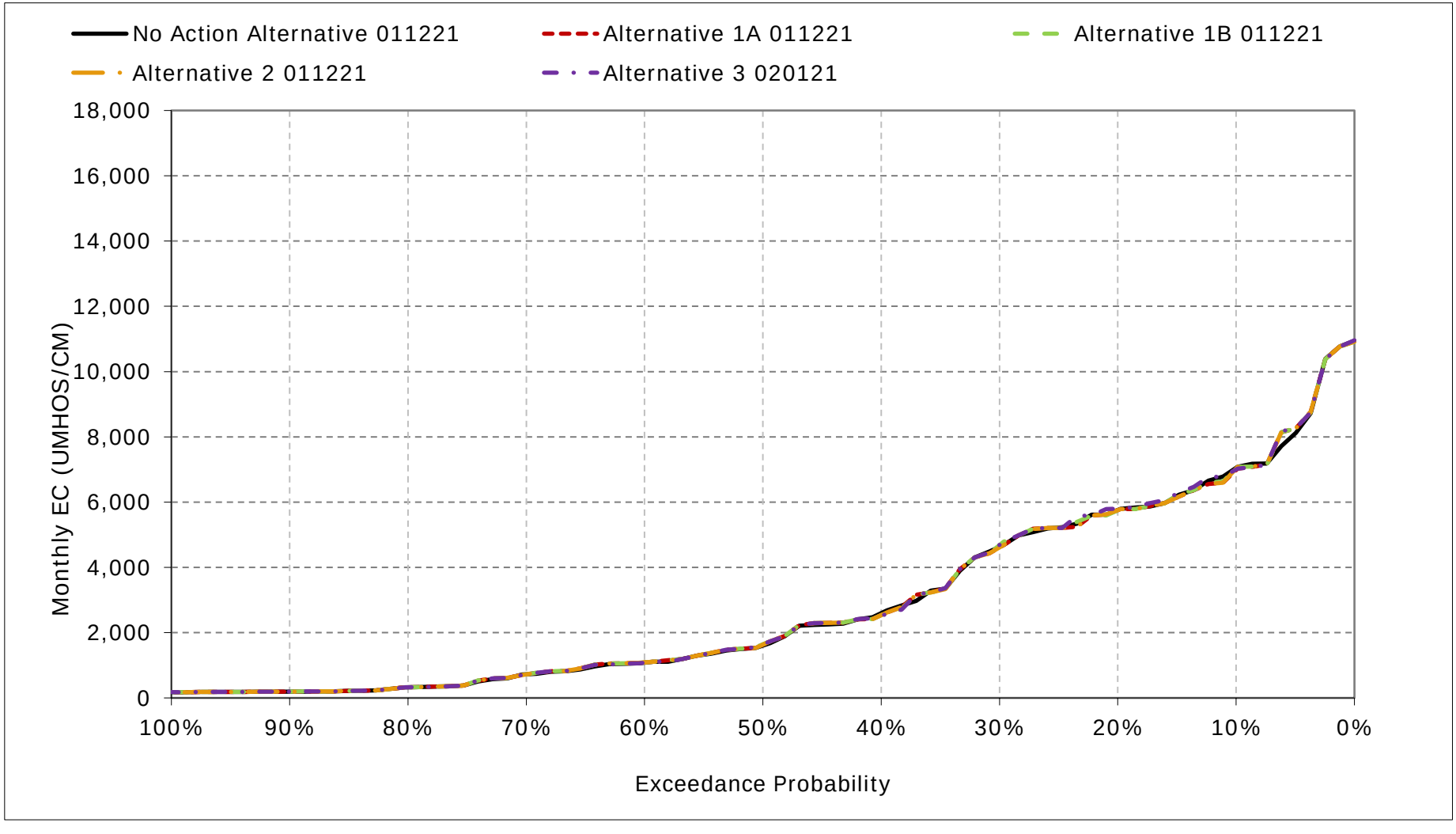
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-10. Chipps Island North Channel Salinity, April EC



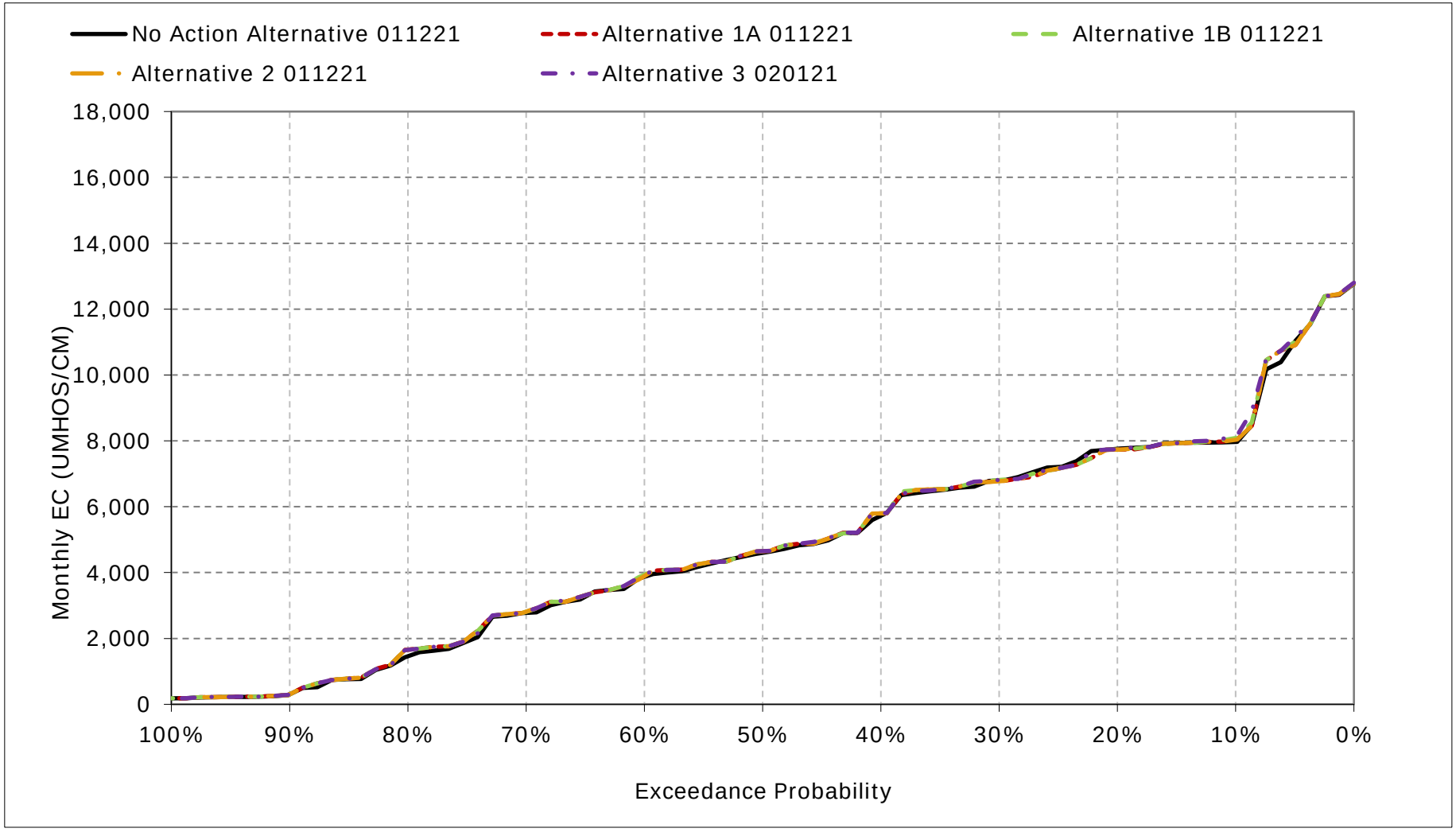
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-11. Chipps Island North Channel Salinity, May EC



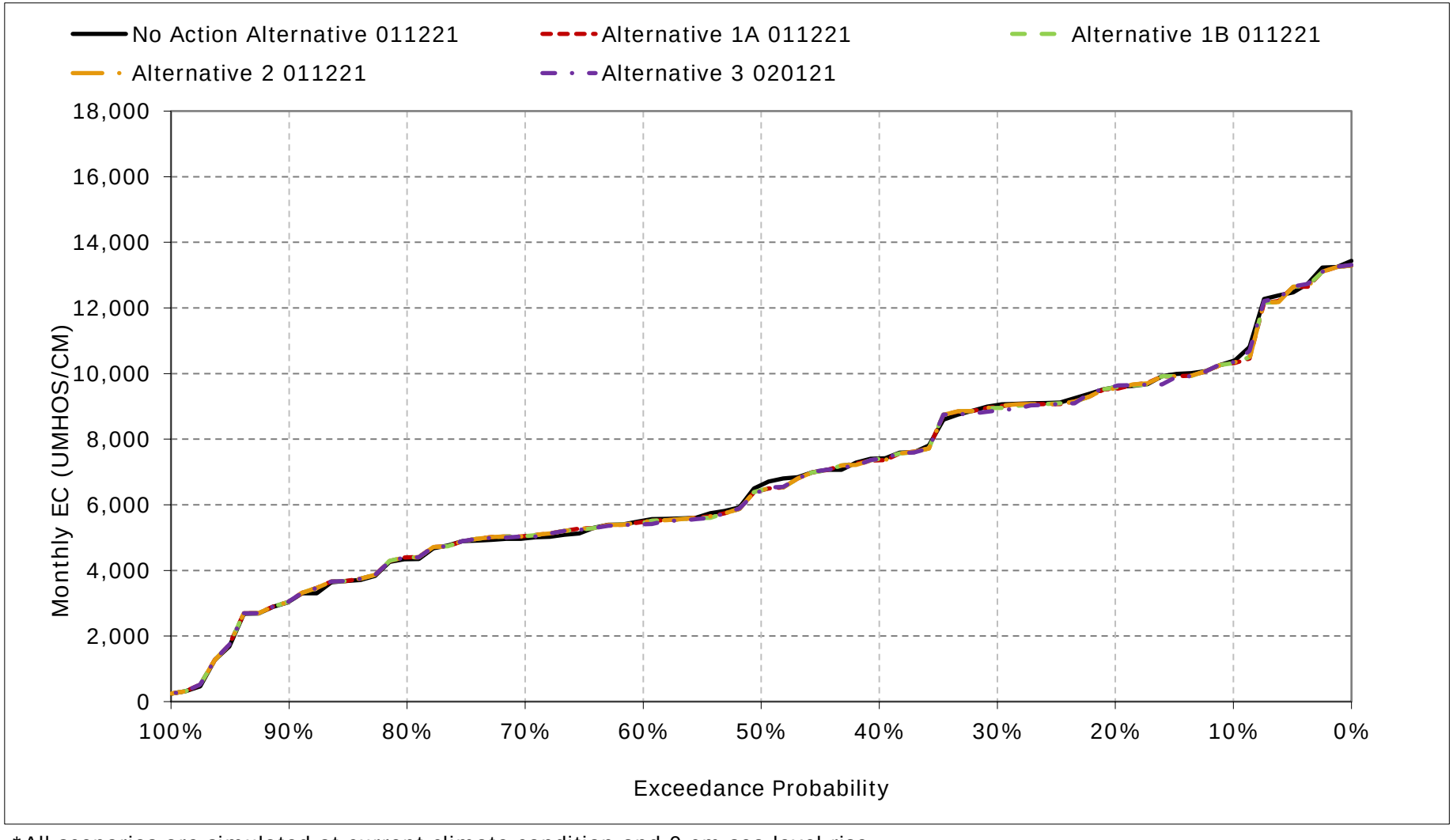
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-12. Chipps Island North Channel Salinity, June EC



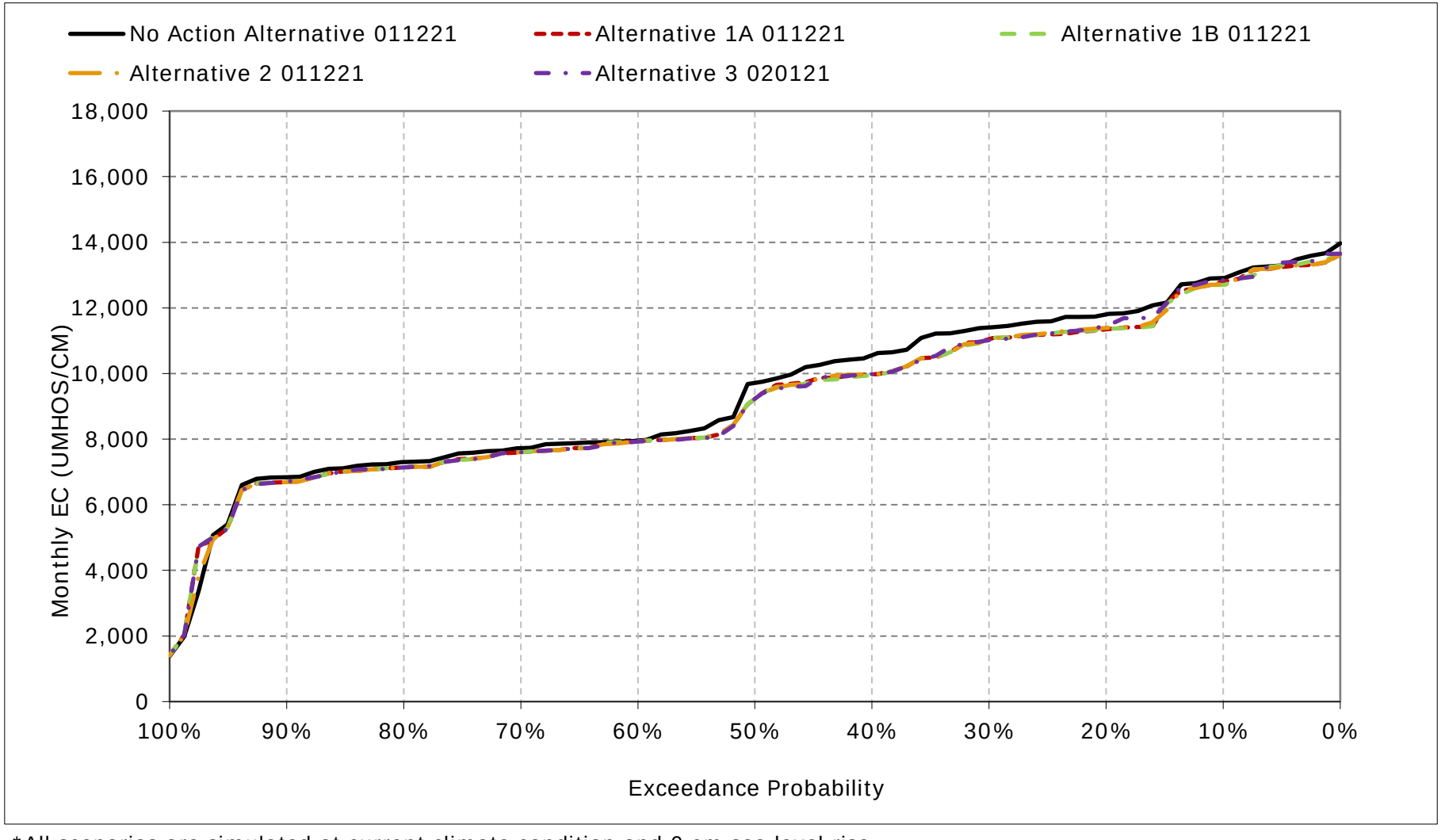
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-13. Chipps Island North Channel Salinity, July EC



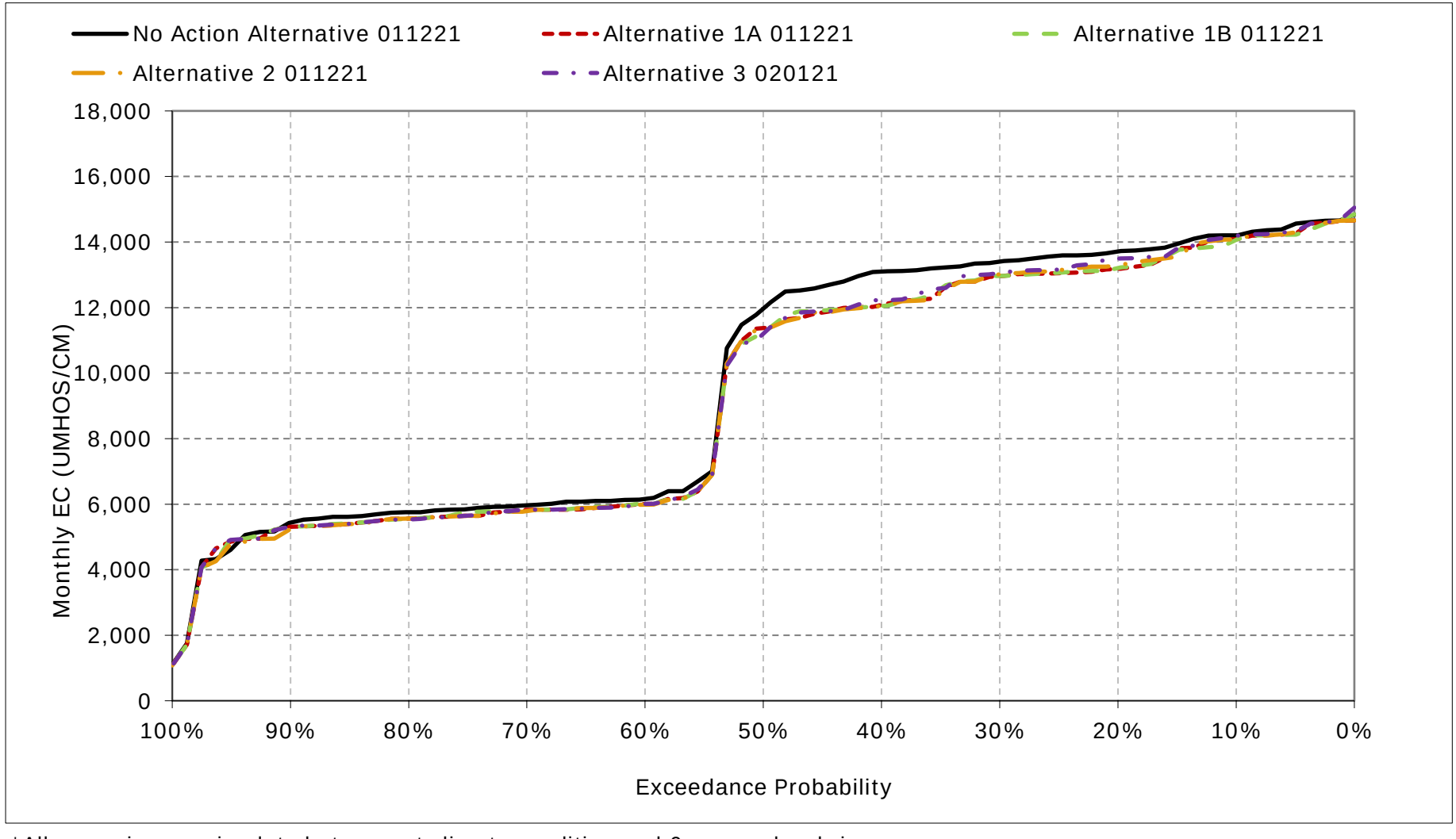
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-14. Chipps Island North Channel Salinity, August EC



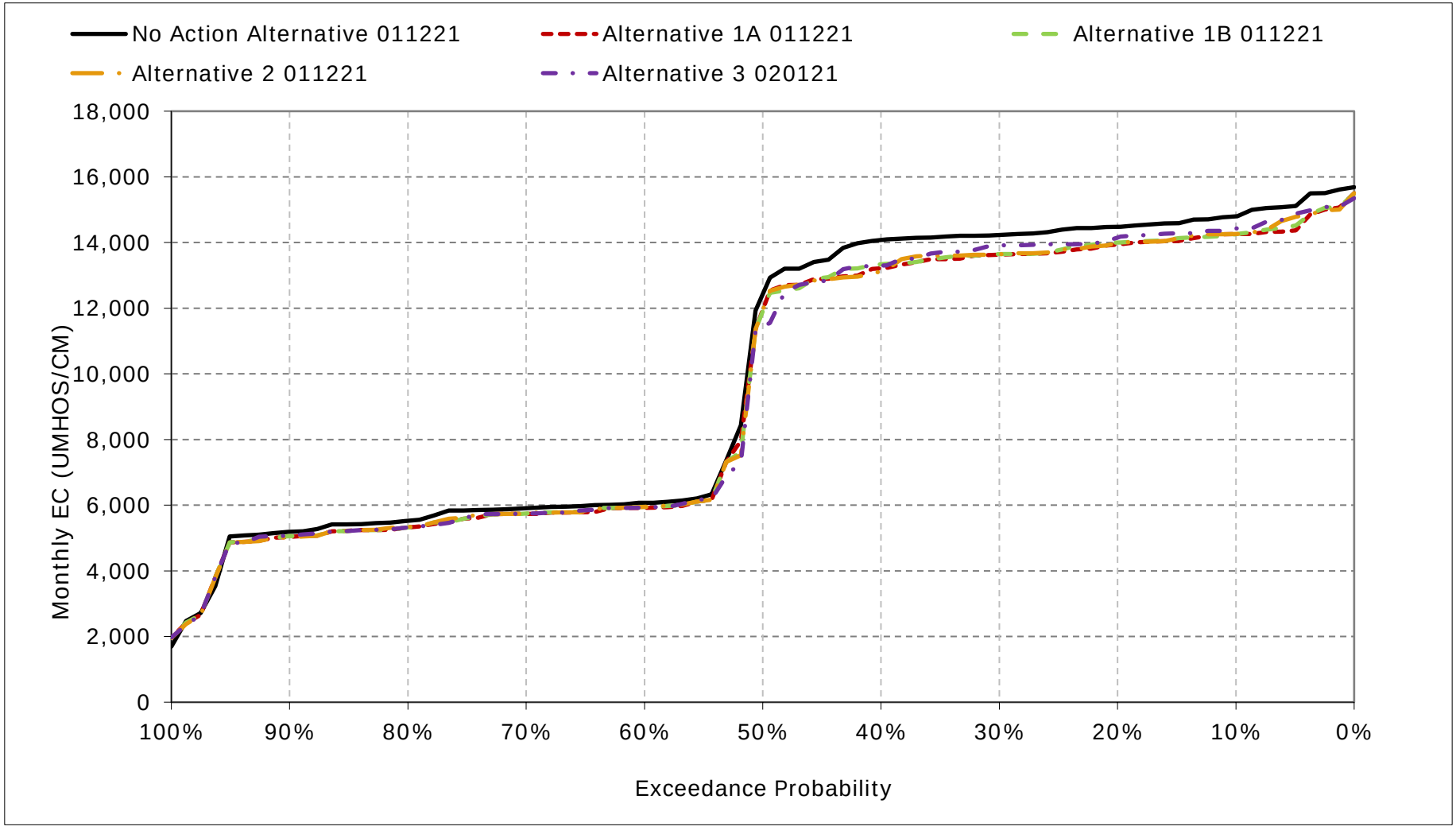
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-15. Chipps Island North Channel Salinity, September EC



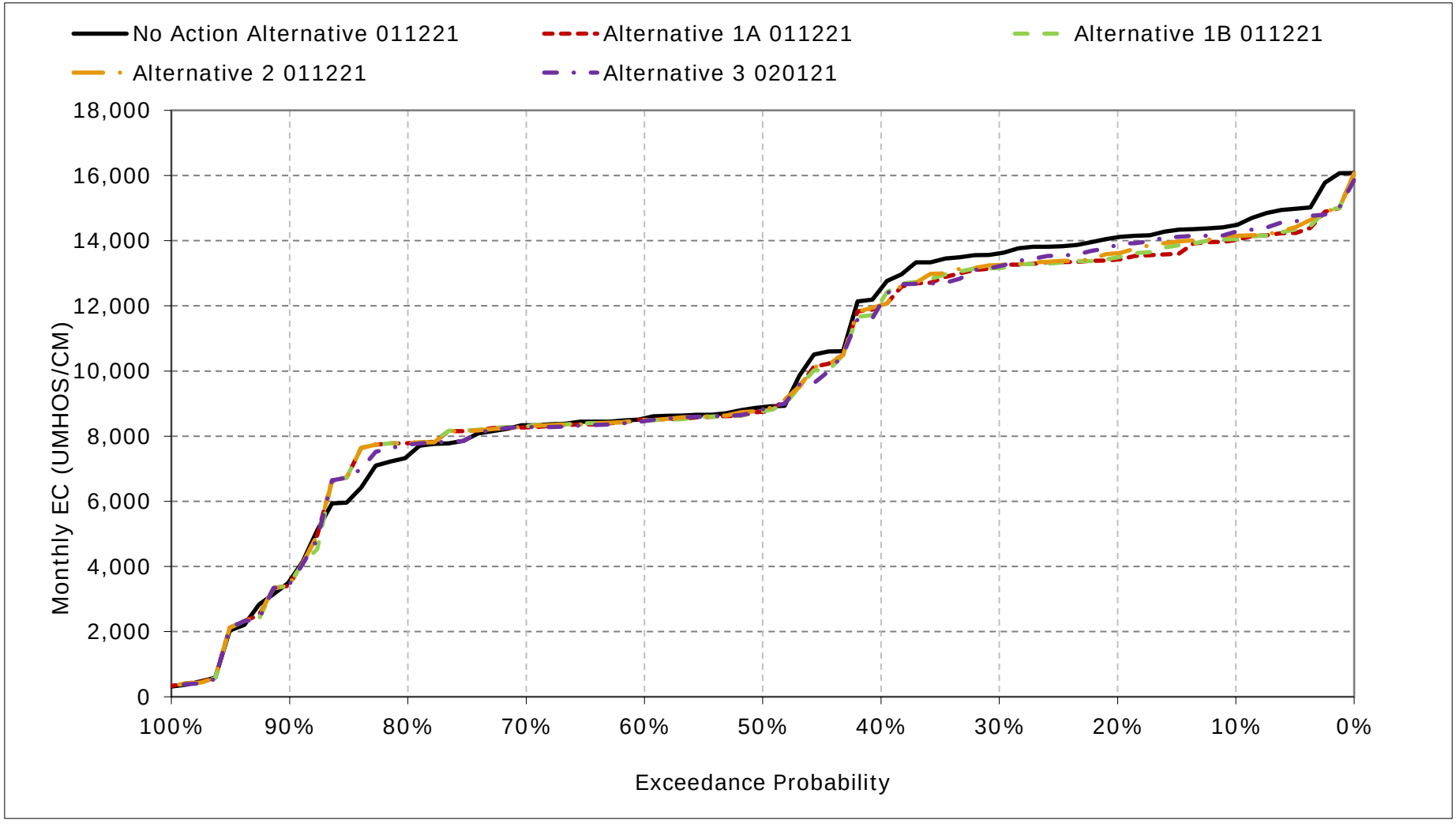
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-16. Chipps Island North Channel Salinity, October EC



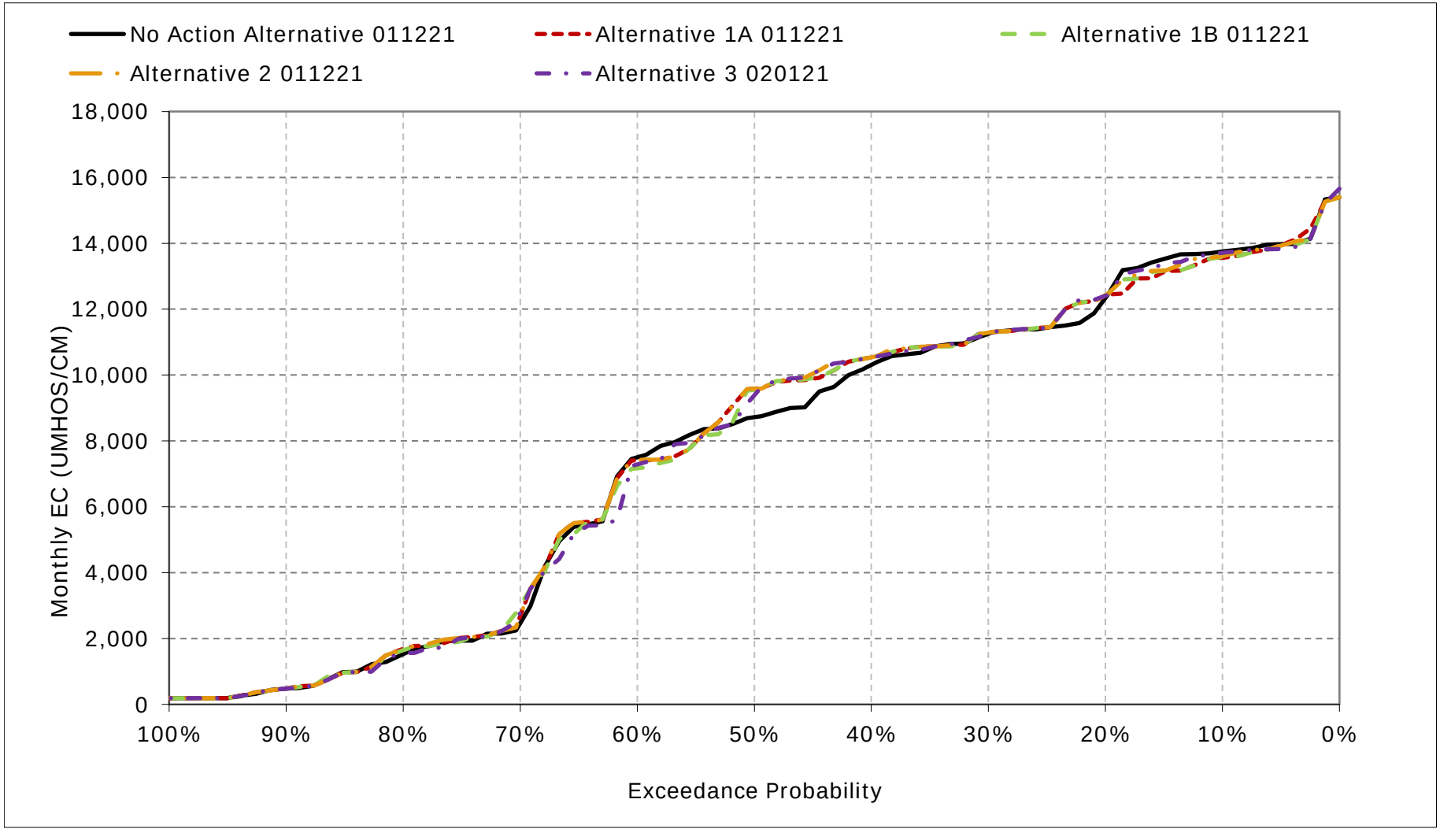
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-17. Chipps Island North Channel Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-8-18. Chipps Island North Channel Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-9-1a. Chipps Island South Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,619	13,265	12,389	9,203	4,237	4,084	4,548	5,704	6,600	8,826	11,493	12,919
20%	13,268	12,732	10,940	7,788	2,319	2,014	2,241	4,529	6,349	8,145	10,373	12,393
30%	13,017	12,382	9,806	6,044	1,440	761	1,207	3,484	5,502	7,491	10,038	12,088
40%	12,784	11,220	8,888	3,274	742	548	891	1,779	4,334	5,990	9,226	11,769
50%	11,143	7,522	7,344	2,098	560	333	605	1,018	3,503	5,235	8,350	10,662
60%	4,864	7,144	6,214	990	267	238	330	682	2,728	4,199	6,692	5,082
70%	4,687	6,850	1,942	320	213	205	254	431	1,956	3,803	6,472	4,881
80%	4,368	6,065	1,267	210	200	196	201	241	894	3,200	6,047	4,654
90%	4,059	2,658	491	195	193	192	191	186	223	2,230	5,661	4,410
Long Term												
Full Simulation Period[a]	8,854	8,759	6,608	3,540	1,463	1,138	1,371	2,268	3,848	5,573	8,129	8,602
Water Year Types[b]												
Wet (32%)	4,147	5,400	5,133	609	230	226	279	507	1,252	2,730	5,560	4,367
Above Normal (15%)	4,808	6,656	5,768	2,057	435	230	340	669	2,454	3,808	6,274	4,811
Below Normal (17%)	11,282	9,087	6,078	3,722	875	771	906	1,644	3,665	5,542	8,646	11,268
Dry (22%)	13,226	11,547	7,163	5,694	2,449	1,557	1,903	3,356	5,548	7,771	10,198	12,167
Critical (15%)	13,709	13,578	10,430	7,933	4,367	3,817	4,511	6,777	8,533	10,240	11,845	13,107

Table 6B1-9-1b. Chipps Island South Channel, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,004	12,713	12,250	9,032	4,431	4,178	4,555	5,644	6,688	8,820	11,399	12,748
20%	12,690	12,119	10,944	7,975	2,399	2,097	2,258	4,496	6,284	8,156	9,964	11,855
30%	12,378	11,800	9,827	6,450	1,613	895	1,228	3,472	5,489	7,498	9,619	11,527
40%	11,960	10,674	9,164	3,388	762	579	896	1,698	4,399	5,936	8,623	10,774
50%	10,634	7,374	8,153	2,226	584	379	617	1,039	3,547	5,033	7,894	10,056
60%	4,714	7,096	6,105	1,049	272	241	334	687	2,741	4,172	6,628	4,937
70%	4,533	6,894	2,021	327	214	206	255	431	1,986	3,881	6,314	4,721
80%	4,159	6,382	1,327	213	201	197	203	241	1,056	3,246	5,865	4,494
90%	3,932	2,588	494	196	193	193	191	186	225	2,236	5,507	4,236
Long Term												
Full Simulation Period[a]	8,436	8,531	6,676	3,627	1,509	1,187	1,383	2,273	3,872	5,558	7,876	8,247
Water Year Types[b]												
Wet (32%)	3,992	5,468	5,292	619	232	232	280	511	1,274	2,747	5,472	4,225
Above Normal (15%)	4,665	6,613	5,870	2,190	450	245	346	680	2,492	3,820	6,153	4,630
Below Normal (17%)	10,804	8,915	6,067	3,782	921	844	926	1,657	3,721	5,513	8,192	10,598
Dry (22%)	12,589	11,024	7,036	5,834	2,508	1,623	1,920	3,340	5,531	7,730	9,736	11,509
Critical (15%)	12,844	12,899	10,652	8,091	4,522	3,946	4,535	6,801	8,569	10,179	11,650	12,941

Table 6B1-9-1c. Chipps Island South Channel, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-615	-552	-140	-171	194	93	7	-60	88	-5	-94	-170
20%	-578	-613	5	187	79	83	17	-34	-64	10	-410	-538
30%	-639	-582	21	407	173	134	20	-13	-14	7	-419	-562
40%	-825	-546	276	114	20	31	5	-81	65	-55	-603	-995
50%	-508	-148	808	128	24	46	13	21	44	-202	-455	-606
60%	-150	-48	-109	58	5	3	4	5	13	-26	-65	-145
70%	-154	44	79	7	1	1	1	0	31	77	-158	-160
80%	-209	317	60	3	1	0	2	0	162	46	-181	-160
90%	-127	-70	3	0	0	1	0	0	1	5	-154	-174
Long Term												
Full Simulation Period[a]	-418	-228	68	87	46	50	12	5	24	-16	-253	-355
Water Year Types[b]												
Wet (32%)	-155	68	159	10	2	5	2	4	22	17	-87	-143
Above Normal (15%)	-143	-43	102	134	15	15	6	10	38	12	-121	-181
Below Normal (17%)	-478	-172	-10	60	46	73	20	13	56	-29	-455	-669
Dry (22%)	-637	-523	-127	141	59	66	17	-16	-17	-41	-462	-659
Critical (15%)	-865	-678	222	159	155	129	24	24	36	-60	-195	-167

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-9-2a. Chipps Island South Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,619	13,265	12,389	9,203	4,237	4,084	4,548	5,704	6,600	8,826	11,493	12,919
20%	13,268	12,732	10,940	7,788	2,319	2,014	2,241	4,529	6,349	8,145	10,373	12,393
30%	13,017	12,382	9,806	6,044	1,440	761	1,207	3,484	5,502	7,491	10,038	12,088
40%	12,784	11,220	8,888	3,274	742	548	891	1,779	4,334	5,990	9,226	11,769
50%	11,143	7,522	7,344	2,098	560	333	605	1,018	3,503	5,235	8,350	10,662
60%	4,864	7,144	6,214	990	267	238	330	682	2,728	4,199	6,692	5,082
70%	4,687	6,850	1,942	320	213	205	254	431	1,956	3,803	6,472	4,881
80%	4,368	6,065	1,267	210	200	196	201	241	894	3,200	6,047	4,654
90%	4,059	2,658	491	195	193	192	191	186	223	2,230	5,661	4,410
Long Term												
Full Simulation Period[a]	8,854	8,759	6,608	3,540	1,463	1,138	1,371	2,268	3,848	5,573	8,129	8,602
Water Year Types[b]												
Wet (32%)	4,147	5,400	5,133	609	230	226	279	507	1,252	2,730	5,560	4,367
Above Normal (15%)	4,808	6,656	5,768	2,057	435	230	340	669	2,454	3,808	6,274	4,811
Below Normal (17%)	11,282	9,087	6,078	3,722	875	771	906	1,644	3,665	5,542	8,646	11,268
Dry (22%)	13,226	11,547	7,163	5,694	2,449	1,557	1,903	3,356	5,548	7,771	10,198	12,167
Critical (15%)	13,709	13,578	10,430	7,933	4,367	3,817	4,511	6,777	8,533	10,240	11,845	13,107

Table 6B1-9-2b. Chipps Island South Channel, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,033	12,786	12,273	9,100	4,424	4,177	4,557	5,655	6,671	8,821	11,297	12,672
20%	12,717	12,223	11,055	7,976	2,404	2,097	2,258	4,494	6,299	8,145	9,896	11,881
30%	12,380	11,862	9,824	6,298	1,614	895	1,242	3,534	5,509	7,500	9,591	11,576
40%	12,074	10,818	9,108	3,347	762	575	890	1,695	4,399	5,938	8,600	10,710
50%	10,615	7,396	8,125	2,227	577	380	617	1,046	3,547	5,037	7,898	9,941
60%	4,726	7,093	5,900	1,038	271	240	334	687	2,776	4,154	6,642	4,946
70%	4,532	6,908	2,151	346	214	206	255	431	1,986	3,875	6,314	4,736
80%	4,156	6,383	1,351	211	202	197	203	241	1,054	3,244	5,865	4,489
90%	3,932	2,587	491	196	193	193	191	186	224	2,235	5,510	4,238
Long Term												
Full Simulation Period[a]	8,459	8,544	6,651	3,615	1,501	1,184	1,384	2,277	3,879	5,556	7,871	8,247
Water Year Types[b]												
Wet (32%)	3,996	5,476	5,284	621	232	232	280	511	1,274	2,747	5,474	4,221
Above Normal (15%)	4,693	6,623	5,827	2,187	446	245	346	681	2,492	3,818	6,157	4,655
Below Normal (17%)	10,773	8,797	6,009	3,772	919	844	925	1,653	3,724	5,503	8,162	10,562
Dry (22%)	12,658	11,131	7,022	5,800	2,497	1,619	1,922	3,353	5,555	7,731	9,733	11,557
Critical (15%)	12,895	12,934	10,633	8,073	4,488	3,927	4,544	6,809	8,577	10,181	11,644	12,894

Table 6B1-9-2c. Chipps Island South Channel, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-586	-479	-116	-104	187	93	10	-49	71	-5	-196	-247
20%	-551	-509	115	187	84	83	18	-36	-49	-1	-478	-512
30%	-637	-521	19	255	173	134	35	49	7	9	-447	-513
40%	-710	-402	220	73	20	27	-1	-84	65	-52	-626	-1,059
50%	-528	-126	780	130	17	47	12	28	43	-198	-452	-721
60%	-138	-51	-314	47	4	2	4	5	48	-45	-50	-136
70%	-154	59	209	26	1	1	1	0	30	71	-157	-145
80%	-212	318	84	1	2	0	2	0	160	44	-182	-165
90%	-127	-71	0	0	0	1	0	0	1	5	-151	-172
Long Term												
Full Simulation Period[a]	-395	-216	43	75	38	46	14	9	31	-17	-258	-355
Water Year Types[b]												
Wet (32%)	-151	76	150	12	2	5	2	4	22	17	-86	-146
Above Normal (15%)	-115	-33	59	130	11	14	5	12	38	10	-117	-157
Below Normal (17%)	-509	-290	-68	50	44	73	19	9	59	-39	-484	-706
Dry (22%)	-568	-416	-141	106	48	62	19	-2	7	-40	-465	-610
Critical (15%)	-814	-643	203	140	121	111	33	32	45	-59	-201	-214

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-9-3a. Chipps Island South Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,619	13,265	12,389	9,203	4,237	4,084	4,548	5,704	6,600	8,826	11,493	12,919
20%	13,268	12,732	10,940	7,788	2,319	2,014	2,241	4,529	6,349	8,145	10,373	12,393
30%	13,017	12,382	9,806	6,044	1,440	761	1,207	3,484	5,502	7,491	10,038	12,088
40%	12,784	11,220	8,888	3,274	742	548	891	1,779	4,334	5,990	9,226	11,769
50%	11,143	7,522	7,344	2,098	560	333	605	1,018	3,503	5,235	8,350	10,662
60%	4,864	7,144	6,214	990	267	238	330	682	2,728	4,199	6,692	5,082
70%	4,687	6,850	1,942	320	213	205	254	431	1,956	3,803	6,472	4,881
80%	4,368	6,065	1,267	210	200	196	201	241	894	3,200	6,047	4,654
90%	4,059	2,658	491	195	193	192	191	186	223	2,230	5,661	4,410
Long Term												
Full Simulation Period[a]	8,854	8,759	6,608	3,540	1,463	1,138	1,371	2,268	3,848	5,573	8,129	8,602
Water Year Types[b]												
Wet (32%)	4,147	5,400	5,133	609	230	226	279	507	1,252	2,730	5,560	4,367
Above Normal (15%)	4,808	6,656	5,768	2,057	435	230	340	669	2,454	3,808	6,274	4,811
Below Normal (17%)	11,282	9,087	6,078	3,722	875	771	906	1,644	3,665	5,542	8,646	11,268
Dry (22%)	13,226	11,547	7,163	5,694	2,449	1,557	1,903	3,356	5,548	7,771	10,198	12,167
Critical (15%)	13,709	13,578	10,430	7,933	4,367	3,817	4,511	6,777	8,533	10,240	11,845	13,107

Table 6B1-9-3b. Chipps Island South Channel, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,022	12,845	12,292	9,030	4,435	4,178	4,554	5,653	6,686	8,825	11,319	12,722
20%	12,701	12,358	11,053	7,973	2,399	2,097	2,258	4,496	6,299	8,163	9,979	11,980
30%	12,398	11,882	9,827	6,448	1,613	895	1,226	3,472	5,490	7,513	9,601	11,564
40%	11,850	10,697	9,175	3,387	762	576	896	1,698	4,399	5,937	8,658	10,766
50%	10,630	7,487	8,151	2,223	584	379	617	1,039	3,547	5,035	7,897	10,027
60%	4,757	7,096	6,119	1,049	272	241	334	687	2,741	4,172	6,628	4,913
70%	4,540	6,909	2,086	327	214	206	255	431	1,987	3,881	6,314	4,735
80%	4,204	6,381	1,327	213	201	197	202	241	1,054	3,244	5,865	4,494
90%	3,917	2,580	495	196	193	192	191	186	225	2,235	5,507	4,228
Long Term												
Full Simulation Period[a]	8,459	8,582	6,698	3,630	1,503	1,183	1,384	2,273	3,872	5,558	7,866	8,243
Water Year Types[b]												
Wet (32%)	4,018	5,486	5,293	619	232	232	280	511	1,274	2,747	5,440	4,189
Above Normal (15%)	4,662	6,609	5,869	2,191	450	245	346	680	2,492	3,820	6,147	4,626
Below Normal (17%)	10,743	8,899	6,063	3,811	922	844	925	1,655	3,720	5,511	8,186	10,574
Dry (22%)	12,640	11,210	7,160	5,831	2,506	1,620	1,919	3,339	5,532	7,732	9,745	11,553
Critical (15%)	12,941	12,948	10,622	8,077	4,486	3,921	4,544	6,806	8,571	10,182	11,649	12,956

Table 6B1-9-3c. Chipps Island South Channel, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-597	-420	-98	-173	197	93	7	-51	86	-1	-174	-197
20%	-567	-374	114	185	79	83	18	-34	-49	18	-394	-413
30%	-619	-500	21	404	173	134	19	-13	-12	22	-438	-524
40%	-934	-523	287	113	21	28	5	-81	65	-53	-569	-1,003
50%	-512	-35	806	126	24	46	12	21	44	-200	-453	-635
60%	-107	-48	-95	58	5	3	4	5	13	-27	-65	-169
70%	-147	59	144	7	1	1	1	0	31	78	-158	-146
80%	-164	316	60	3	1	0	1	0	160	44	-181	-160
90%	-142	-78	4	0	0	0	0	0	1	5	-154	-182
Long Term												
Full Simulation Period[a]	-395	-178	90	90	41	45	13	5	24	-15	-263	-359
Water Year Types[b]												
Wet (32%)	-129	87	160	10	2	5	2	4	22	17	-120	-178
Above Normal (15%)	-146	-47	101	134	15	15	6	11	39	12	-127	-186
Below Normal (17%)	-539	-188	-15	89	47	73	19	11	55	-31	-460	-694
Dry (22%)	-586	-337	-3	138	57	63	15	-16	-16	-39	-453	-615
Critical (15%)	-768	-630	192	145	119	105	33	28	38	-58	-196	-151

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-9-4a. Chipps Island South Channel, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,619	13,265	12,389	9,203	4,237	4,084	4,548	5,704	6,600	8,826	11,493	12,919
20%	13,268	12,732	10,940	7,788	2,319	2,014	2,241	4,529	6,349	8,145	10,373	12,393
30%	13,017	12,382	9,806	6,044	1,440	761	1,207	3,484	5,502	7,491	10,038	12,088
40%	12,784	11,220	8,888	3,274	742	548	891	1,779	4,334	5,990	9,226	11,769
50%	11,143	7,522	7,344	2,098	560	333	605	1,018	3,503	5,235	8,350	10,662
60%	4,864	7,144	6,214	990	267	238	330	682	2,728	4,199	6,692	5,082
70%	4,687	6,850	1,942	320	213	205	254	431	1,956	3,803	6,472	4,881
80%	4,368	6,065	1,267	210	200	196	201	241	894	3,200	6,047	4,654
90%	4,059	2,658	491	195	193	192	191	186	223	2,230	5,661	4,410
Long Term												
Full Simulation Period[a]	8,854	8,759	6,608	3,540	1,463	1,138	1,371	2,268	3,848	5,573	8,129	8,602
Water Year Types[b]												
Wet (32%)	4,147	5,400	5,133	609	230	226	279	507	1,252	2,730	5,560	4,367
Above Normal (15%)	4,808	6,656	5,768	2,057	435	230	340	669	2,454	3,808	6,274	4,811
Below Normal (17%)	11,282	9,087	6,078	3,722	875	771	906	1,644	3,665	5,542	8,646	11,268
Dry (22%)	13,226	11,547	7,163	5,694	2,449	1,557	1,903	3,356	5,548	7,771	10,198	12,167
Critical (15%)	13,709	13,578	10,430	7,933	4,367	3,817	4,511	6,777	8,533	10,240	11,845	13,107

Table 6B1-9-4b. Chipps Island South Channel, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,216	13,000	12,345	8,868	4,422	4,160	4,571	5,661	6,717	8,842	11,457	12,849
20%	12,850	12,556	11,039	7,968	2,274	2,105	2,252	4,589	6,343	8,155	10,037	12,126
30%	12,630	11,893	9,864	6,336	1,613	894	1,242	3,540	5,510	7,425	9,567	11,712
40%	12,002	10,742	9,125	3,353	775	576	890	1,676	4,404	5,938	8,607	10,903
50%	10,108	7,475	7,929	2,221	582	381	617	1,045	3,549	5,009	7,893	9,882
60%	4,703	7,086	5,978	1,030	273	240	332	682	2,772	4,138	6,630	4,916
70%	4,532	6,869	2,110	337	214	206	255	431	1,987	3,856	6,314	4,736
80%	4,157	6,365	1,271	211	202	197	203	241	1,052	3,242	5,861	4,448
90%	3,936	2,584	494	196	193	193	191	187	225	2,236	5,509	4,267
Long Term												
Full Simulation Period[a]	8,504	8,569	6,659	3,617	1,493	1,183	1,381	2,289	3,892	5,550	7,898	8,303
Water Year Types[b]												
Wet (32%)	4,007	5,472	5,284	606	232	232	281	511	1,274	2,747	5,469	4,235
Above Normal (15%)	4,689	6,591	5,741	2,187	446	245	346	681	2,495	3,797	6,153	4,618
Below Normal (17%)	10,630	8,686	5,867	3,935	921	843	923	1,649	3,727	5,493	8,170	10,560
Dry (22%)	12,796	11,284	7,222	5,713	2,431	1,606	1,917	3,399	5,592	7,708	9,806	11,733
Critical (15%)	13,143	13,051	10,639	8,059	4,534	3,946	4,533	6,829	8,602	10,206	11,726	13,026

Table 6B1-9-4c. Chipps Island South Channel, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-403	-265	-44	-335	185	76	24	-42	117	17	-36	-70
20%	-418	-176	99	179	-45	91	11	60	-5	9	-336	-267
30%	-386	-490	58	293	173	134	35	55	8	-66	-472	-376
40%	-782	-478	237	79	33	27	-1	-103	70	-53	-619	-865
50%	-1,035	-47	584	123	22	49	12	28	46	-226	-456	-780
60%	-161	-58	-236	39	5	2	2	0	44	-61	-62	-166
70%	-154	19	167	16	1	1	1	0	31	53	-158	-145
80%	-211	300	4	1	2	0	2	0	158	42	-186	-206
90%	-123	-74	3	0	0	1	0	1	1	5	-152	-143
Long Term												
Full Simulation Period[a]	-350	-190	51	77	30	46	11	21	44	-23	-231	-298
Water Year Types[b]												
Wet (32%)	-140	72	150	-3	2	6	2	4	22	17	-91	-132
Above Normal (15%)	-119	-66	-27	130	10	14	6	12	41	-11	-121	-194
Below Normal (17%)	-652	-401	-211	213	46	71	17	5	62	-49	-476	-708
Dry (22%)	-429	-263	59	19	-18	48	14	44	44	-63	-392	-434
Critical (15%)	-566	-526	209	126	167	130	22	51	70	-34	-119	-81

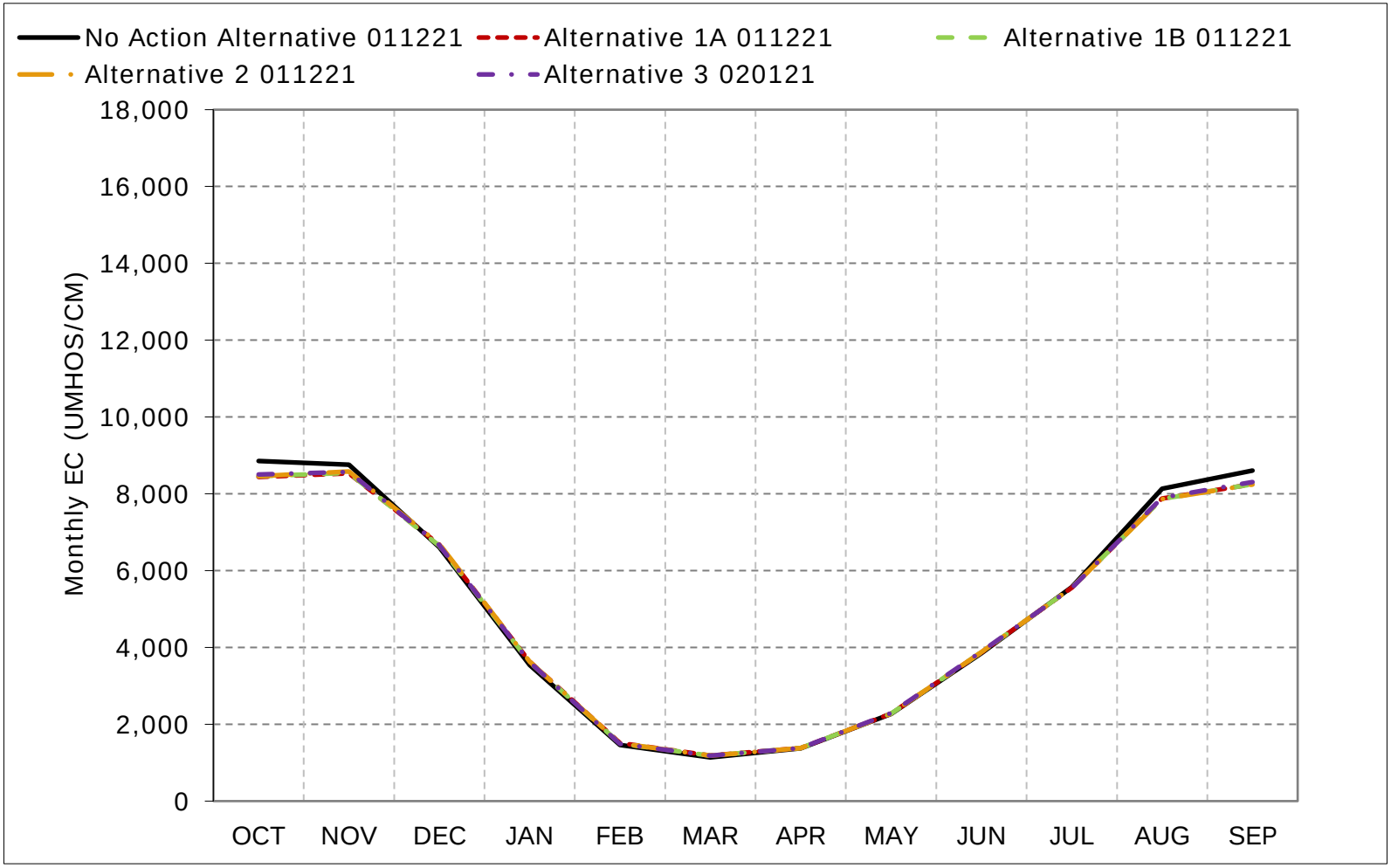
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-1. Chipps Island South Channel, Long-Term Average EC

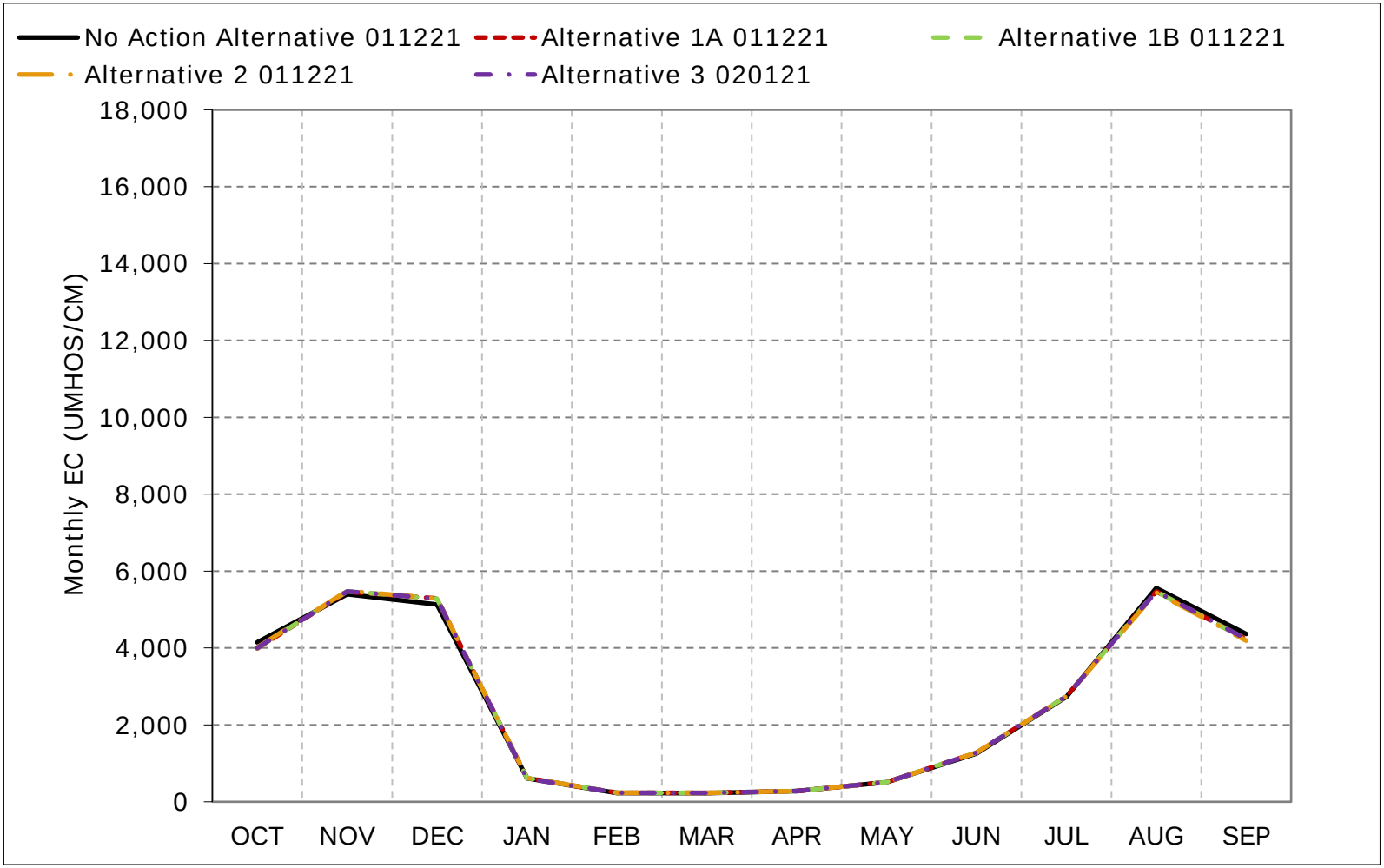


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-2. Chipps Island South Channel, Wet Year Average EC

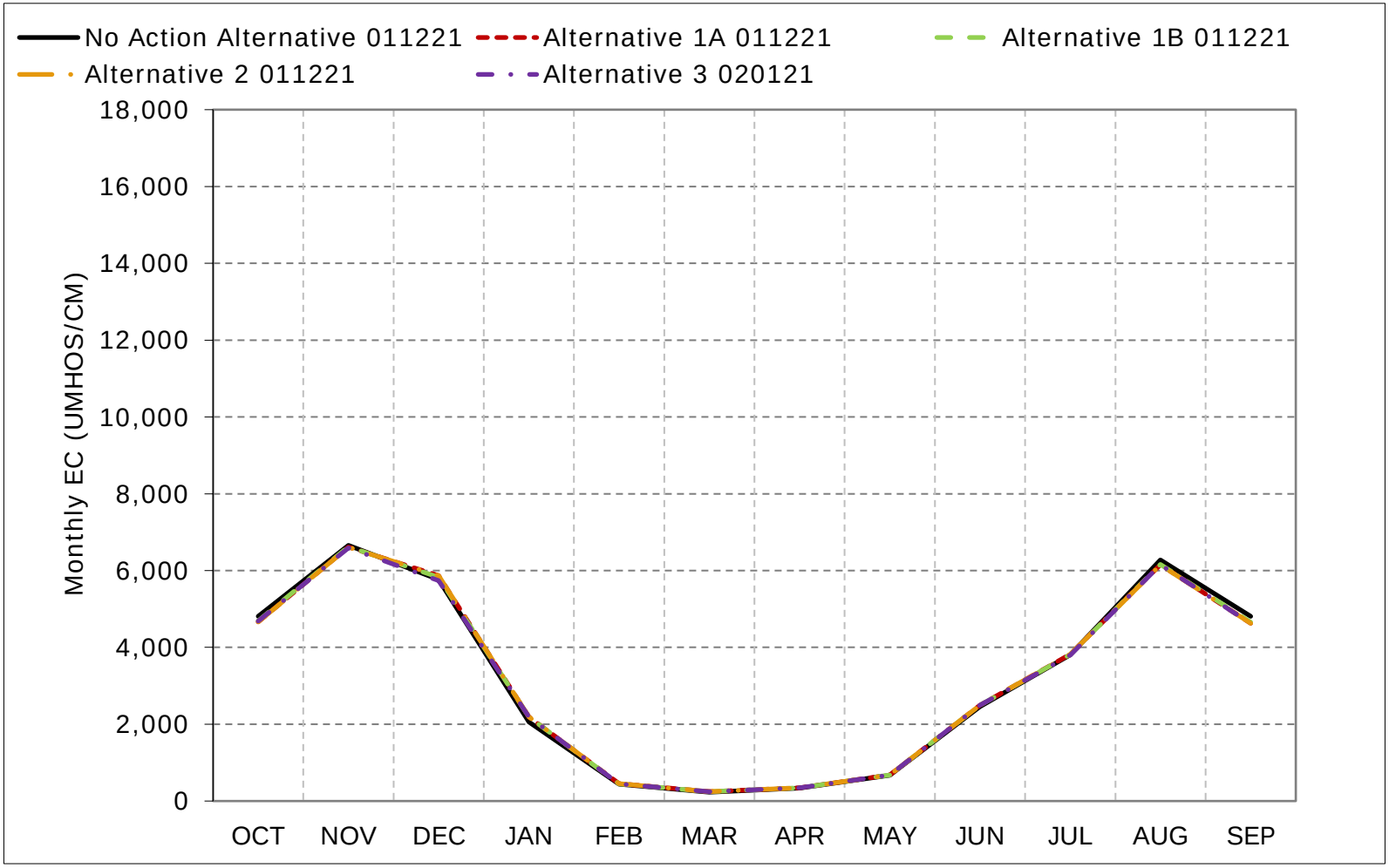


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-3. Chipps Island South Channel, Above Normal Year Average EC

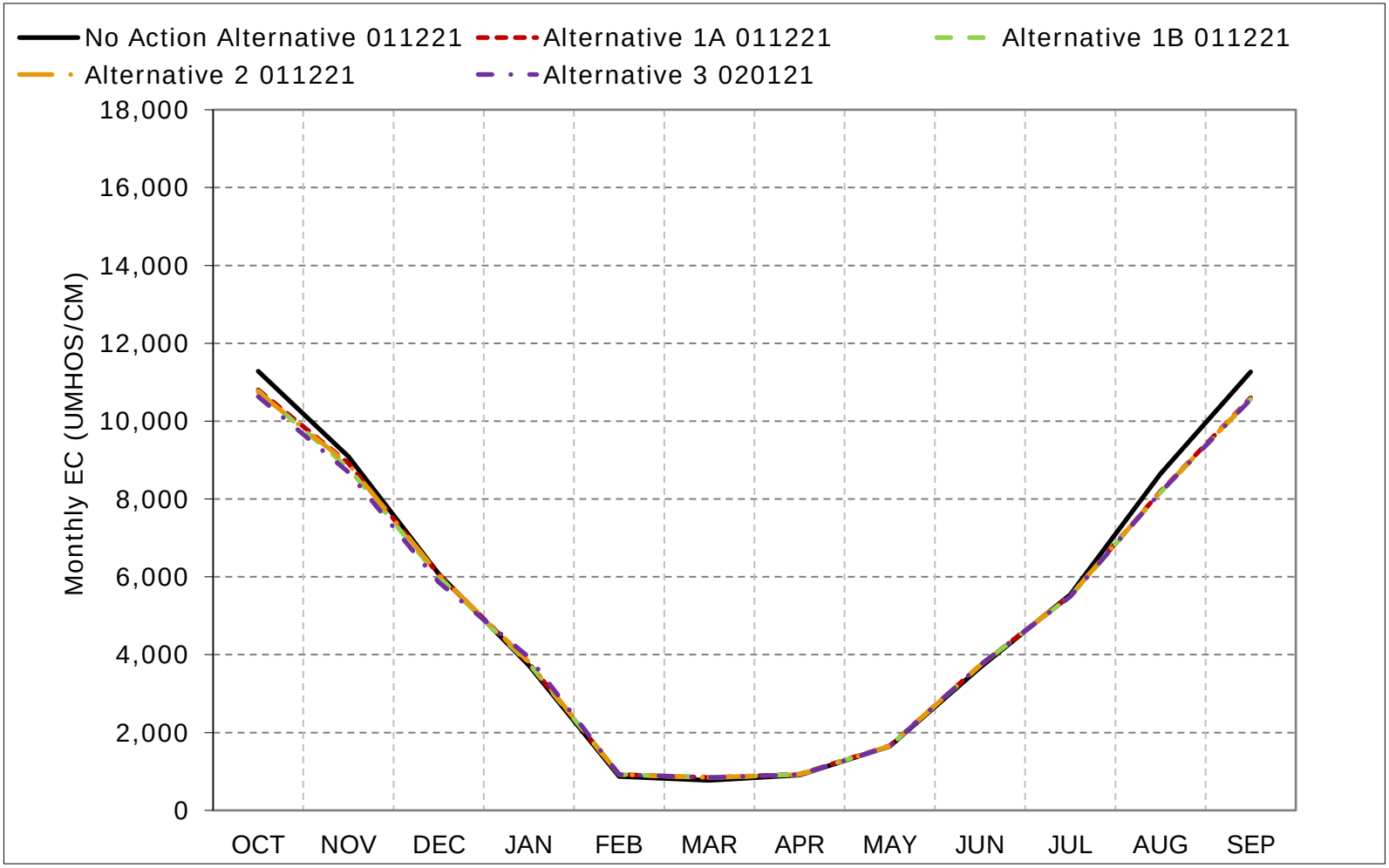


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-4. Chipps Island South Channel, Below Normal Year Average EC

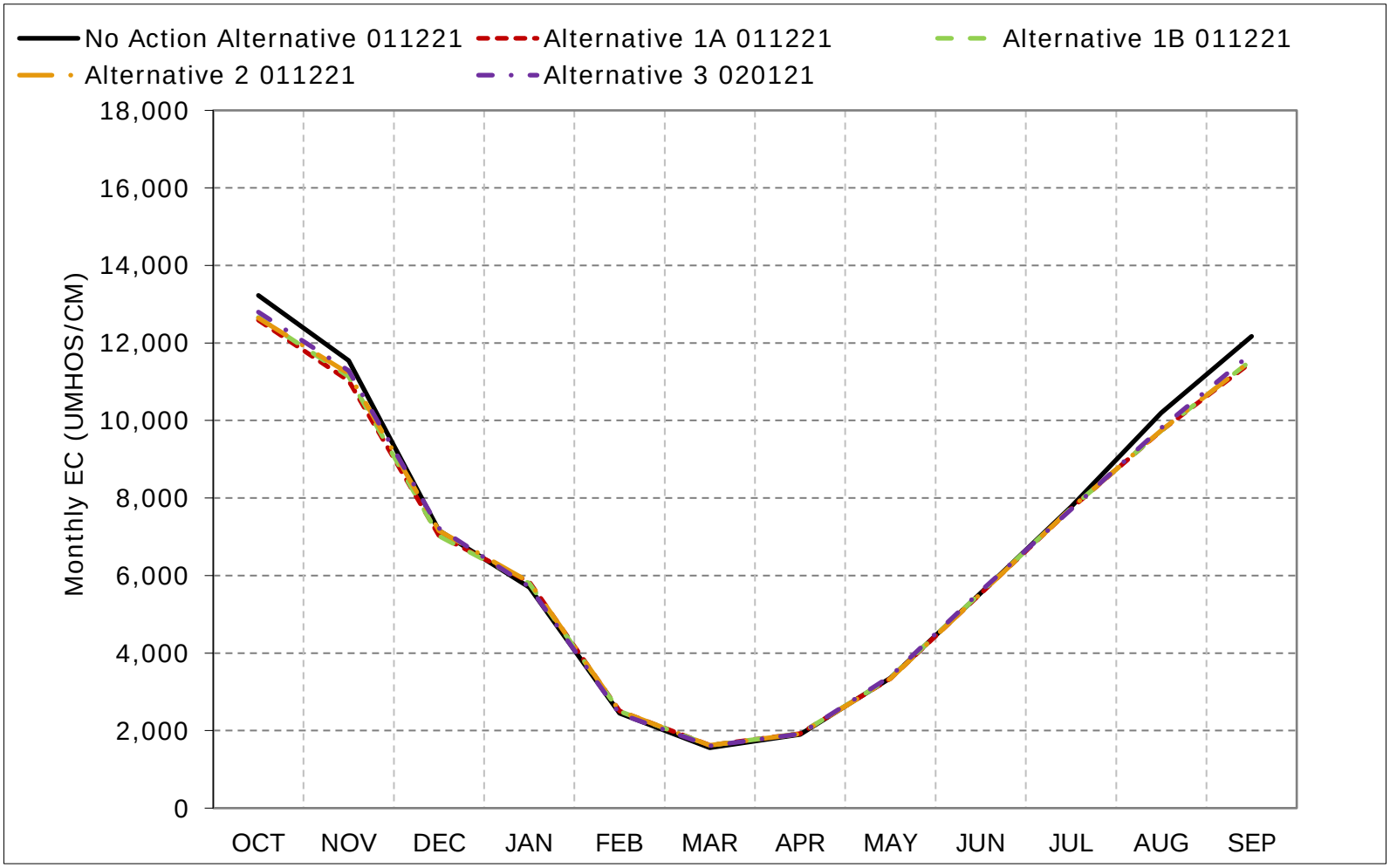


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-5. Chipps Island South Channel, Dry Year Average EC

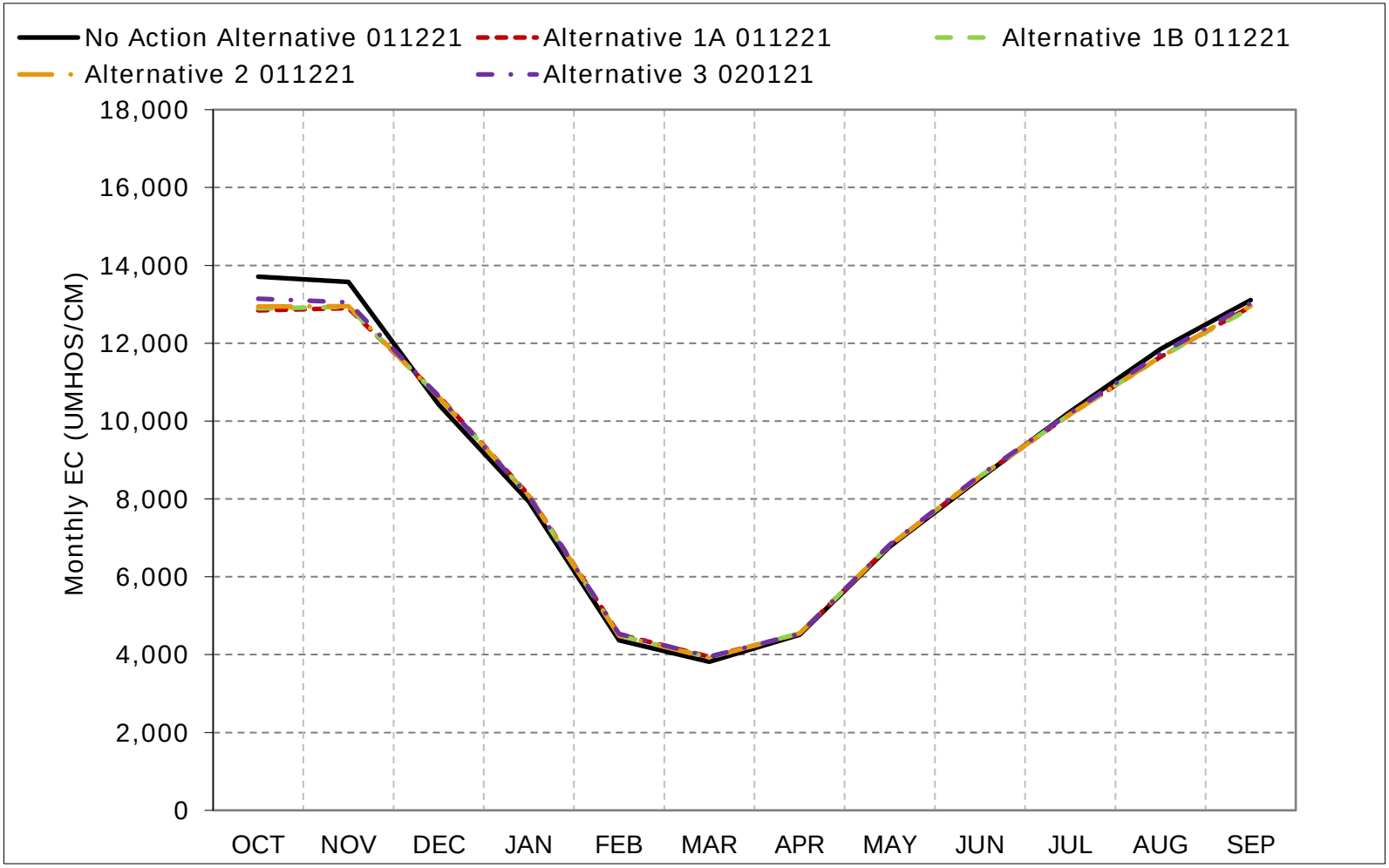


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-6. Chipps Island South Channel, Critical Year Average EC

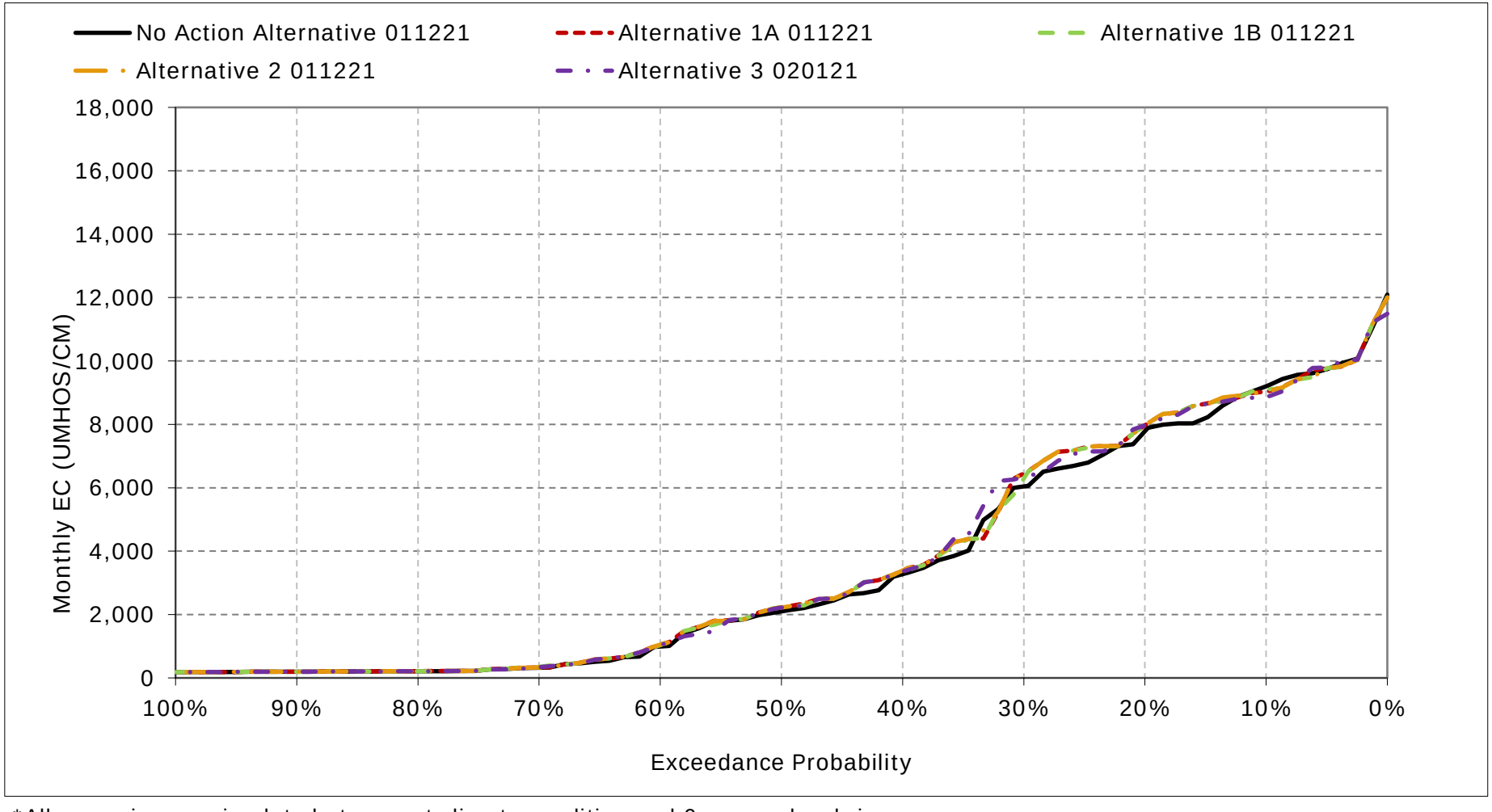


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

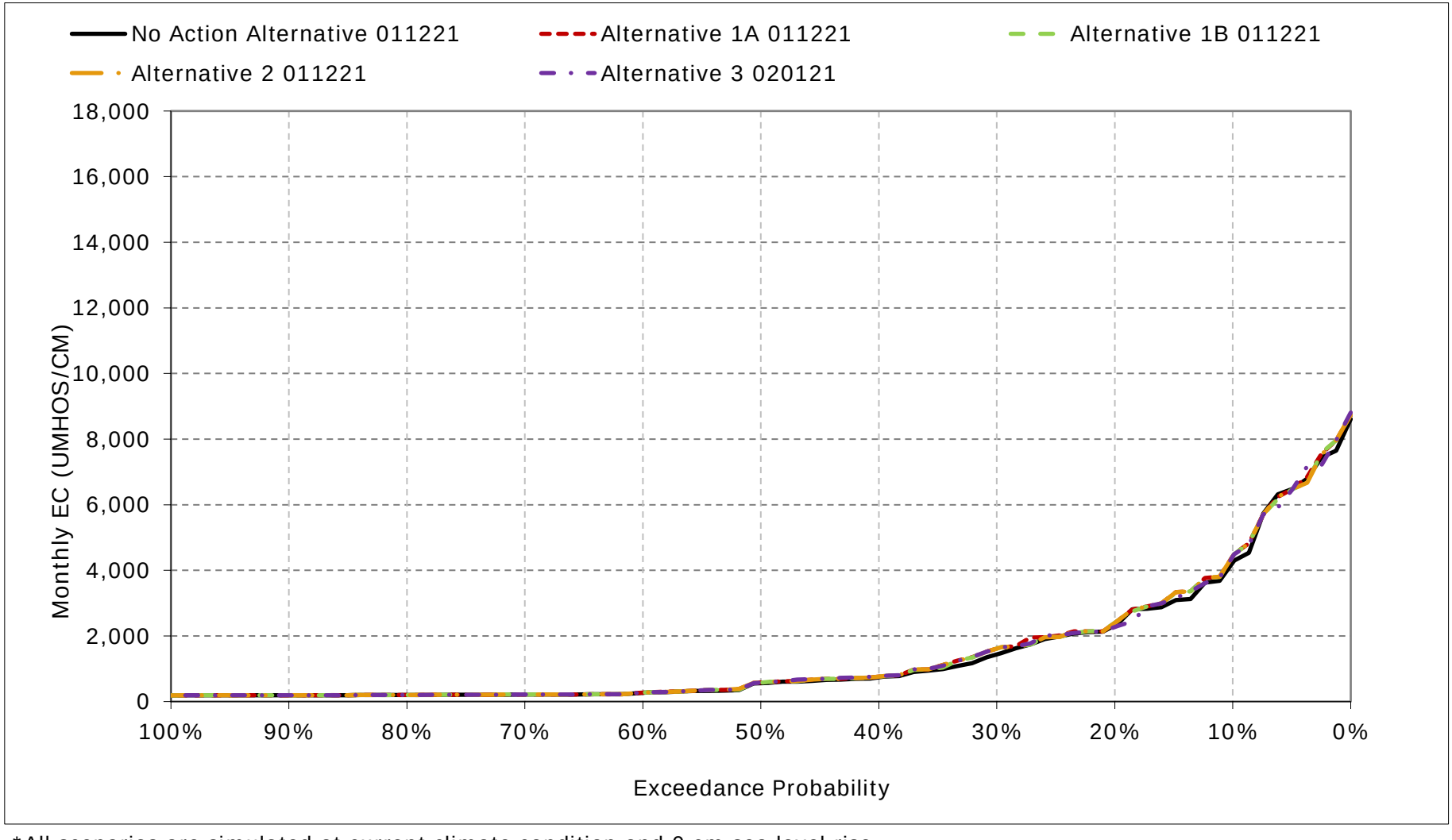
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-7. Chipps Island South Channel Salinity, January EC



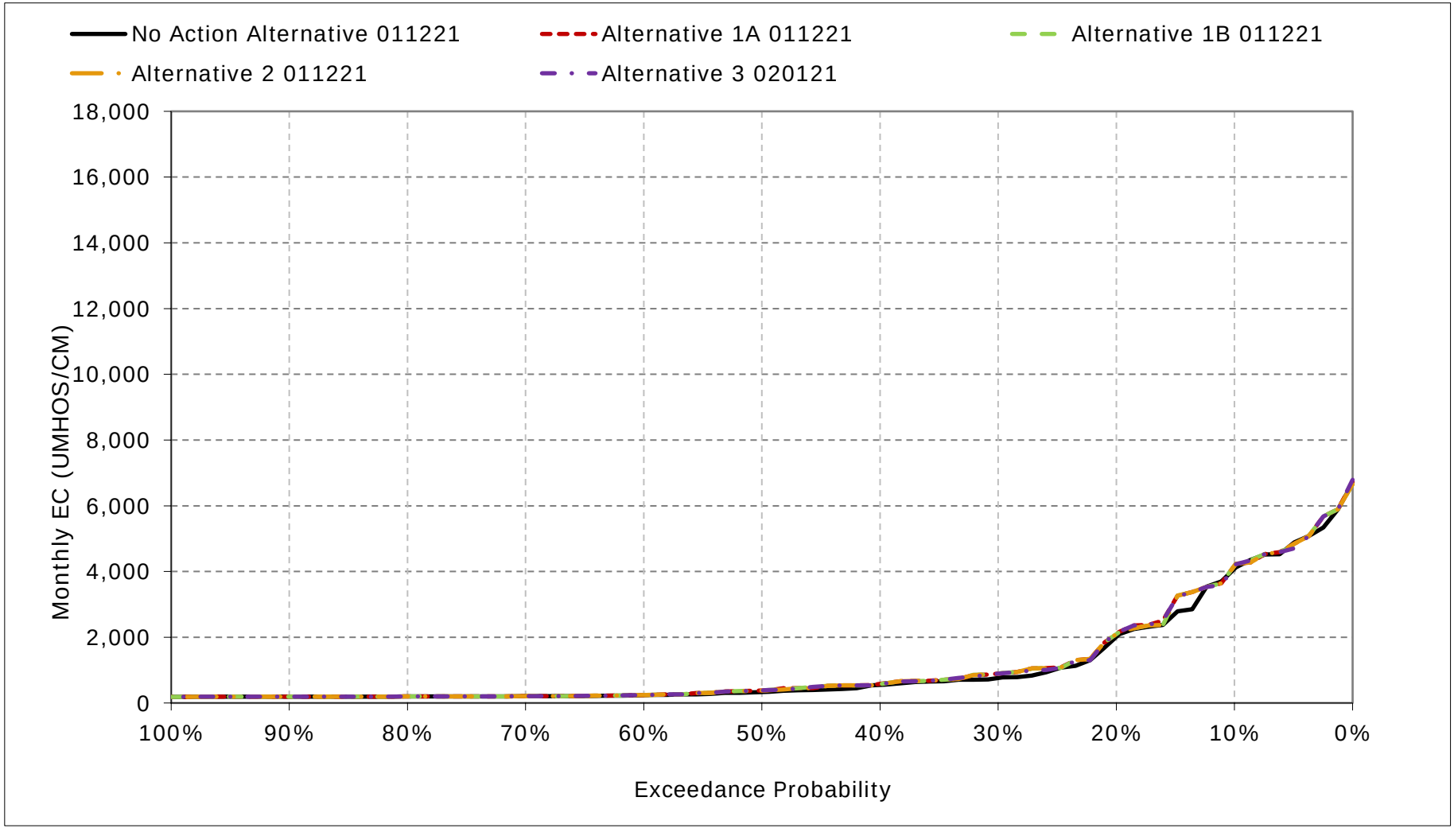
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-8. Chipps Island South Channel Salinity, February EC



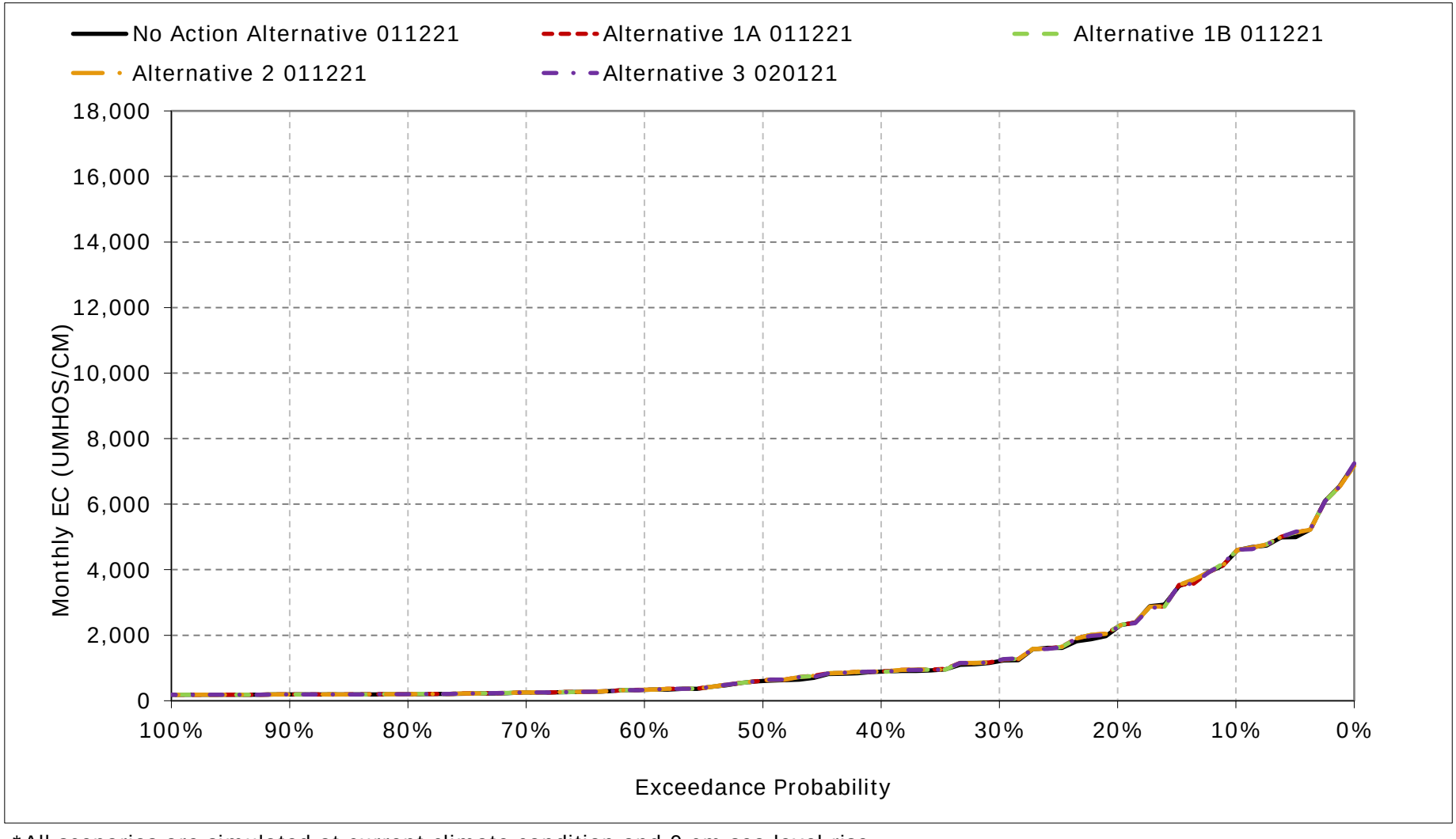
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-9. Chipps Island South Channel Salinity, March EC



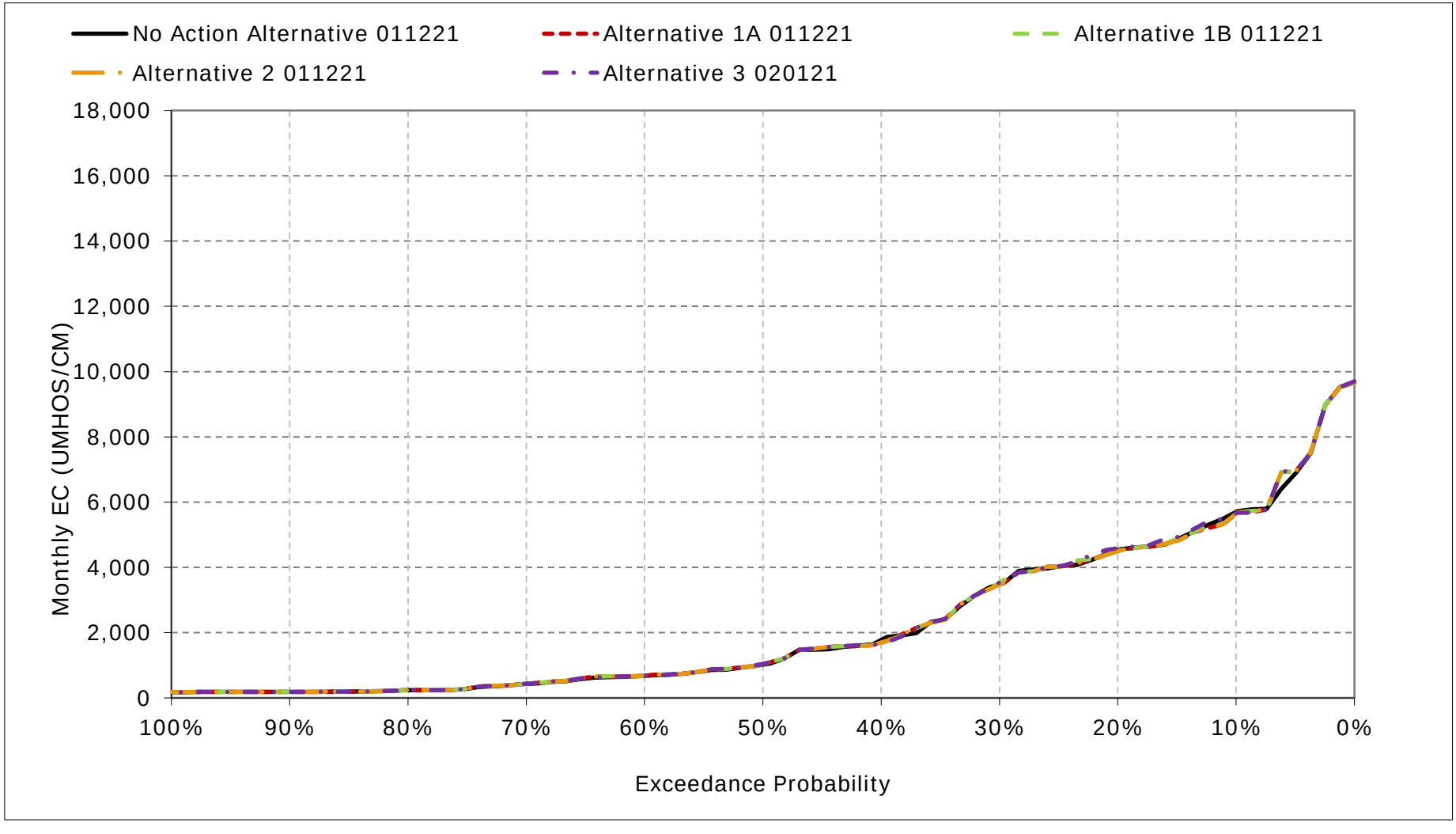
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-10. Chipps Island South Channel Salinity, April EC



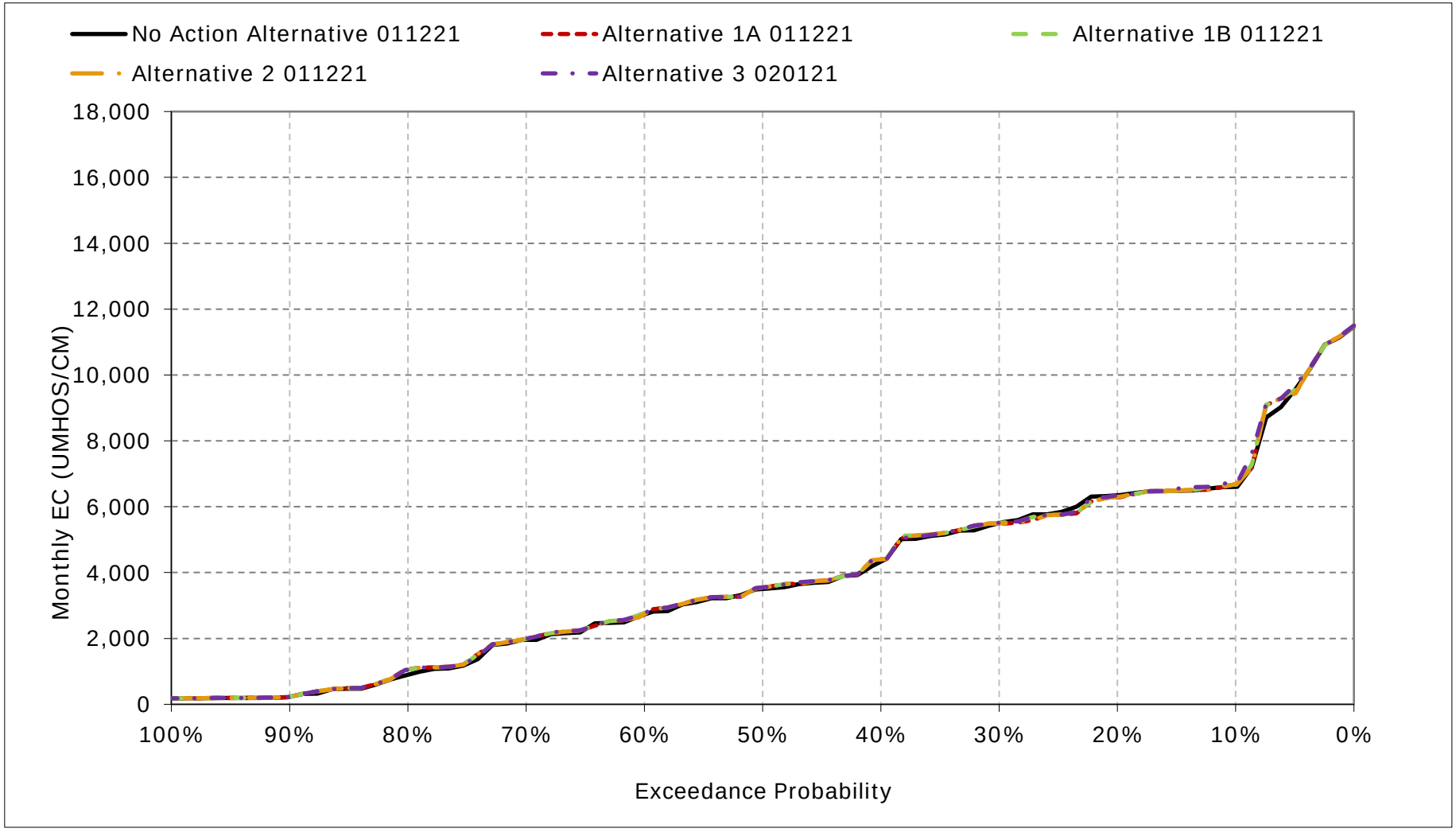
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-11. Chipps Island South Channel Salinity, May EC



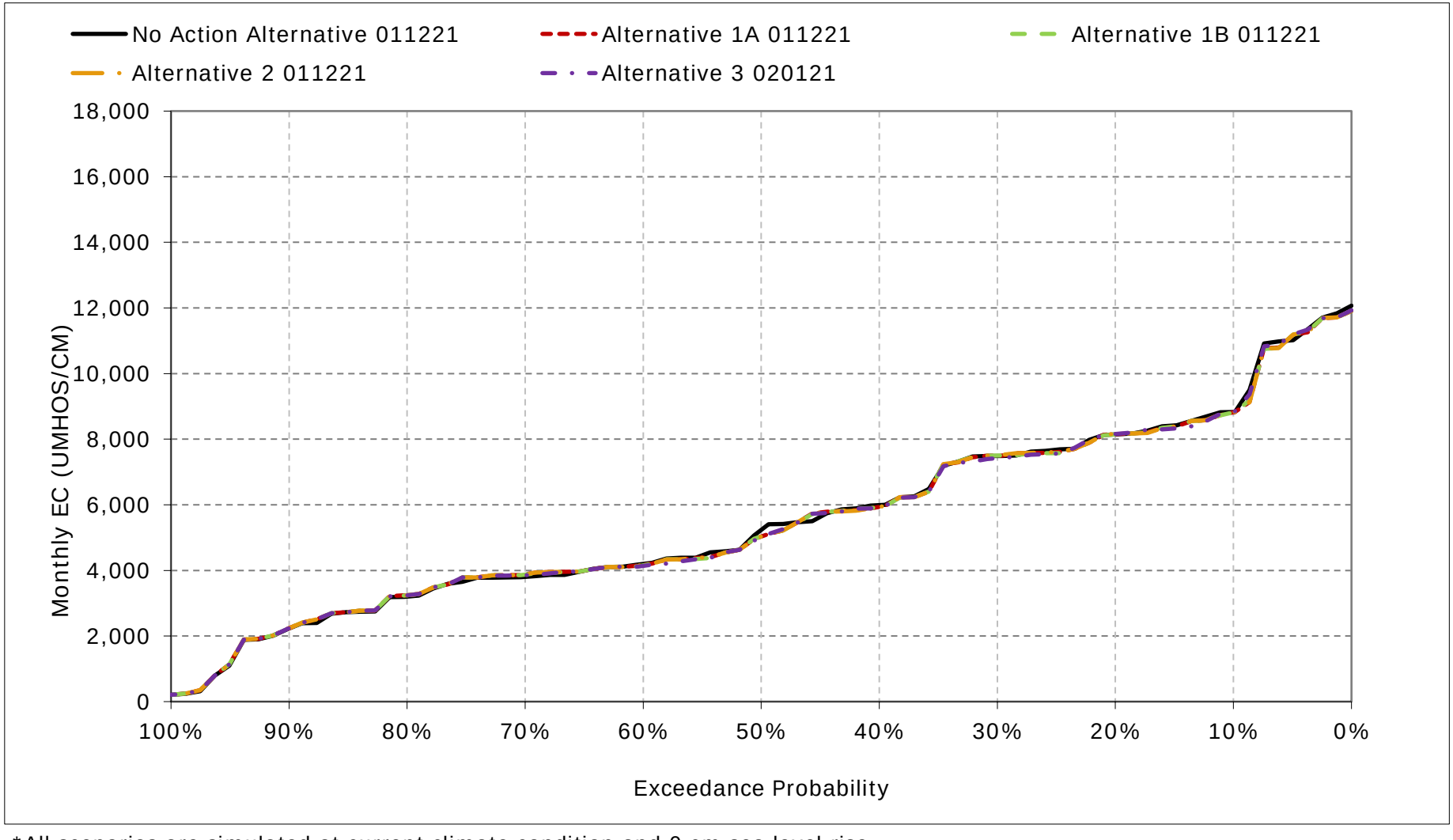
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-12. Chipps Island South Channel Salinity, June EC



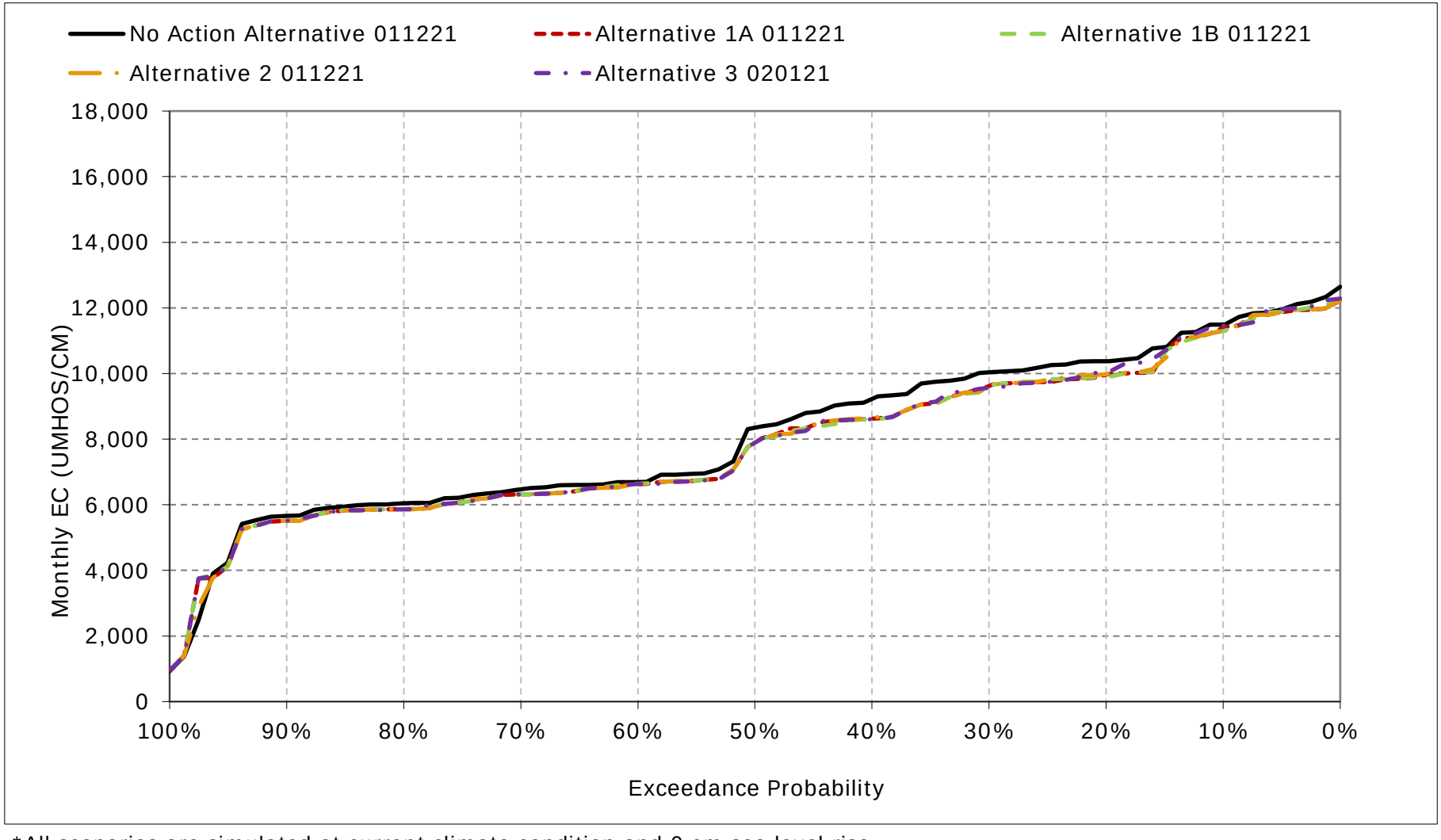
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-13. Chipps Island South Channel Salinity, July EC



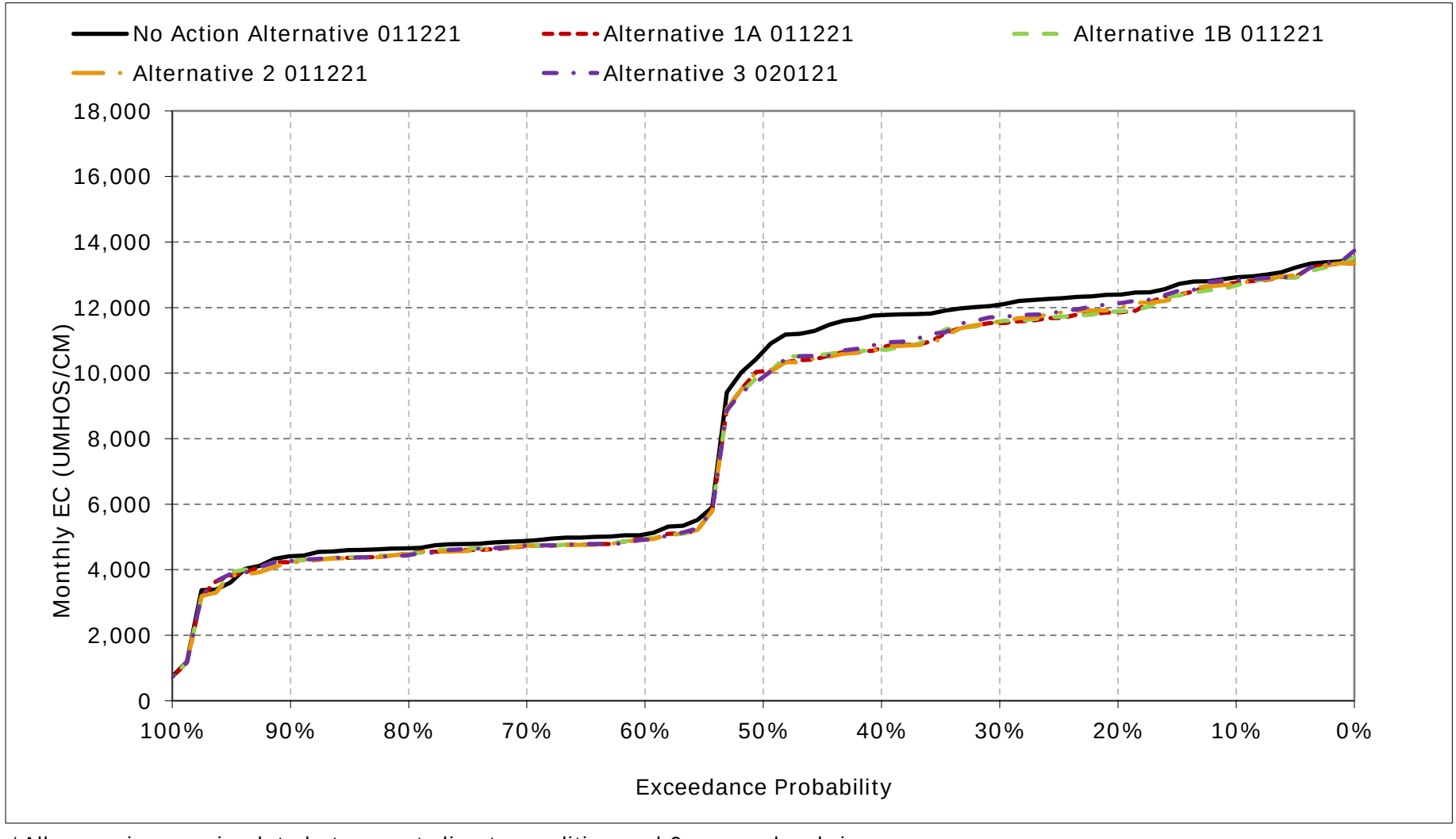
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-14. Chipps Island South Channel Salinity, August EC



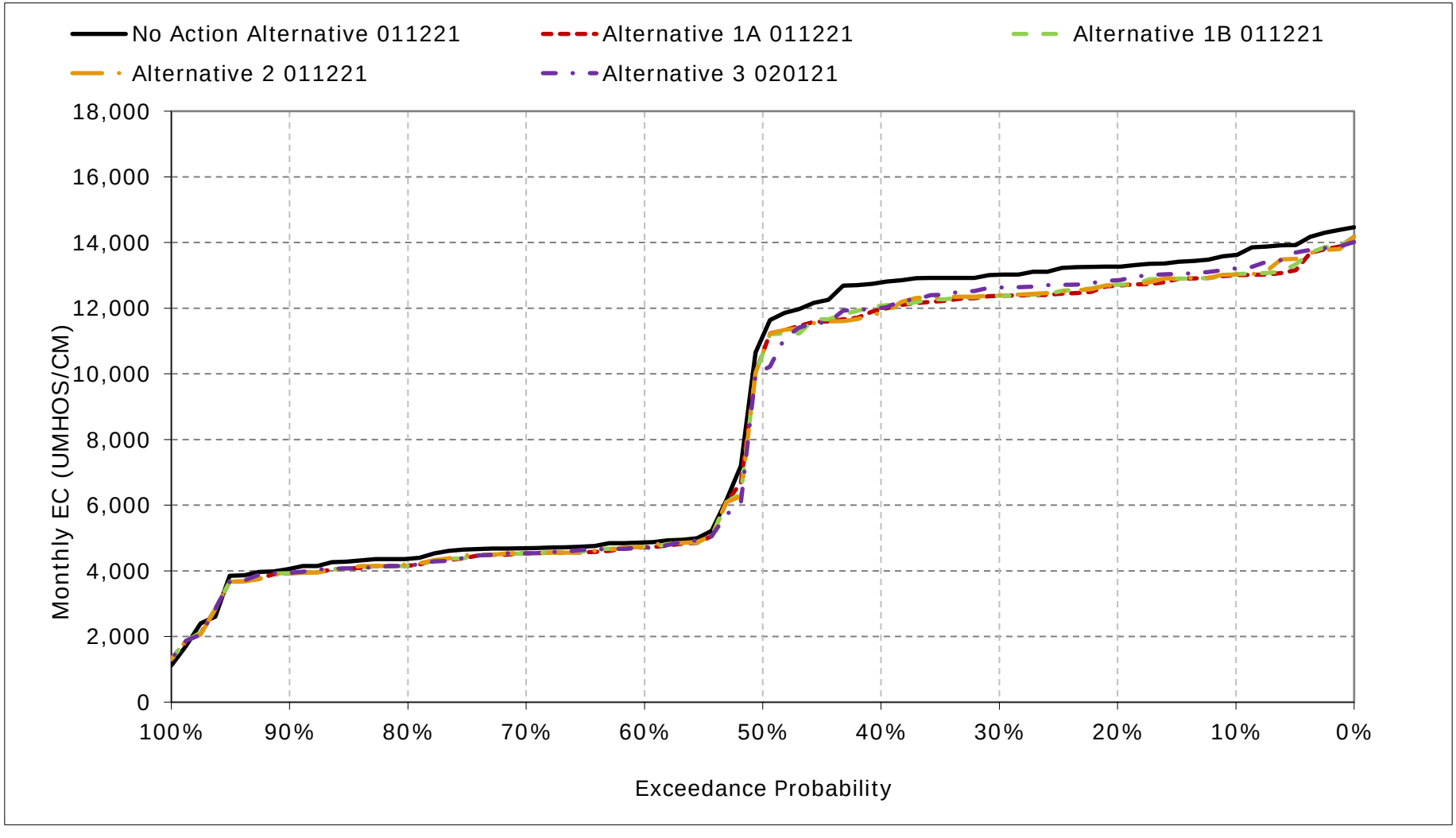
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-15. Chipps Island South Channel Salinity, September EC



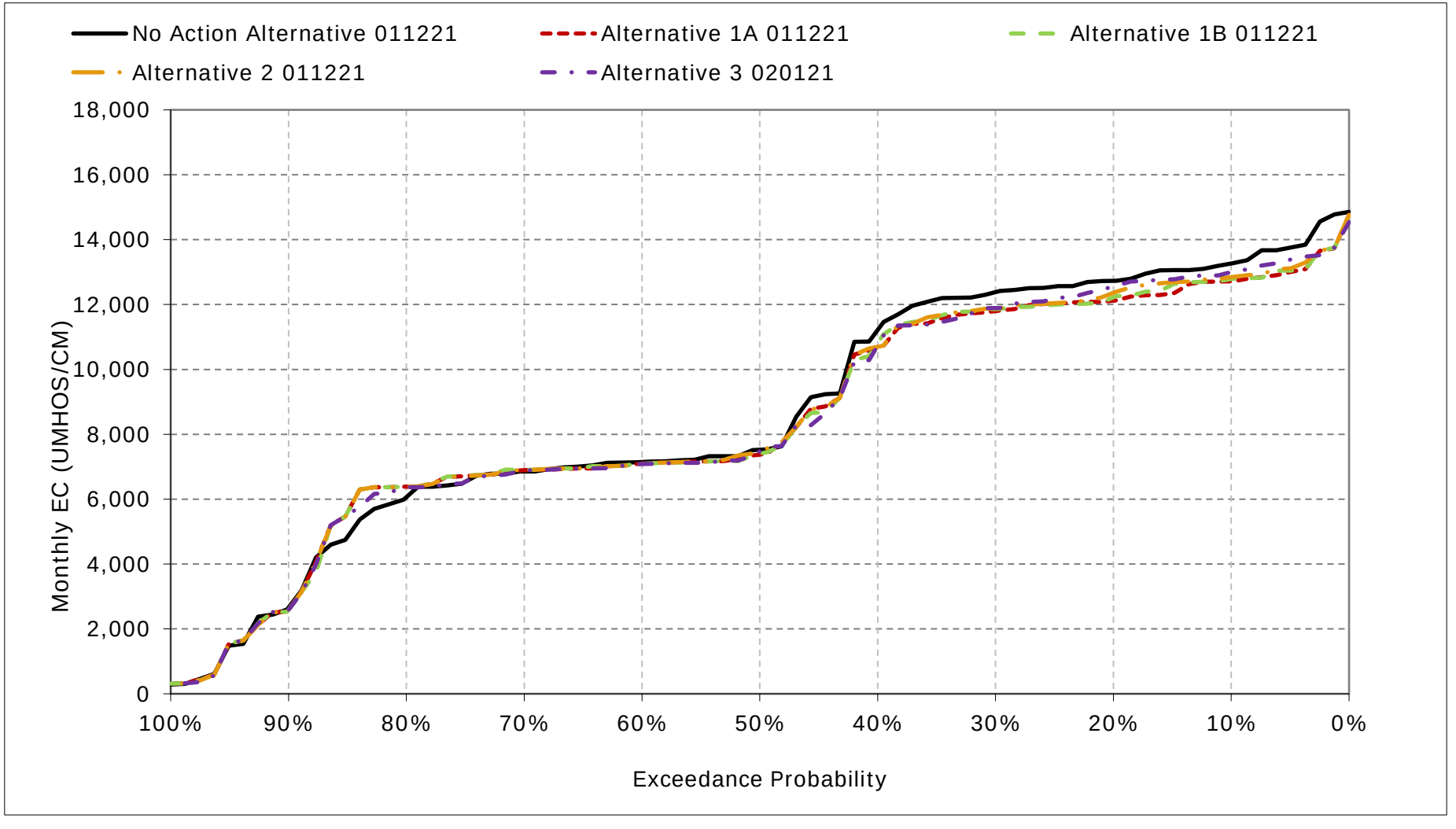
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-16. Chipps Island South Channel Salinity, October EC



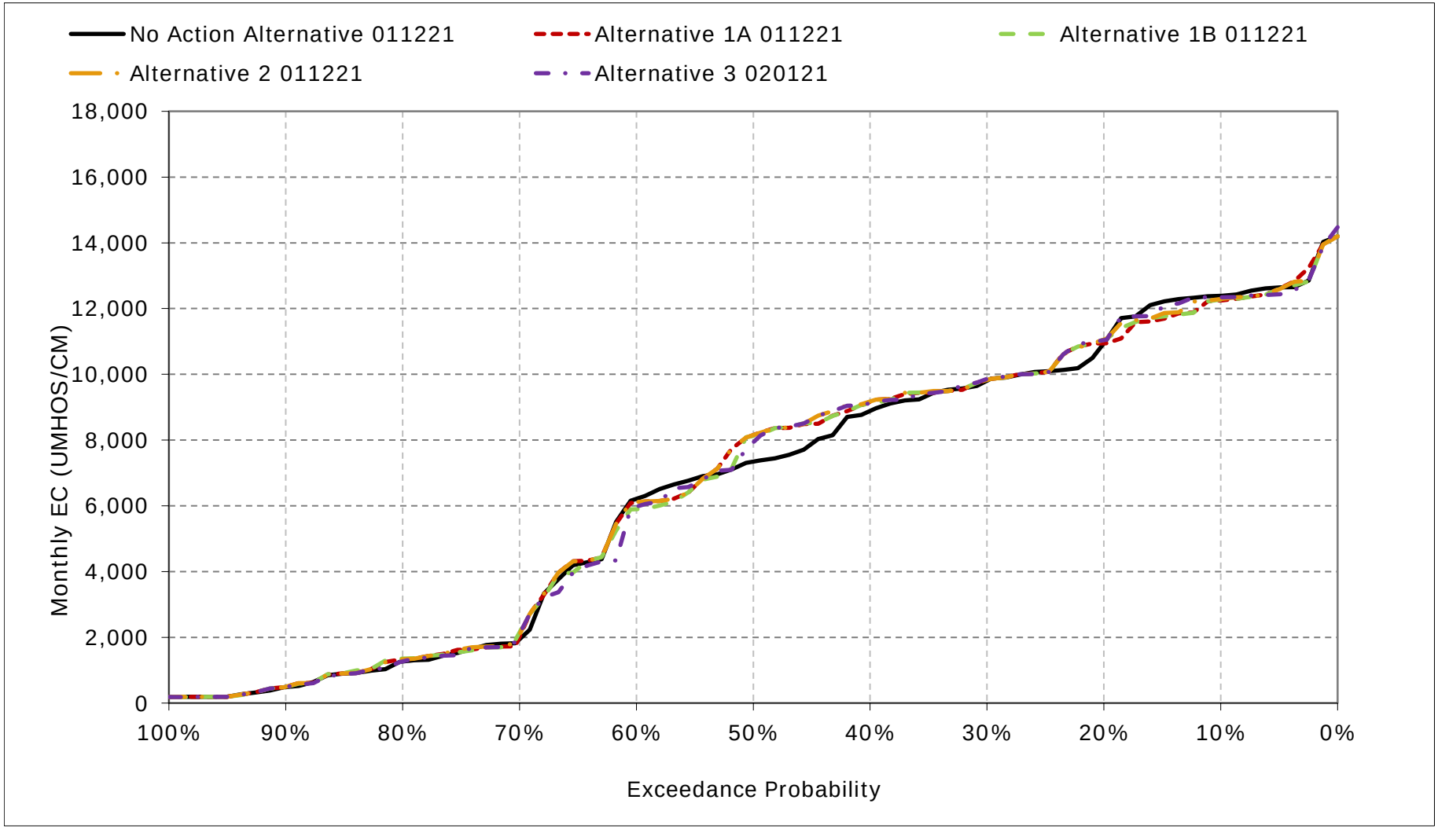
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-17. Chipps Island South Channel Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-9-18. Chipps Island South Channel Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-10-1a. Sacramento River at Port Chicago, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,688	18,357	17,906	15,249	10,113	9,596	9,925	11,478	12,728	14,993	17,303	18,442
20%	18,371	18,078	16,756	13,797	6,592	6,625	6,962	10,149	12,262	14,099	16,303	17,842
30%	18,173	17,655	15,614	12,029	4,571	3,379	4,931	8,768	11,272	13,612	15,921	17,574
40%	18,013	16,775	14,780	8,285	3,118	2,639	4,021	6,103	10,313	12,222	14,930	17,225
50%	16,772	13,521	13,562	6,302	1,632	1,720	2,958	4,475	8,746	11,356	14,157	16,393
60%	10,700	13,213	12,282	4,048	613	1,013	1,844	3,408	8,035	10,073	12,472	10,701
70%	10,478	12,989	5,883	961	336	501	1,154	2,595	6,358	9,443	12,204	10,554
80%	10,033	12,131	3,838	389	216	235	450	1,184	4,164	8,591	11,710	10,235
90%	9,654	7,616	1,091	216	203	200	215	385	1,169	6,564	11,302	9,766
Long Term												
Full Simulation Period[a]	14,194	14,061	11,099	6,856	3,524	3,107	3,846	5,582	8,383	11,088	13,842	14,057
Water Year Types[b]												
Wet (32%)	9,687	10,758	9,352	1,443	430	607	969	1,839	4,025	7,349	11,044	9,656
Above Normal (15%)	10,543	12,299	10,276	4,437	1,261	695	1,552	2,991	6,764	9,339	11,965	10,439
Below Normal (17%)	16,395	14,210	10,026	7,913	2,729	2,975	3,572	5,329	8,911	11,566	14,501	16,765
Dry (22%)	18,365	16,835	11,572	10,974	6,155	4,684	5,824	8,393	11,319	13,875	16,102	17,716
Critical (15%)	18,787	18,645	16,250	13,594	9,471	8,727	9,729	12,361	14,427	16,200	17,621	18,559

Table 6B1-10-1b. Sacramento River at Port Chicago, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,288	18,003	17,622	15,191	10,083	9,605	9,923	11,403	12,703	14,908	17,293	18,339
20%	17,954	17,515	16,781	14,120	6,639	6,736	7,031	10,151	12,242	14,046	15,954	17,475
30%	17,704	17,357	15,632	12,516	4,712	3,826	4,984	8,745	11,312	13,630	15,681	17,315
40%	17,416	16,364	15,010	8,566	3,271	3,050	4,097	6,034	10,401	12,182	14,461	16,474
50%	16,417	13,487	14,277	6,398	1,785	2,004	3,126	4,531	8,767	11,198	13,747	15,867
60%	10,588	13,138	12,185	4,253	626	1,160	1,885	3,474	8,088	10,039	12,447	10,616
70%	10,384	12,967	6,145	1,081	359	530	1,158	2,649	6,422	9,474	12,117	10,374
80%	9,854	12,476	3,727	405	224	247	472	1,184	4,420	8,668	11,638	10,129
90%	9,527	7,508	1,126	217	203	200	226	389	1,183	6,577	11,197	9,621
Long Term												
Full Simulation Period[a]	13,921	13,926	11,159	6,979	3,620	3,247	3,886	5,596	8,431	11,088	13,676	13,831
Water Year Types[b]												
Wet (32%)	9,607	10,881	9,497	1,473	440	638	983	1,850	4,074	7,386	11,021	9,581
Above Normal (15%)	10,457	12,293	10,369	4,635	1,314	791	1,583	3,019	6,850	9,369	11,902	10,325
Below Normal (17%)	16,057	14,154	10,087	8,035	2,848	3,208	3,649	5,365	9,003	11,524	14,128	16,292
Dry (22%)	17,956	16,442	11,440	11,144	6,304	4,910	5,885	8,379	11,316	13,851	15,783	17,289
Critical (15%)	18,186	18,114	16,378	13,770	9,695	8,909	9,759	12,383	14,457	16,173	17,512	18,484

Table 6B1-10-1c. Sacramento River at Port Chicago, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-400	-354	-285	-58	-31	9	-2	-75	-25	-85	-10	-103
20%	-417	-563	25	323	47	110	69	1	-20	-53	-349	-367
30%	-469	-299	17	487	142	447	53	-23	40	18	-240	-260
40%	-597	-412	231	280	153	411	76	-69	88	-41	-468	-751
50%	-355	-34	715	97	153	285	168	56	21	-158	-409	-526
60%	-112	-76	-97	206	13	147	41	66	53	-34	-25	-85
70%	-94	-21	262	120	23	28	4	54	64	31	-87	-180
80%	-179	345	-111	15	7	12	22	0	257	77	-72	-106
90%	-127	-107	35	1	0	0	11	5	14	13	-105	-145
Long Term												
Full Simulation Period[a]	-273	-135	60	122	96	140	40	14	48	0	-166	-226
Water Year Types[b]												
Wet (32%)	-80	123	145	30	9	31	14	11	50	37	-23	-75
Above Normal (15%)	-87	-5	93	198	53	96	31	28	86	30	-63	-114
Below Normal (17%)	-338	-56	61	122	119	233	77	36	92	-42	-373	-473
Dry (22%)	-409	-393	-132	169	148	226	61	-14	-4	-24	-320	-427
Critical (15%)	-601	-531	127	175	224	181	30	22	30	-27	-109	-75

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-10-2a. Sacramento River at Port Chicago, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,688	18,357	17,906	15,249	10,113	9,596	9,925	11,478	12,728	14,993	17,303	18,442
20%	18,371	18,078	16,756	13,797	6,592	6,625	6,962	10,149	12,262	14,099	16,303	17,842
30%	18,173	17,655	15,614	12,029	4,571	3,379	4,931	8,768	11,272	13,612	15,921	17,574
40%	18,013	16,775	14,780	8,285	3,118	2,639	4,021	6,103	10,313	12,222	14,930	17,225
50%	16,772	13,521	13,562	6,302	1,632	1,720	2,958	4,475	8,746	11,356	14,157	16,393
60%	10,700	13,213	12,282	4,048	613	1,013	1,844	3,408	8,035	10,073	12,472	10,701
70%	10,478	12,989	5,883	961	336	501	1,154	2,595	6,358	9,443	12,204	10,554
80%	10,033	12,131	3,838	389	216	235	450	1,184	4,164	8,591	11,710	10,235
90%	9,654	7,616	1,091	216	203	200	215	385	1,169	6,564	11,302	9,766
Long Term												
Full Simulation Period[a]	14,194	14,061	11,099	6,856	3,524	3,107	3,846	5,582	8,383	11,088	13,842	14,057
Water Year Types[b]												
Wet (32%)	9,687	10,758	9,352	1,443	430	607	969	1,839	4,025	7,349	11,044	9,656
Above Normal (15%)	10,543	12,299	10,276	4,437	1,261	695	1,552	2,991	6,764	9,339	11,965	10,439
Below Normal (17%)	16,395	14,210	10,026	7,913	2,729	2,975	3,572	5,329	8,911	11,566	14,501	16,765
Dry (22%)	18,365	16,835	11,572	10,974	6,155	4,684	5,824	8,393	11,319	13,875	16,102	17,716
Critical (15%)	18,787	18,645	16,250	13,594	9,471	8,727	9,729	12,361	14,427	16,200	17,621	18,559

Table 6B1-10-2b. Sacramento River at Port Chicago, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,325	18,076	17,644	15,234	10,072	9,644	9,934	11,471	12,703	14,944	17,244	18,321
20%	18,016	17,612	16,777	14,119	6,660	6,734	7,067	10,144	12,237	14,039	15,962	17,513
30%	17,725	17,306	15,626	12,334	4,731	3,825	4,984	8,824	11,336	13,642	15,687	17,311
40%	17,520	16,477	15,008	8,518	3,190	3,049	4,087	6,027	10,401	12,203	14,447	16,550
50%	16,312	13,494	14,248	6,391	1,778	2,000	3,124	4,532	8,773	11,203	13,750	15,787
60%	10,591	13,125	12,004	4,239	626	1,160	1,885	3,475	8,136	10,041	12,442	10,607
70%	10,428	12,987	7,094	1,073	351	530	1,158	2,649	6,422	9,474	12,117	10,397
80%	9,861	12,476	3,659	404	223	247	471	1,184	4,419	8,667	11,638	10,132
90%	9,560	7,506	1,098	219	203	200	227	407	1,182	6,576	11,196	9,626
Long Term												
Full Simulation Period[a]	13,932	13,924	11,130	6,964	3,605	3,244	3,889	5,601	8,439	11,087	13,671	13,828
Water Year Types[b]												
Wet (32%)	9,610	10,889	9,485	1,482	440	639	983	1,851	4,075	7,386	11,023	9,572
Above Normal (15%)	10,476	12,292	10,300	4,621	1,301	786	1,579	3,023	6,850	9,366	11,904	10,344
Below Normal (17%)	16,017	14,016	9,996	8,024	2,841	3,205	3,647	5,360	9,006	11,512	14,099	16,260
Dry (22%)	17,995	16,508	11,443	11,097	6,281	4,905	5,887	8,394	11,342	13,856	15,785	17,321
Critical (15%)	18,226	18,147	16,379	13,746	9,643	8,902	9,781	12,393	14,465	16,175	17,505	18,453

Table 6B1-10-2c. Sacramento River at Port Chicago, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-363	-281	-263	-15	-41	49	9	-7	-25	-49	-59	-121
20%	-355	-466	22	322	69	109	105	-5	-25	-60	-341	-330
30%	-449	-349	11	305	160	446	53	56	64	30	-234	-263
40%	-493	-298	228	232	72	410	66	-76	88	-19	-483	-676
50%	-460	-27	686	89	147	281	166	57	27	-154	-406	-606
60%	-109	-88	-278	191	14	147	42	67	101	-32	-30	-95
70%	-50	-2	1,211	113	15	28	5	54	64	31	-87	-157
80%	-172	345	-179	15	7	12	21	1	255	76	-72	-103
90%	-95	-109	6	3	0	0	11	23	13	12	-106	-140
Long Term												
Full Simulation Period[a]	-262	-137	31	107	81	137	43	19	55	-1	-171	-229
Water Year Types[b]												
Wet (32%)	-77	131	133	38	9	31	14	12	51	37	-21	-84
Above Normal (15%)	-67	-6	24	184	40	92	27	32	86	27	-61	-95
Below Normal (17%)	-378	-194	-30	111	112	231	74	31	95	-54	-402	-506
Dry (22%)	-371	-327	-128	123	125	221	63	1	23	-19	-317	-395
Critical (15%)	-561	-497	129	152	171	175	52	32	37	-25	-116	-106

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-10-3a. Sacramento River at Port Chicago, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,688	18,357	17,906	15,249	10,113	9,596	9,925	11,478	12,728	14,993	17,303	18,442
20%	18,371	18,078	16,756	13,797	6,592	6,625	6,962	10,149	12,262	14,099	16,303	17,842
30%	18,173	17,655	15,614	12,029	4,571	3,379	4,931	8,768	11,272	13,612	15,921	17,574
40%	18,013	16,775	14,780	8,285	3,118	2,639	4,021	6,103	10,313	12,222	14,930	17,225
50%	16,772	13,521	13,562	6,302	1,632	1,720	2,958	4,475	8,746	11,356	14,157	16,393
60%	10,700	13,213	12,282	4,048	613	1,013	1,844	3,408	8,035	10,073	12,472	10,701
70%	10,478	12,989	5,883	961	336	501	1,154	2,595	6,358	9,443	12,204	10,554
80%	10,033	12,131	3,838	389	216	235	450	1,184	4,164	8,591	11,710	10,235
90%	9,654	7,616	1,091	216	203	200	215	385	1,169	6,564	11,302	9,766
Long Term												
Full Simulation Period[a]	14,194	14,061	11,099	6,856	3,524	3,107	3,846	5,582	8,383	11,088	13,842	14,057
Water Year Types[b]												
Wet (32%)	9,687	10,758	9,352	1,443	430	607	969	1,839	4,025	7,349	11,044	9,656
Above Normal (15%)	10,543	12,299	10,276	4,437	1,261	695	1,552	2,991	6,764	9,339	11,965	10,439
Below Normal (17%)	16,395	14,210	10,026	7,913	2,729	2,975	3,572	5,329	8,911	11,566	14,501	16,765
Dry (22%)	18,365	16,835	11,572	10,974	6,155	4,684	5,824	8,393	11,319	13,875	16,102	17,716
Critical (15%)	18,787	18,645	16,250	13,594	9,471	8,727	9,729	12,361	14,427	16,200	17,621	18,559

Table 6B1-10-3b. Sacramento River at Port Chicago, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,317	18,097	17,729	15,202	10,088	9,605	9,923	11,469	12,709	14,904	17,260	18,346
20%	17,978	17,619	16,774	14,118	6,637	6,735	7,031	10,150	12,242	14,045	15,970	17,570
30%	17,758	17,429	15,631	12,512	4,717	3,825	4,983	8,745	11,303	13,630	15,745	17,332
40%	17,395	16,367	15,032	8,570	3,272	3,049	4,097	6,034	10,402	12,182	14,464	16,460
50%	16,433	13,478	14,275	6,398	1,794	2,003	3,126	4,531	8,767	11,202	13,750	15,910
60%	10,585	13,156	12,196	4,253	626	1,160	1,885	3,474	8,088	10,039	12,429	10,601
70%	10,382	12,983	6,145	1,040	357	530	1,158	2,649	6,422	9,474	12,117	10,374
80%	9,882	12,475	3,806	404	223	243	472	1,184	4,419	8,667	11,638	10,129
90%	9,526	7,502	1,125	217	203	200	226	388	1,182	6,576	11,196	9,621
Long Term												
Full Simulation Period[a]	13,936	13,964	11,181	6,982	3,612	3,242	3,888	5,596	8,431	11,087	13,669	13,827
Water Year Types[b]												
Wet (32%)	9,623	10,893	9,497	1,471	439	638	982	1,849	4,074	7,385	10,990	9,541
Above Normal (15%)	10,454	12,290	10,368	4,636	1,311	789	1,583	3,021	6,852	9,369	11,899	10,323
Below Normal (17%)	16,012	14,145	10,084	8,075	2,850	3,206	3,648	5,362	9,001	11,521	14,133	16,292
Dry (22%)	17,994	16,580	11,552	11,142	6,303	4,898	5,879	8,379	11,317	13,852	15,797	17,326
Critical (15%)	18,252	18,158	16,369	13,753	9,638	8,895	9,780	12,389	14,459	16,174	17,513	18,492

Table 6B1-10-3c. Sacramento River at Port Chicago, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-371	-260	-177	-47	-25	9	-2	-9	-19	-89	-43	-95
20%	-393	-459	18	321	45	110	69	1	-20	-54	-333	-272
30%	-415	-226	17	483	147	446	52	-23	31	19	-176	-242
40%	-618	-408	252	285	154	410	76	-69	89	-40	-466	-766
50%	-339	-44	713	97	162	284	168	56	21	-154	-406	-483
60%	-115	-57	-86	205	13	147	41	66	52	-34	-43	-100
70%	-96	-6	262	79	21	28	4	54	64	31	-87	-180
80%	-151	344	-32	15	7	8	22	1	255	76	-72	-106
90%	-128	-113	34	1	0	0	11	4	13	12	-106	-145
Long Term												
Full Simulation Period[a]	-258	-97	82	126	88	135	41	14	48	-1	-172	-230
Water Year Types[b]												
Wet (32%)	-64	135	145	27	9	31	13	10	49	36	-54	-115
Above Normal (15%)	-89	-9	92	199	50	95	31	29	88	30	-66	-116
Below Normal (17%)	-383	-65	58	162	121	231	76	33	90	-44	-368	-474
Dry (22%)	-371	-255	-19	168	148	214	55	-15	-2	-23	-305	-389
Critical (15%)	-535	-487	119	158	167	168	52	28	32	-25	-109	-67

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-10-4a. Sacramento River at Port Chicago, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,688	18,357	17,906	15,249	10,113	9,596	9,925	11,478	12,728	14,993	17,303	18,442
20%	18,371	18,078	16,756	13,797	6,592	6,625	6,962	10,149	12,262	14,099	16,303	17,842
30%	18,173	17,655	15,614	12,029	4,571	3,379	4,931	8,768	11,272	13,612	15,921	17,574
40%	18,013	16,775	14,780	8,285	3,118	2,639	4,021	6,103	10,313	12,222	14,930	17,225
50%	16,772	13,521	13,562	6,302	1,632	1,720	2,958	4,475	8,746	11,356	14,157	16,393
60%	10,700	13,213	12,282	4,048	613	1,013	1,844	3,408	8,035	10,073	12,472	10,701
70%	10,478	12,989	5,883	961	336	501	1,154	2,595	6,358	9,443	12,204	10,554
80%	10,033	12,131	3,838	389	216	235	450	1,184	4,164	8,591	11,710	10,235
90%	9,654	7,616	1,091	216	203	200	215	385	1,169	6,564	11,302	9,766
Long Term												
Full Simulation Period[a]	14,194	14,061	11,099	6,856	3,524	3,107	3,846	5,582	8,383	11,088	13,842	14,057
Water Year Types[b]												
Wet (32%)	9,687	10,758	9,352	1,443	430	607	969	1,839	4,025	7,349	11,044	9,656
Above Normal (15%)	10,543	12,299	10,276	4,437	1,261	695	1,552	2,991	6,764	9,339	11,965	10,439
Below Normal (17%)	16,395	14,210	10,026	7,913	2,729	2,975	3,572	5,329	8,911	11,566	14,501	16,765
Dry (22%)	18,365	16,835	11,572	10,974	6,155	4,684	5,824	8,393	11,319	13,875	16,102	17,716
Critical (15%)	18,787	18,645	16,250	13,594	9,471	8,727	9,729	12,361	14,427	16,200	17,621	18,559

Table 6B1-10-4b. Sacramento River at Port Chicago, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,352	18,197	17,795	14,949	10,057	9,636	9,947	11,421	12,796	14,972	17,295	18,413
20%	18,103	17,887	16,779	14,035	6,635	6,746	7,002	10,159	12,263	14,041	16,008	17,633
30%	17,911	17,406	15,634	12,258	4,673	3,819	4,982	8,833	11,337	13,643	15,668	17,368
40%	17,559	16,453	15,016	8,523	3,240	3,049	4,088	5,993	10,409	12,205	14,494	16,646
50%	16,029	13,586	14,178	6,409	1,783	2,004	3,056	4,529	8,775	11,195	13,745	15,794
60%	10,594	13,097	12,102	4,212	626	1,160	1,874	3,421	8,126	10,025	12,411	10,568
70%	10,383	12,924	6,765	1,080	334	530	1,157	2,648	6,420	9,467	12,117	10,372
80%	9,851	12,466	3,594	376	221	249	471	1,184	4,418	8,666	11,622	10,139
90%	9,568	7,501	1,058	219	203	201	227	394	1,182	6,577	11,192	9,617
Long Term												
Full Simulation Period[a]	13,958	13,933	11,118	6,961	3,599	3,239	3,882	5,612	8,451	11,079	13,686	13,863
Water Year Types[b]												
Wet (32%)	9,617	10,881	9,486	1,455	440	639	983	1,851	4,075	7,387	11,018	9,591
Above Normal (15%)	10,475	12,248	10,170	4,622	1,296	788	1,580	3,023	6,852	9,340	11,892	10,297
Below Normal (17%)	15,905	13,911	9,787	8,206	2,847	3,202	3,637	5,343	9,008	11,502	14,105	16,261
Dry (22%)	18,081	16,611	11,622	10,995	6,210	4,878	5,878	8,446	11,382	13,834	15,828	17,434
Critical (15%)	18,392	18,242	16,397	13,729	9,705	8,906	9,756	12,411	14,486	16,193	17,561	18,529

Table 6B1-10-4c. Sacramento River at Port Chicago, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-336	-160	-112	-300	-57	41	22	-57	68	-20	-8	-29
20%	-268	-191	23	238	43	121	40	10	2	-59	-295	-209
30%	-262	-249	19	229	102	441	51	65	65	31	-253	-206
40%	-455	-322	236	238	122	411	67	-110	96	-17	-436	-580
50%	-743	65	616	107	152	284	97	54	29	-161	-411	-600
60%	-106	-116	-180	164	13	147	30	13	90	-48	-61	-134
70%	-95	-64	882	119	-2	28	3	54	62	24	-87	-182
80%	-182	335	-244	-13	5	15	21	0	254	76	-88	-96
90%	-86	-115	-33	3	0	1	11	9	14	13	-110	-149
Long Term												
Full Simulation Period[a]	-236	-128	19	105	75	131	35	30	68	-9	-156	-194
Water Year Types[b]												
Wet (32%)	-69	123	134	12	10	32	14	12	51	37	-27	-65
Above Normal (15%)	-68	-51	-106	185	36	93	28	32	88	1	-73	-142
Below Normal (17%)	-490	-299	-239	294	118	228	65	15	97	-64	-396	-504
Dry (22%)	-285	-224	51	20	55	194	54	52	63	-41	-274	-282
Critical (15%)	-395	-402	147	135	234	178	27	50	59	-7	-60	-30

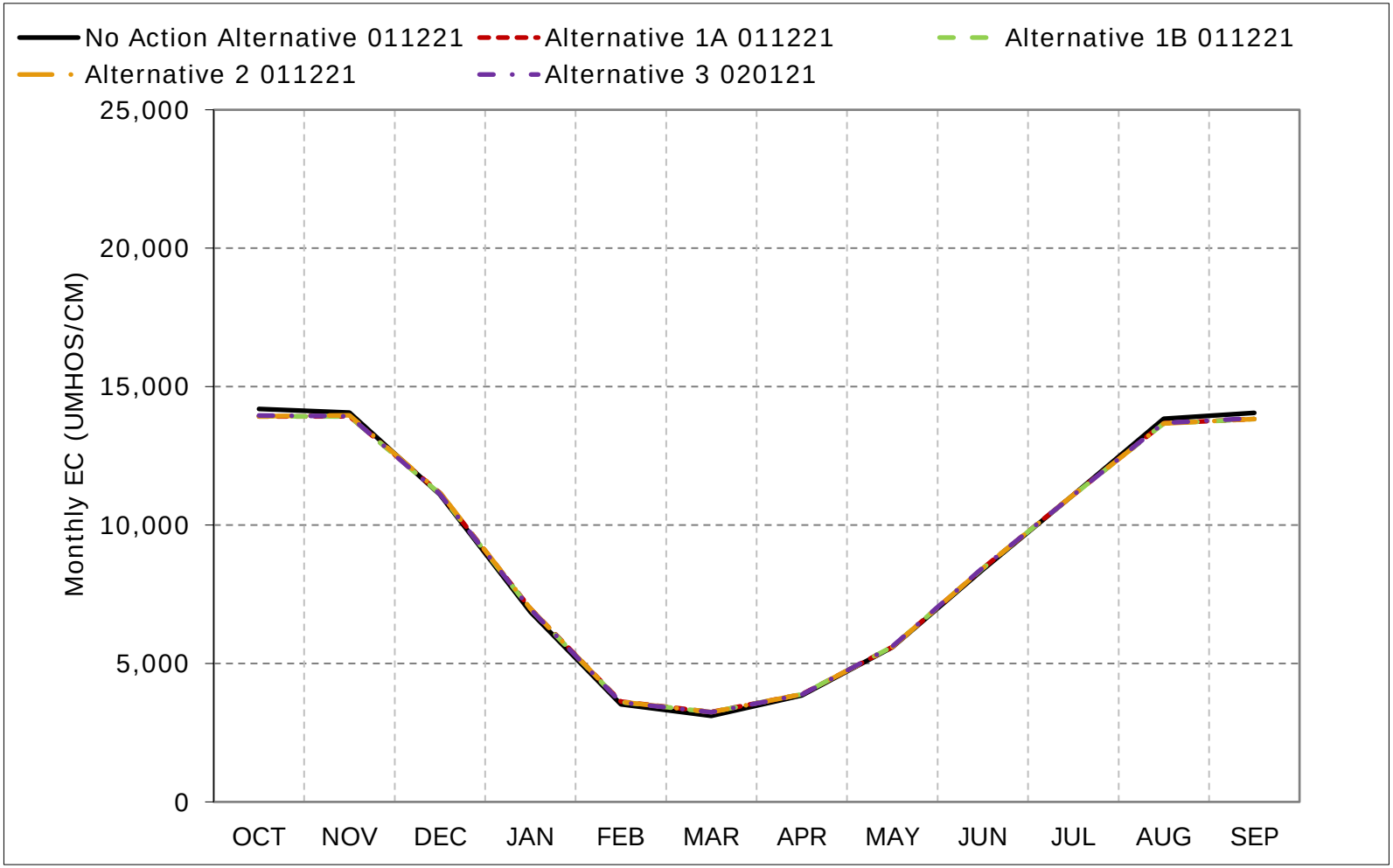
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-1. Sacramento River at Port Chicago, Long-Term Average EC

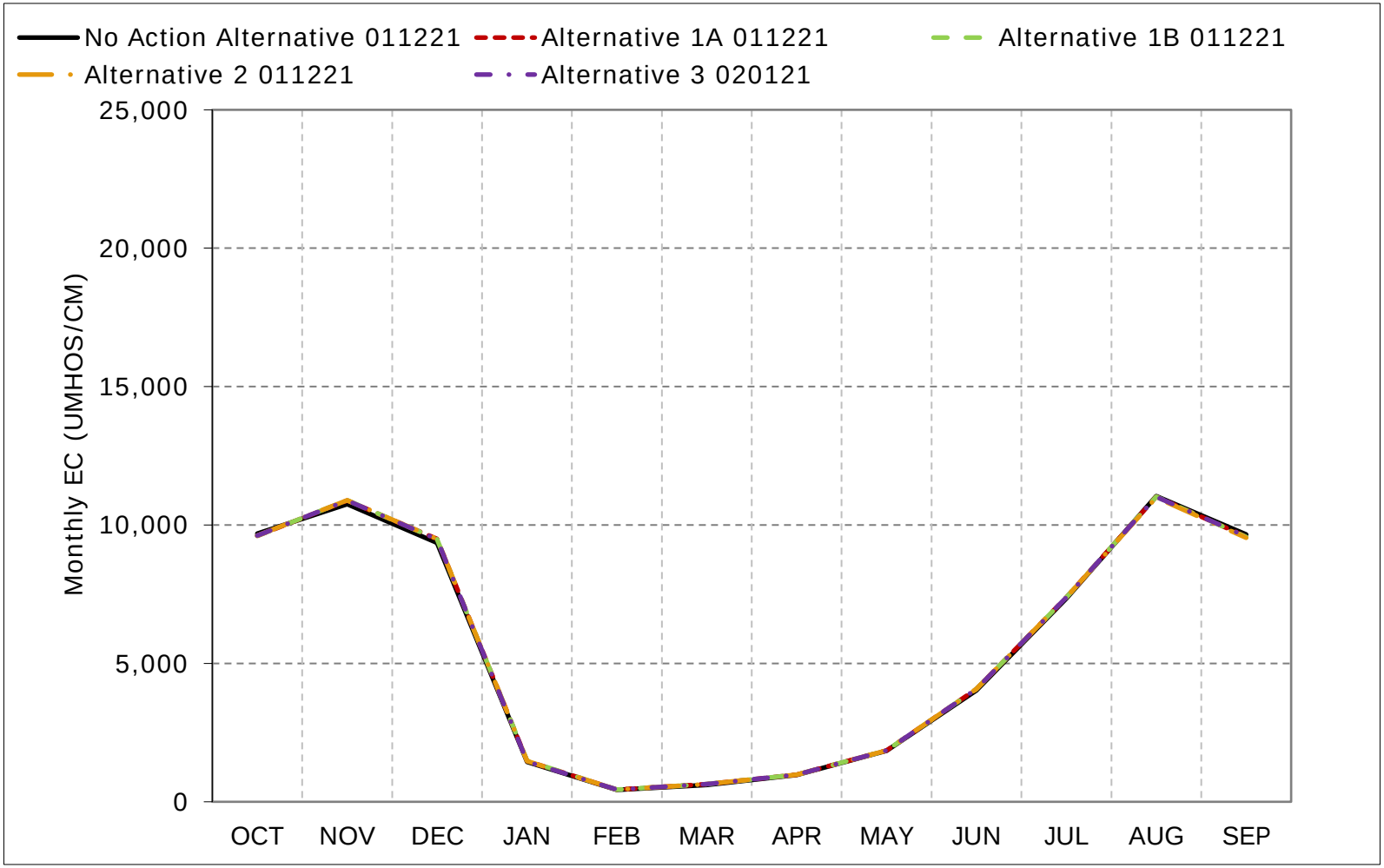


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-2. Sacramento River at Port Chicago, Wet Year Average EC

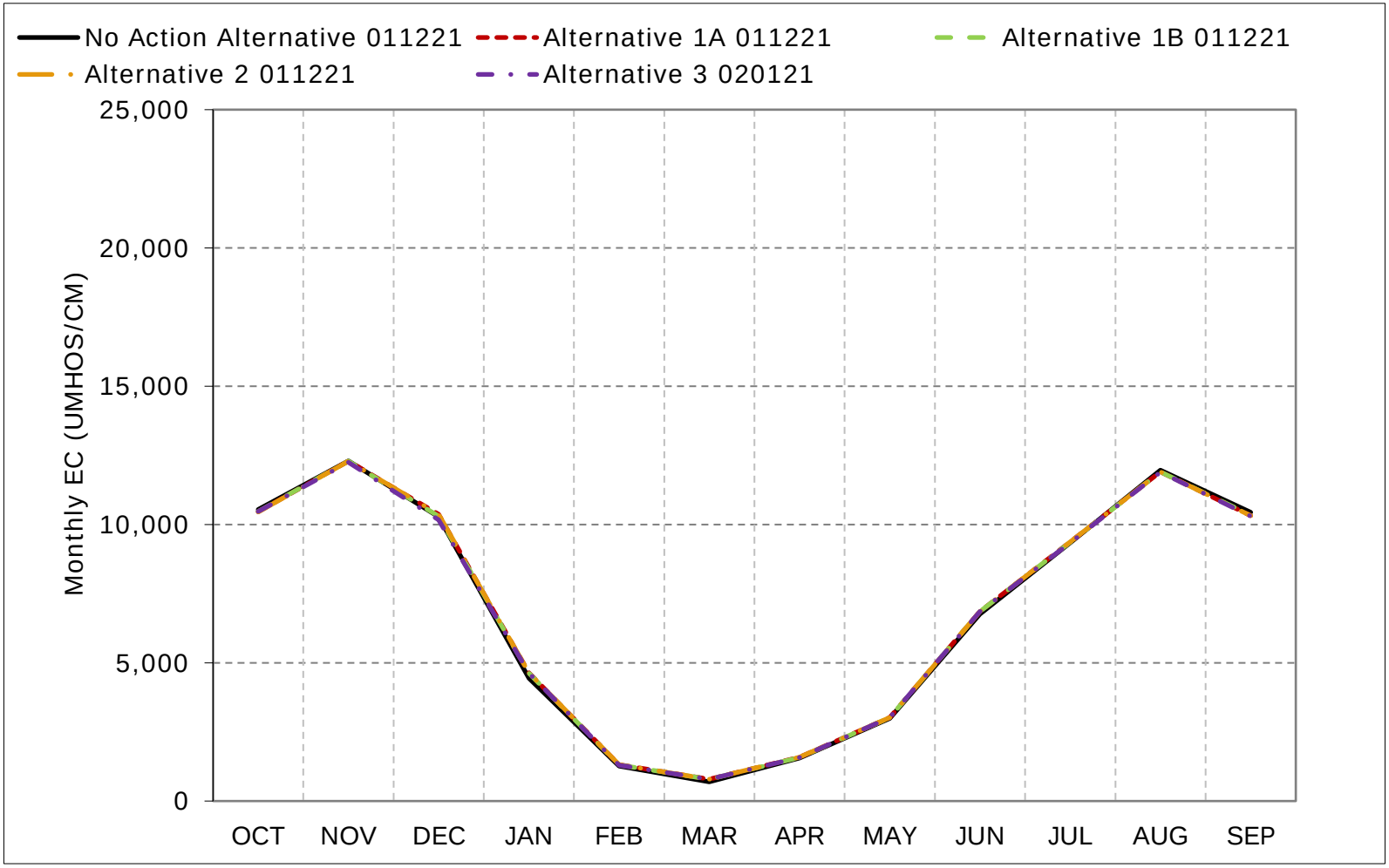


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-3. Sacramento River at Port Chicago, Above Normal Year Average EC

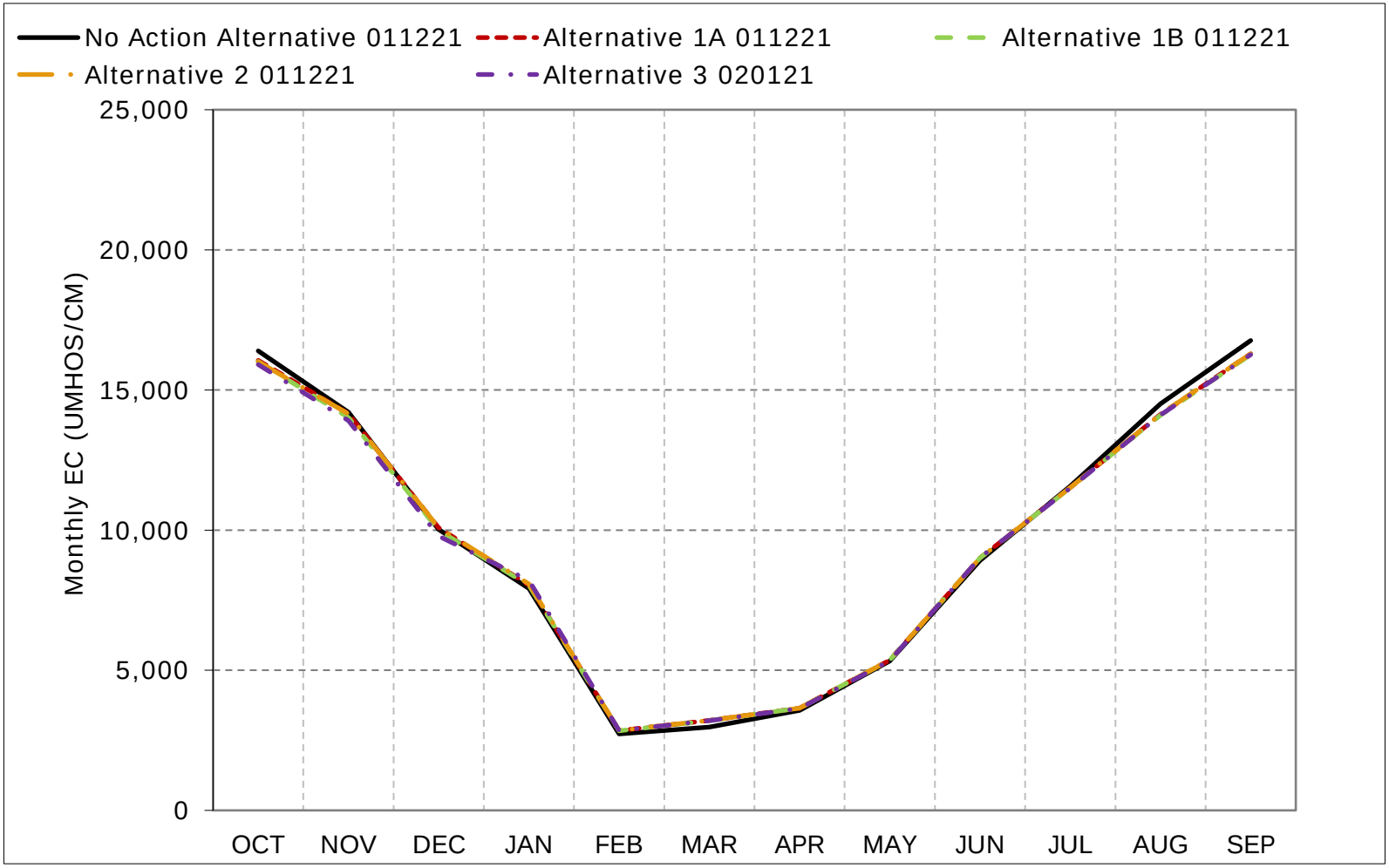


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-4. Sacramento River at Port Chicago, Below Normal Year Average EC

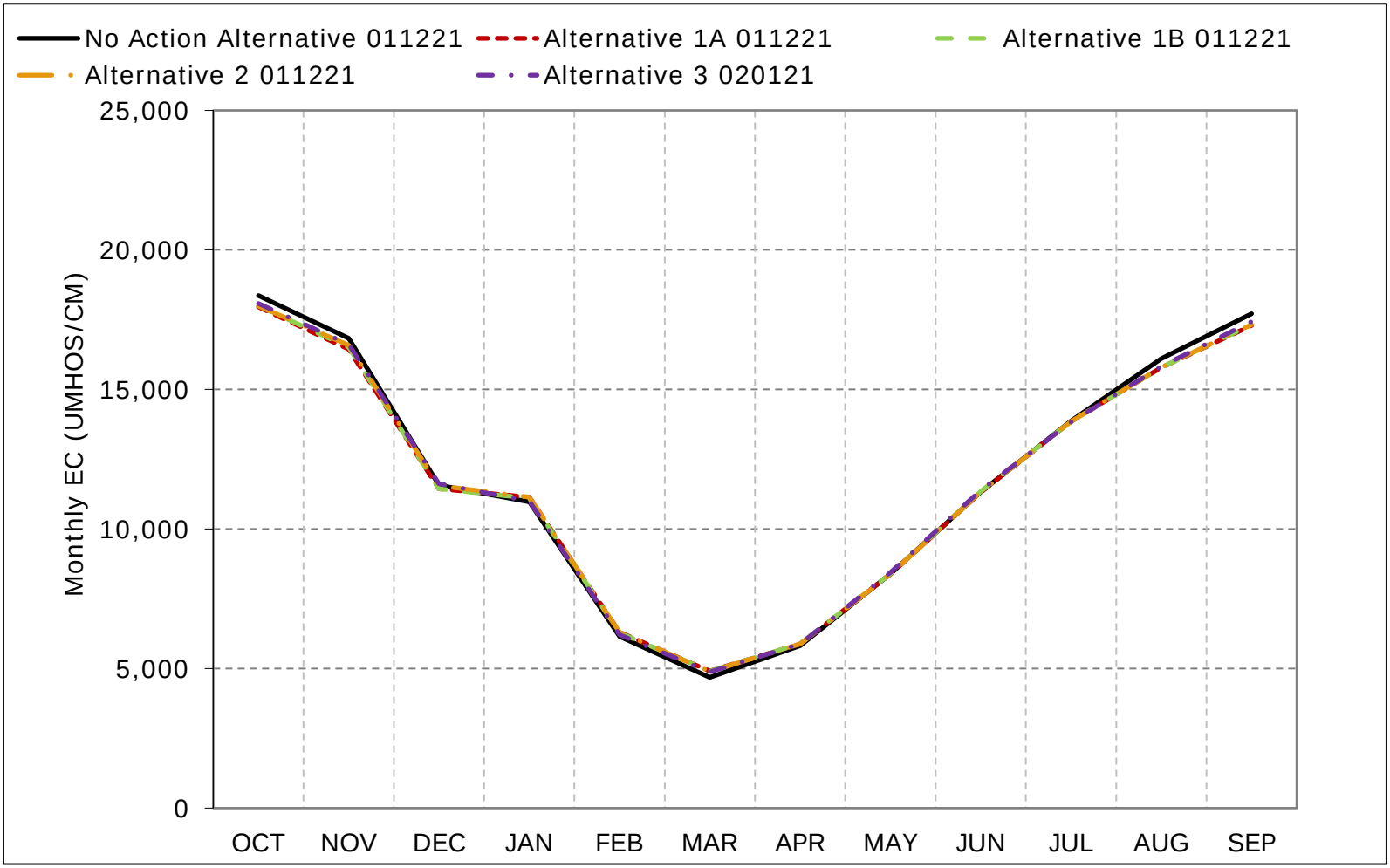


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-5. Sacramento River at Port Chicago, Dry Year Average EC

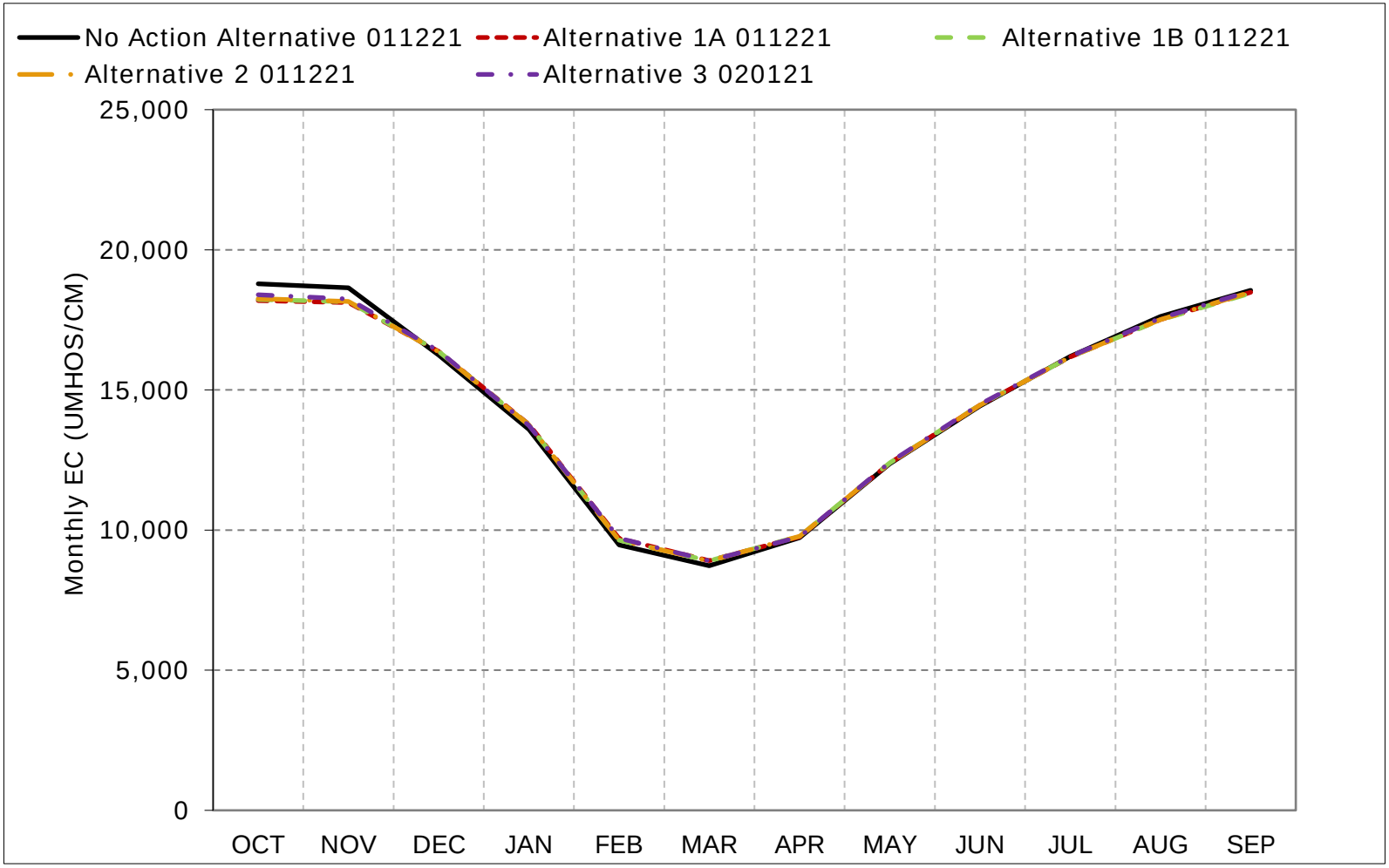


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-6. Sacramento River at Port Chicago, Critical Year Average EC

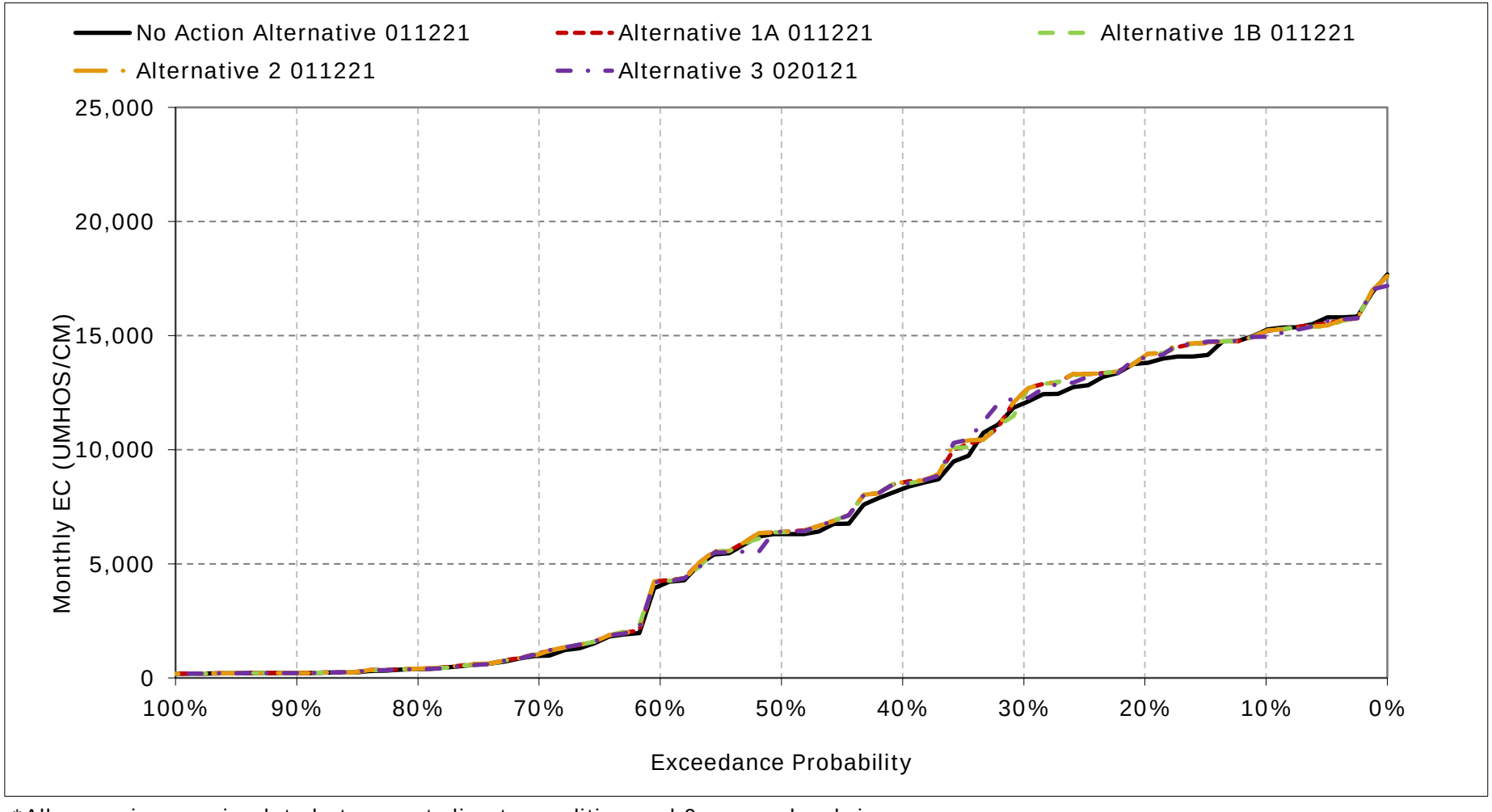


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

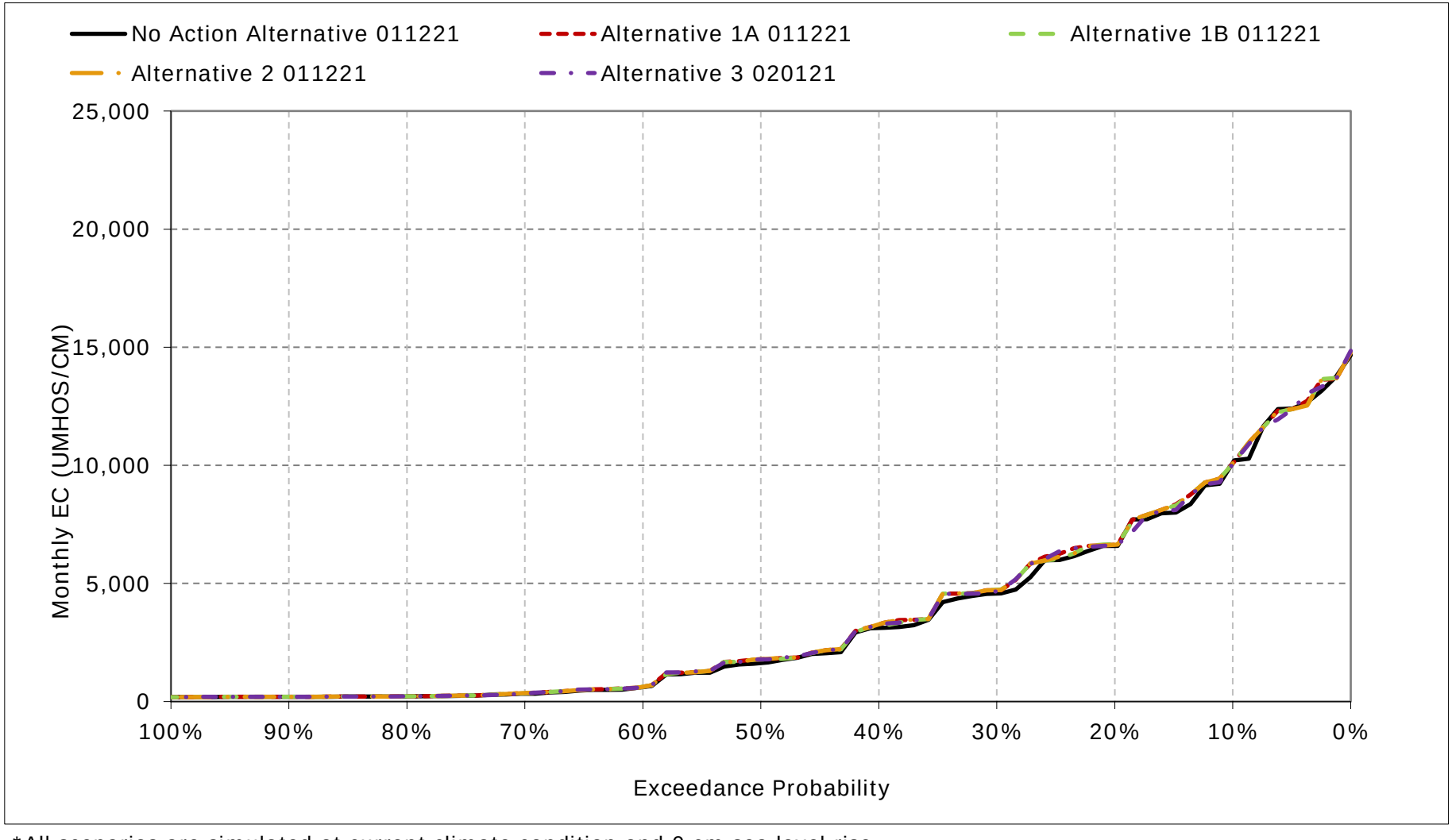
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-7. Sacramento River at Port Chicago Salinity, January EC



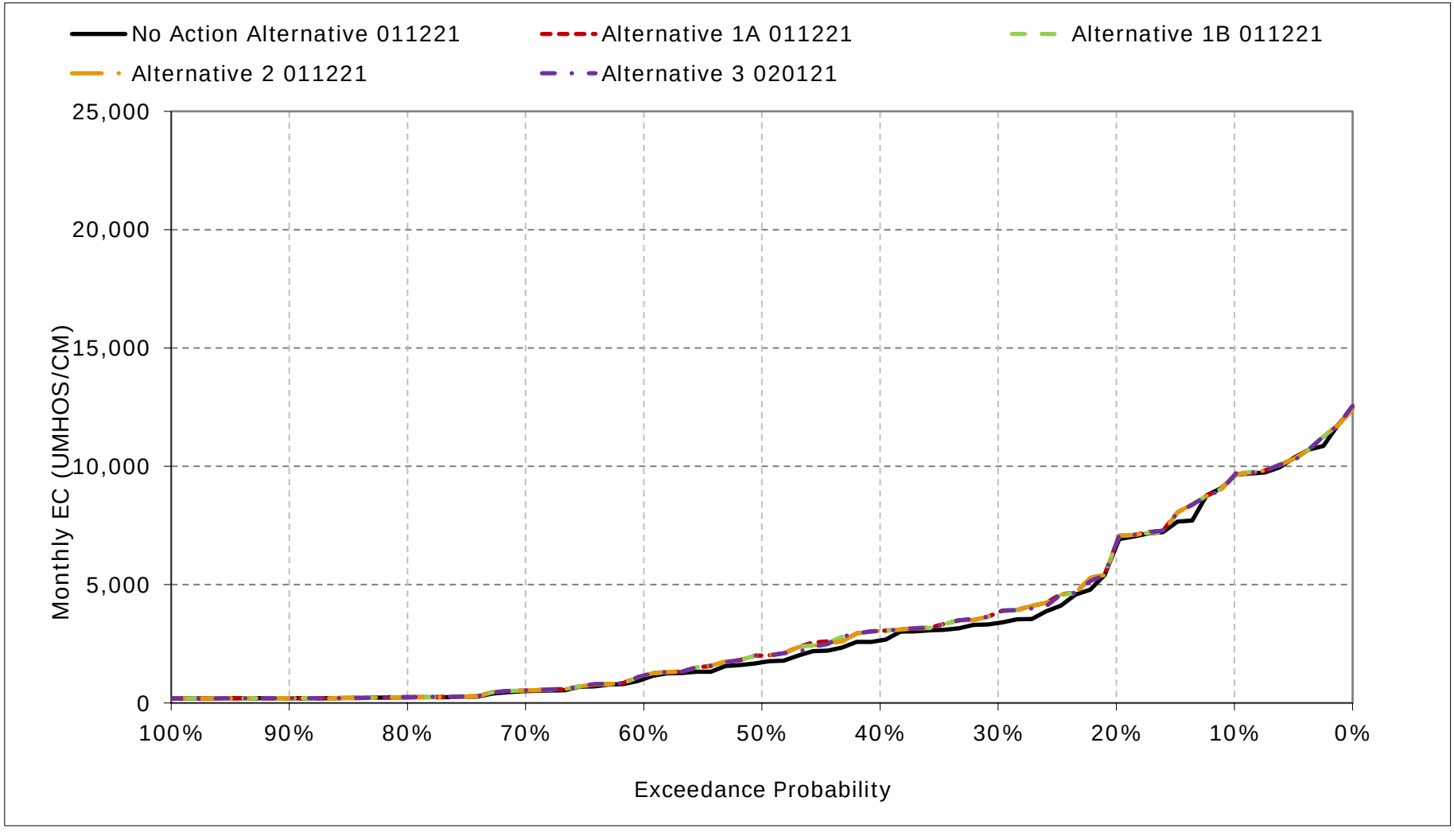
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-8. Sacramento River at Port Chicago Salinity, February EC



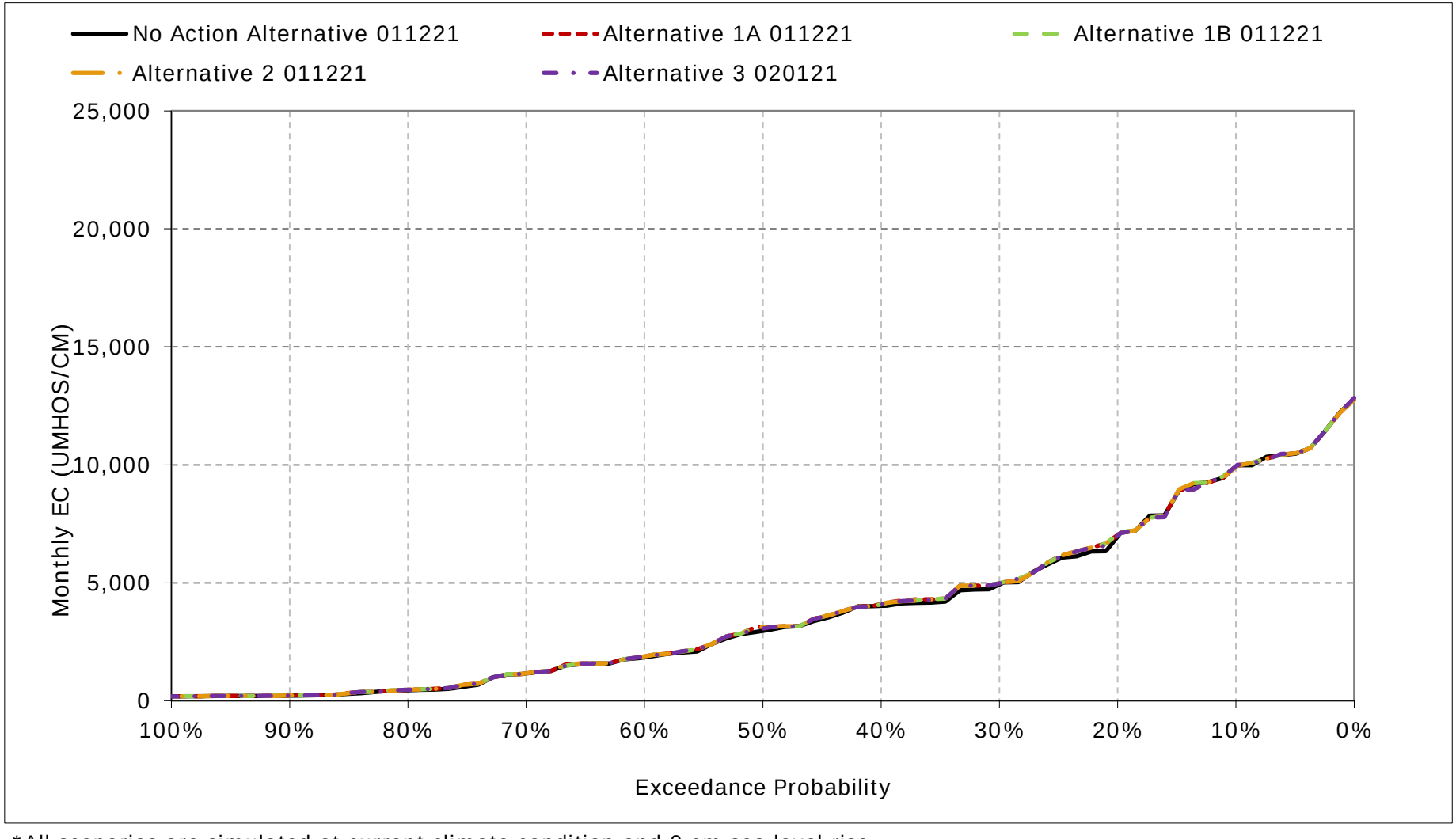
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-9. Sacramento River at Port Chicago Salinity, March EC



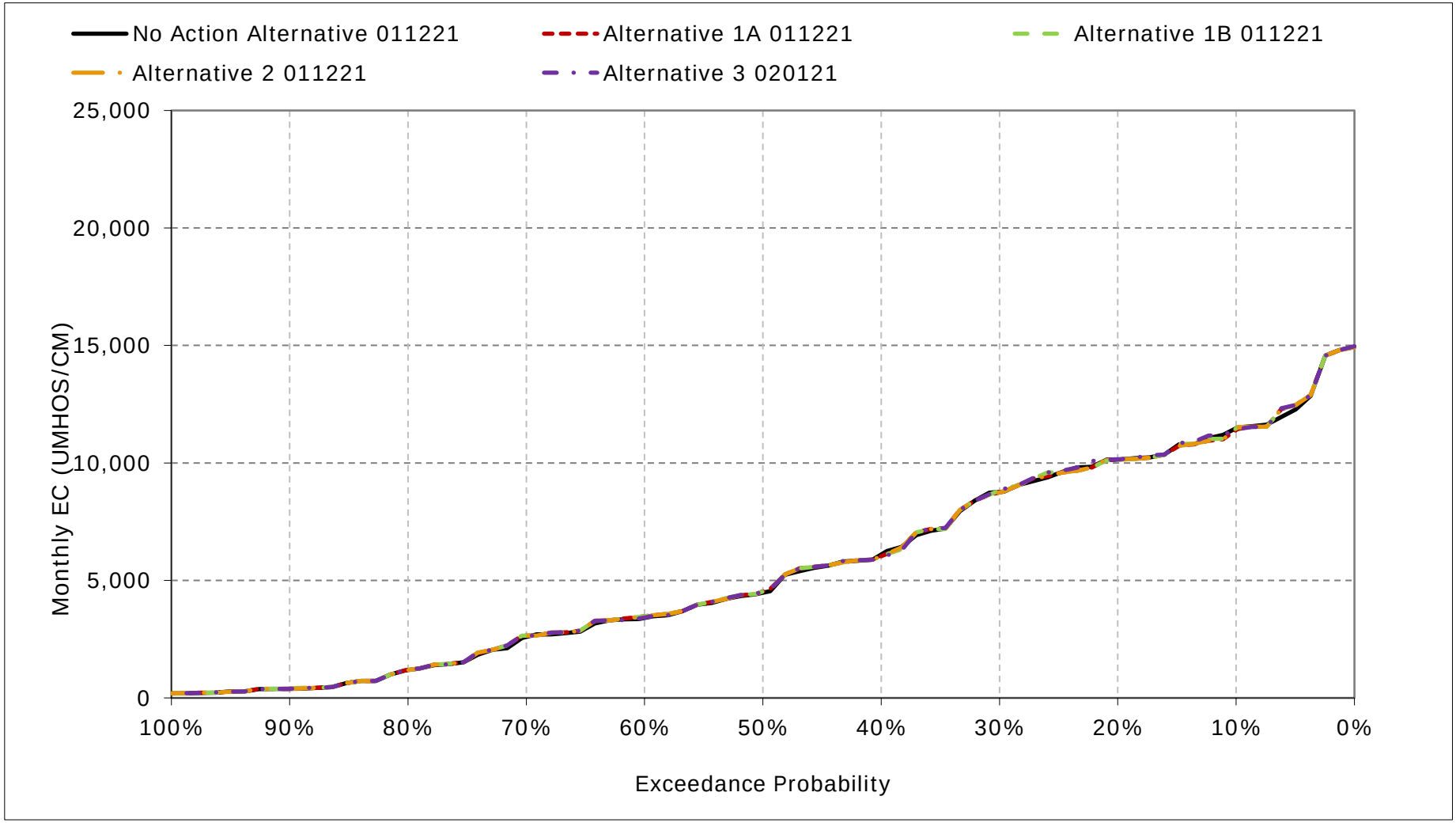
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-10. Sacramento River at Port Chicago Salinity, April EC



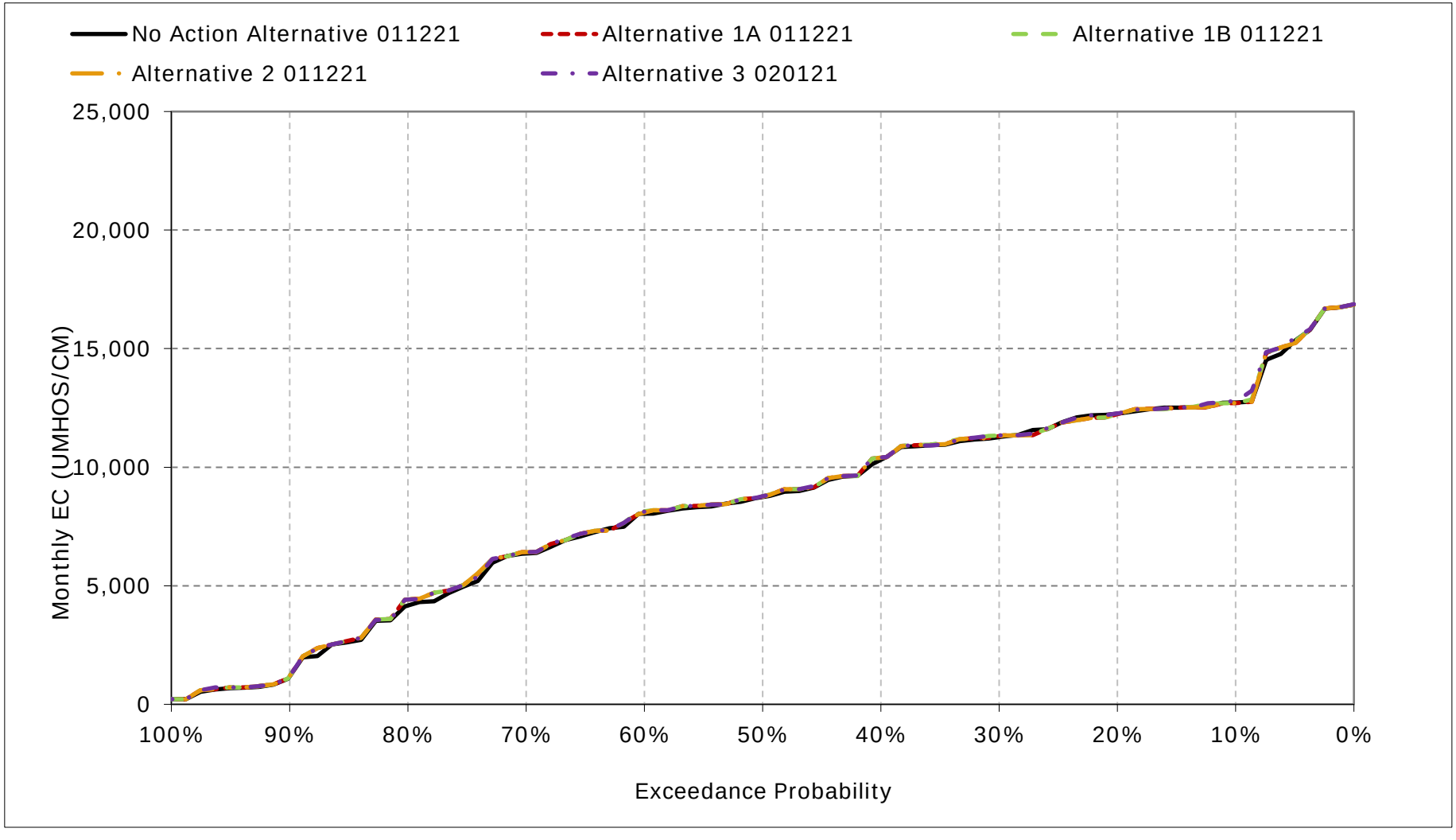
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-11. Sacramento River at Port Chicago Salinity, May EC



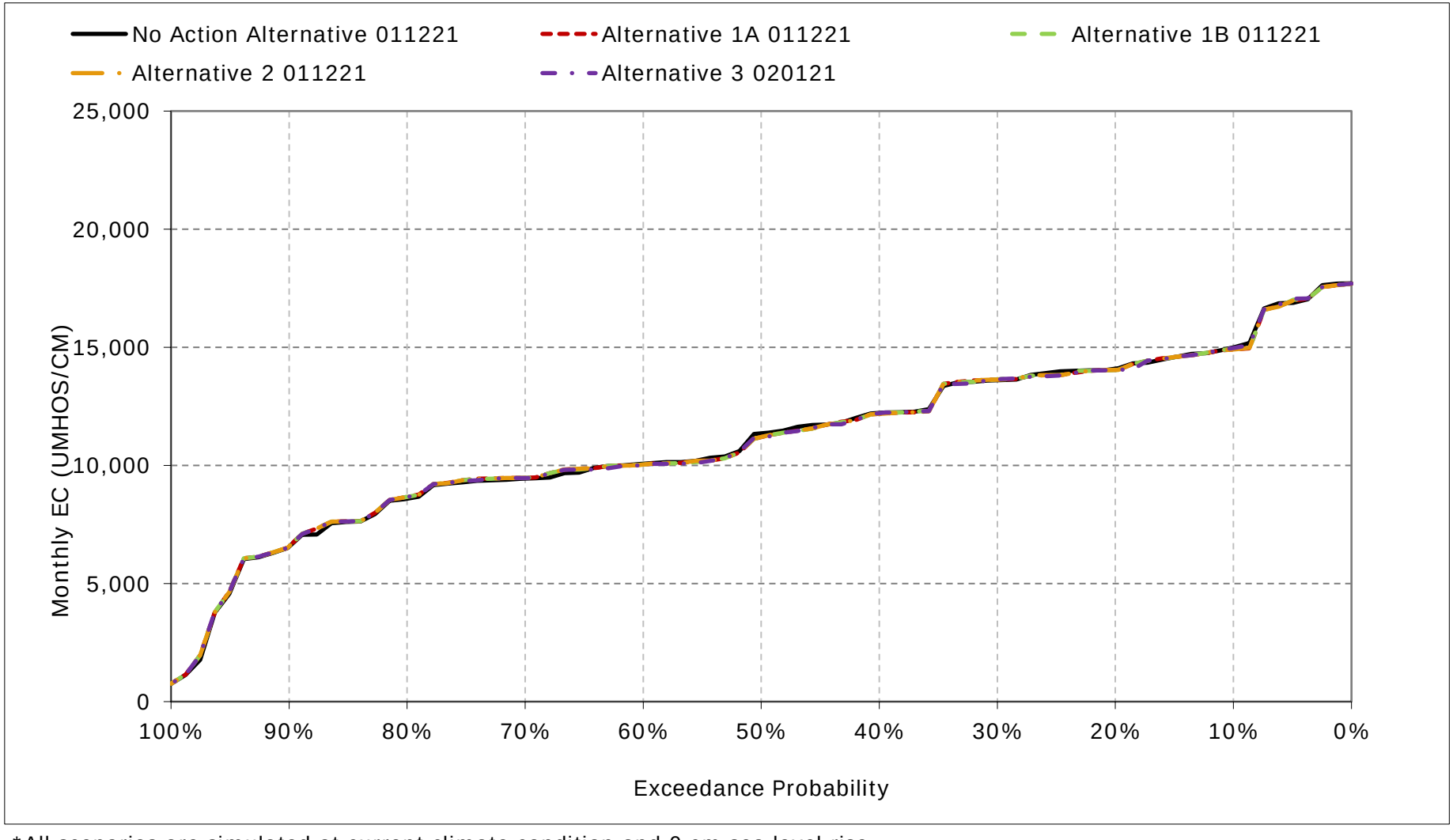
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-12. Sacramento River at Port Chicago Salinity, June EC



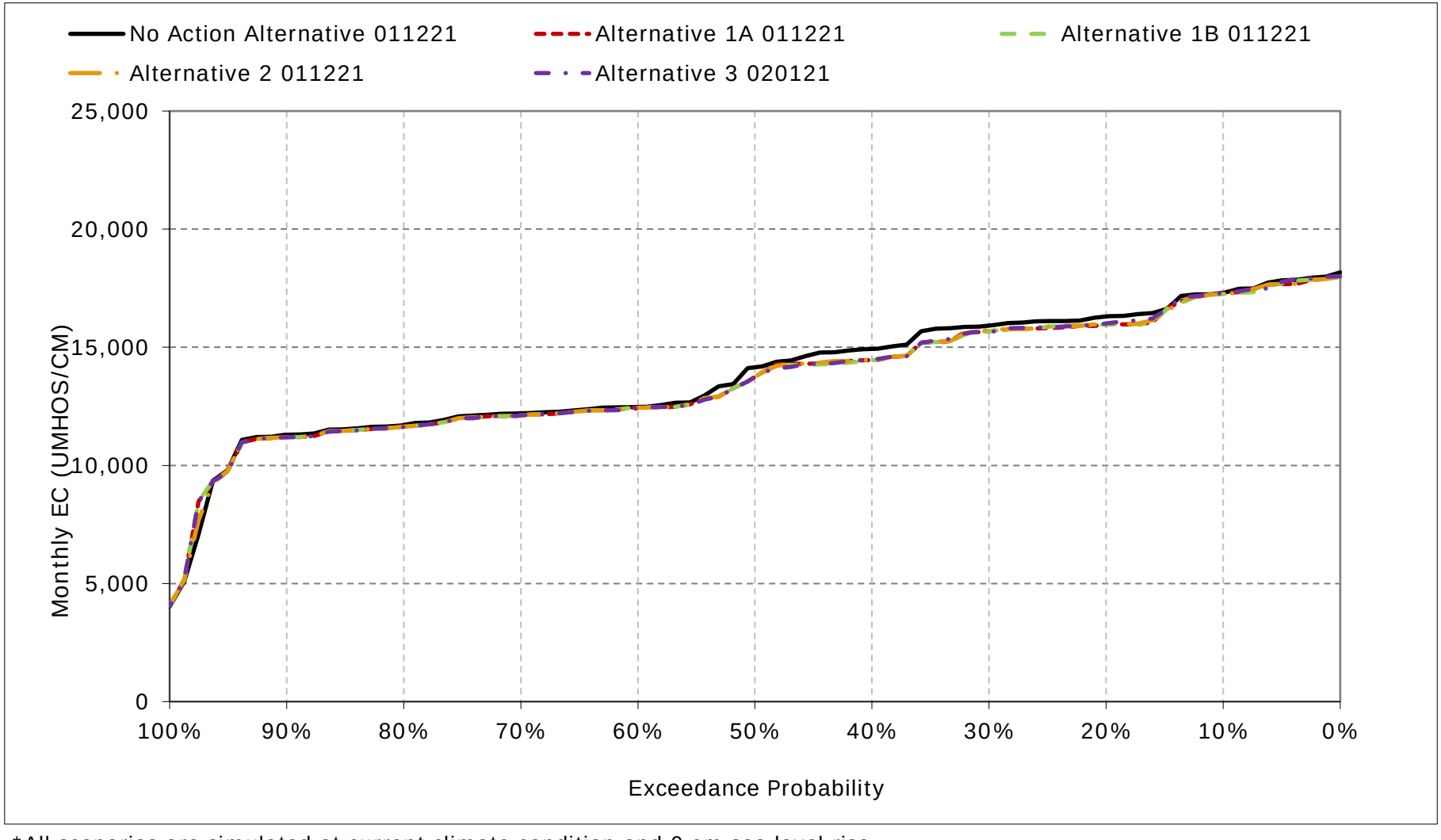
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-13. Sacramento River at Port Chicago Salinity, July EC



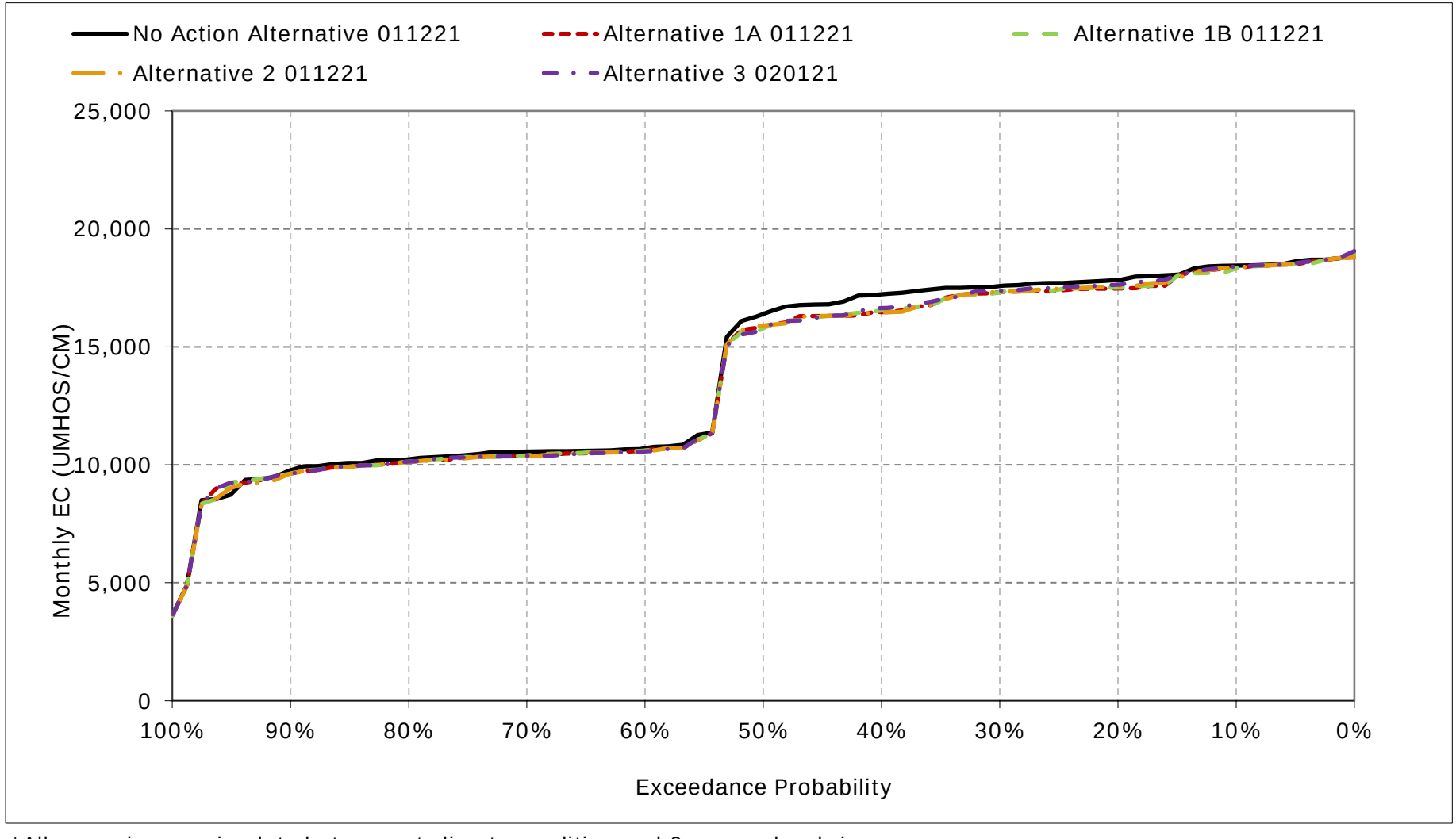
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-14. Sacramento River at Port Chicago Salinity, August EC



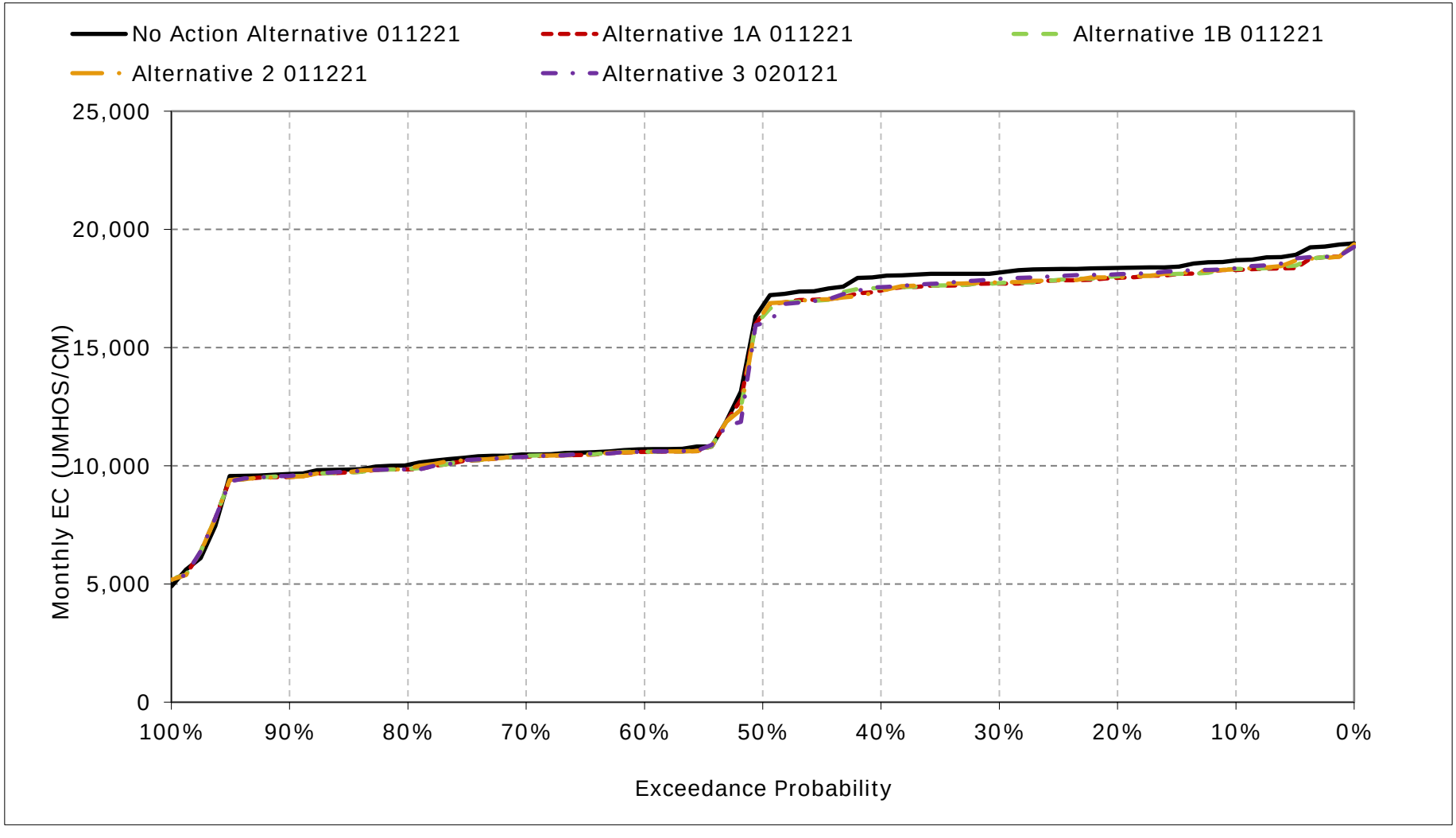
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-15. Sacramento River at Port Chicago Salinity, September EC



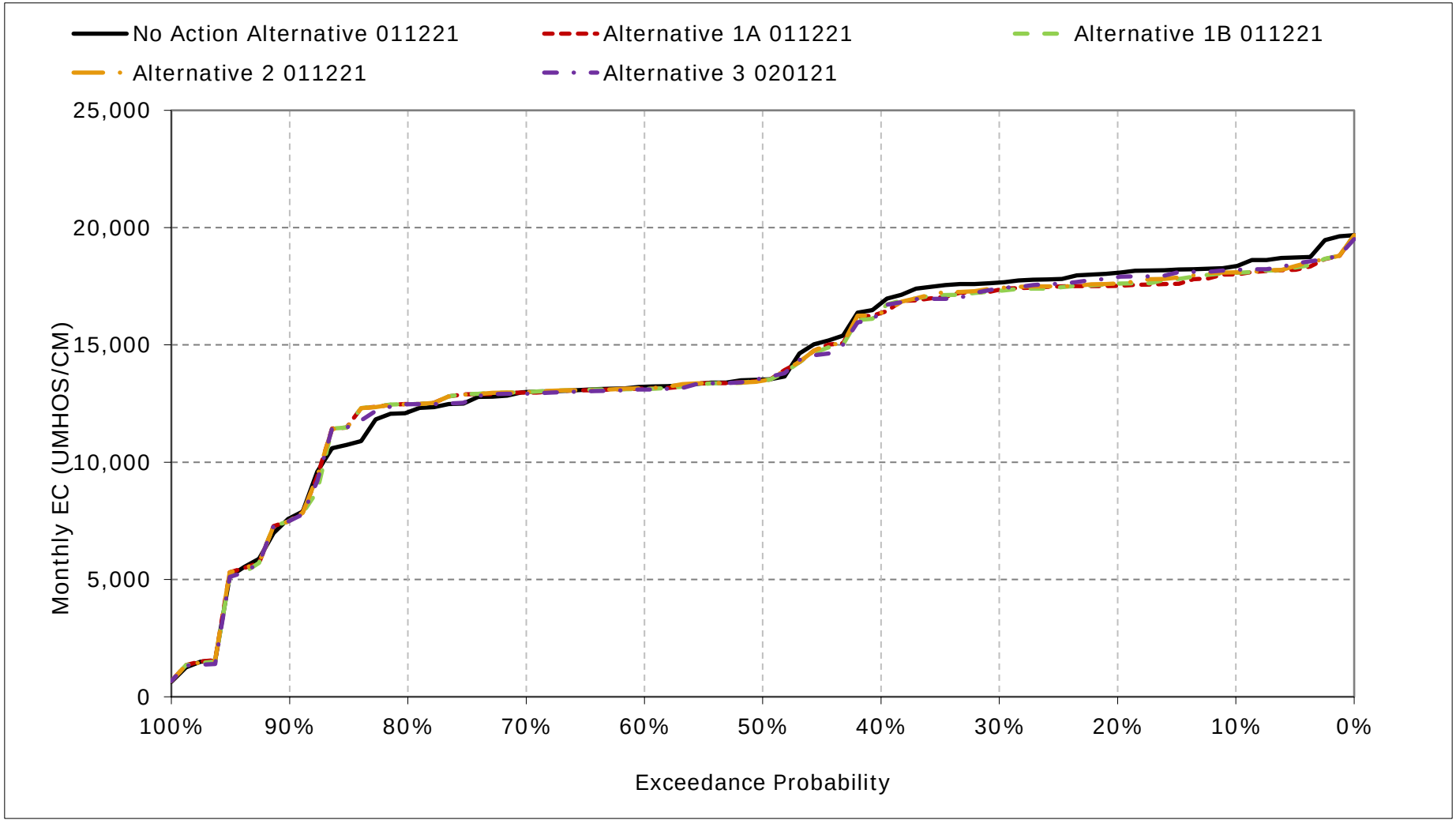
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-16. Sacramento River at Port Chicago Salinity, October EC



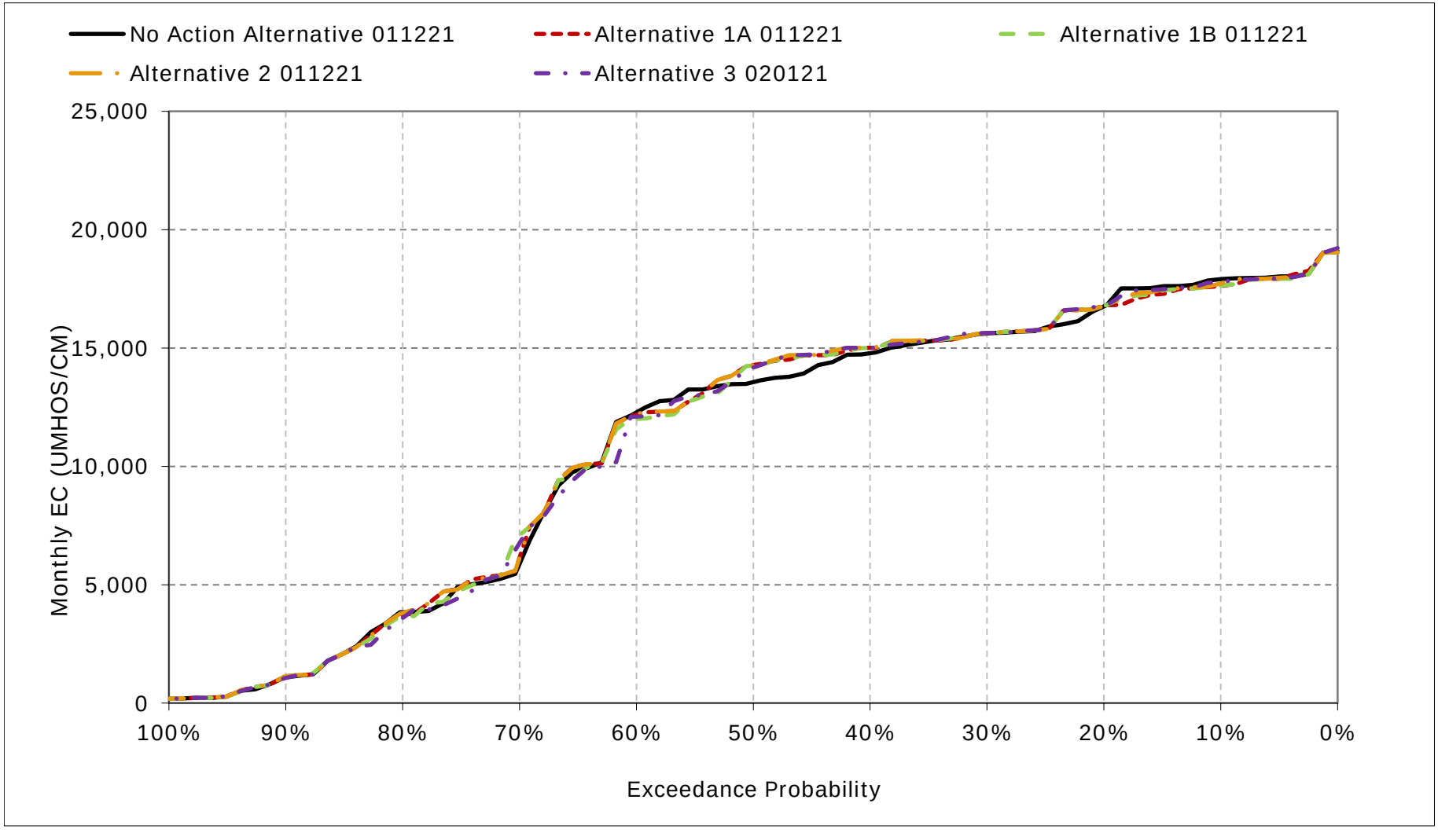
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-17. Sacramento River at Port Chicago Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-10-18. Sacramento River at Port Chicago Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-11-1a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,070	6,716	6,326	4,004	1,260	1,164	1,241	1,877	2,278	3,715	5,512	6,878
20%	6,810	6,436	5,082	3,060	836	526	532	1,313	2,080	3,331	4,987	6,554
30%	6,633	6,098	4,537	2,258	529	280	316	891	1,773	3,042	4,709	6,407
40%	6,339	5,244	3,961	1,333	377	259	268	417	1,284	2,190	4,218	6,162
50%	5,504	3,133	2,990	873	288	242	240	295	1,015	1,827	3,703	5,563
60%	1,544	2,959	2,429	442	263	228	222	241	666	1,326	2,570	1,765
70%	1,451	2,790	970	292	238	220	215	216	513	1,137	2,361	1,678
80%	1,356	2,272	634	237	223	215	209	199	261	966	2,189	1,588
90%	1,232	1,190	294	217	214	201	204	193	198	644	1,939	1,362
Long Term												
Full Simulation Period[a]	4,106	4,091	3,087	1,526	607	432	453	776	1,350	2,163	3,555	4,135
Water Year Types[b]												
Wet (32%)	1,282	2,141	2,307	357	239	222	214	241	394	824	1,977	1,424
Above Normal (15%)	1,485	2,756	2,640	977	301	225	220	249	724	1,161	2,323	1,652
Below Normal (17%)	5,796	4,373	2,946	1,542	384	297	301	487	1,110	1,987	3,899	5,930
Dry (22%)	6,752	5,664	3,408	2,290	878	495	499	959	1,838	3,210	4,836	6,415
Critical (15%)	6,905	6,961	4,909	3,443	1,562	1,155	1,311	2,524	3,598	4,704	5,883	6,979

Table 6B1-11-1b. San Joaquin River at Antioch, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,611	6,327	6,200	3,880	1,464	1,204	1,218	1,830	2,315	3,769	5,520	6,805
20%	6,387	6,085	5,135	3,287	860	538	533	1,319	2,044	3,314	4,693	6,250
30%	6,079	5,721	4,627	2,459	547	308	318	889	1,814	3,073	4,402	5,881
40%	5,664	5,046	4,102	1,346	387	261	268	422	1,323	2,163	3,804	5,439
50%	4,979	3,034	3,351	885	290	246	242	299	1,036	1,732	3,418	5,010
60%	1,402	2,904	2,333	468	264	232	222	242	675	1,325	2,467	1,659
70%	1,368	2,769	925	293	239	221	216	217	513	1,166	2,249	1,558
80%	1,253	2,503	662	240	225	217	209	199	288	982	2,099	1,477
90%	1,181	1,146	304	216	214	202	204	193	201	645	1,839	1,315
Long Term												
Full Simulation Period[a]	3,796	3,916	3,128	1,570	623	443	455	778	1,361	2,167	3,392	3,887
Water Year Types[b]												
Wet (32%)	1,196	2,155	2,388	360	240	223	214	241	399	829	1,911	1,349
Above Normal (15%)	1,412	2,722	2,703	1,048	306	227	221	251	734	1,164	2,244	1,559
Below Normal (17%)	5,421	4,218	2,922	1,572	396	311	302	489	1,128	1,962	3,572	5,379
Dry (22%)	6,310	5,329	3,348	2,353	895	504	500	952	1,837	3,220	4,549	5,913
Critical (15%)	6,143	6,456	5,068	3,534	1,629	1,198	1,323	2,541	3,632	4,729	5,808	6,936

Table 6B1-11-1c. San Joaquin River at Antioch, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-459	-389	-126	-123	205	39	-23	-48	37	54	9	-73
20%	-423	-351	53	226	24	12	1	5	-35	-17	-293	-304
30%	-554	-377	90	201	18	27	2	-2	41	31	-307	-526
40%	-676	-198	141	13	10	3	0	5	39	-28	-414	-723
50%	-525	-99	360	12	2	4	3	4	21	-95	-286	-553
60%	-142	-55	-96	26	1	3	0	1	9	-1	-103	-107
70%	-83	-22	-46	1	1	1	1	1	0	29	-112	-120
80%	-103	231	28	3	2	3	0	0	27	16	-90	-111
90%	-51	-44	10	-1	0	1	0	0	2	1	-100	-47
Long Term												
Full Simulation Period[a]	-310	-174	41	44	16	11	3	2	11	4	-162	-248
Water Year Types[b]												
Wet (32%)	-85	14	81	4	1	1	0	1	5	4	-66	-75
Above Normal (15%)	-73	-34	64	72	5	2	1	2	10	3	-79	-93
Below Normal (17%)	-375	-155	-23	30	12	15	2	2	19	-24	-327	-550
Dry (22%)	-441	-335	-61	63	16	9	1	-7	0	11	-287	-502
Critical (15%)	-762	-505	159	91	67	43	13	17	34	25	-75	-43

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-11-2a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,070	6,716	6,326	4,004	1,260	1,164	1,241	1,877	2,278	3,715	5,512	6,878
20%	6,810	6,436	5,082	3,060	836	526	532	1,313	2,080	3,331	4,987	6,554
30%	6,633	6,098	4,537	2,258	529	280	316	891	1,773	3,042	4,709	6,407
40%	6,339	5,244	3,961	1,333	377	259	268	417	1,284	2,190	4,218	6,162
50%	5,504	3,133	2,990	873	288	242	240	295	1,015	1,827	3,703	5,563
60%	1,544	2,959	2,429	442	263	228	222	241	666	1,326	2,570	1,765
70%	1,451	2,790	970	292	238	220	215	216	513	1,137	2,361	1,678
80%	1,356	2,272	634	237	223	215	209	199	261	966	2,189	1,588
90%	1,232	1,190	294	217	214	201	204	193	198	644	1,939	1,362
Long Term												
Full Simulation Period[a]	4,106	4,091	3,087	1,526	607	432	453	776	1,350	2,163	3,555	4,135
Water Year Types[b]												
Wet (32%)	1,282	2,141	2,307	357	239	222	214	241	394	824	1,977	1,424
Above Normal (15%)	1,485	2,756	2,640	977	301	225	220	249	724	1,161	2,323	1,652
Below Normal (17%)	5,796	4,373	2,946	1,542	384	297	301	487	1,110	1,987	3,899	5,930
Dry (22%)	6,752	5,664	3,408	2,290	878	495	499	959	1,838	3,210	4,836	6,415
Critical (15%)	6,905	6,961	4,909	3,443	1,562	1,155	1,311	2,524	3,598	4,704	5,883	6,979

Table 6B1-11-2b. San Joaquin River at Antioch, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,684	6,365	6,197	3,841	1,465	1,203	1,223	1,864	2,304	3,764	5,524	6,802
20%	6,390	6,067	5,139	3,286	858	537	533	1,317	2,050	3,332	4,705	6,246
30%	6,076	5,737	4,626	2,382	537	308	320	917	1,839	3,073	4,380	5,884
40%	5,818	5,073	4,160	1,328	387	261	268	417	1,323	2,164	3,805	5,430
50%	4,985	3,048	3,338	882	290	246	242	300	1,038	1,733	3,409	4,996
60%	1,412	2,903	2,225	464	264	233	222	242	676	1,321	2,467	1,693
70%	1,369	2,788	914	291	239	221	216	217	513	1,166	2,255	1,558
80%	1,255	2,503	663	239	226	217	209	199	288	981	2,099	1,481
90%	1,181	1,150	304	216	214	202	204	193	201	645	1,839	1,315
Long Term												
Full Simulation Period[a]	3,819	3,932	3,118	1,563	621	442	456	779	1,366	2,167	3,388	3,889
Water Year Types[b]												
Wet (32%)	1,199	2,160	2,384	361	240	223	214	241	399	829	1,911	1,348
Above Normal (15%)	1,429	2,731	2,688	1,047	305	227	220	251	734	1,164	2,246	1,573
Below Normal (17%)	5,405	4,162	2,899	1,570	396	311	302	488	1,130	1,956	3,549	5,353
Dry (22%)	6,379	5,412	3,341	2,337	891	503	501	959	1,852	3,223	4,551	5,950
Critical (15%)	6,192	6,482	5,059	3,513	1,618	1,195	1,325	2,544	3,637	4,730	5,798	6,909

Table 6B1-11-2c. San Joaquin River at Antioch, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-386	-351	-128	-163	205	39	-18	-13	26	49	12	-76
20%	-420	-368	57	226	22	12	1	4	-29	1	-282	-309
30%	-557	-361	88	125	8	27	4	26	65	31	-330	-523
40%	-522	-172	198	-5	10	2	0	0	39	-26	-413	-733
50%	-520	-85	347	9	3	4	3	5	22	-94	-294	-567
60%	-132	-56	-203	22	1	4	0	1	10	-5	-103	-72
70%	-82	-2	-57	-1	1	1	0	1	0	29	-107	-120
80%	-102	231	29	2	2	3	0	0	26	15	-90	-107
90%	-51	-39	10	0	0	1	0	0	2	1	-100	-47
Long Term												
Full Simulation Period[a]	-287	-159	31	37	14	11	3	4	15	3	-167	-246
Water Year Types[b]												
Wet (32%)	-82	19	77	4	1	1	0	1	5	4	-66	-76
Above Normal (15%)	-55	-25	48	71	5	2	0	2	10	3	-76	-80
Below Normal (17%)	-391	-211	-46	28	12	15	2	1	20	-31	-350	-577
Dry (22%)	-372	-252	-67	47	13	8	2	0	14	14	-285	-465
Critical (15%)	-712	-479	151	70	55	40	14	20	39	26	-85	-69

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-11-3a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,070	6,716	6,326	4,004	1,260	1,164	1,241	1,877	2,278	3,715	5,512	6,878
20%	6,810	6,436	5,082	3,060	836	526	532	1,313	2,080	3,331	4,987	6,554
30%	6,633	6,098	4,537	2,258	529	280	316	891	1,773	3,042	4,709	6,407
40%	6,339	5,244	3,961	1,333	377	259	268	417	1,284	2,190	4,218	6,162
50%	5,504	3,133	2,990	873	288	242	240	295	1,015	1,827	3,703	5,563
60%	1,544	2,959	2,429	442	263	228	222	241	666	1,326	2,570	1,765
70%	1,451	2,790	970	292	238	220	215	216	513	1,137	2,361	1,678
80%	1,356	2,272	634	237	223	215	209	199	261	966	2,189	1,588
90%	1,232	1,190	294	217	214	201	204	193	198	644	1,939	1,362
Long Term												
Full Simulation Period[a]	4,106	4,091	3,087	1,526	607	432	453	776	1,350	2,163	3,555	4,135
Water Year Types[b]												
Wet (32%)	1,282	2,141	2,307	357	239	222	214	241	394	824	1,977	1,424
Above Normal (15%)	1,485	2,756	2,640	977	301	225	220	249	724	1,161	2,323	1,652
Below Normal (17%)	5,796	4,373	2,946	1,542	384	297	301	487	1,110	1,987	3,899	5,930
Dry (22%)	6,752	5,664	3,408	2,290	878	495	499	959	1,838	3,210	4,836	6,415
Critical (15%)	6,905	6,961	4,909	3,443	1,562	1,155	1,311	2,524	3,598	4,704	5,883	6,979

Table 6B1-11-3b. San Joaquin River at Antioch, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,697	6,392	6,208	3,891	1,465	1,203	1,218	1,830	2,314	3,763	5,517	6,763
20%	6,374	6,167	5,141	3,286	860	537	533	1,319	2,050	3,314	4,747	6,291
30%	6,173	5,794	4,628	2,459	547	308	318	889	1,817	3,073	4,376	5,926
40%	5,690	5,073	4,132	1,349	387	261	268	422	1,323	2,164	3,830	5,384
50%	4,975	3,157	3,353	882	290	246	242	299	1,036	1,732	3,420	5,009
60%	1,409	2,902	2,336	466	264	232	222	242	675	1,325	2,466	1,645
70%	1,367	2,767	956	293	239	221	216	217	513	1,166	2,249	1,558
80%	1,248	2,502	661	241	225	217	209	199	288	981	2,099	1,477
90%	1,173	1,143	306	216	214	202	204	193	201	646	1,839	1,262
Long Term												
Full Simulation Period[a]	3,806	3,953	3,144	1,569	622	442	455	778	1,362	2,166	3,385	3,883
Water Year Types[b]												
Wet (32%)	1,207	2,169	2,390	360	240	223	214	241	399	828	1,896	1,332
Above Normal (15%)	1,410	2,720	2,703	1,049	306	227	221	251	734	1,164	2,239	1,556
Below Normal (17%)	5,377	4,206	2,919	1,588	397	311	302	489	1,128	1,961	3,565	5,351
Dry (22%)	6,330	5,462	3,435	2,350	895	505	500	952	1,839	3,221	4,554	5,944
Critical (15%)	6,213	6,491	5,045	3,515	1,616	1,193	1,325	2,542	3,633	4,726	5,792	6,932

Table 6B1-11-3c. San Joaquin River at Antioch, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-373	-324	-118	-113	205	39	-23	-48	36	48	6	-115
20%	-436	-269	59	226	24	12	1	5	-29	-17	-240	-263
30%	-460	-303	90	201	18	27	1	-2	43	31	-333	-481
40%	-650	-171	171	16	10	3	0	5	39	-26	-388	-779
50%	-530	24	362	9	2	4	3	4	21	-95	-284	-554
60%	-134	-56	-93	24	1	3	0	1	9	-2	-104	-120
70%	-84	-23	-15	1	1	1	1	1	0	29	-112	-120
80%	-108	230	27	3	2	3	0	0	26	15	-90	-111
90%	-59	-47	12	-1	0	1	0	0	2	1	-100	-101
Long Term												
Full Simulation Period[a]	-300	-138	57	43	15	11	3	2	11	3	-170	-253
Water Year Types[b]												
Wet (32%)	-74	28	82	4	1	1	0	1	5	4	-81	-92
Above Normal (15%)	-75	-36	63	72	5	2	1	2	10	3	-84	-97
Below Normal (17%)	-419	-167	-26	46	13	15	2	1	18	-26	-333	-579
Dry (22%)	-422	-202	27	60	17	9	1	-7	1	12	-282	-471
Critical (15%)	-692	-469	136	72	54	39	15	19	35	22	-91	-47

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-11-4a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,070	6,716	6,326	4,004	1,260	1,164	1,241	1,877	2,278	3,715	5,512	6,878
20%	6,810	6,436	5,082	3,060	836	526	532	1,313	2,080	3,331	4,987	6,554
30%	6,633	6,098	4,537	2,258	529	280	316	891	1,773	3,042	4,709	6,407
40%	6,339	5,244	3,961	1,333	377	259	268	417	1,284	2,190	4,218	6,162
50%	5,504	3,133	2,990	873	288	242	240	295	1,015	1,827	3,703	5,563
60%	1,544	2,959	2,429	442	263	228	222	241	666	1,326	2,570	1,765
70%	1,451	2,790	970	292	238	220	215	216	513	1,137	2,361	1,678
80%	1,356	2,272	634	237	223	215	209	199	261	966	2,189	1,588
90%	1,232	1,190	294	217	214	201	204	193	198	644	1,939	1,362
Long Term												
Full Simulation Period[a]	4,106	4,091	3,087	1,526	607	432	453	776	1,350	2,163	3,555	4,135
Water Year Types[b]												
Wet (32%)	1,282	2,141	2,307	357	239	222	214	241	394	824	1,977	1,424
Above Normal (15%)	1,485	2,756	2,640	977	301	225	220	249	724	1,161	2,323	1,652
Below Normal (17%)	5,796	4,373	2,946	1,542	384	297	301	487	1,110	1,987	3,899	5,930
Dry (22%)	6,752	5,664	3,408	2,290	878	495	499	959	1,838	3,210	4,836	6,415
Critical (15%)	6,905	6,961	4,909	3,443	1,562	1,155	1,311	2,524	3,598	4,704	5,883	6,979

Table 6B1-11-4b. San Joaquin River at Antioch, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,769	6,529	6,262	3,855	1,440	1,198	1,208	1,857	2,327	3,755	5,603	6,883
20%	6,461	6,226	5,154	3,282	847	539	533	1,368	2,086	3,358	4,796	6,466
30%	6,265	5,888	4,639	2,295	551	307	321	919	1,842	3,025	4,402	6,052
40%	5,810	5,048	4,172	1,384	404	261	268	415	1,326	2,162	3,835	5,448
50%	4,825	3,083	3,226	875	290	246	242	300	1,039	1,718	3,394	4,953
60%	1,438	2,875	2,300	449	262	233	222	241	682	1,300	2,467	1,681
70%	1,371	2,768	965	283	239	221	216	217	516	1,166	2,245	1,558
80%	1,264	2,433	629	239	226	217	209	199	288	981	2,095	1,499
90%	1,190	1,146	308	216	214	202	204	193	201	646	1,836	1,314
Long Term												
Full Simulation Period[a]	3,856	3,958	3,129	1,560	617	442	455	786	1,373	2,162	3,410	3,938
Water Year Types[b]												
Wet (32%)	1,203	2,159	2,384	356	240	223	214	242	399	829	1,908	1,352
Above Normal (15%)	1,459	2,722	2,645	1,047	305	227	221	251	736	1,157	2,247	1,571
Below Normal (17%)	5,354	4,122	2,842	1,646	400	312	302	487	1,132	1,951	3,558	5,351
Dry (22%)	6,460	5,522	3,466	2,288	863	498	500	982	1,871	3,200	4,594	6,102
Critical (15%)	6,350	6,557	5,055	3,490	1,630	1,199	1,325	2,557	3,652	4,746	5,880	7,015

Table 6B1-11-4c. San Joaquin River at Antioch, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-301	-187	-64	-149	181	33	-32	-20	49	40	91	5
20%	-349	-209	72	222	11	13	0	55	6	26	-191	-88
30%	-368	-209	101	37	22	27	5	28	69	-17	-308	-355
40%	-529	-196	211	51	26	2	0	-2	42	-28	-383	-714
50%	-680	-50	236	2	3	4	3	5	24	-110	-309	-610
60%	-106	-84	-129	7	-1	4	0	0	16	-26	-103	-84
70%	-80	-22	-5	-9	1	1	0	1	3	29	-117	-120
80%	-92	160	-4	1	2	3	0	0	26	15	-94	-89
90%	-42	-44	14	-1	0	1	0	1	2	1	-104	-48
Long Term												
Full Simulation Period[a]	-249	-132	41	34	10	10	3	10	22	-1	-145	-197
Water Year Types[b]												
Wet (32%)	-78	18	76	0	1	1	0	1	5	4	-69	-72
Above Normal (15%)	-26	-34	5	71	4	2	1	2	12	-4	-76	-81
Below Normal (17%)	-442	-251	-103	104	15	15	1	0	23	-35	-341	-579
Dry (22%)	-292	-142	58	-2	-16	3	1	23	33	-10	-241	-314
Critical (15%)	-555	-403	147	47	67	44	14	33	54	42	-4	36

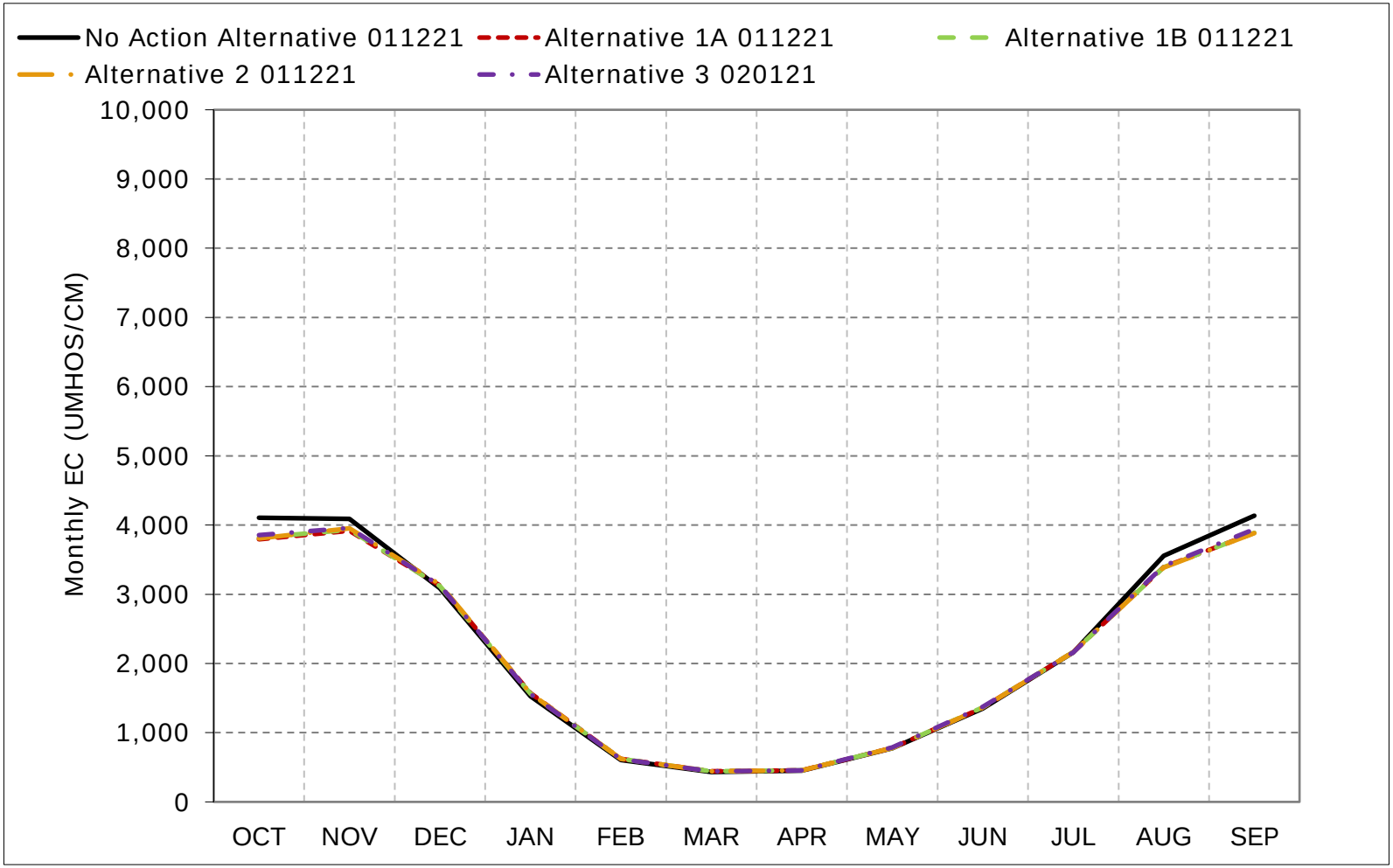
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-1. San Joaquin River at Antioch, Long-Term Average EC

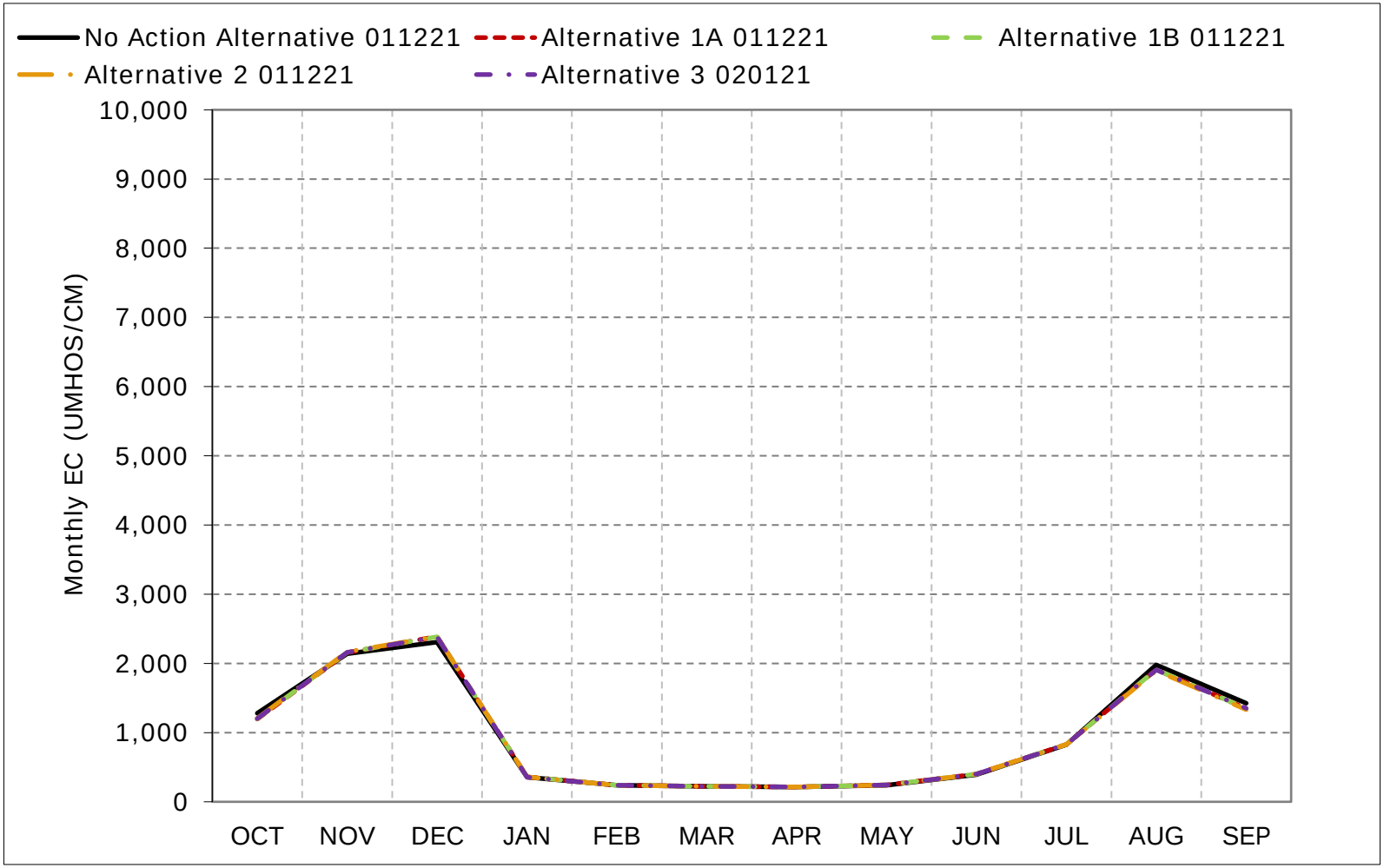


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-2. San Joaquin River at Antioch, Wet Year Average EC

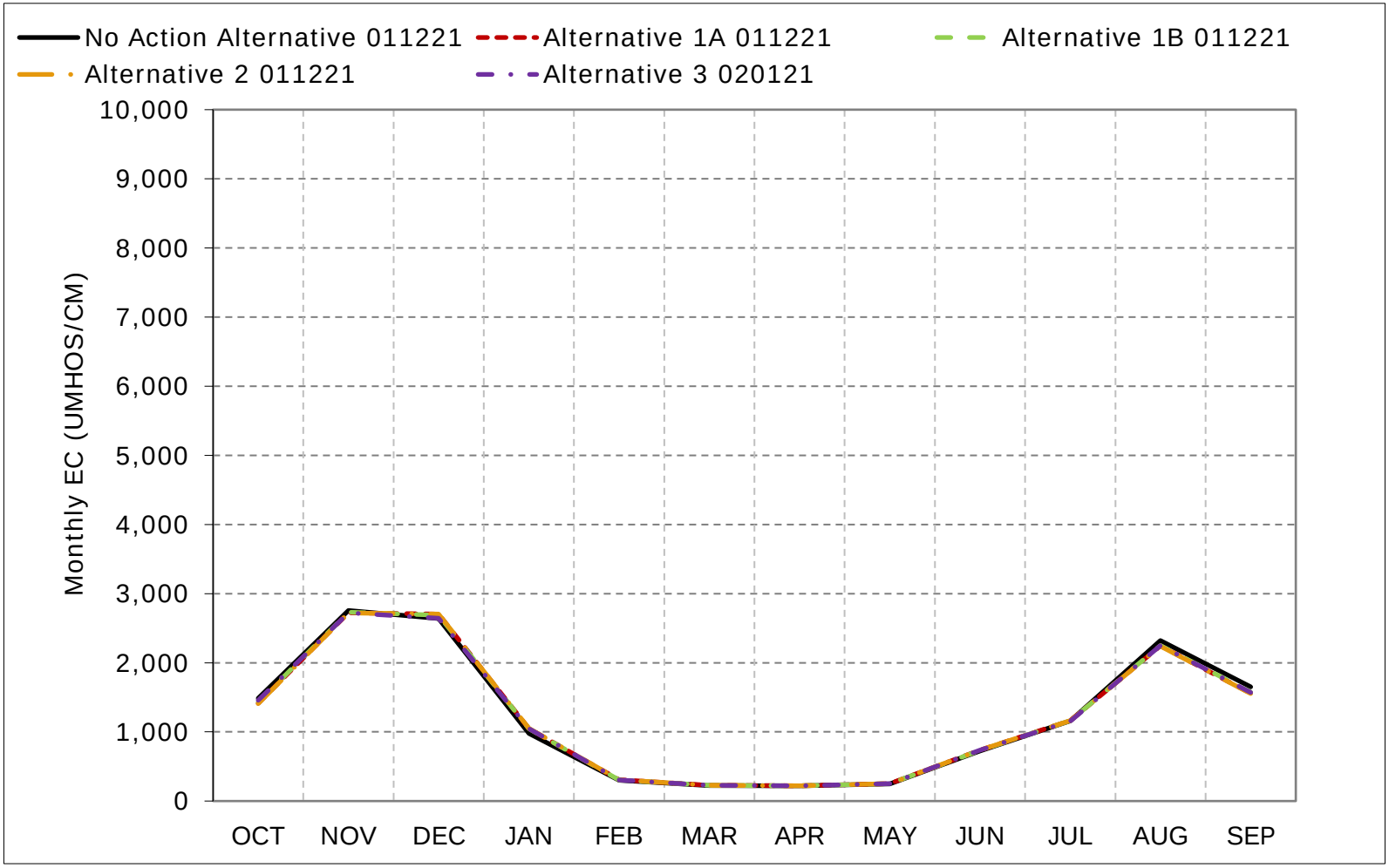


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-3. San Joaquin River at Antioch, Above Normal Year Average EC

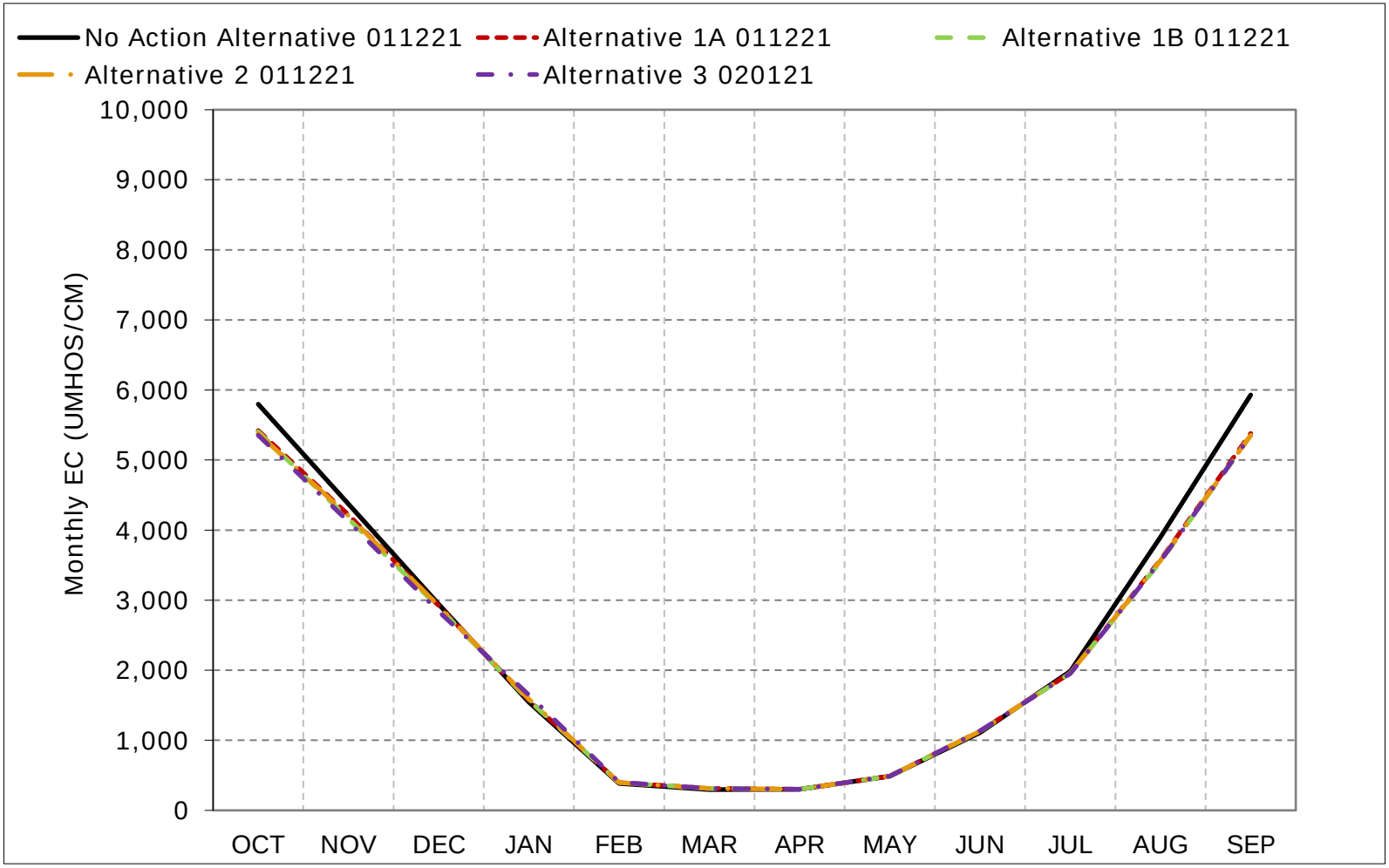


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-4. San Joaquin River at Antioch, Below Normal Year Average EC

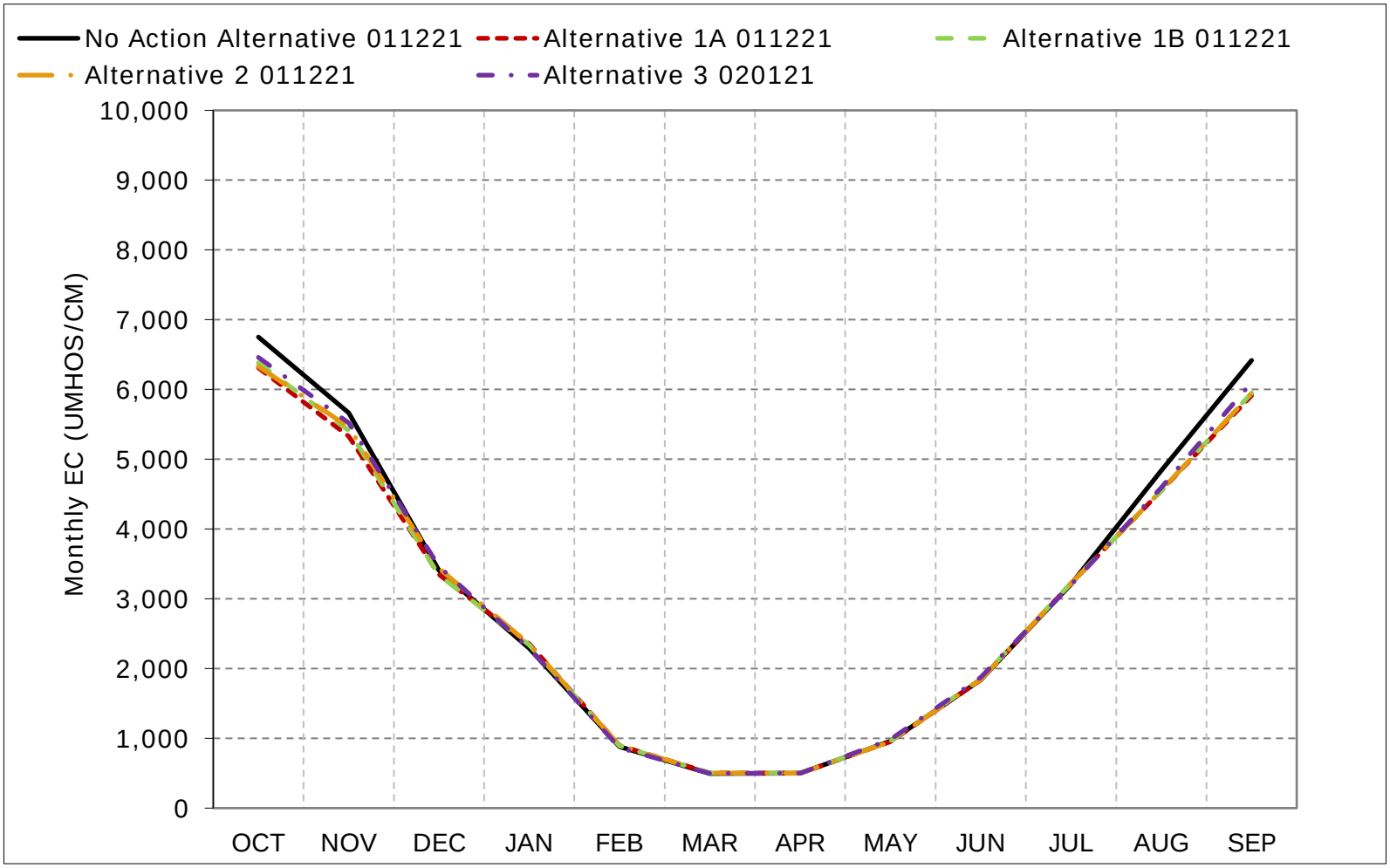


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-5. San Joaquin River at Antioch, Dry Year Average EC

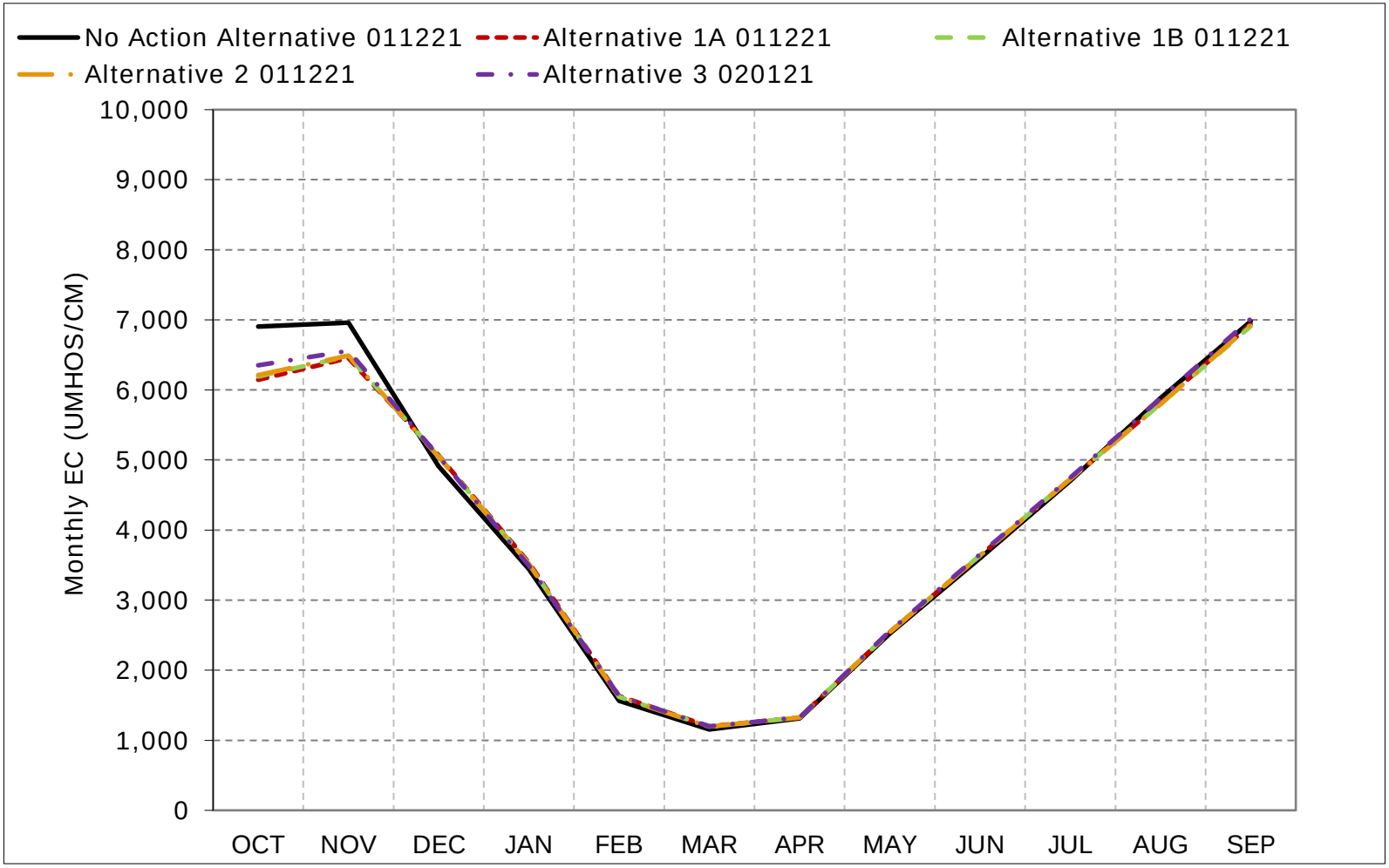


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-6. San Joaquin River at Antioch, Critical Year Average EC

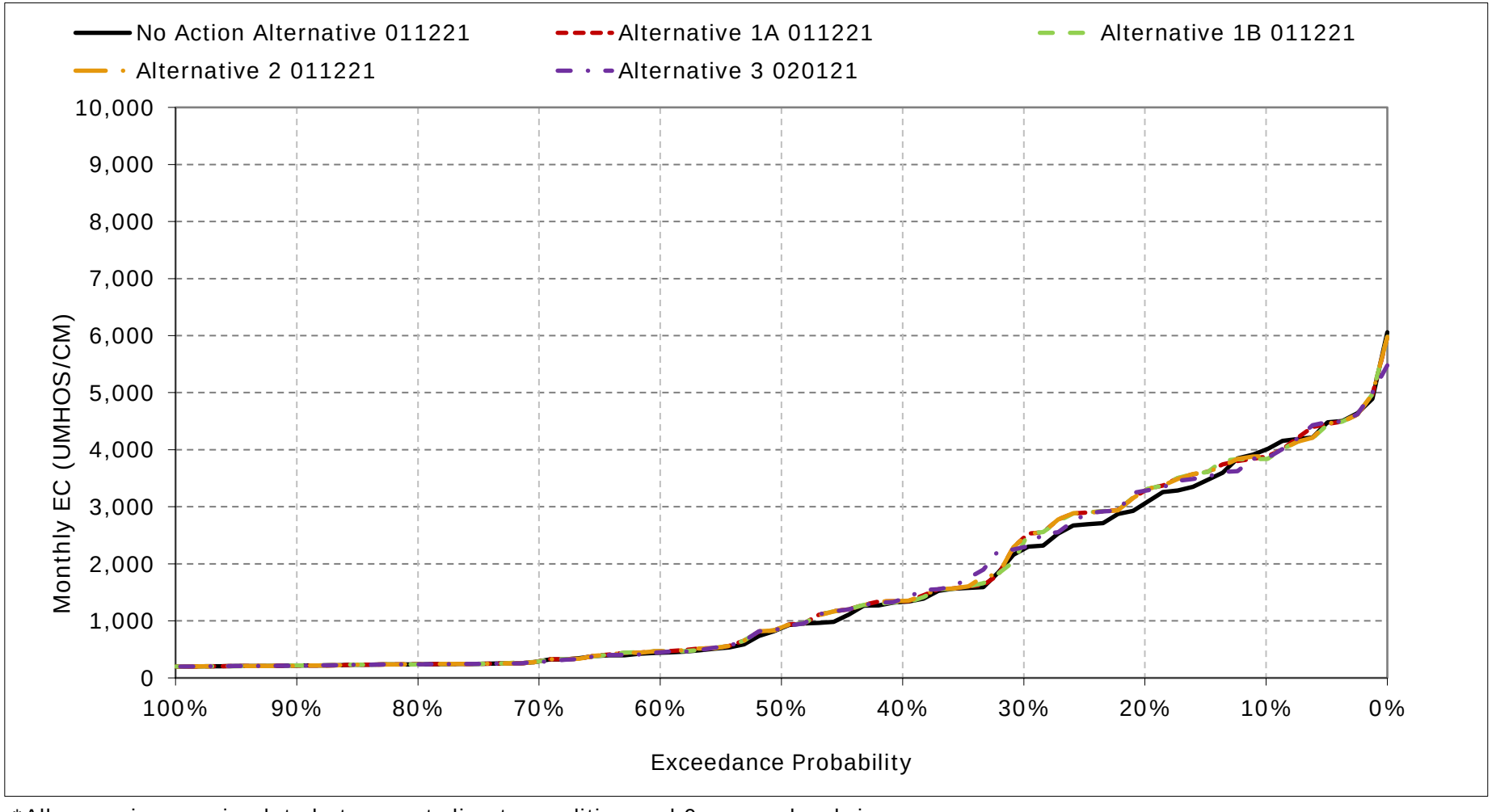


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

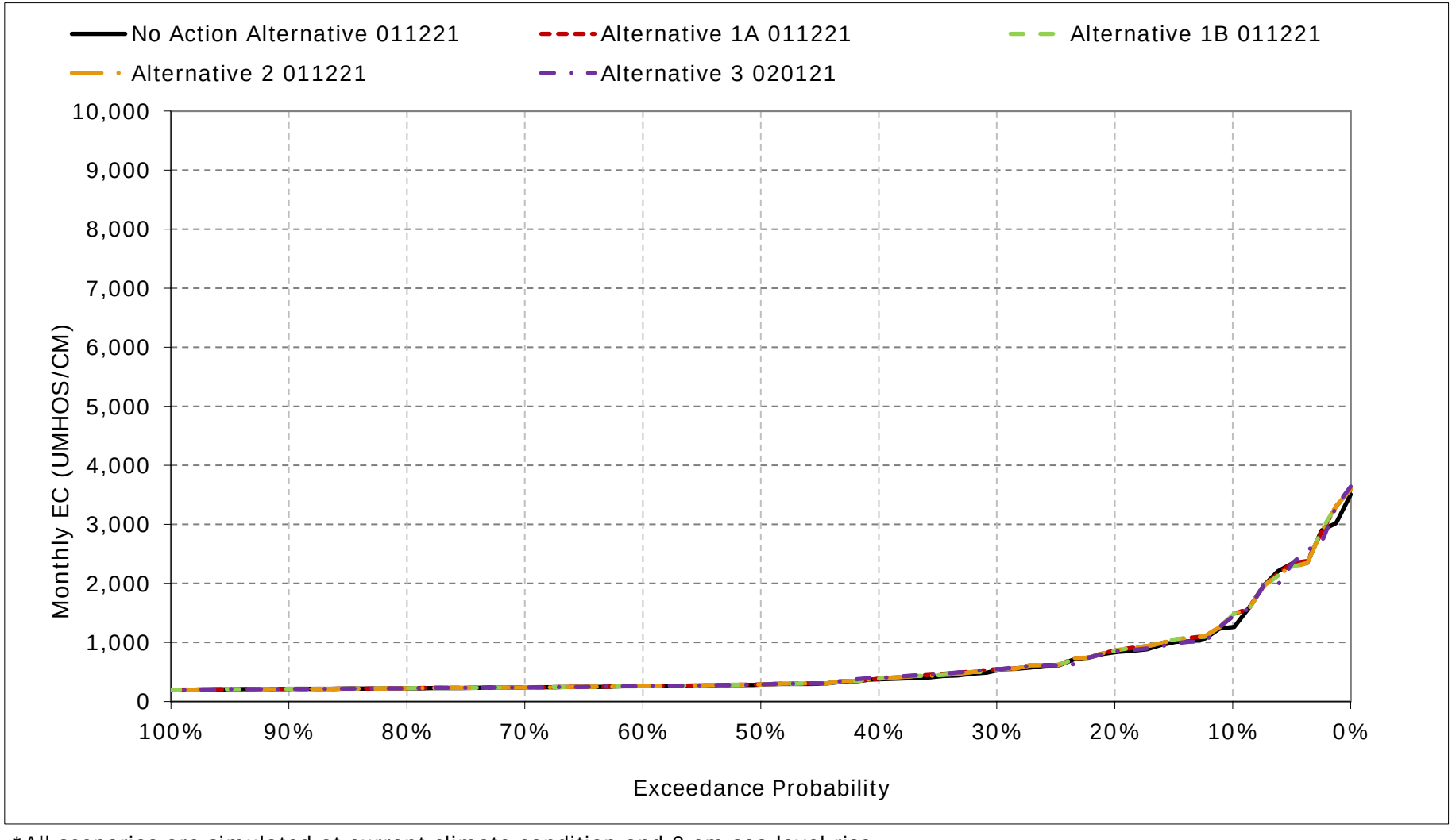
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-7. San Joaquin River at Antioch Salinity, January EC



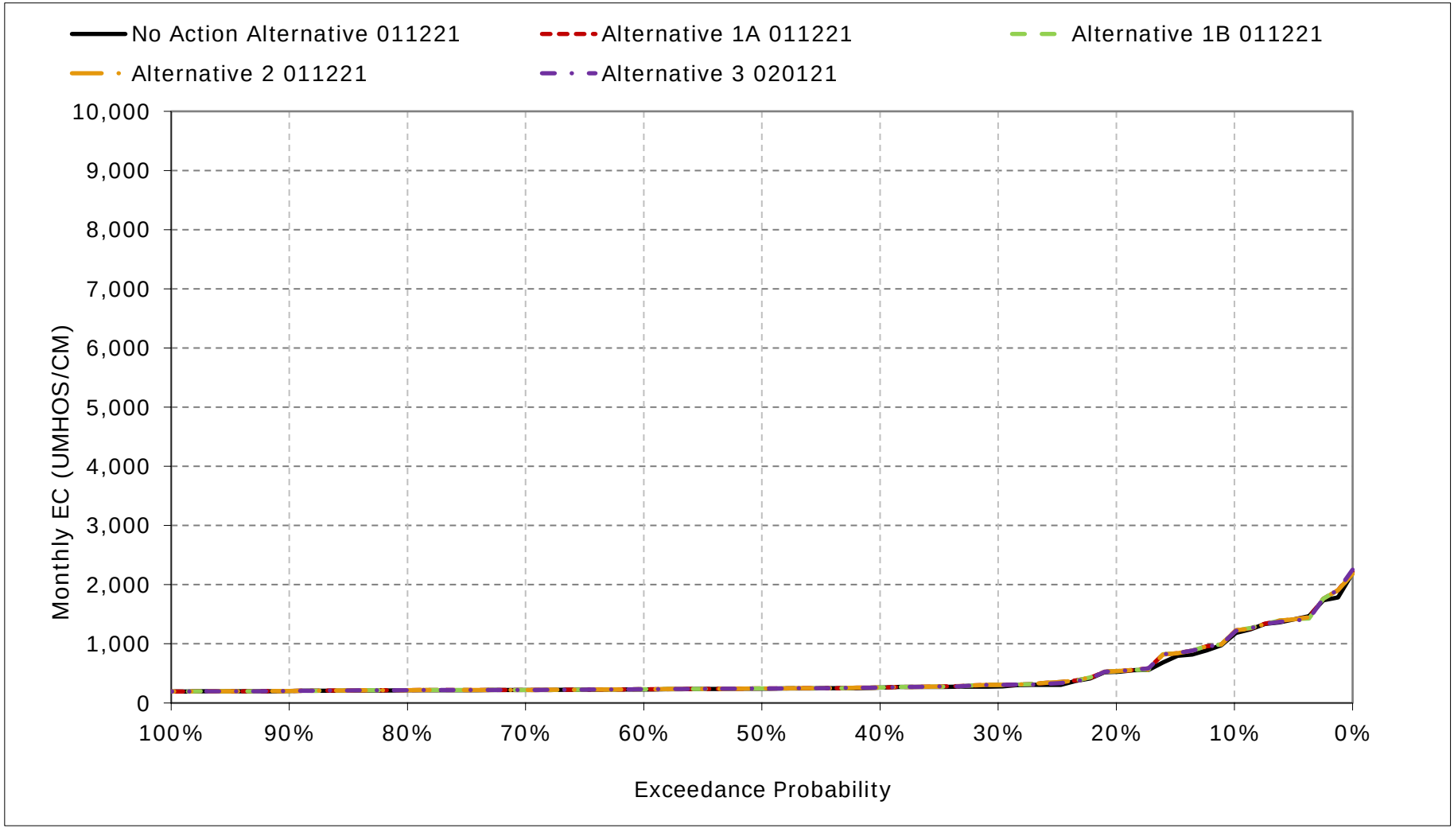
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-8. San Joaquin River at Antioch Salinity, February EC



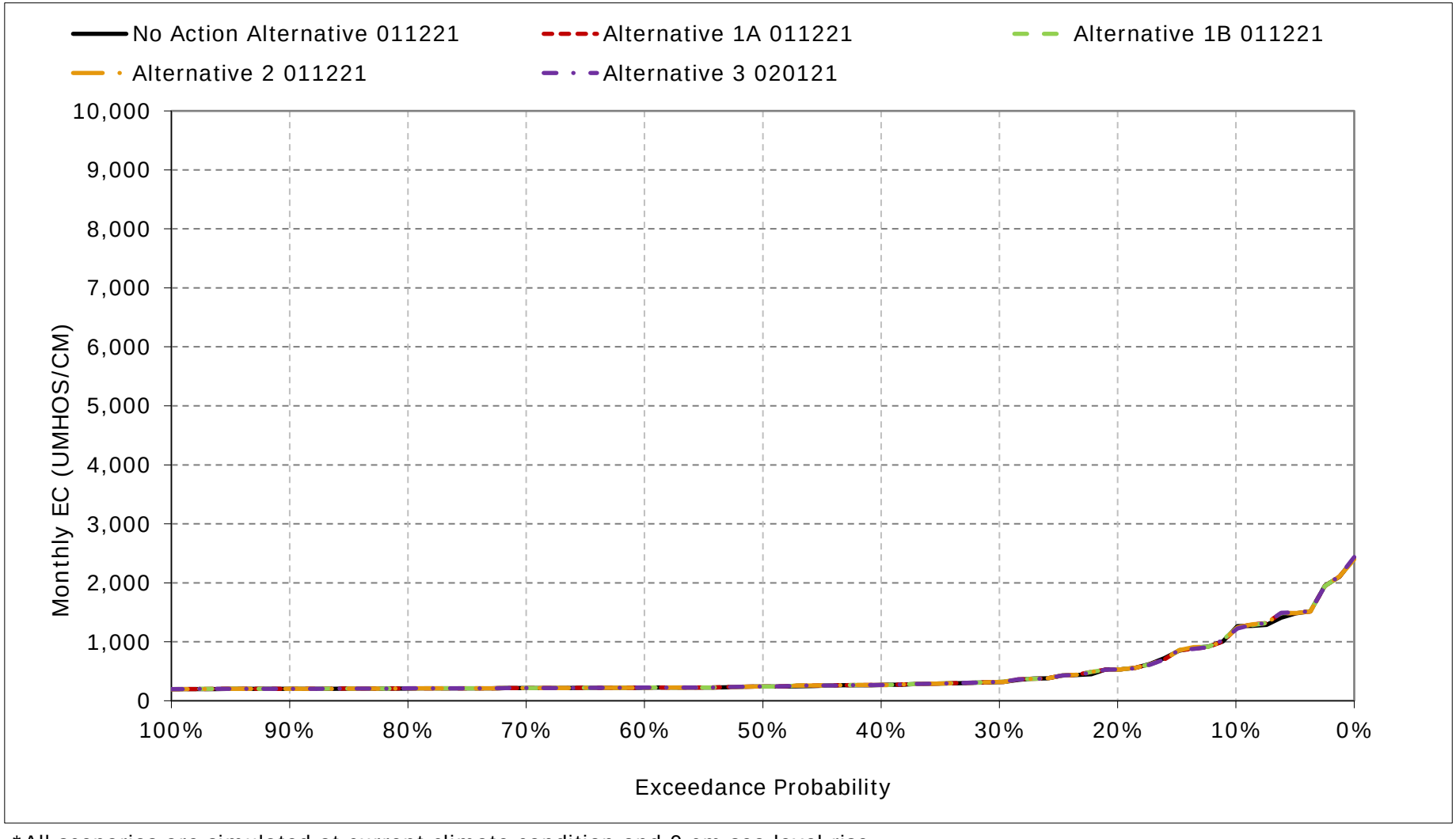
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-9. San Joaquin River at Antioch Salinity, March EC



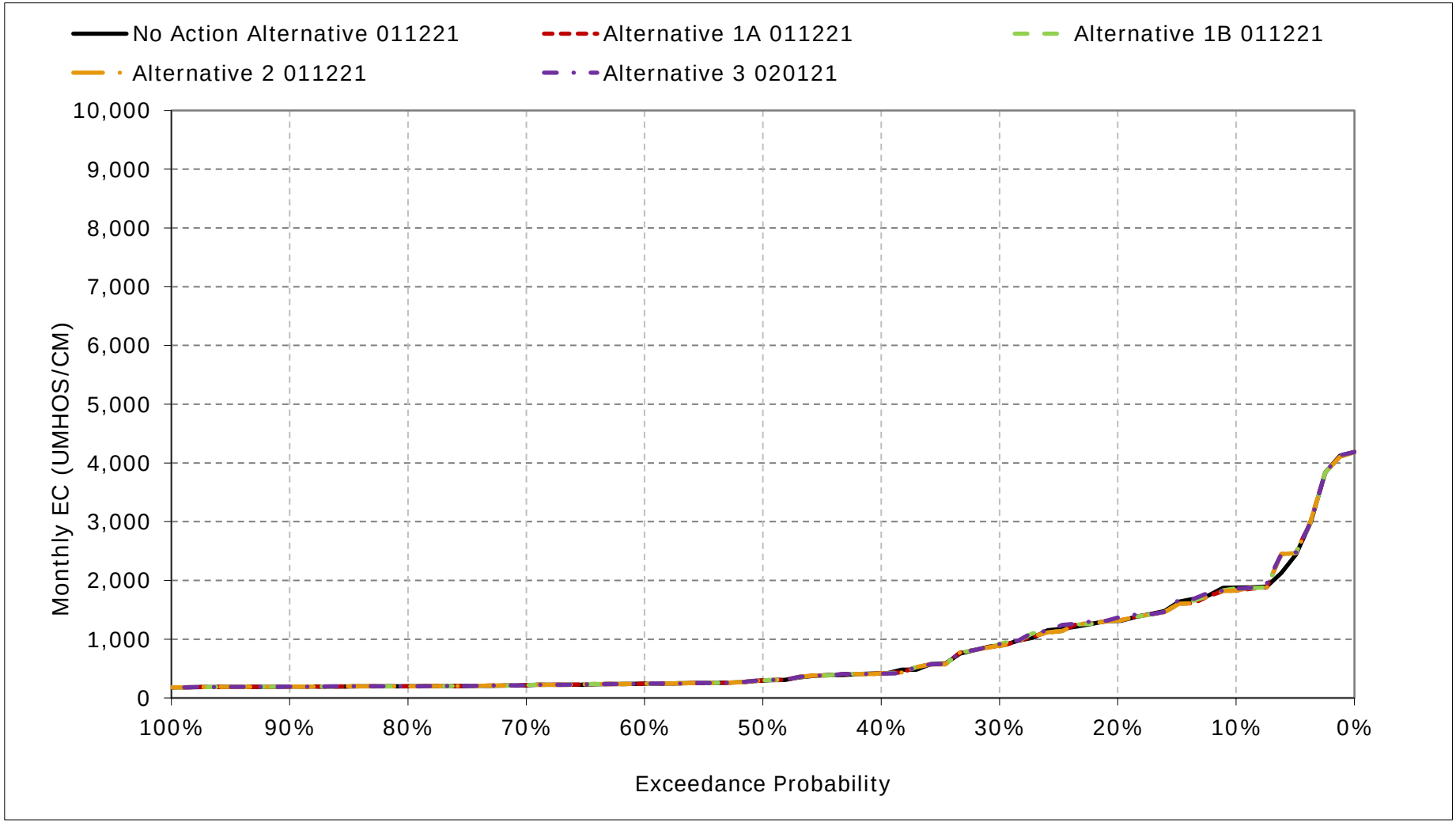
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-10. San Joaquin River at Antioch Salinity, April EC



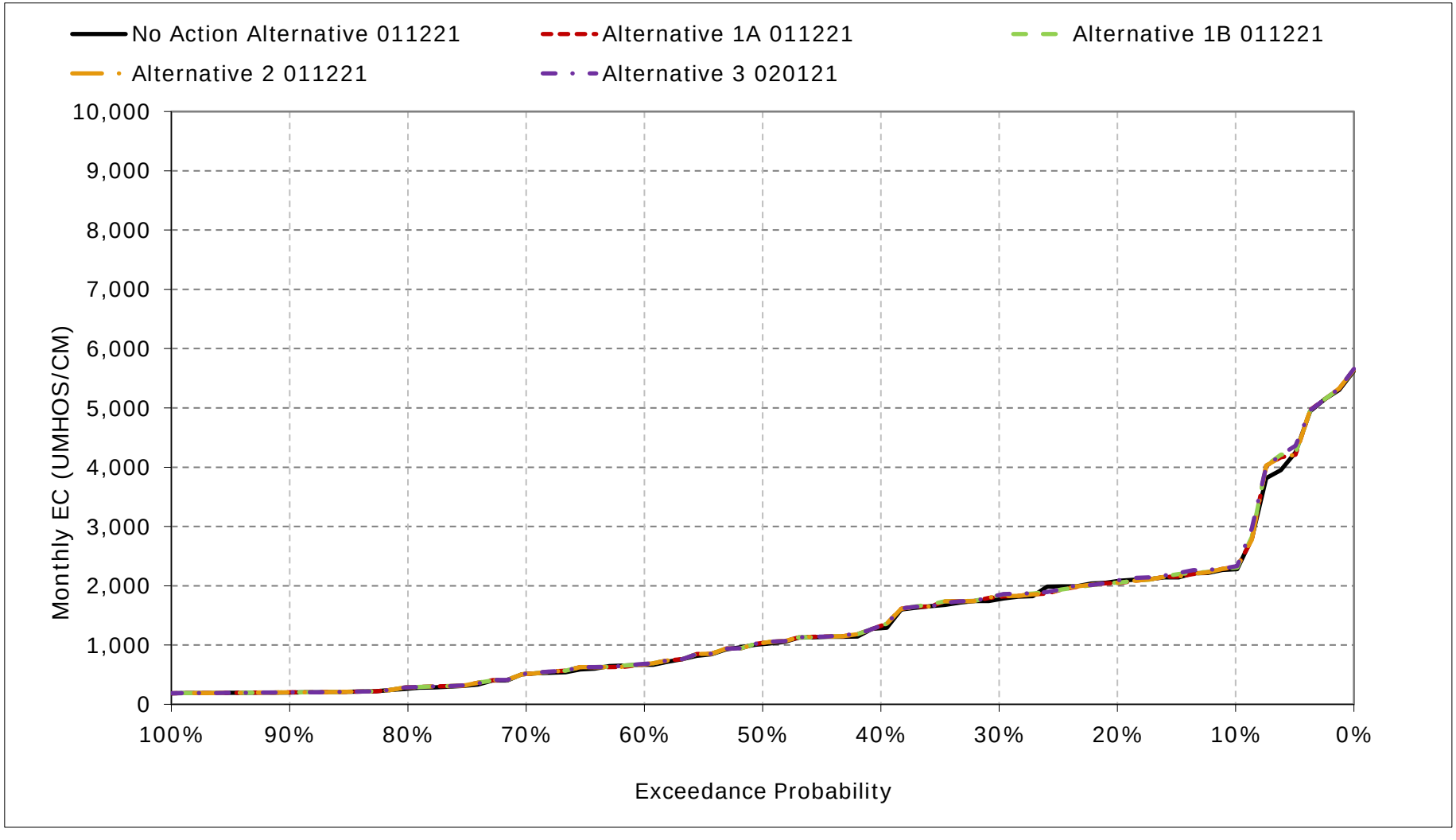
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-11. San Joaquin River at Antioch Salinity, May EC



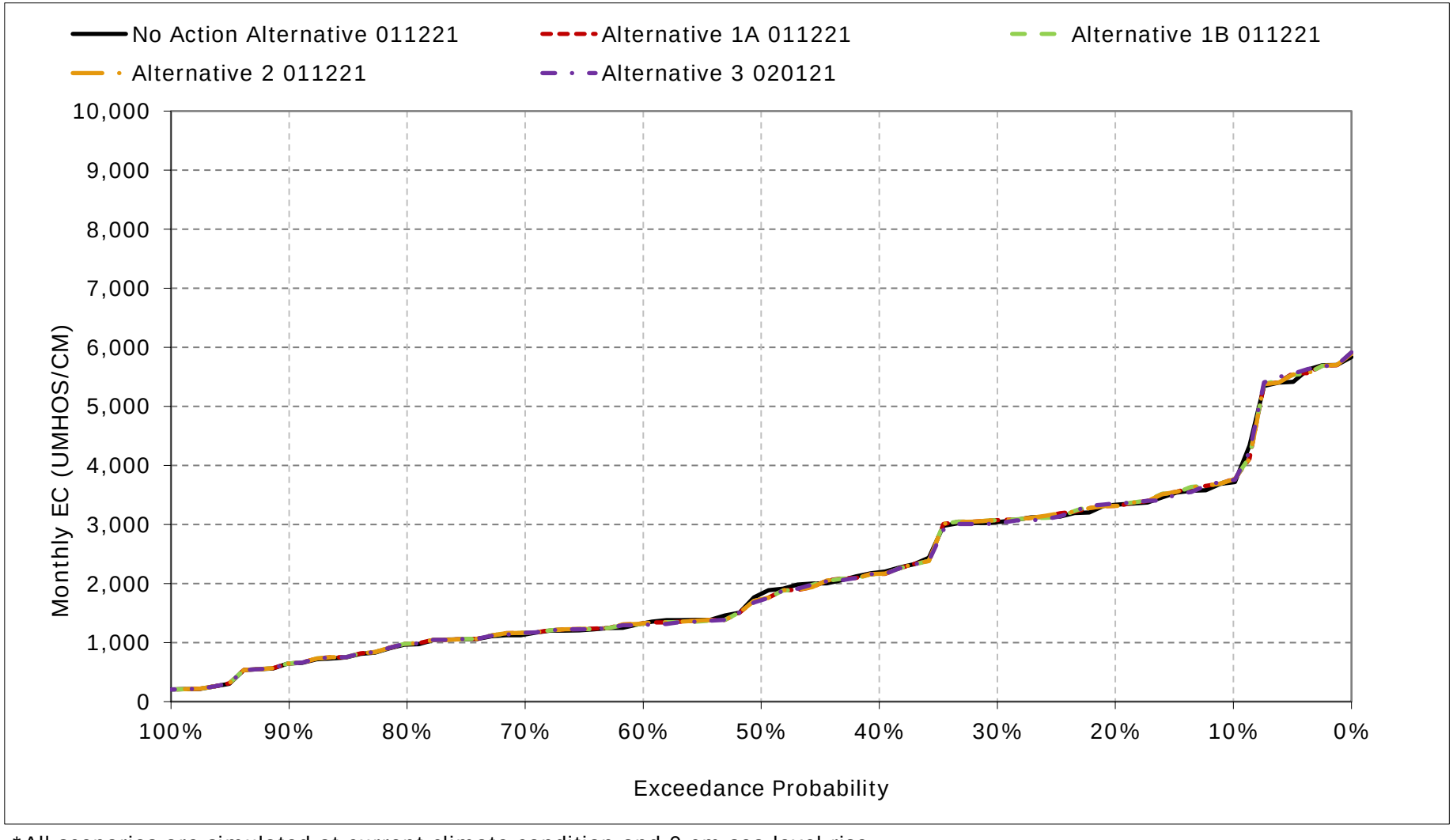
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-12. San Joaquin River at Antioch Salinity, June EC



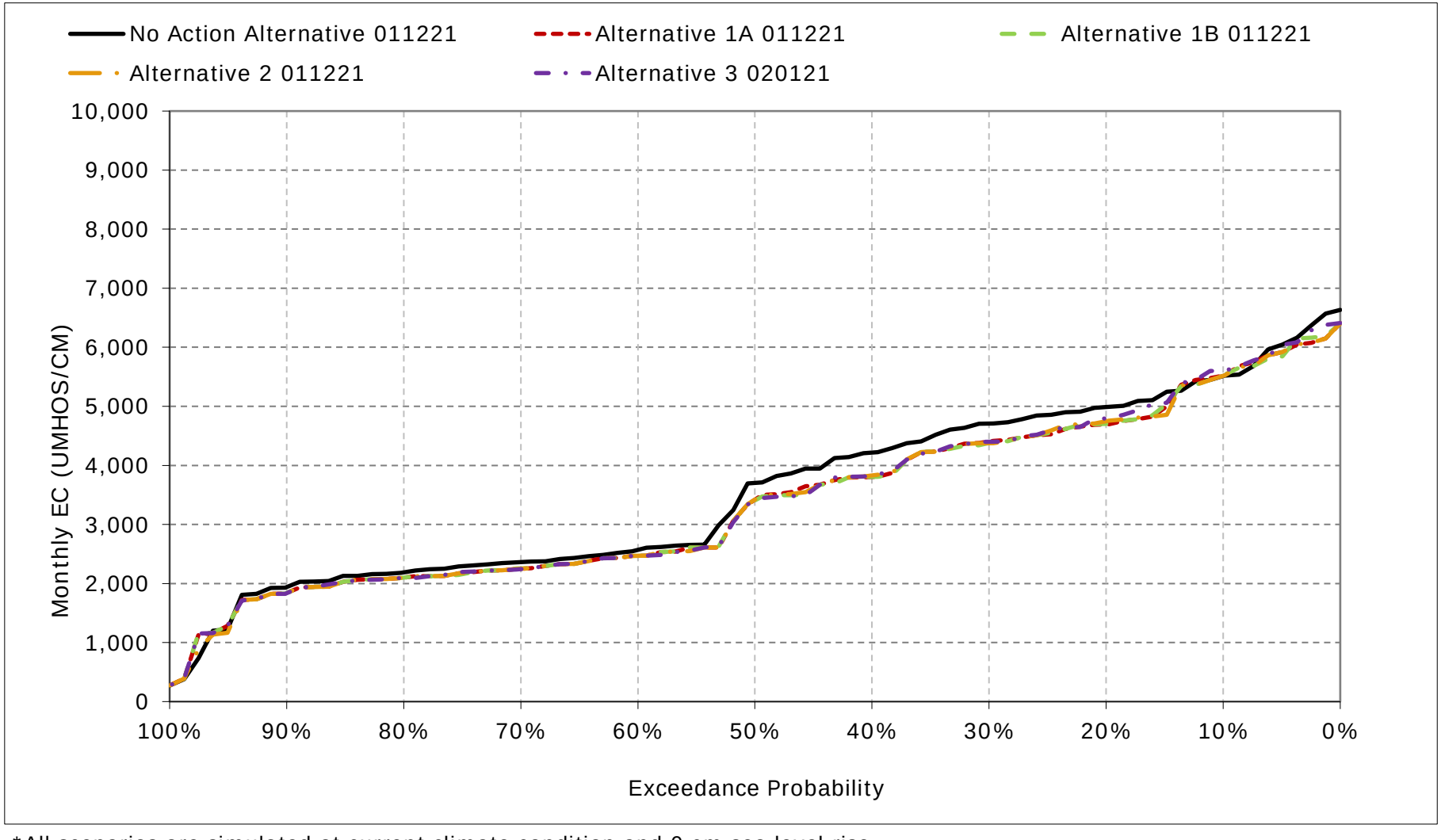
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-13. San Joaquin River at Antioch Salinity, July EC



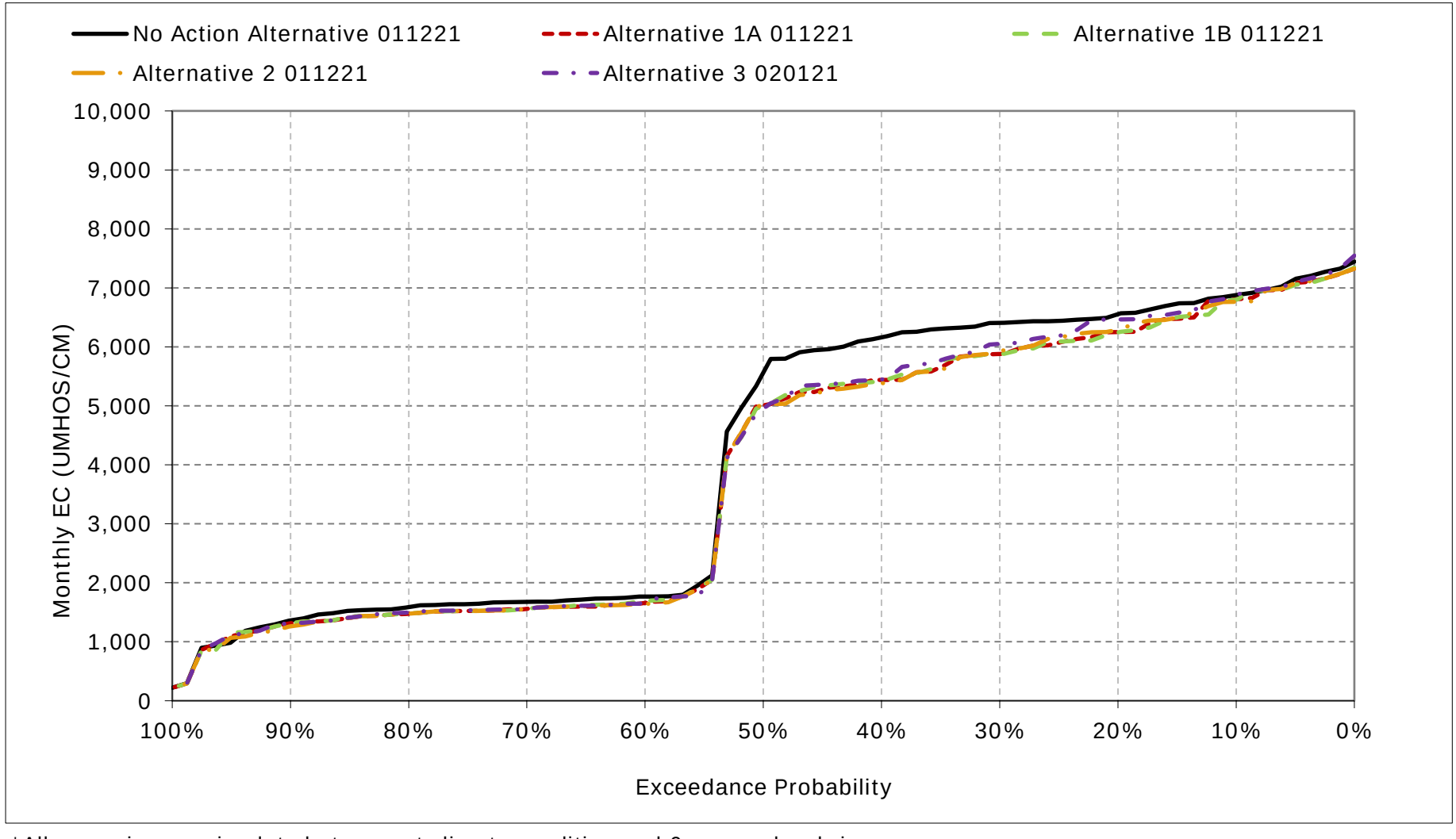
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-14. San Joaquin River at Antioch Salinity, August EC



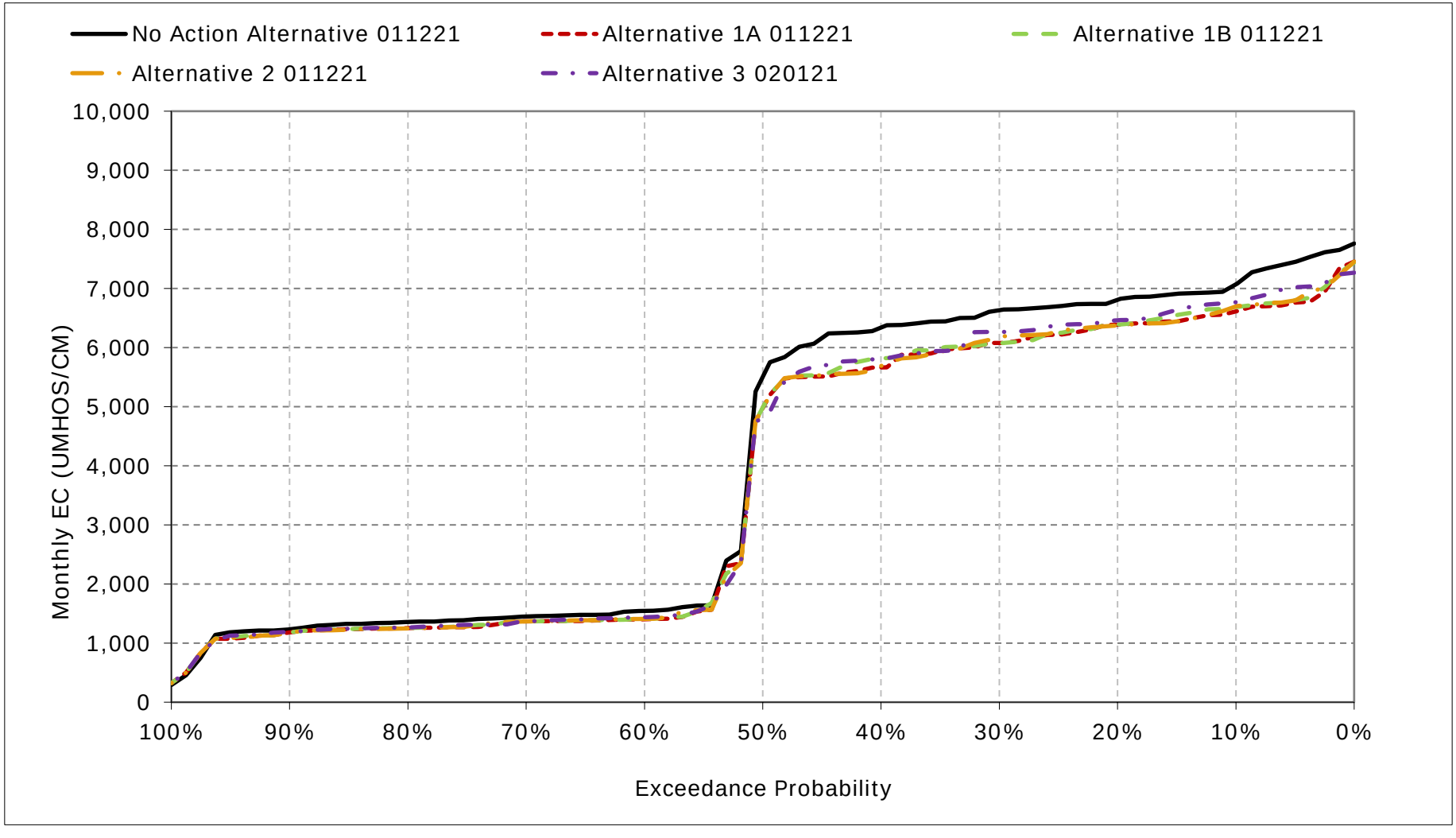
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-15. San Joaquin River at Antioch Salinity, September EC



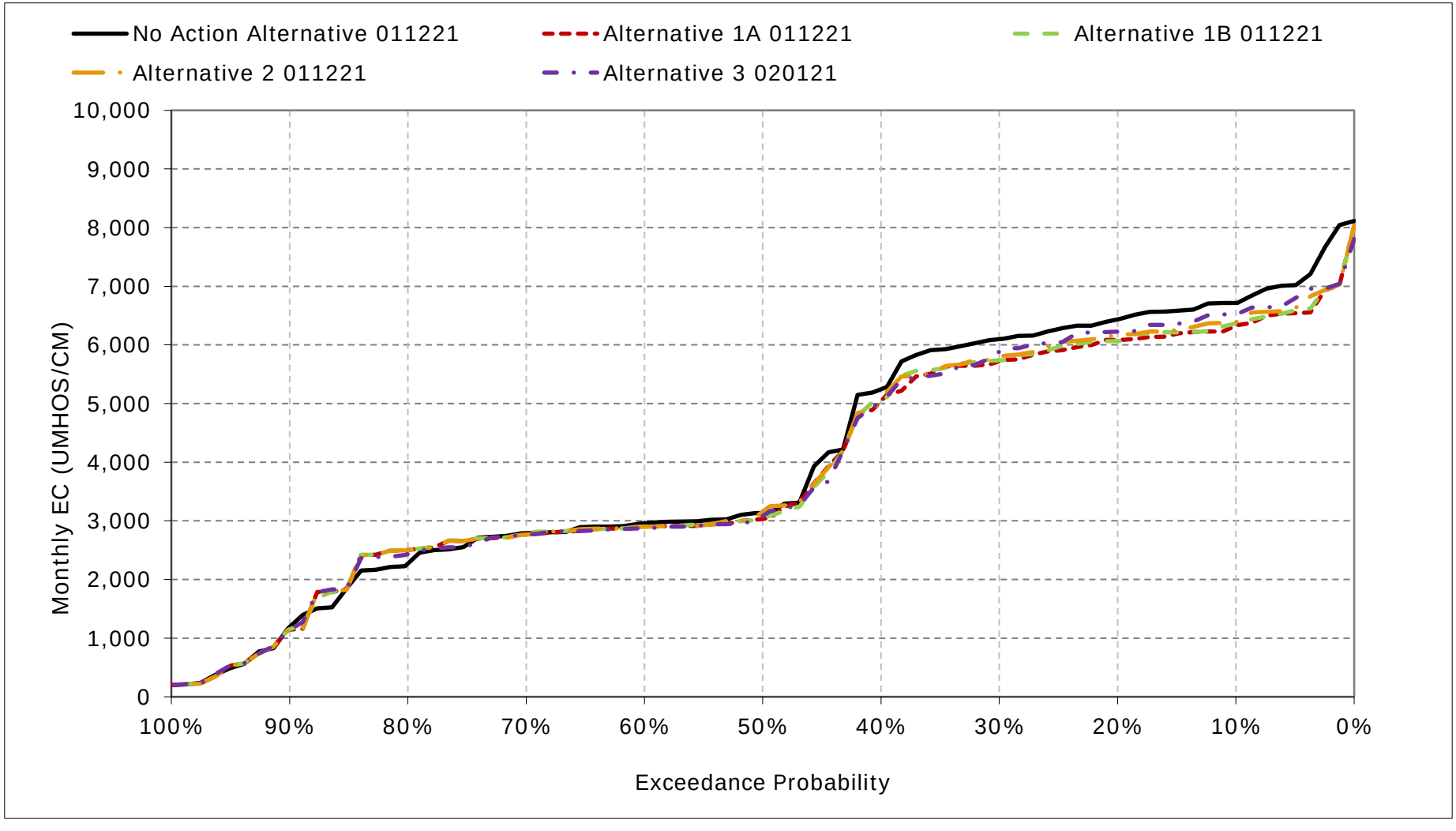
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-16. San Joaquin River at Antioch Salinity, October EC



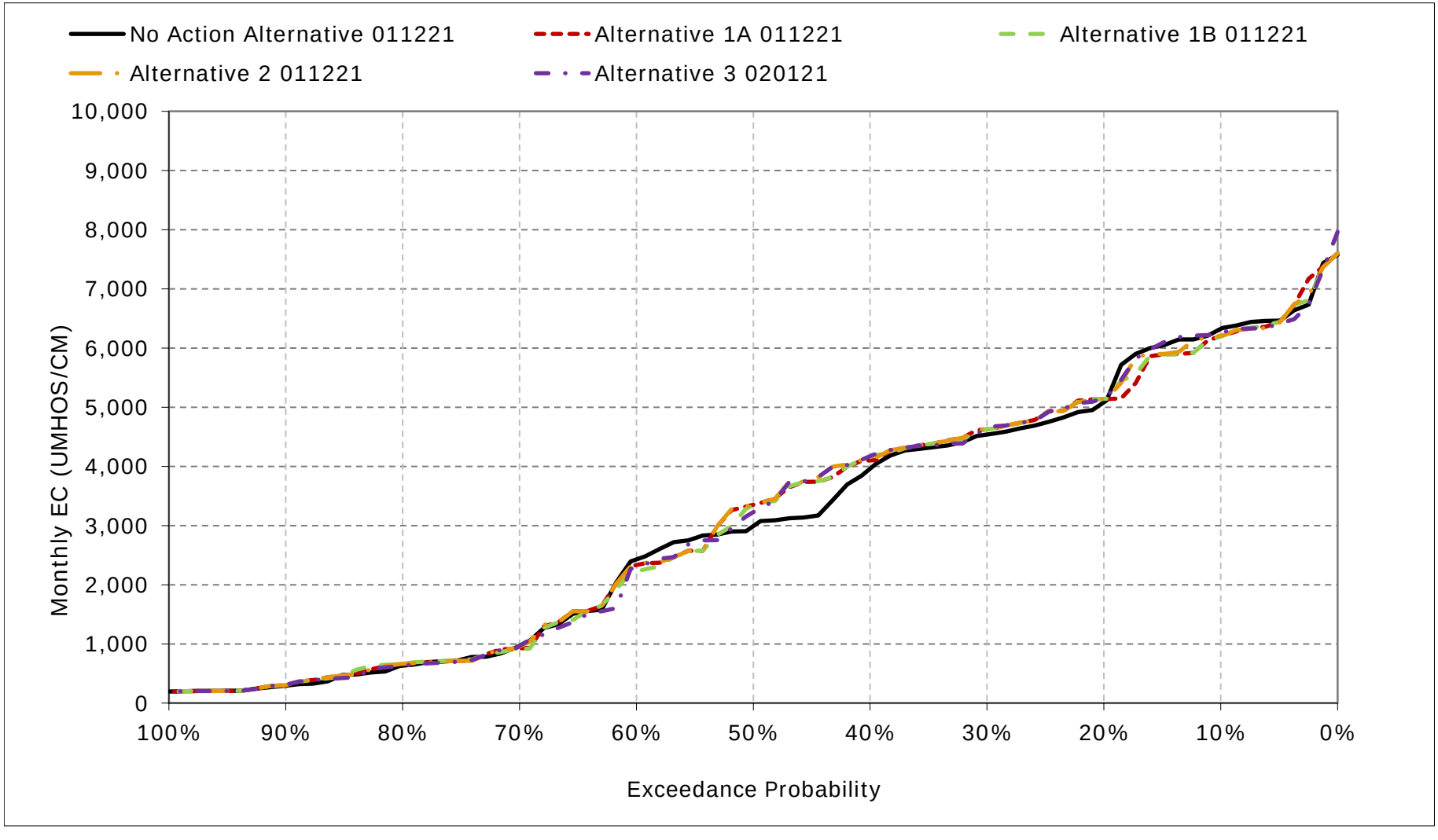
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-17. San Joaquin River at Antioch Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-11-18. San Joaquin River at Antioch Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-12-1a. San Joaquin River at Jersey Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,506	2,397	2,342	1,640	650	374	317	471	589	1,543	1,811	2,599
20%	2,302	2,186	2,211	1,305	432	278	248	357	491	1,070	1,665	2,501
30%	2,181	2,023	2,033	1,013	319	250	230	276	449	915	1,594	2,339
40%	2,043	1,883	1,689	770	289	239	224	229	352	804	1,434	2,214
50%	1,684	1,281	1,463	452	268	232	220	217	286	629	1,283	2,028
60%	562	1,142	1,139	331	253	227	215	211	241	473	870	742
70%	448	1,054	576	269	236	217	212	205	217	402	755	632
80%	376	991	451	240	219	209	209	201	202	322	654	545
90%	330	510	240	219	213	204	205	192	198	244	518	421
Long Term												
Full Simulation Period[a]	1,369	1,498	1,368	738	357	261	243	296	410	753	1,183	1,538
Water Year Types[b]												
Wet (32%)	423	862	1,146	286	235	222	212	201	214	322	601	519
Above Normal (15%)	418	1,083	1,361	595	272	226	218	209	261	427	762	631
Below Normal (17%)	2,209	1,745	1,329	774	289	233	227	244	324	774	1,549	2,543
Dry (22%)	2,199	1,977	1,378	1,009	440	264	241	307	464	1,141	1,573	2,270
Critical (15%)	2,147	2,281	1,889	1,416	660	405	359	633	999	1,406	1,854	2,386

Table 6B1-12-1b. San Joaquin River at Jersey Point, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,336	2,281	2,337	1,636	639	389	312	467	591	1,585	1,786	2,453
20%	2,226	2,106	2,221	1,390	451	280	248	359	496	1,177	1,673	2,351
30%	2,050	2,008	2,020	1,022	332	252	233	276	452	945	1,553	2,279
40%	1,857	1,801	1,850	826	290	239	226	227	364	832	1,426	2,138
50%	1,540	1,287	1,560	470	271	235	221	218	289	603	1,247	1,922
60%	521	1,097	1,110	339	257	228	216	212	243	472	836	687
70%	410	1,055	563	269	237	218	213	205	218	397	720	592
80%	351	981	454	240	220	210	209	201	202	331	632	512
90%	329	517	246	219	214	204	205	192	198	244	490	401
Long Term												
Full Simulation Period[a]	1,285	1,457	1,393	759	363	264	245	297	414	781	1,163	1,478
Water Year Types[b]												
Wet (32%)	398	849	1,179	287	235	223	212	201	215	323	583	496
Above Normal (15%)	402	1,070	1,381	639	276	227	218	210	262	428	740	603
Below Normal (17%)	2,072	1,755	1,340	790	292	236	227	245	327	765	1,425	2,282
Dry (22%)	2,152	1,945	1,386	1,030	445	266	242	306	467	1,223	1,583	2,169
Critical (15%)	1,874	2,083	1,943	1,456	685	420	365	638	1,017	1,479	1,909	2,505

Table 6B1-12-1c. San Joaquin River at Jersey Point, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-170	-116	-6	-4	-12	15	-5	-4	2	43	-25	-145
20%	-76	-81	10	84	19	2	0	2	5	107	8	-151
30%	-131	-14	-13	8	14	2	3	0	3	30	-41	-59
40%	-185	-82	162	56	1	0	1	-2	12	29	-8	-76
50%	-144	6	98	18	3	3	1	0	3	-26	-36	-106
60%	-40	-44	-29	8	4	1	1	0	2	-1	-35	-55
70%	-38	1	-13	0	1	1	1	0	1	-5	-35	-40
80%	-25	-9	3	1	1	1	0	0	0	9	-21	-34
90%	-1	8	6	0	1	0	0	0	0	0	-28	-20
Long Term												
Full Simulation Period[a]	-84	-40	25	20	6	3	1	1	4	28	-20	-61
Water Year Types[b]												
Wet (32%)	-26	-13	33	2	1	0	0	0	0	1	-18	-23
Above Normal (15%)	-16	-14	20	44	4	1	0	0	2	1	-22	-27
Below Normal (17%)	-137	10	11	16	4	3	1	0	3	-9	-125	-261
Dry (22%)	-47	-33	9	21	5	2	1	-1	3	82	10	-101
Critical (15%)	-273	-198	54	40	25	16	6	4	17	73	55	118

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-12-2a. San Joaquin River at Jersey Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,506	2,397	2,342	1,640	650	374	317	471	589	1,543	1,811	2,599
20%	2,302	2,186	2,211	1,305	432	278	248	357	491	1,070	1,665	2,501
30%	2,181	2,023	2,033	1,013	319	250	230	276	449	915	1,594	2,339
40%	2,043	1,883	1,689	770	289	239	224	229	352	804	1,434	2,214
50%	1,684	1,281	1,463	452	268	232	220	217	286	629	1,283	2,028
60%	562	1,142	1,139	331	253	227	215	211	241	473	870	742
70%	448	1,054	576	269	236	217	212	205	217	402	755	632
80%	376	991	451	240	219	209	209	201	202	322	654	545
90%	330	510	240	219	213	204	205	192	198	244	518	421
Long Term												
Full Simulation Period[a]	1,369	1,498	1,368	738	357	261	243	296	410	753	1,183	1,538
Water Year Types[b]												
Wet (32%)	423	862	1,146	286	235	222	212	201	214	322	601	519
Above Normal (15%)	418	1,083	1,361	595	272	226	218	209	261	427	762	631
Below Normal (17%)	2,209	1,745	1,329	774	289	233	227	244	324	774	1,549	2,543
Dry (22%)	2,199	1,977	1,378	1,009	440	264	241	307	464	1,141	1,573	2,270
Critical (15%)	2,147	2,281	1,889	1,416	660	405	359	633	999	1,406	1,854	2,386

Table 6B1-12-2b. San Joaquin River at Jersey Point, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,351	2,313	2,339	1,608	642	385	315	471	591	1,605	1,778	2,476
20%	2,223	2,092	2,217	1,391	451	279	248	356	494	1,150	1,669	2,329
30%	2,072	1,999	2,029	1,019	323	253	234	276	459	977	1,562	2,234
40%	1,911	1,851	1,873	821	290	239	226	227	364	832	1,431	2,163
50%	1,580	1,278	1,519	467	271	235	221	218	289	602	1,246	1,971
60%	521	1,102	1,113	339	256	228	216	212	243	471	837	687
70%	410	1,063	550	271	237	218	213	205	218	395	720	612
80%	355	982	468	241	220	210	209	201	202	330	631	513
90%	330	518	246	219	214	204	205	193	199	244	492	412
Long Term												
Full Simulation Period[a]	1,299	1,471	1,393	755	362	264	244	297	415	782	1,162	1,484
Water Year Types[b]												
Wet (32%)	399	852	1,179	288	235	223	212	201	215	323	583	496
Above Normal (15%)	412	1,078	1,375	638	275	227	218	210	262	428	741	610
Below Normal (17%)	2,063	1,737	1,328	790	292	236	227	244	328	763	1,412	2,274
Dry (22%)	2,192	2,002	1,388	1,022	444	266	242	307	472	1,232	1,589	2,179
Critical (15%)	1,905	2,096	1,954	1,442	681	418	365	638	1,018	1,481	1,902	2,532

Table 6B1-12-2c. San Joaquin River at Jersey Point, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-154	-84	-3	-32	-8	10	-2	0	2	62	-32	-123
20%	-79	-95	6	86	19	1	0	-1	4	79	4	-172
30%	-109	-23	-4	5	4	3	3	0	9	62	-32	-105
40%	-132	-33	185	51	1	0	1	-2	12	29	-3	-51
50%	-104	-3	56	15	3	3	1	0	3	-28	-37	-58
60%	-40	-40	-25	8	4	1	1	0	2	-2	-33	-55
70%	-38	9	-26	2	1	1	1	0	1	-7	-35	-20
80%	-21	-9	17	1	1	1	0	0	0	8	-23	-33
90%	0	8	6	0	1	0	0	1	0	0	-26	-9
Long Term												
Full Simulation Period[a]	-71	-27	24	17	5	3	1	1	5	29	-22	-55
Water Year Types[b]												
Wet (32%)	-25	-10	33	2	1	0	0	0	0	1	-18	-23
Above Normal (15%)	-6	-5	15	43	4	1	0	0	1	1	-21	-21
Below Normal (17%)	-146	-8	-1	16	4	3	1	0	4	-11	-137	-268
Dry (22%)	-7	25	11	14	5	2	1	0	7	92	16	-91
Critical (15%)	-242	-186	65	26	21	14	5	5	19	75	48	145

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-12-3a. San Joaquin River at Jersey Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,506	2,397	2,342	1,640	650	374	317	471	589	1,543	1,811	2,599
20%	2,302	2,186	2,211	1,305	432	278	248	357	491	1,070	1,665	2,501
30%	2,181	2,023	2,033	1,013	319	250	230	276	449	915	1,594	2,339
40%	2,043	1,883	1,689	770	289	239	224	229	352	804	1,434	2,214
50%	1,684	1,281	1,463	452	268	232	220	217	286	629	1,283	2,028
60%	562	1,142	1,139	331	253	227	215	211	241	473	870	742
70%	448	1,054	576	269	236	217	212	205	217	402	755	632
80%	376	991	451	240	219	209	209	201	202	322	654	545
90%	330	510	240	219	213	204	205	192	198	244	518	421
Long Term												
Full Simulation Period[a]	1,369	1,498	1,368	738	357	261	243	296	410	753	1,183	1,538
Water Year Types[b]												
Wet (32%)	423	862	1,146	286	235	222	212	201	214	322	601	519
Above Normal (15%)	418	1,083	1,361	595	272	226	218	209	261	427	762	631
Below Normal (17%)	2,209	1,745	1,329	774	289	233	227	244	324	774	1,549	2,543
Dry (22%)	2,199	1,977	1,378	1,009	440	264	241	307	464	1,141	1,573	2,270
Critical (15%)	2,147	2,281	1,889	1,416	660	405	359	633	999	1,406	1,854	2,386

Table 6B1-12-3b. San Joaquin River at Jersey Point, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,330	2,268	2,340	1,626	642	389	312	470	591	1,581	1,780	2,455
20%	2,225	2,107	2,233	1,392	452	280	248	359	496	1,156	1,671	2,332
30%	2,048	2,026	2,052	1,022	332	253	233	276	452	945	1,553	2,257
40%	1,906	1,799	1,869	828	290	239	225	227	364	831	1,425	2,113
50%	1,527	1,284	1,577	469	271	235	221	218	289	600	1,241	1,891
60%	522	1,112	1,110	339	257	228	216	212	243	472	836	687
70%	418	1,060	572	269	237	218	213	205	218	397	720	592
80%	352	981	454	240	219	210	209	201	202	331	632	511
90%	328	515	246	219	214	204	205	192	198	244	490	395
Long Term												
Full Simulation Period[a]	1,281	1,465	1,402	758	363	264	245	297	414	780	1,159	1,472
Water Year Types[b]												
Wet (32%)	400	857	1,180	287	235	223	212	201	215	323	580	492
Above Normal (15%)	401	1,069	1,380	639	276	227	218	210	262	428	738	602
Below Normal (17%)	2,055	1,753	1,340	801	293	236	228	245	327	765	1,423	2,267
Dry (22%)	2,132	1,964	1,425	1,027	446	267	241	306	467	1,223	1,586	2,178
Critical (15%)	1,890	2,096	1,942	1,444	681	420	365	638	1,017	1,474	1,886	2,481

Table 6B1-12-3c. San Joaquin River at Jersey Point, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-176	-129	-2	-14	-9	15	-5	-2	2	39	-30	-144
20%	-77	-79	22	86	20	2	0	2	5	86	7	-169
30%	-133	4	18	8	13	3	3	0	3	30	-41	-82
40%	-137	-84	181	58	1	0	1	-2	12	28	-9	-101
50%	-157	3	114	17	3	3	1	0	3	-29	-42	-137
60%	-40	-29	-29	8	4	0	1	0	2	-1	-35	-55
70%	-30	6	-4	0	1	1	1	0	1	-5	-35	-40
80%	-24	-10	3	1	1	1	0	0	0	9	-21	-34
90%	-2	5	6	0	1	0	0	0	0	0	-28	-26
Long Term												
Full Simulation Period[a]	-88	-32	34	20	6	3	1	1	4	27	-24	-66
Water Year Types[b]												
Wet (32%)	-23	-5	34	2	1	0	0	0	0	1	-21	-28
Above Normal (15%)	-16	-14	20	44	4	1	0	0	2	1	-24	-29
Below Normal (17%)	-154	8	11	27	5	3	1	0	3	-9	-127	-276
Dry (22%)	-66	-14	48	18	7	2	1	-1	3	82	13	-92
Critical (15%)	-257	-185	52	28	20	15	6	5	18	68	32	94

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-12-4a. San Joaquin River at Jersey Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,506	2,397	2,342	1,640	650	374	317	471	589	1,543	1,811	2,599
20%	2,302	2,186	2,211	1,305	432	278	248	357	491	1,070	1,665	2,501
30%	2,181	2,023	2,033	1,013	319	250	230	276	449	915	1,594	2,339
40%	2,043	1,883	1,689	770	289	239	224	229	352	804	1,434	2,214
50%	1,684	1,281	1,463	452	268	232	220	217	286	629	1,283	2,028
60%	562	1,142	1,139	331	253	227	215	211	241	473	870	742
70%	448	1,054	576	269	236	217	212	205	217	402	755	632
80%	376	991	451	240	219	209	209	201	202	322	654	545
90%	330	510	240	219	213	204	205	192	198	244	518	421
Long Term												
Full Simulation Period[a]	1,369	1,498	1,368	738	357	261	243	296	410	753	1,183	1,538
Water Year Types[b]												
Wet (32%)	423	862	1,146	286	235	222	212	201	214	322	601	519
Above Normal (15%)	418	1,083	1,361	595	272	226	218	209	261	427	762	631
Below Normal (17%)	2,209	1,745	1,329	774	289	233	227	244	324	774	1,549	2,543
Dry (22%)	2,199	1,977	1,378	1,009	440	264	241	307	464	1,141	1,573	2,270
Critical (15%)	2,147	2,281	1,889	1,416	660	405	359	633	999	1,406	1,854	2,386

Table 6B1-12-4b. San Joaquin River at Jersey Point, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,358	2,281	2,352	1,635	625	371	314	481	593	1,573	1,772	2,542
20%	2,272	2,112	2,204	1,373	444	280	248	365	506	1,137	1,665	2,396
30%	2,067	2,014	2,070	1,009	332	252	234	276	454	945	1,566	2,293
40%	1,911	1,864	1,869	844	290	240	226	227	365	833	1,481	2,152
50%	1,637	1,287	1,704	468	272	235	221	217	289	600	1,228	2,013
60%	549	1,094	1,092	339	255	228	216	212	243	472	831	689
70%	417	1,072	577	268	237	218	213	205	218	394	724	614
80%	365	995	451	240	220	210	209	201	202	327	628	511
90%	339	514	246	218	214	204	205	193	199	244	490	431
Long Term												
Full Simulation Period[a]	1,308	1,472	1,400	753	360	264	245	299	417	778	1,169	1,501
Water Year Types[b]												
Wet (32%)	401	852	1,180	286	235	223	212	201	215	323	582	495
Above Normal (15%)	444	1,081	1,355	637	275	227	218	210	263	428	742	617
Below Normal (17%)	2,095	1,740	1,304	827	296	236	227	244	328	763	1,417	2,281
Dry (22%)	2,164	1,987	1,458	1,003	433	264	241	312	478	1,214	1,587	2,239
Critical (15%)	1,933	2,120	1,946	1,418	680	420	365	642	1,021	1,478	1,955	2,545

Table 6B1-12-4c. San Joaquin River at Jersey Point, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-148	-116	10	-5	-25	-3	-3	9	4	30	-39	-57
20%	-30	-74	-7	68	12	2	0	8	15	67	0	-105
30%	-113	-9	37	-5	14	2	3	0	5	30	-27	-46
40%	-131	-20	181	74	1	1	1	-2	13	29	47	-62
50%	-46	6	242	15	4	3	1	0	3	-29	-55	-15
60%	-13	-48	-47	8	3	1	0	0	2	-1	-39	-53
70%	-31	18	1	0	1	1	1	0	1	-8	-31	-18
80%	-11	4	0	1	1	1	0	0	1	5	-25	-34
90%	9	4	6	-1	1	0	0	1	0	0	-28	10
Long Term												
Full Simulation Period[a]	-62	-26	32	14	3	3	1	3	7	25	-14	-38
Water Year Types[b]												
Wet (32%)	-23	-10	34	0	1	1	0	0	1	1	-19	-24
Above Normal (15%)	27	-3	-5	42	3	1	0	0	2	1	-20	-14
Below Normal (17%)	-114	-5	-25	53	7	3	1	0	4	-12	-132	-262
Dry (22%)	-35	10	80	-6	-6	0	0	5	13	74	14	-30
Critical (15%)	-214	-162	57	2	20	15	6	9	22	72	101	159

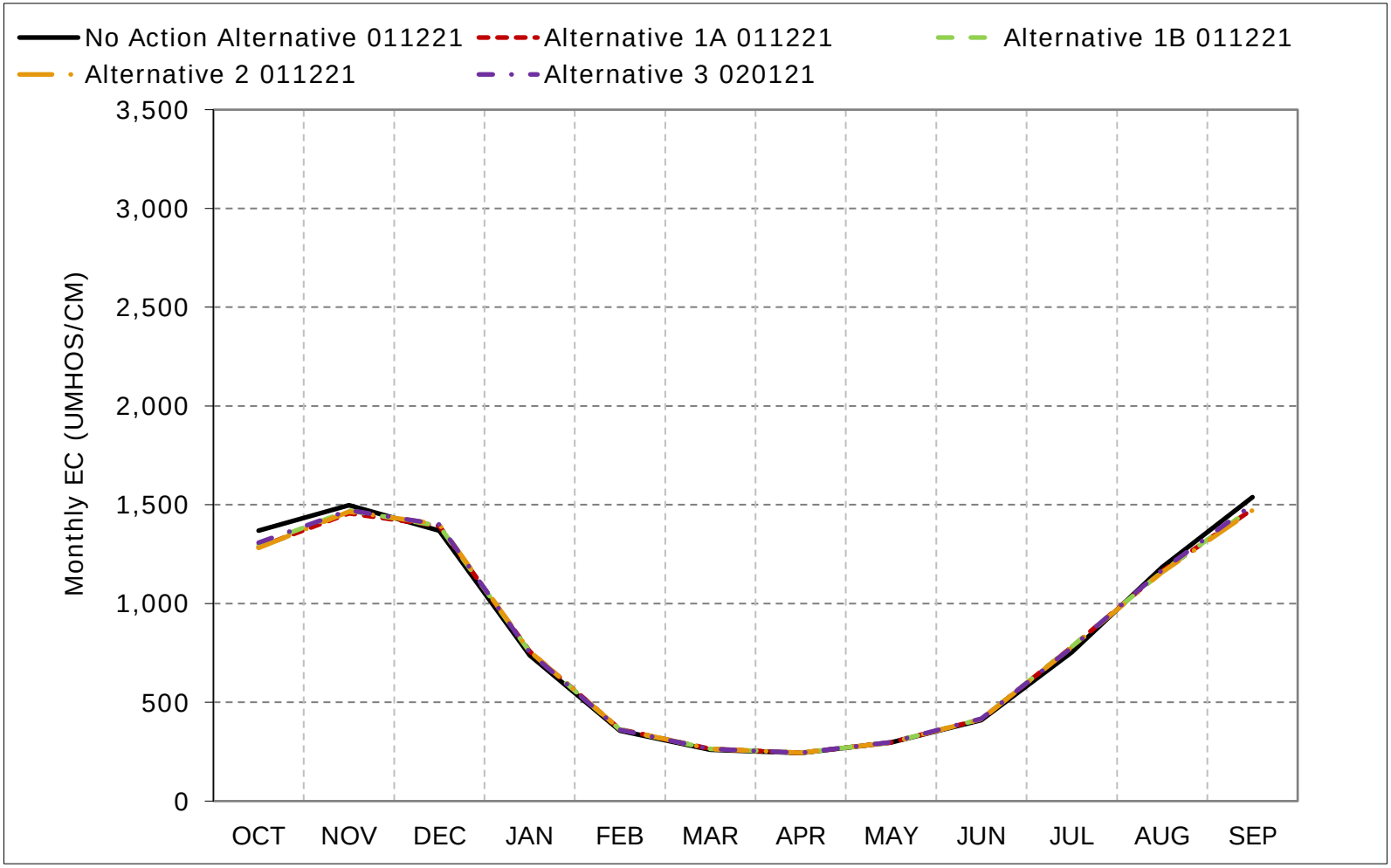
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-1. San Joaquin River at Jersey Point, Long-Term Average EC

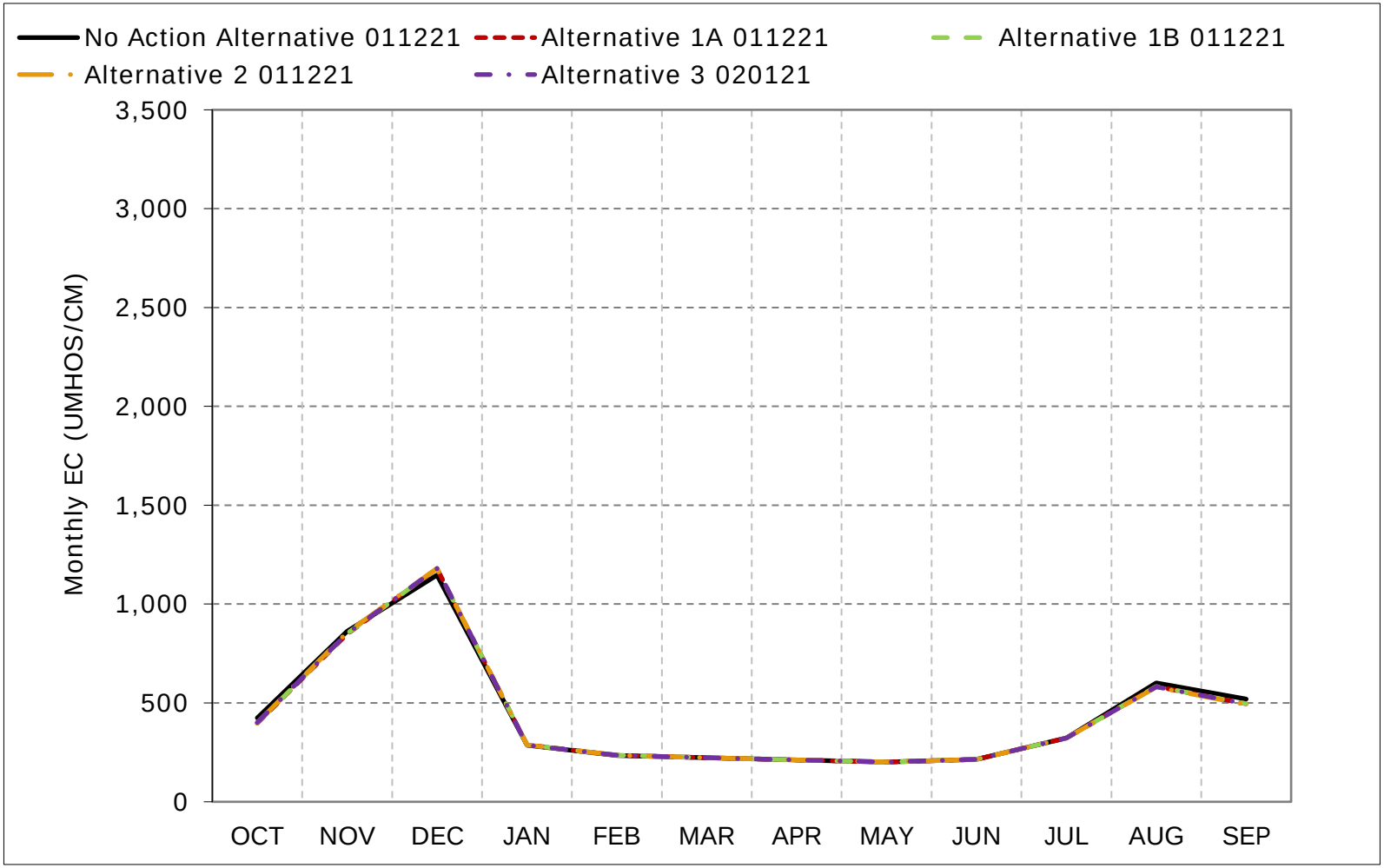


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-2. San Joaquin River at Jersey Point, Wet Year Average EC

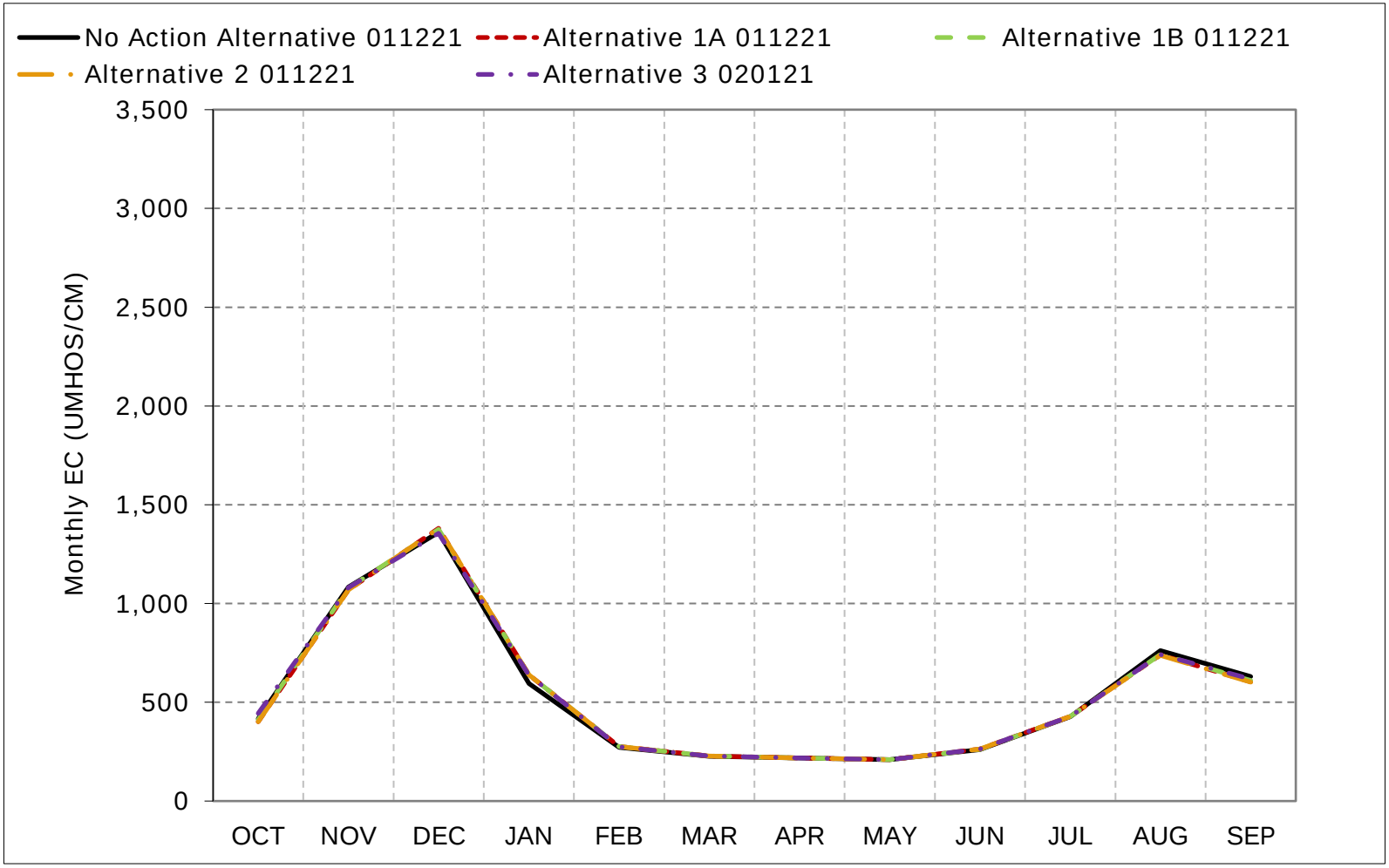


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-3. San Joaquin River at Jersey Point, Above Normal Year Average EC

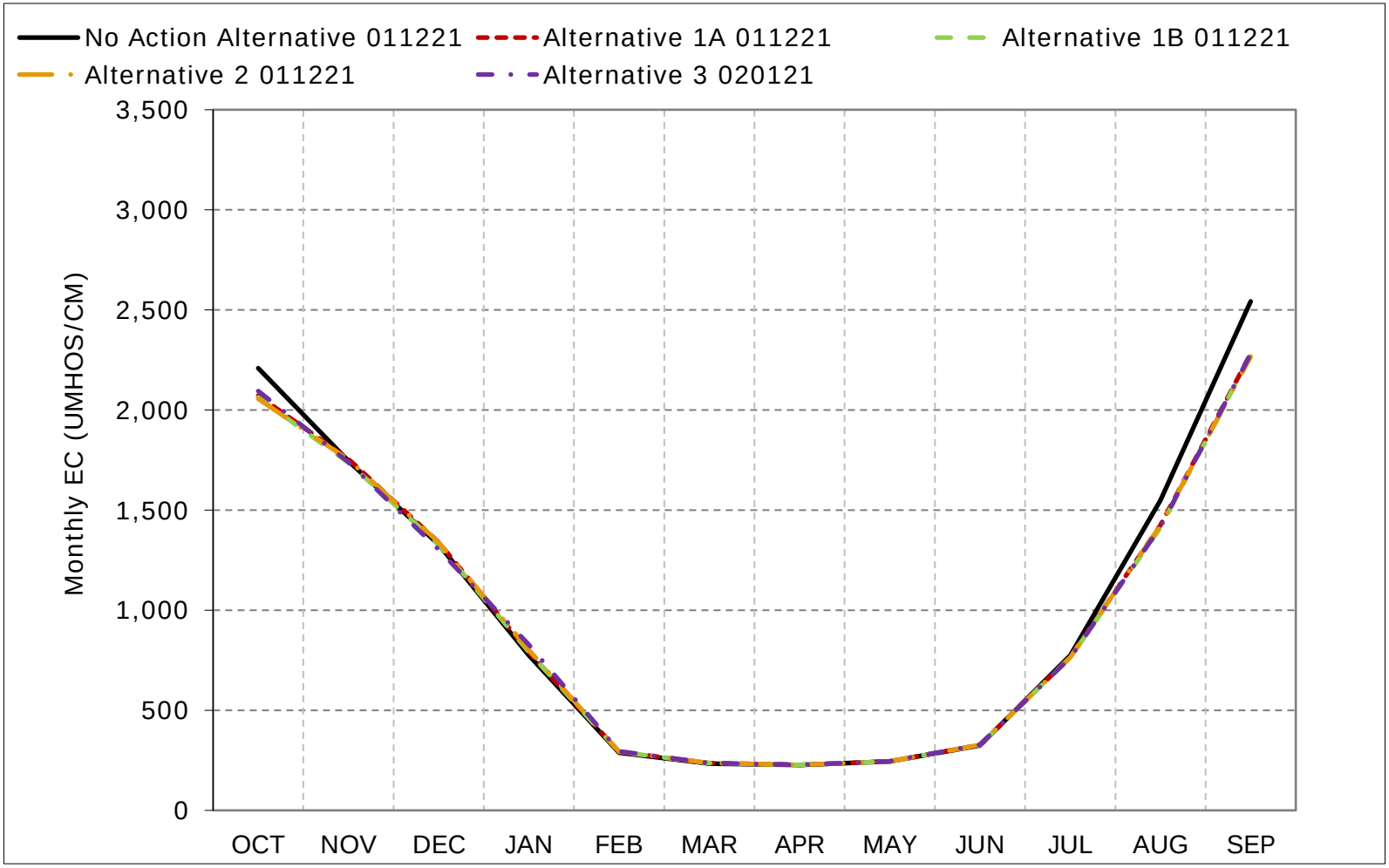


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-4. San Joaquin River at Jersey Point, Below Normal Year Average EC

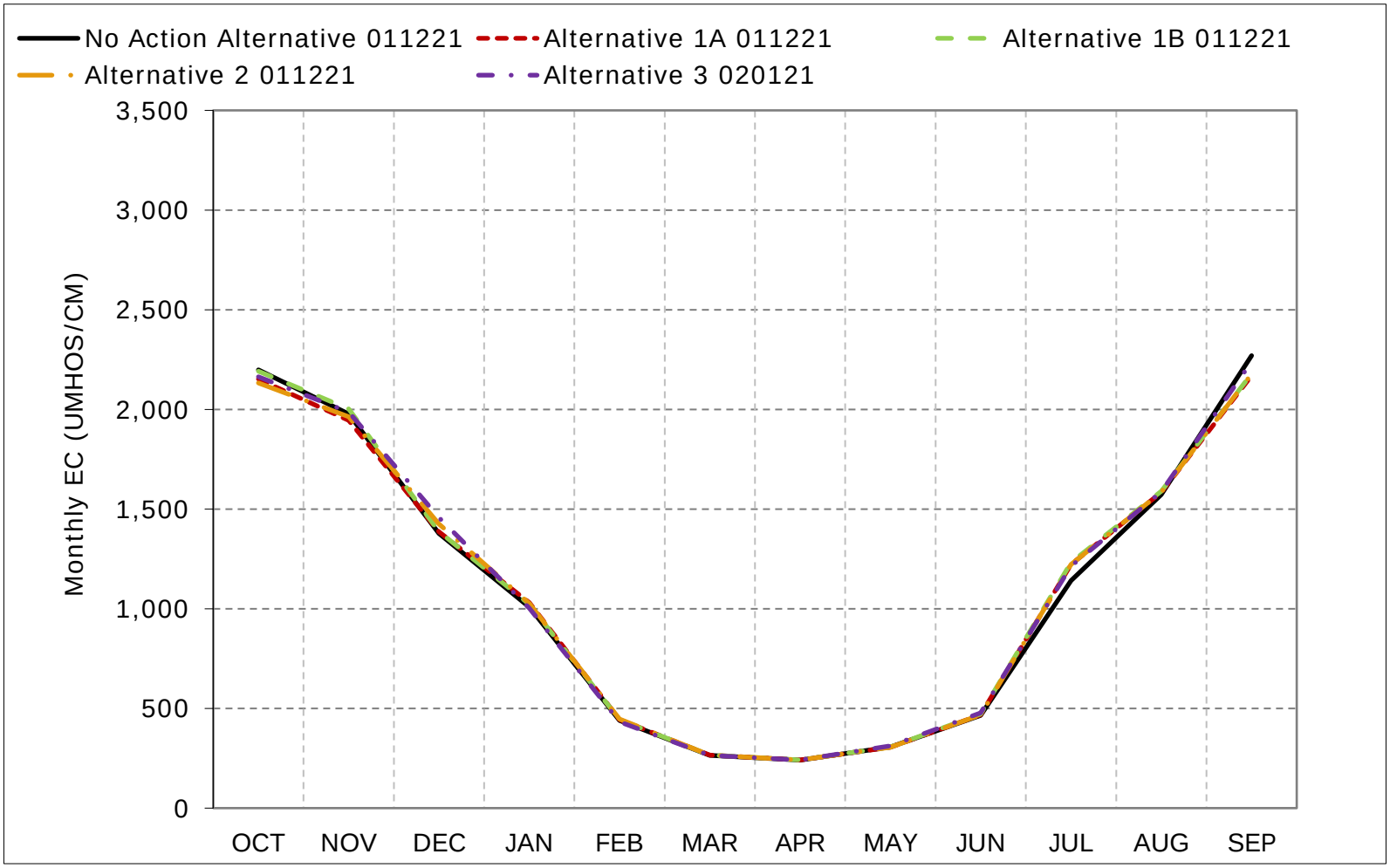


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-5. San Joaquin River at Jersey Point, Dry Year Average EC

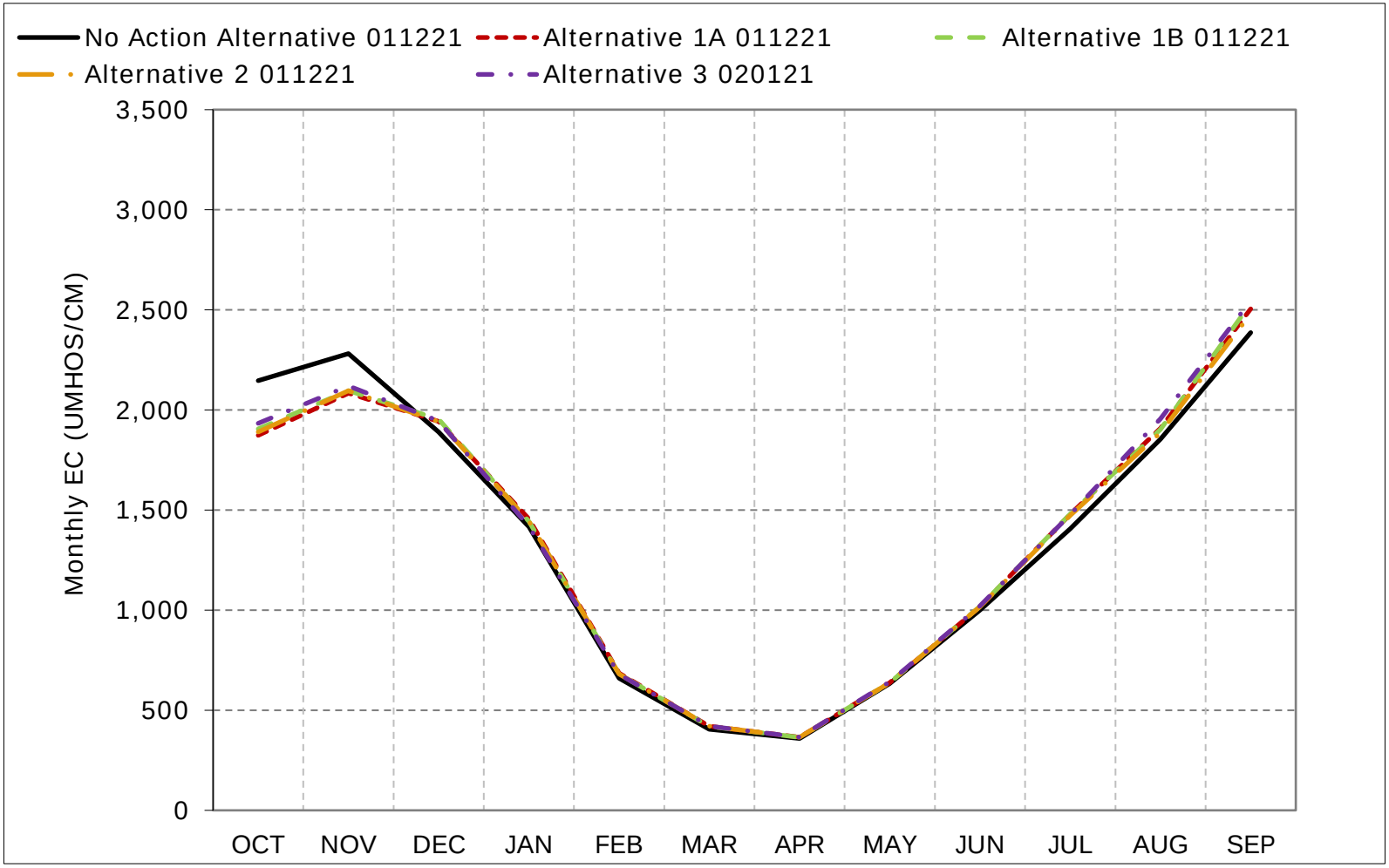


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-6. San Joaquin River at Jersey Point, Critical Year Average EC

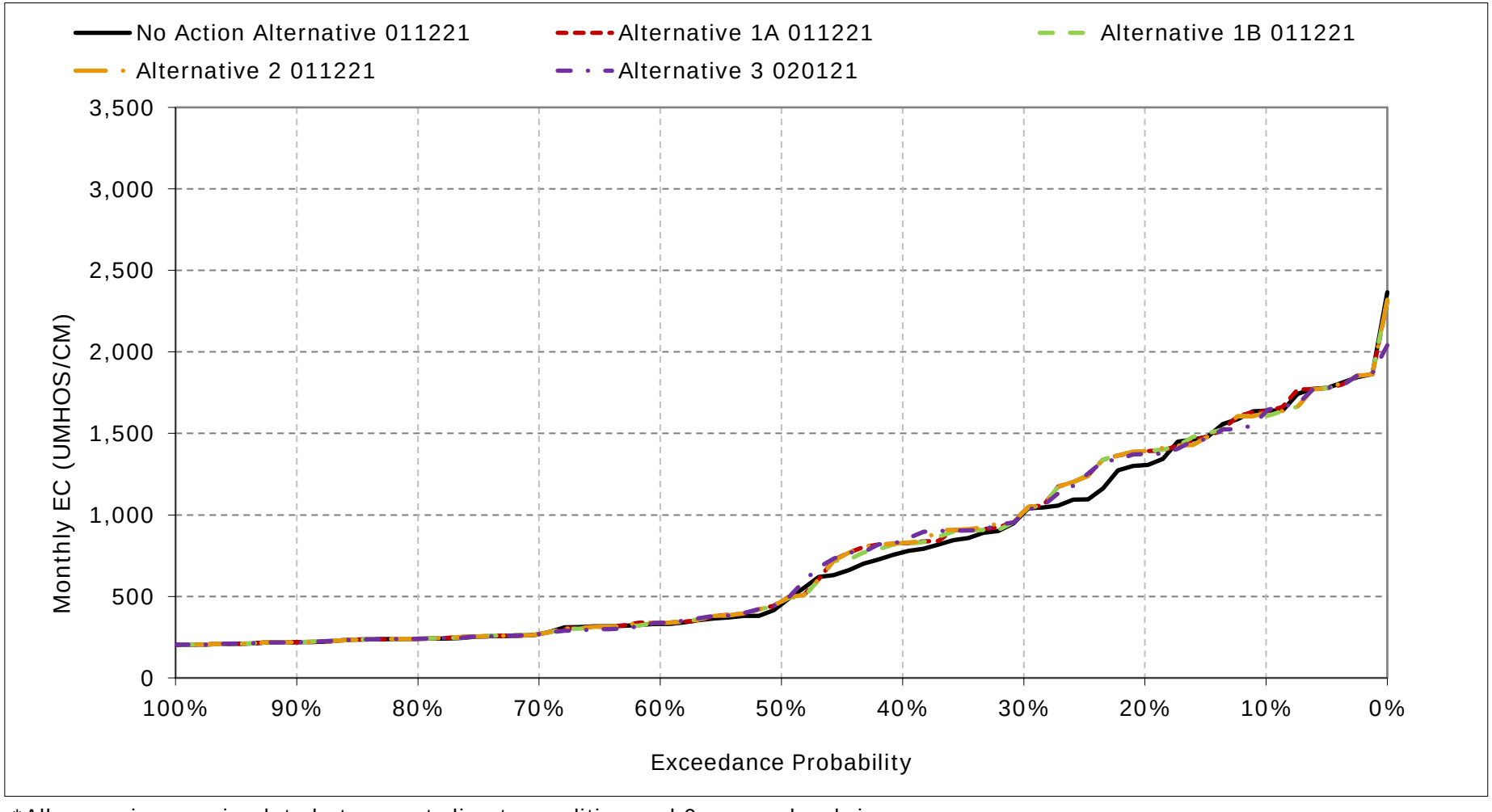


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

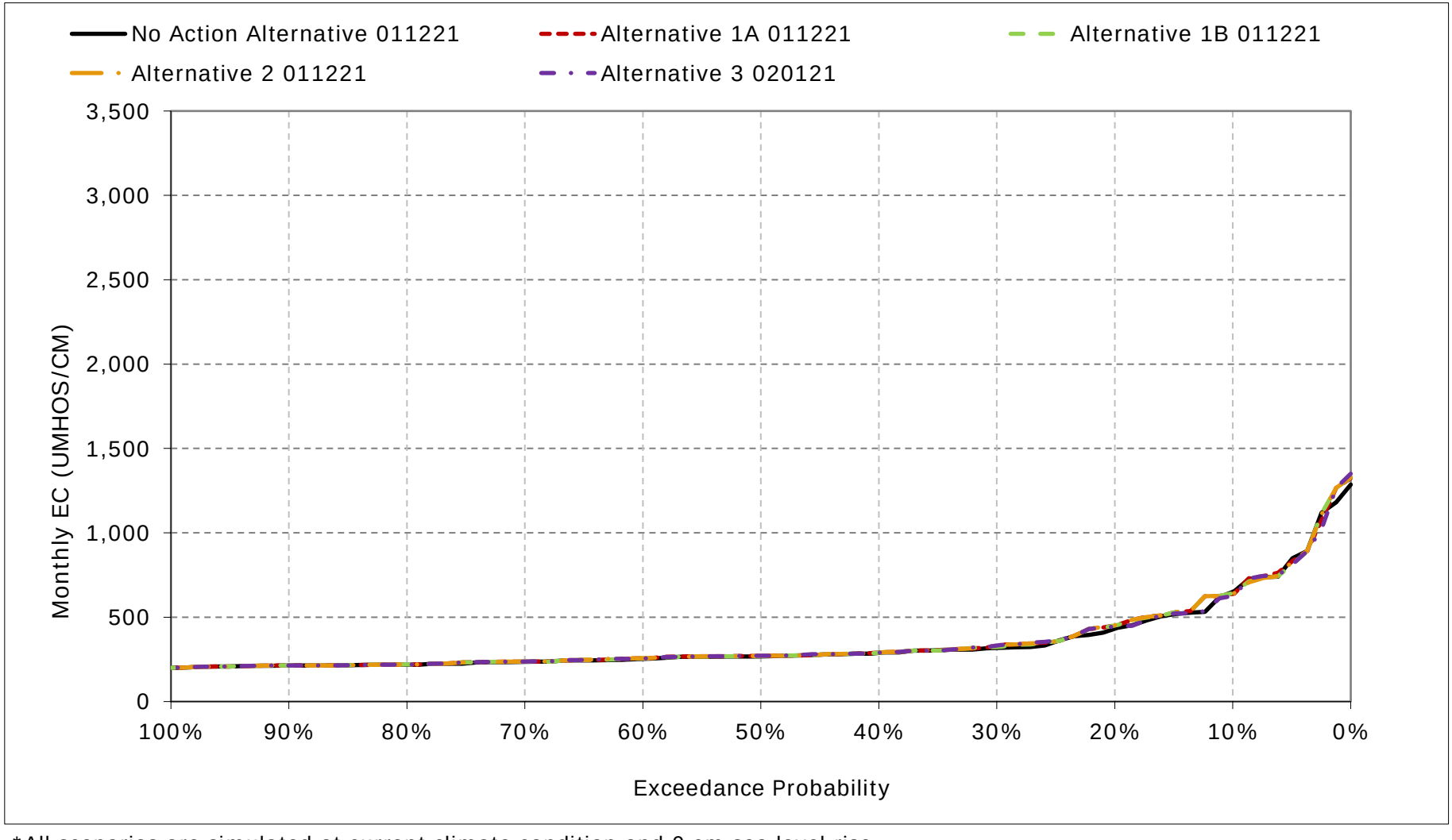
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-7. San Joaquin River at Jersey Point Salinity, January EC



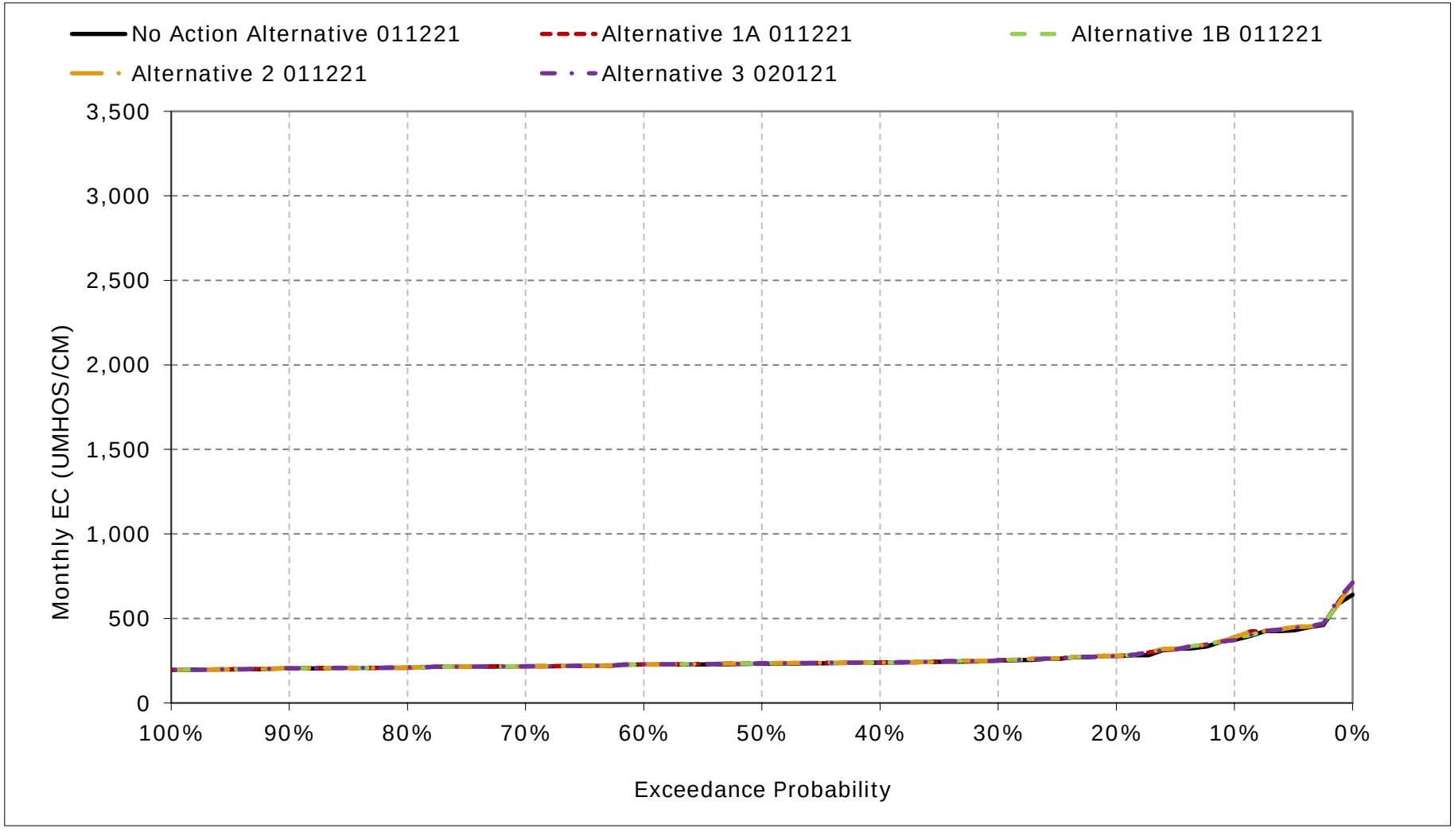
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-8. San Joaquin River at Jersey Point Salinity, February EC



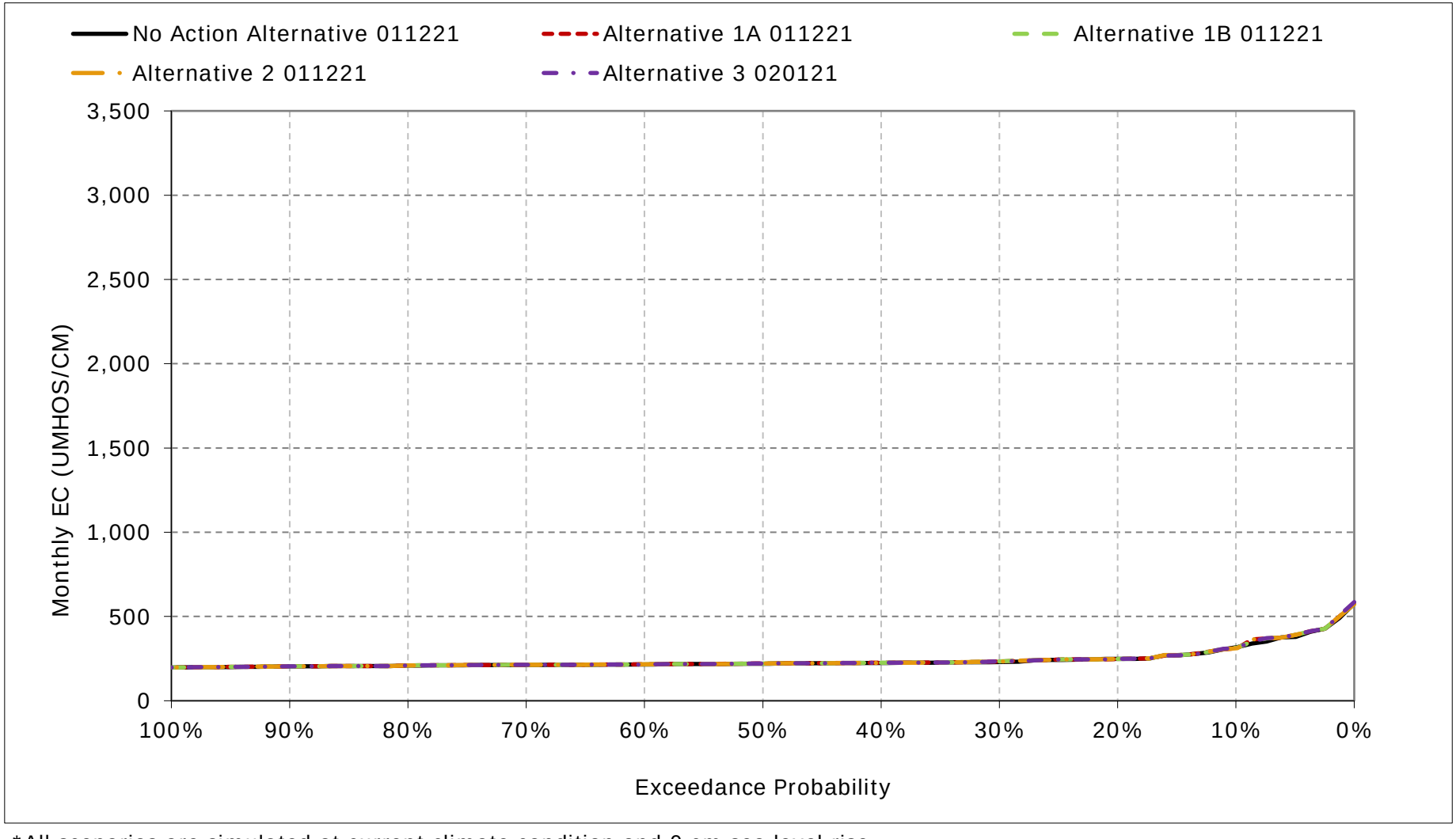
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-9. San Joaquin River at Jersey Point Salinity, March EC



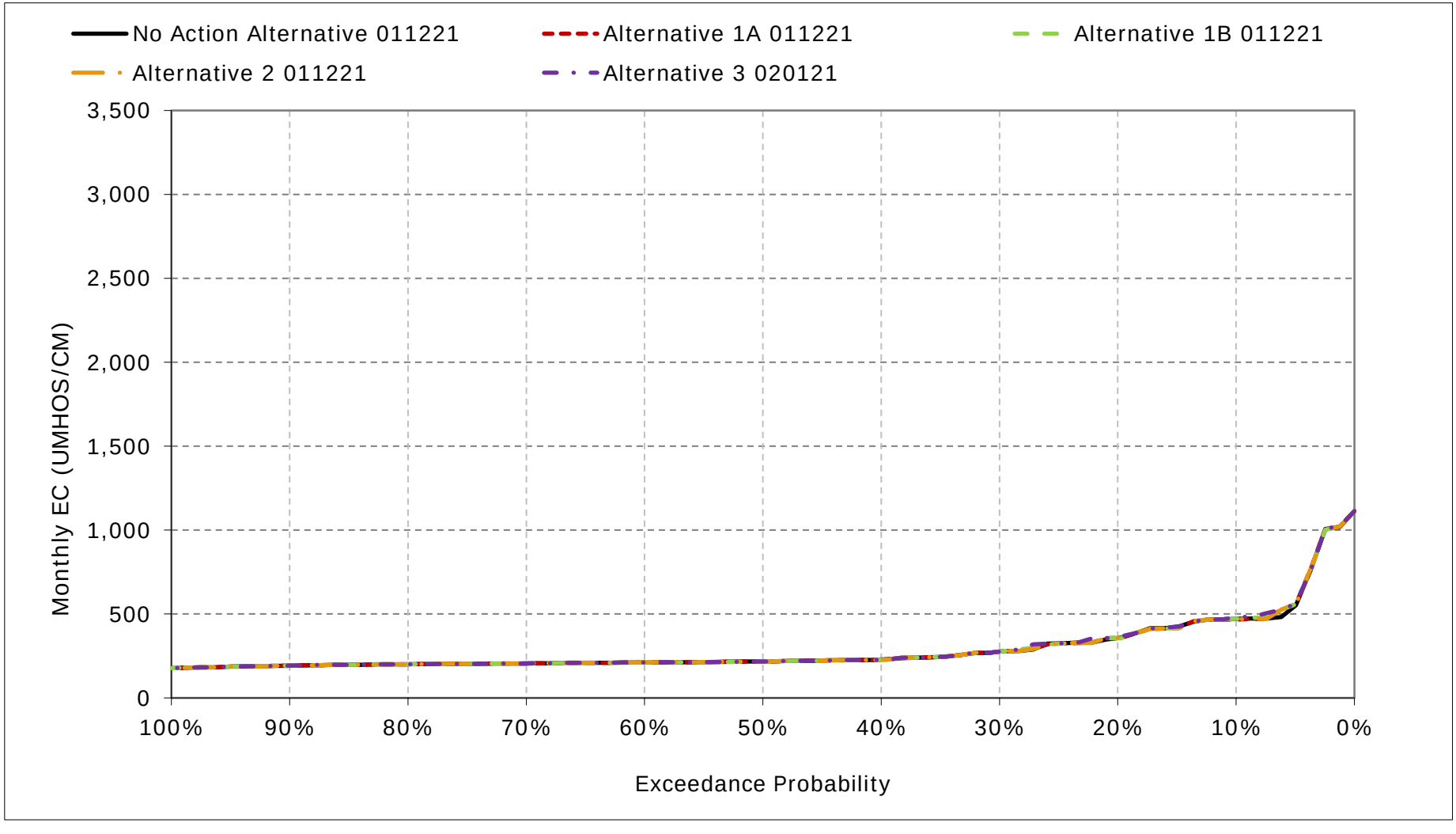
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-10. San Joaquin River at Jersey Point Salinity, April EC



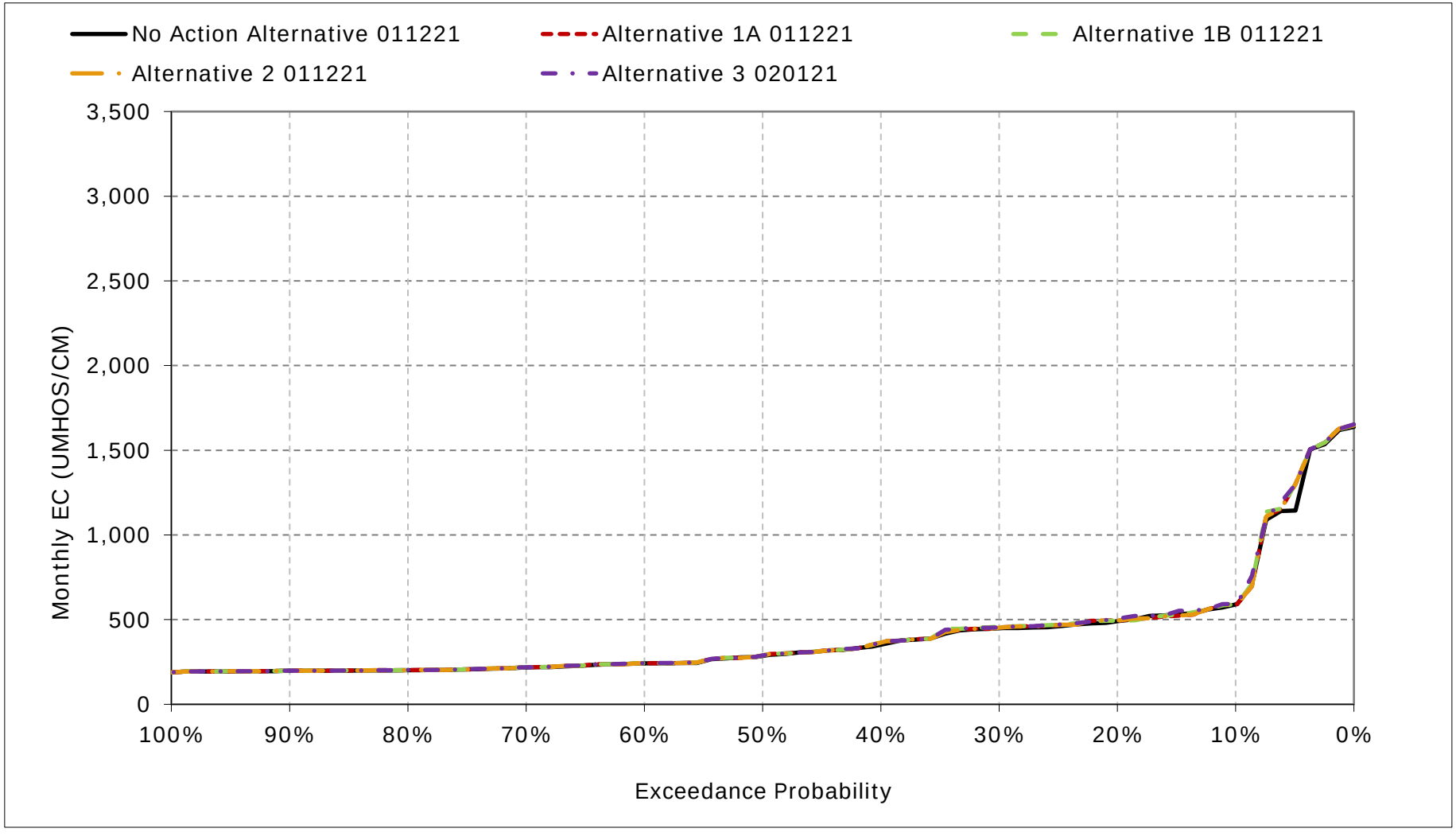
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-11. San Joaquin River at Jersey Point Salinity, May EC



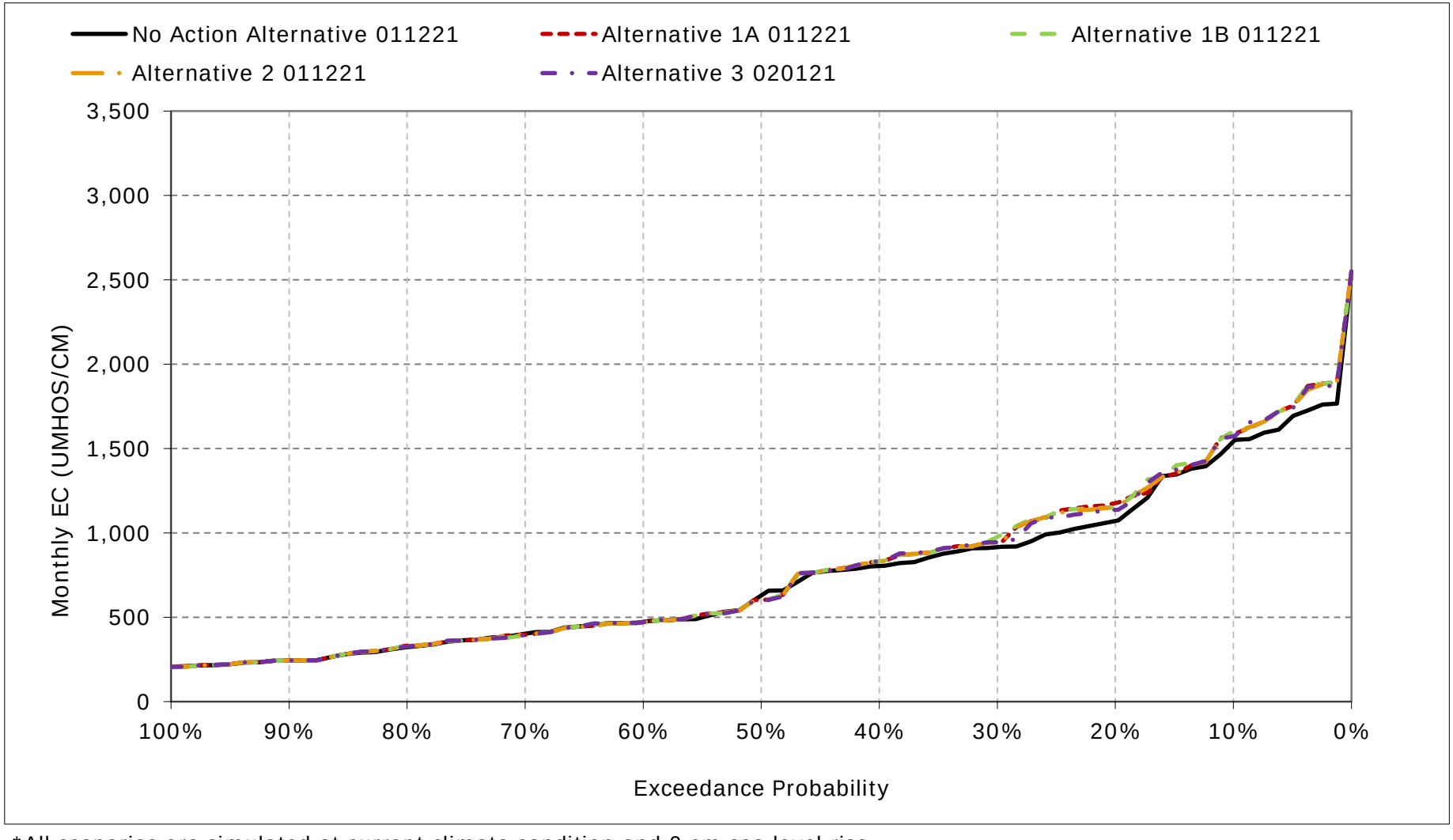
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-12. San Joaquin River at Jersey Point Salinity, June EC



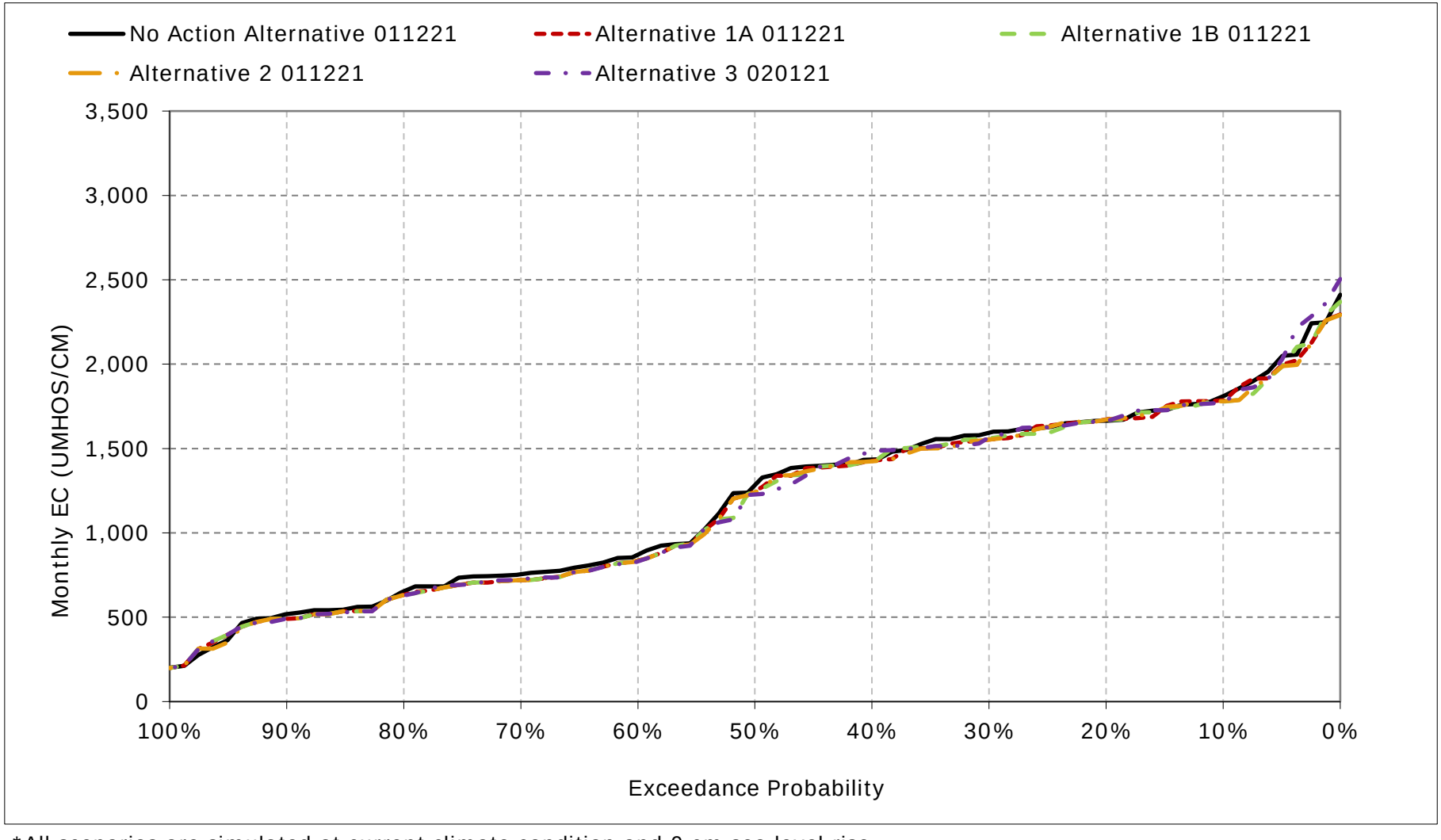
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-13. San Joaquin River at Jersey Point Salinity, July EC



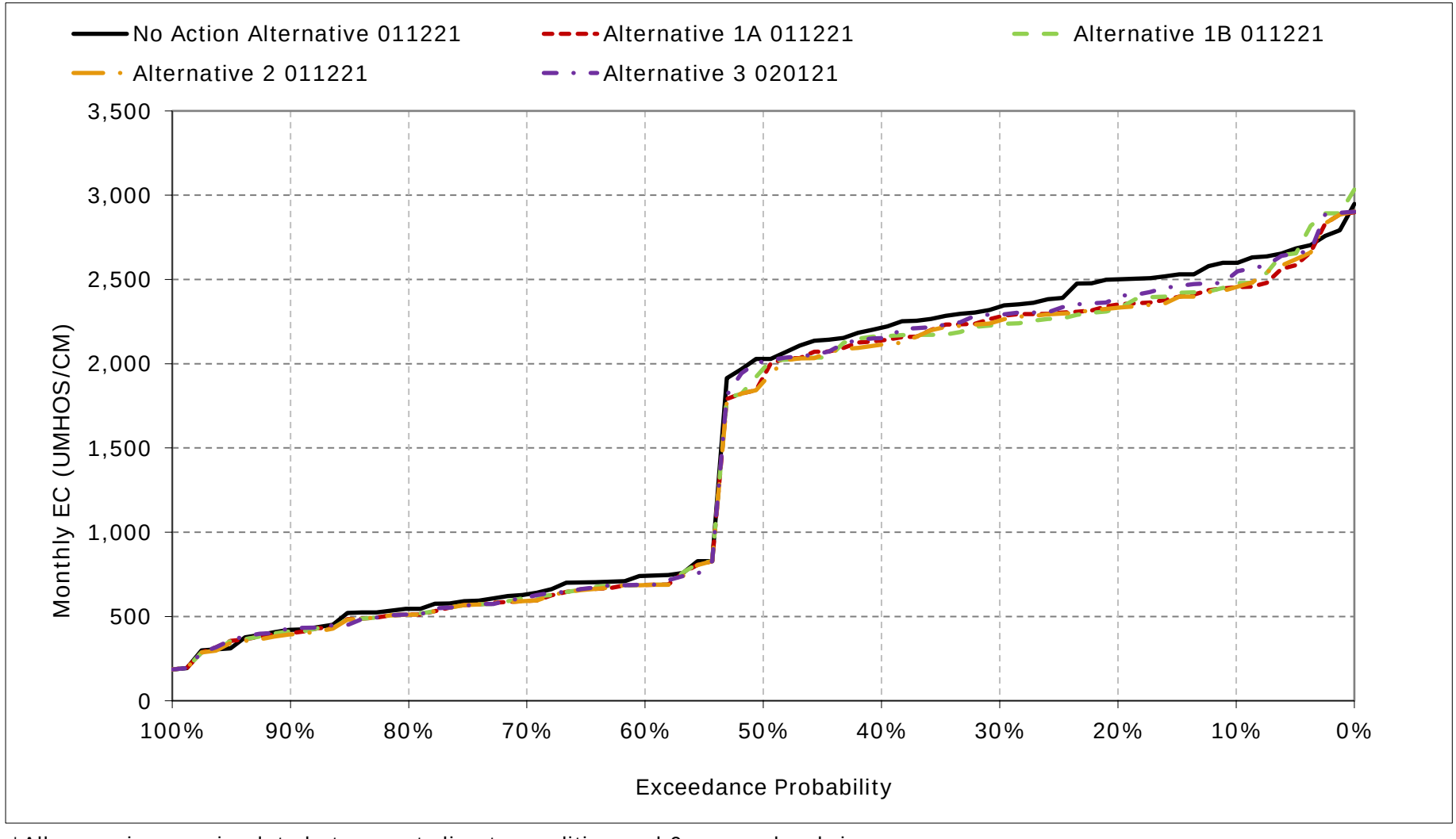
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-14. San Joaquin River at Jersey Point Salinity, August EC



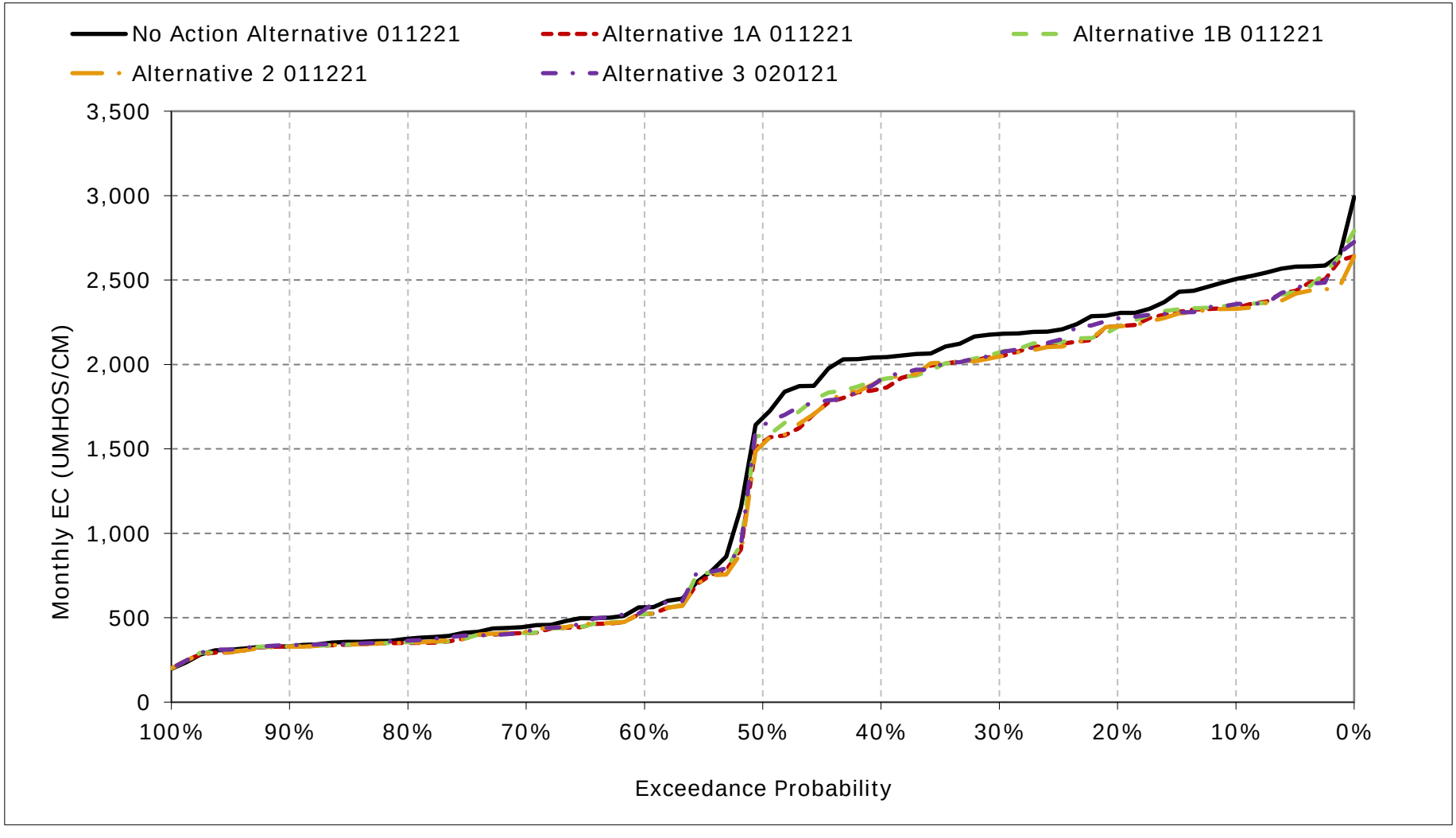
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-15. San Joaquin River at Jersey Point Salinity, September EC



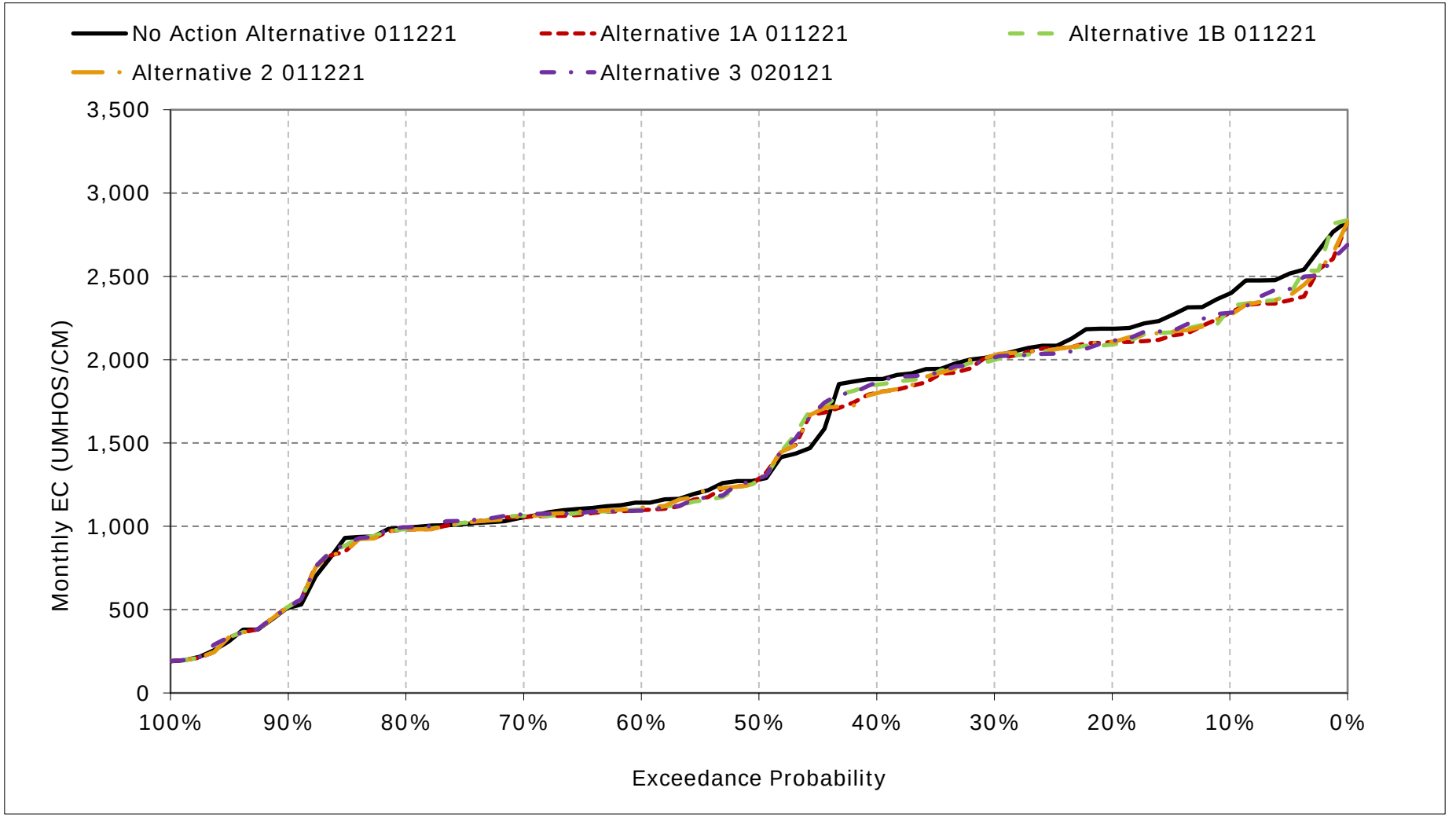
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-16. San Joaquin River at Jersey Point Salinity, October EC



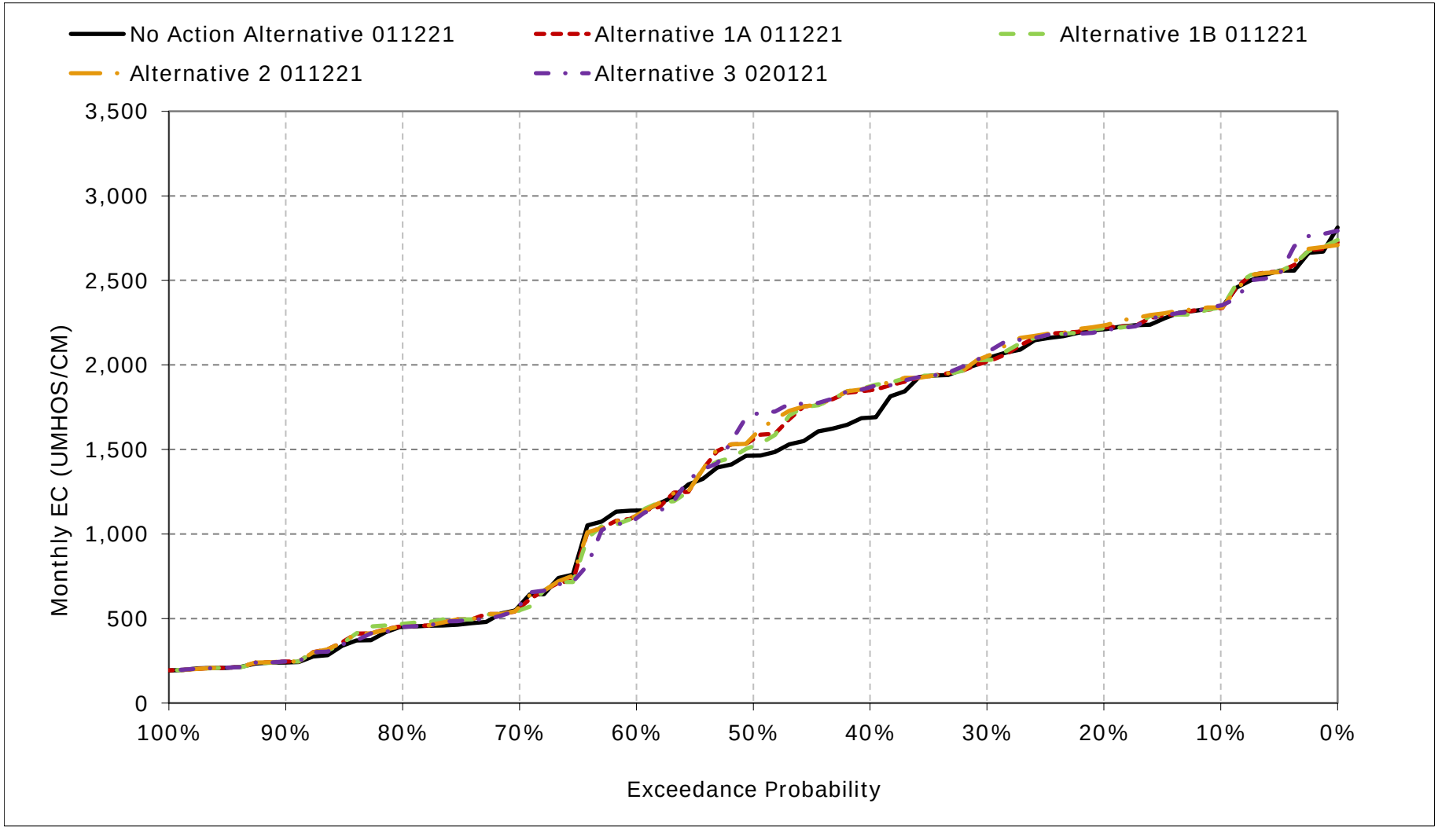
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-17. San Joaquin River at Jersey Point Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-12-18. San Joaquin River at Jersey Point Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-13-1a. San Joaquin River at San Andreas, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	986	949	1,026	908	436	266	252	253	279	588	718	992
20%	940	870	972	776	323	247	237	244	255	397	642	944
30%	861	794	902	633	291	240	230	225	235	368	598	880
40%	823	736	822	521	267	229	223	218	218	326	559	825
50%	760	604	749	351	253	224	218	214	210	284	486	761
60%	270	466	645	292	238	219	215	206	205	244	336	328
70%	233	412	394	260	228	214	208	201	201	226	303	291
80%	225	395	305	236	212	207	204	197	196	213	271	262
90%	211	263	223	219	207	201	199	186	194	207	234	225
Long Term												
Full Simulation Period[a]	585	613	672	480	286	232	222	223	244	337	466	612
Water Year Types[b]												
Wet (32%)	234	369	580	261	227	217	208	195	198	218	266	258
Above Normal (15%)	235	435	697	430	254	219	217	206	206	238	308	296
Below Normal (17%)	871	731	650	512	259	225	225	217	216	329	575	952
Dry (22%)	875	789	661	605	325	233	227	229	241	434	614	829
Critical (15%)	929	915	886	780	416	281	249	299	417	557	706	974

Table 6B1-13-1b. San Joaquin River at San Andreas, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	907	889	1,020	901	441	266	254	254	278	599	695	973
20%	852	820	954	796	332	250	238	242	253	441	645	871
30%	824	762	921	646	296	242	230	225	236	375	596	828
40%	748	718	867	545	268	231	223	218	219	332	566	780
50%	651	578	763	361	256	225	218	214	211	275	452	725
60%	259	431	631	295	241	220	215	206	205	244	332	315
70%	227	402	402	260	228	214	210	201	201	226	296	282
80%	220	384	319	237	214	208	205	197	196	215	267	252
90%	209	262	222	219	207	202	199	187	194	208	230	223
Long Term												
Full Simulation Period[a]	547	589	680	490	289	234	223	223	245	345	461	585
Water Year Types[b]												
Wet (32%)	228	360	591	262	228	218	208	195	198	218	262	253
Above Normal (15%)	232	430	700	458	257	221	217	206	206	239	303	290
Below Normal (17%)	800	737	657	520	262	227	226	217	216	326	537	849
Dry (22%)	832	772	668	615	328	234	228	229	242	463	624	784
Critical (15%)	828	799	895	793	426	287	252	301	423	572	714	993

Table 6B1-13-1c. San Joaquin River at San Andreas, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-79	-60	-5	-7	5	-1	2	1	-1	11	-24	-19
20%	-88	-50	-18	21	9	3	1	-2	-2	44	3	-73
30%	-37	-32	19	13	5	2	0	0	1	7	-1	-51
40%	-75	-18	45	25	1	3	0	0	1	5	6	-45
50%	-110	-26	14	10	3	1	0	0	0	-9	-34	-36
60%	-10	-35	-14	4	3	2	0	0	0	0	-4	-13
70%	-6	-10	8	0	0	0	1	0	0	0	-8	-9
80%	-5	-11	14	2	2	1	0	0	0	2	-4	-10
90%	-2	-1	0	0	1	1	0	0	0	0	-3	-3
Long Term												
Full Simulation Period[a]	-39	-24	8	10	3	2	1	0	1	8	-5	-27
Water Year Types[b]												
Wet (32%)	-6	-9	11	1	0	0	0	0	0	0	-3	-5
Above Normal (15%)	-3	-5	4	28	3	1	0	0	0	0	-4	-7
Below Normal (17%)	-71	5	6	9	3	2	1	0	1	-2	-39	-102
Dry (22%)	-43	-17	7	10	3	2	1	0	1	30	11	-45
Critical (15%)	-101	-116	9	13	11	7	3	2	5	15	9	19

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-13-2a. San Joaquin River at San Andreas, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	986	949	1,026	908	436	266	252	253	279	588	718	992
20%	940	870	972	776	323	247	237	244	255	397	642	944
30%	861	794	902	633	291	240	230	225	235	368	598	880
40%	823	736	822	521	267	229	223	218	218	326	559	825
50%	760	604	749	351	253	224	218	214	210	284	486	761
60%	270	466	645	292	238	219	215	206	205	244	336	328
70%	233	412	394	260	228	214	208	201	201	226	303	291
80%	225	395	305	236	212	207	204	197	196	213	271	262
90%	211	263	223	219	207	201	199	186	194	207	234	225
Long Term												
Full Simulation Period[a]	585	613	672	480	286	232	222	223	244	337	466	612
Water Year Types[b]												
Wet (32%)	234	369	580	261	227	217	208	195	198	218	266	258
Above Normal (15%)	235	435	697	430	254	219	217	206	206	238	308	296
Below Normal (17%)	871	731	650	512	259	225	225	217	216	329	575	952
Dry (22%)	875	789	661	605	325	233	227	229	241	434	614	829
Critical (15%)	929	915	886	780	416	281	249	299	417	557	706	974

Table 6B1-13-2b. San Joaquin River at San Andreas, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	927	893	1,028	897	438	266	254	253	278	597	700	1,002
20%	862	828	955	796	331	249	238	242	253	439	646	872
30%	834	775	926	644	296	242	230	226	237	375	598	829
40%	760	724	864	551	267	231	224	218	219	332	566	779
50%	690	560	786	360	255	225	218	214	210	274	450	719
60%	259	440	615	292	241	220	215	206	205	244	332	316
70%	228	404	397	260	228	214	210	201	201	226	296	283
80%	221	384	324	237	214	207	205	197	196	215	266	252
90%	210	262	218	219	207	202	199	187	194	208	230	224
Long Term												
Full Simulation Period[a]	554	595	681	489	288	233	223	223	245	346	461	589
Water Year Types[b]												
Wet (32%)	229	361	591	262	228	218	208	195	198	218	262	253
Above Normal (15%)	235	435	699	457	257	221	217	206	206	239	304	291
Below Normal (17%)	799	731	652	521	262	227	226	217	216	326	533	846
Dry (22%)	849	793	674	611	327	234	228	229	242	467	627	789
Critical (15%)	851	806	899	792	424	286	251	300	423	572	713	1,013

Table 6B1-13-2c. San Joaquin River at San Andreas, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-59	-56	2	-11	3	-1	1	0	-1	9	-18	10
20%	-78	-42	-16	20	7	2	1	-2	-2	41	4	-71
30%	-27	-19	23	11	5	2	0	0	2	7	0	-51
40%	-63	-11	42	30	1	3	1	0	1	5	7	-46
50%	-71	-43	37	10	3	1	0	0	0	-10	-36	-42
60%	-10	-26	-30	0	3	2	0	0	0	0	-4	-12
70%	-5	-8	3	0	0	0	1	0	0	0	-8	-8
80%	-4	-10	19	1	2	1	0	0	0	2	-5	-10
90%	-1	-1	-5	0	1	1	1	0	0	0	-3	-1
Long Term												
Full Simulation Period[a]	-31	-18	9	9	3	2	1	0	1	9	-5	-24
Water Year Types[b]												
Wet (32%)	-6	-8	12	1	0	0	0	0	0	0	-3	-5
Above Normal (15%)	0	1	2	27	3	1	0	0	0	0	-4	-5
Below Normal (17%)	-71	0	1	9	3	2	1	0	1	-3	-43	-105
Dry (22%)	-26	4	13	6	2	2	1	0	1	33	13	-41
Critical (15%)	-78	-110	13	12	9	6	2	2	6	15	7	40

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-13-3a. San Joaquin River at San Andreas, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	986	949	1,026	908	436	266	252	253	279	588	718	992
20%	940	870	972	776	323	247	237	244	255	397	642	944
30%	861	794	902	633	291	240	230	225	235	368	598	880
40%	823	736	822	521	267	229	223	218	218	326	559	825
50%	760	604	749	351	253	224	218	214	210	284	486	761
60%	270	466	645	292	238	219	215	206	205	244	336	328
70%	233	412	394	260	228	214	208	201	201	226	303	291
80%	225	395	305	236	212	207	204	197	196	213	271	262
90%	211	263	223	219	207	201	199	186	194	207	234	225
Long Term												
Full Simulation Period[a]	585	613	672	480	286	232	222	223	244	337	466	612
Water Year Types[b]												
Wet (32%)	234	369	580	261	227	217	208	195	198	218	266	258
Above Normal (15%)	235	435	697	430	254	219	217	206	206	238	308	296
Below Normal (17%)	871	731	650	512	259	225	225	217	216	329	575	952
Dry (22%)	875	789	661	605	325	233	227	229	241	434	614	829
Critical (15%)	929	915	886	780	416	281	249	299	417	557	706	974

Table 6B1-13-3b. San Joaquin River at San Andreas, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	904	894	1,022	907	437	266	254	254	278	598	700	975
20%	859	823	955	797	332	250	238	242	253	435	638	870
30%	827	766	928	658	296	242	230	225	236	375	591	829
40%	757	717	881	564	268	231	223	218	219	332	566	772
50%	651	576	789	360	256	225	218	214	211	274	449	721
60%	260	440	631	295	241	220	215	206	205	244	332	316
70%	229	404	403	260	228	214	210	201	201	226	296	282
80%	220	384	319	237	214	208	205	197	196	215	267	252
90%	208	262	222	219	207	202	199	187	194	208	230	220
Long Term												
Full Simulation Period[a]	546	591	683	491	289	233	223	223	245	345	460	583
Water Year Types[b]												
Wet (32%)	229	363	592	262	228	217	208	195	198	218	262	252
Above Normal (15%)	231	430	700	458	257	221	217	206	206	239	303	289
Below Normal (17%)	794	735	657	527	262	227	226	217	216	326	536	844
Dry (22%)	828	774	684	613	328	234	228	229	242	463	626	788
Critical (15%)	835	803	895	793	424	286	252	300	423	571	708	984

Table 6B1-13-3c. San Joaquin River at San Andreas, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-82	-55	-4	-1	1	0	2	1	-1	10	-18	-17
20%	-81	-47	-16	21	9	3	1	-2	-2	37	-4	-74
30%	-34	-28	26	24	5	2	0	0	2	7	-6	-50
40%	-66	-18	59	43	1	2	0	0	1	6	7	-53
50%	-109	-28	40	9	3	1	0	0	0	-10	-37	-40
60%	-10	-25	-14	4	3	1	0	0	0	0	-4	-12
70%	-4	-8	9	0	0	0	1	0	0	0	-8	-9
80%	-5	-11	14	2	2	1	0	0	0	2	-4	-10
90%	-2	-1	0	0	1	1	1	0	0	0	-3	-5
Long Term												
Full Simulation Period[a]	-40	-22	12	11	3	2	1	0	1	8	-6	-29
Water Year Types[b]												
Wet (32%)	-6	-7	12	1	0	0	0	0	0	0	-4	-6
Above Normal (15%)	-3	-5	4	28	3	1	0	0	0	0	-5	-7
Below Normal (17%)	-77	4	7	15	4	2	1	0	1	-3	-39	-107
Dry (22%)	-47	-15	22	8	3	2	1	0	1	29	12	-41
Critical (15%)	-94	-112	9	13	9	6	3	2	5	14	2	11

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-13-4a. San Joaquin River at San Andreas, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	986	949	1,026	908	436	266	252	253	279	588	718	992
20%	940	870	972	776	323	247	237	244	255	397	642	944
30%	861	794	902	633	291	240	230	225	235	368	598	880
40%	823	736	822	521	267	229	223	218	218	326	559	825
50%	760	604	749	351	253	224	218	214	210	284	486	761
60%	270	466	645	292	238	219	215	206	205	244	336	328
70%	233	412	394	260	228	214	208	201	201	226	303	291
80%	225	395	305	236	212	207	204	197	196	213	271	262
90%	211	263	223	219	207	201	199	186	194	207	234	225
Long Term												
Full Simulation Period[a]	585	613	672	480	286	232	222	223	244	337	466	612
Water Year Types[b]												
Wet (32%)	234	369	580	261	227	217	208	195	198	218	266	258
Above Normal (15%)	235	435	697	430	254	219	217	206	206	238	308	296
Below Normal (17%)	871	731	650	512	259	225	225	217	216	329	575	952
Dry (22%)	875	789	661	605	325	233	227	229	241	434	614	829
Critical (15%)	929	915	886	780	416	281	249	299	417	557	706	974

Table 6B1-13-4b. San Joaquin River at San Andreas, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	915	884	1,035	906	420	266	253	256	284	592	705	1,003
20%	885	813	955	781	330	249	237	244	253	425	646	892
30%	829	784	919	654	296	240	230	226	237	375	610	849
40%	788	722	891	551	267	231	224	218	219	333	569	789
50%	679	576	836	367	256	225	218	214	211	273	449	718
60%	277	448	610	285	241	219	215	206	205	245	330	316
70%	231	412	394	259	228	214	209	201	201	226	296	284
80%	221	389	316	237	214	208	205	197	196	215	266	252
90%	209	262	222	219	207	202	199	187	194	208	230	223
Long Term												
Full Simulation Period[a]	558	595	684	489	287	233	223	223	246	344	463	596
Water Year Types[b]												
Wet (32%)	229	361	592	261	228	218	208	195	198	218	262	252
Above Normal (15%)	243	438	689	456	256	221	217	206	206	239	304	292
Below Normal (17%)	814	743	644	542	263	227	226	217	216	326	534	851
Dry (22%)	833	771	703	605	322	233	227	230	244	461	626	810
Critical (15%)	871	820	898	783	422	287	252	301	425	570	730	1,027

Table 6B1-13-4c. San Joaquin River at San Andreas, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-71	-65	9	-2	-15	0	1	3	4	4	-13	11
20%	-55	-57	-16	5	7	2	0	0	-2	27	4	-52
30%	-32	-10	16	20	5	0	0	0	3	7	12	-30
40%	-35	-13	68	30	0	3	1	0	1	6	10	-36
50%	-82	-27	87	16	3	1	0	0	0	-12	-37	-43
60%	7	-18	-35	-7	3	1	0	0	0	1	-6	-12
70%	-3	0	0	-1	0	0	1	0	0	0	-8	-8
80%	-3	-6	11	1	2	1	0	0	0	2	-5	-10
90%	-1	-1	-1	0	1	1	0	0	0	0	-3	-3
Long Term												
Full Simulation Period[a]	-28	-18	13	9	1	2	1	1	2	8	-2	-16
Water Year Types[b]												
Wet (32%)	-5	-8	13	0	0	1	0	0	0	0	-4	-6
Above Normal (15%)	8	3	-7	26	2	1	0	0	0	0	-4	-4
Below Normal (17%)	-57	12	-7	30	4	2	1	0	1	-3	-41	-101
Dry (22%)	-42	-18	42	0	-3	1	0	1	3	28	13	-19
Critical (15%)	-58	-95	12	3	6	7	3	3	7	13	24	53

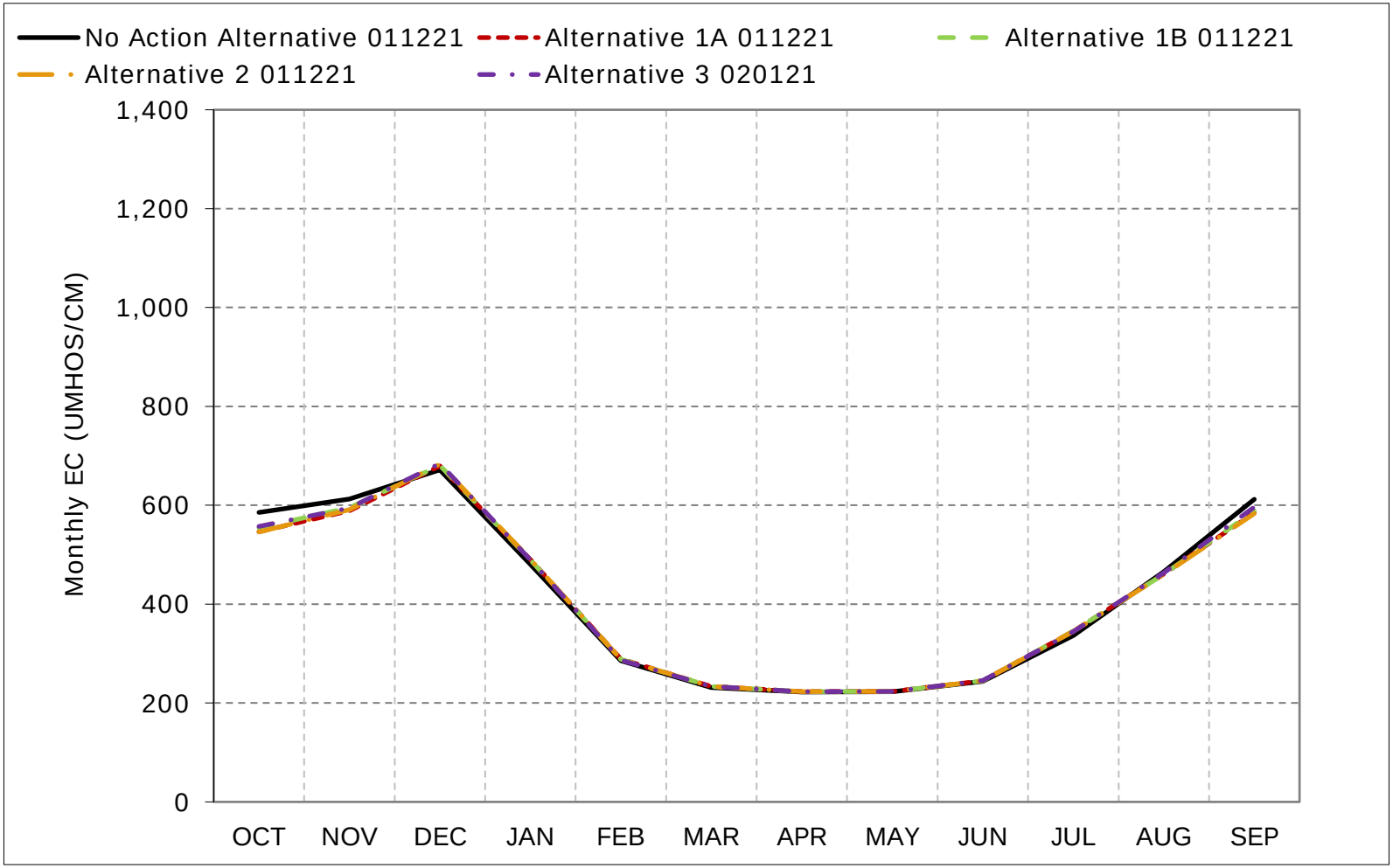
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-1. San Joaquin River at San Andreas, Long-Term Average EC

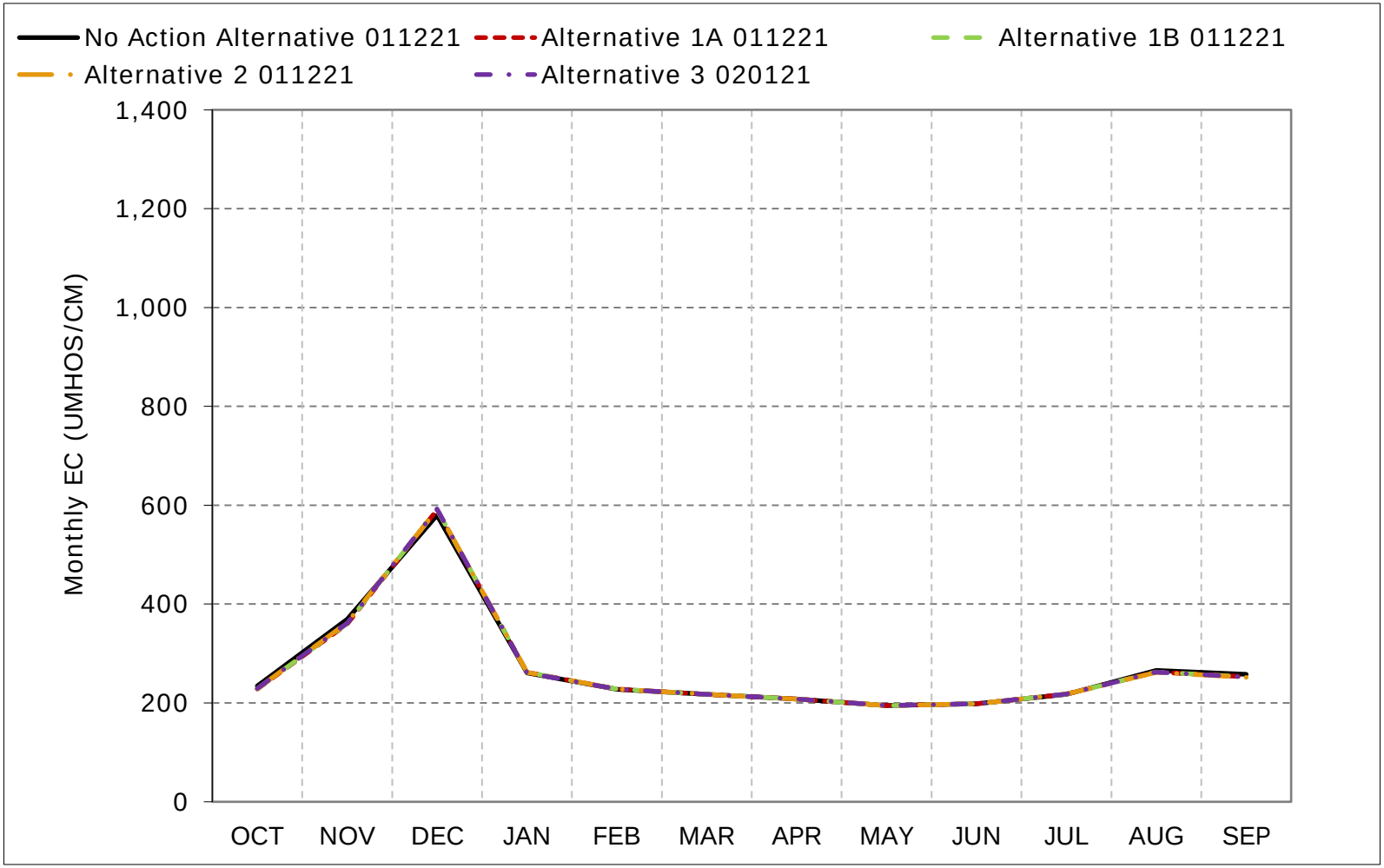


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-2. San Joaquin River at San Andreas, Wet Year Average EC

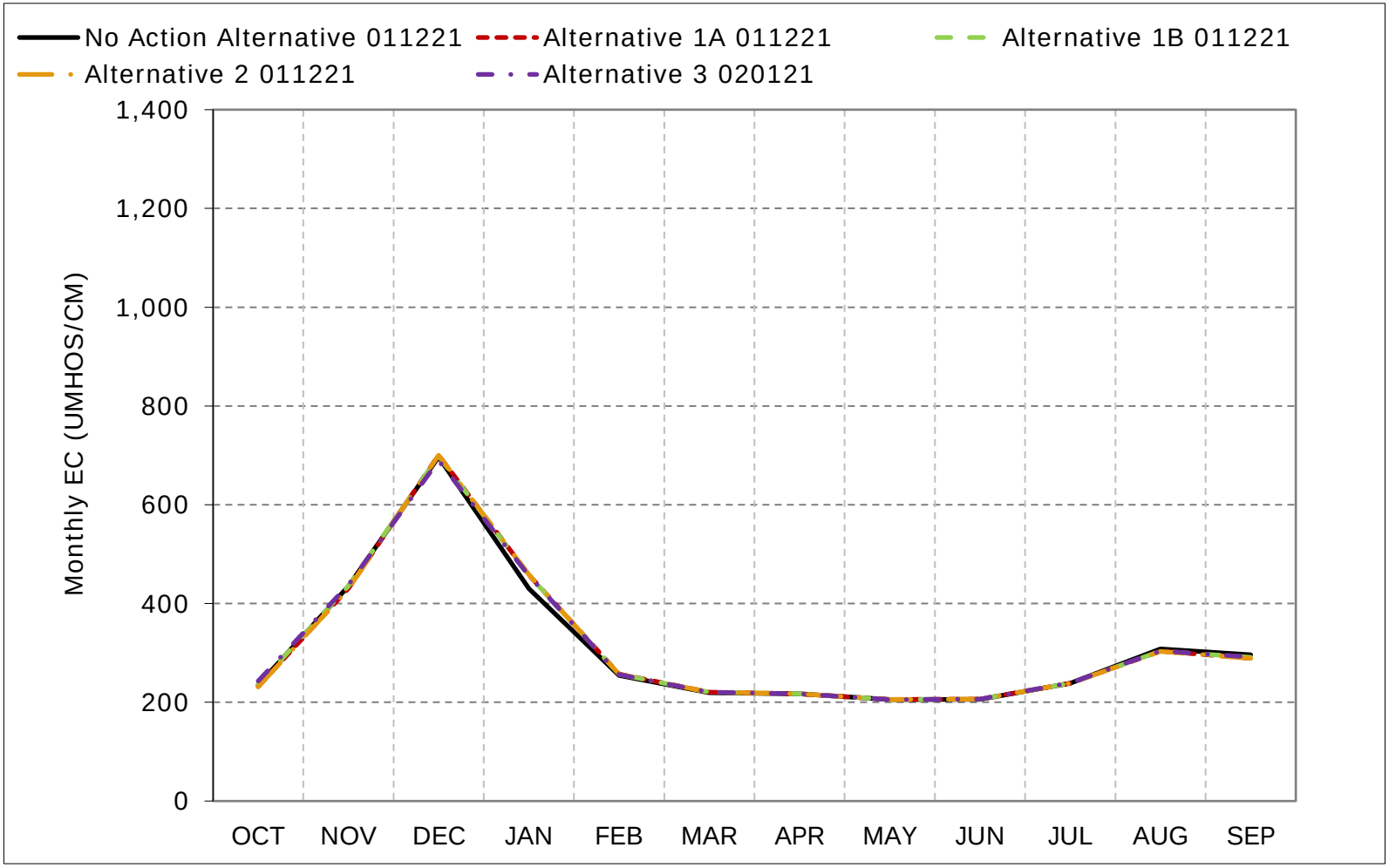


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-3. San Joaquin River at San Andreas, Above Normal Year Average EC

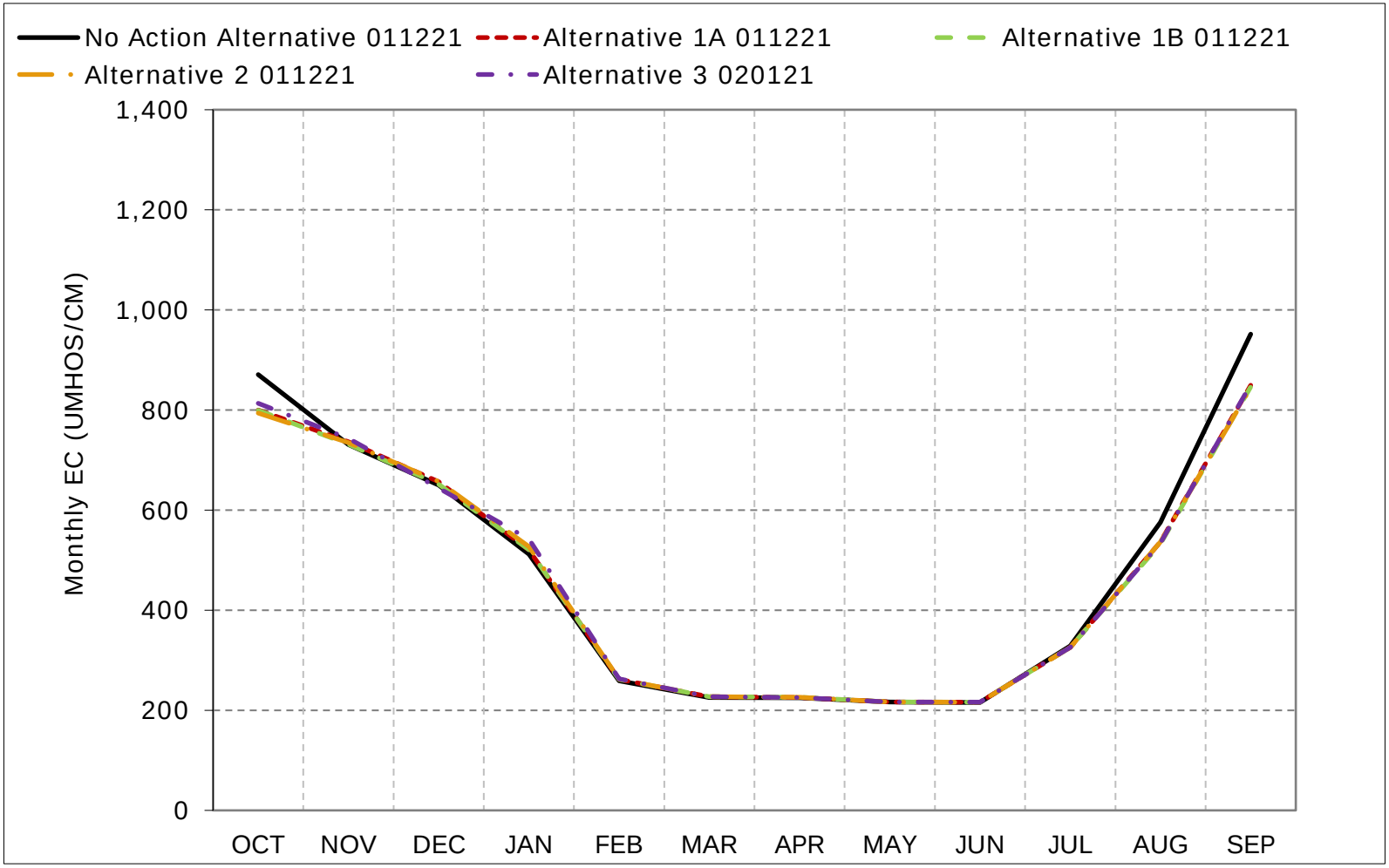


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-4. San Joaquin River at San Andreas, Below Normal Year Average EC

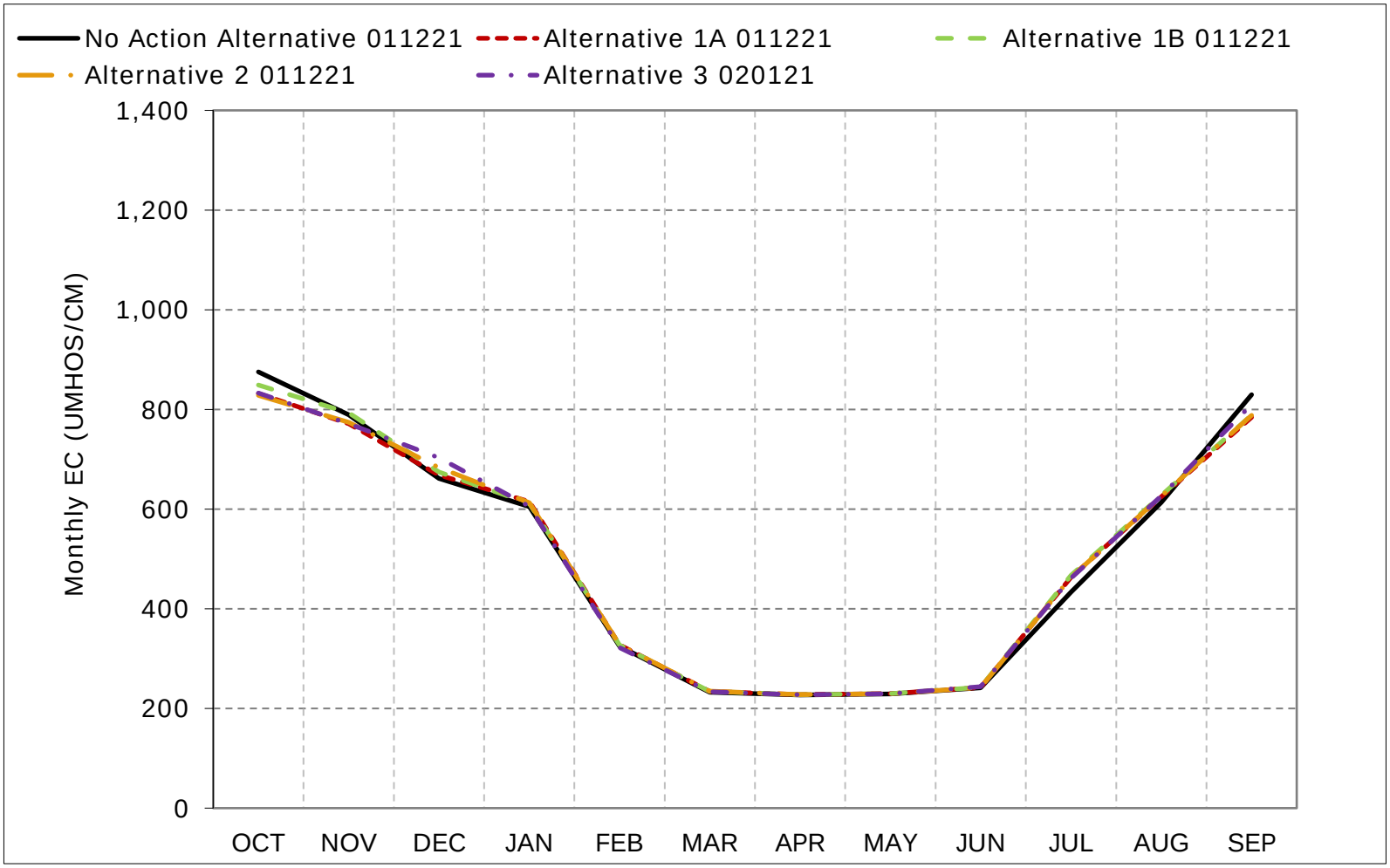


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-5. San Joaquin River at San Andreas, Dry Year Average EC

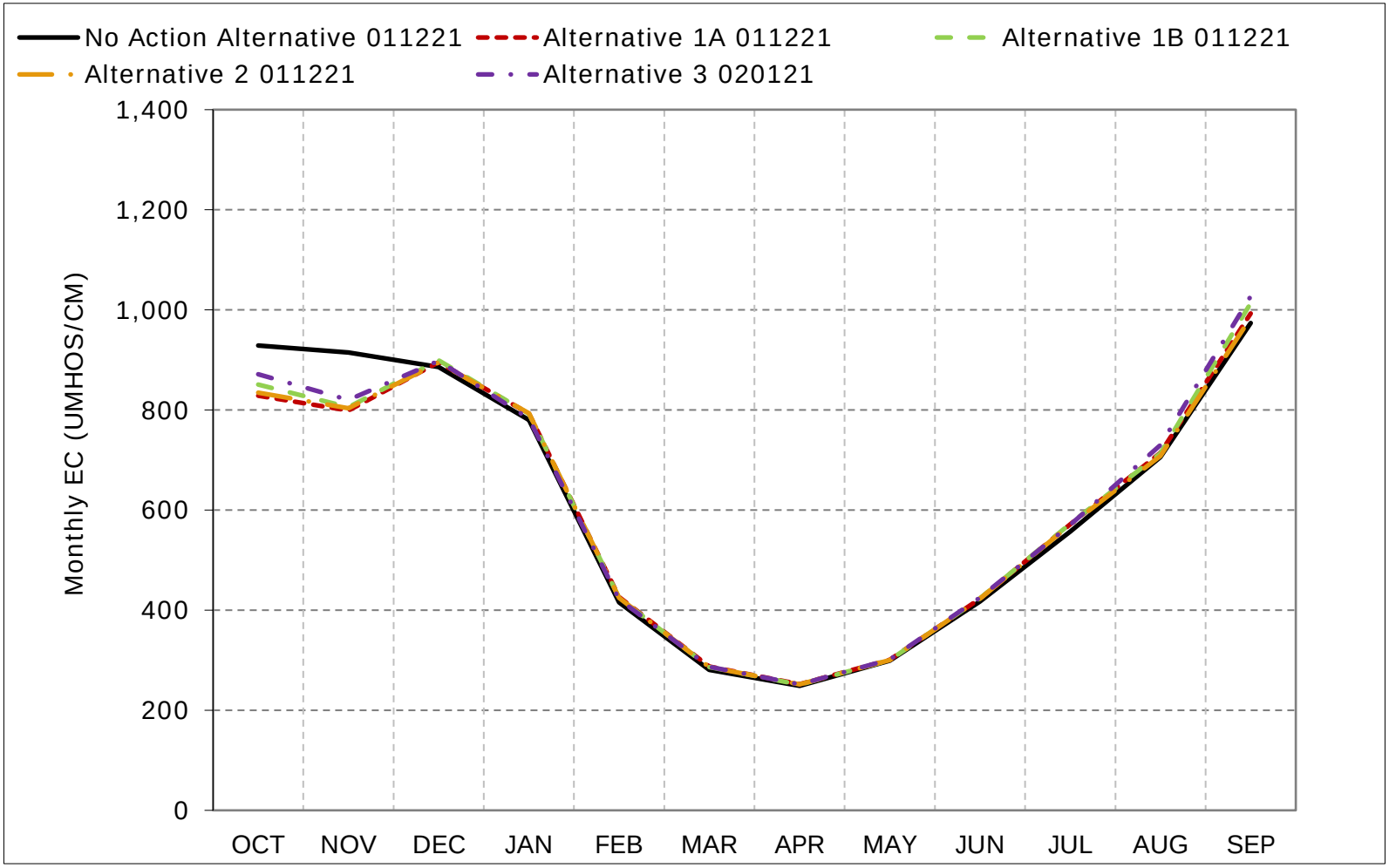


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-6. San Joaquin River at San Andreas, Critical Year Average EC

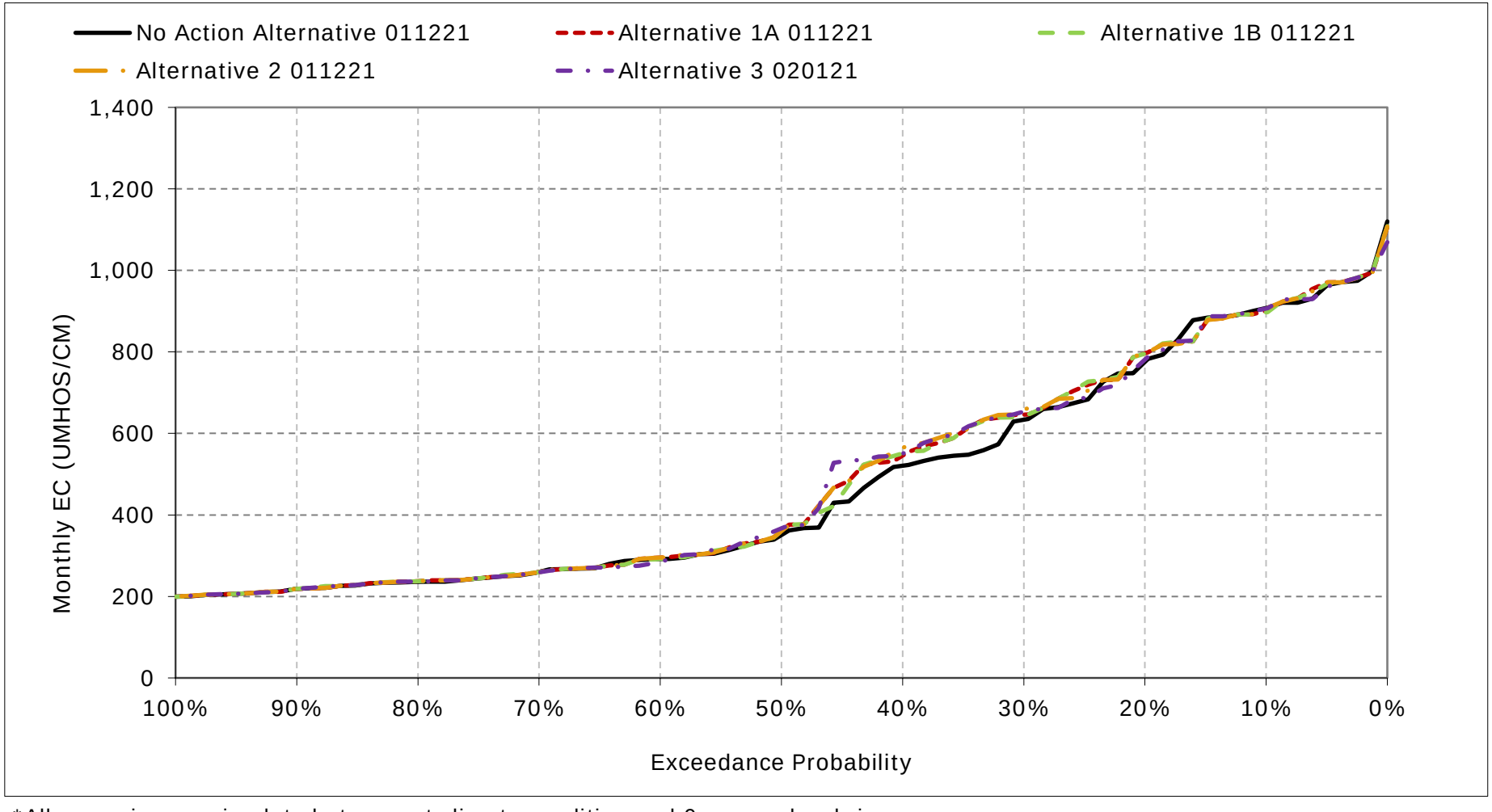


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

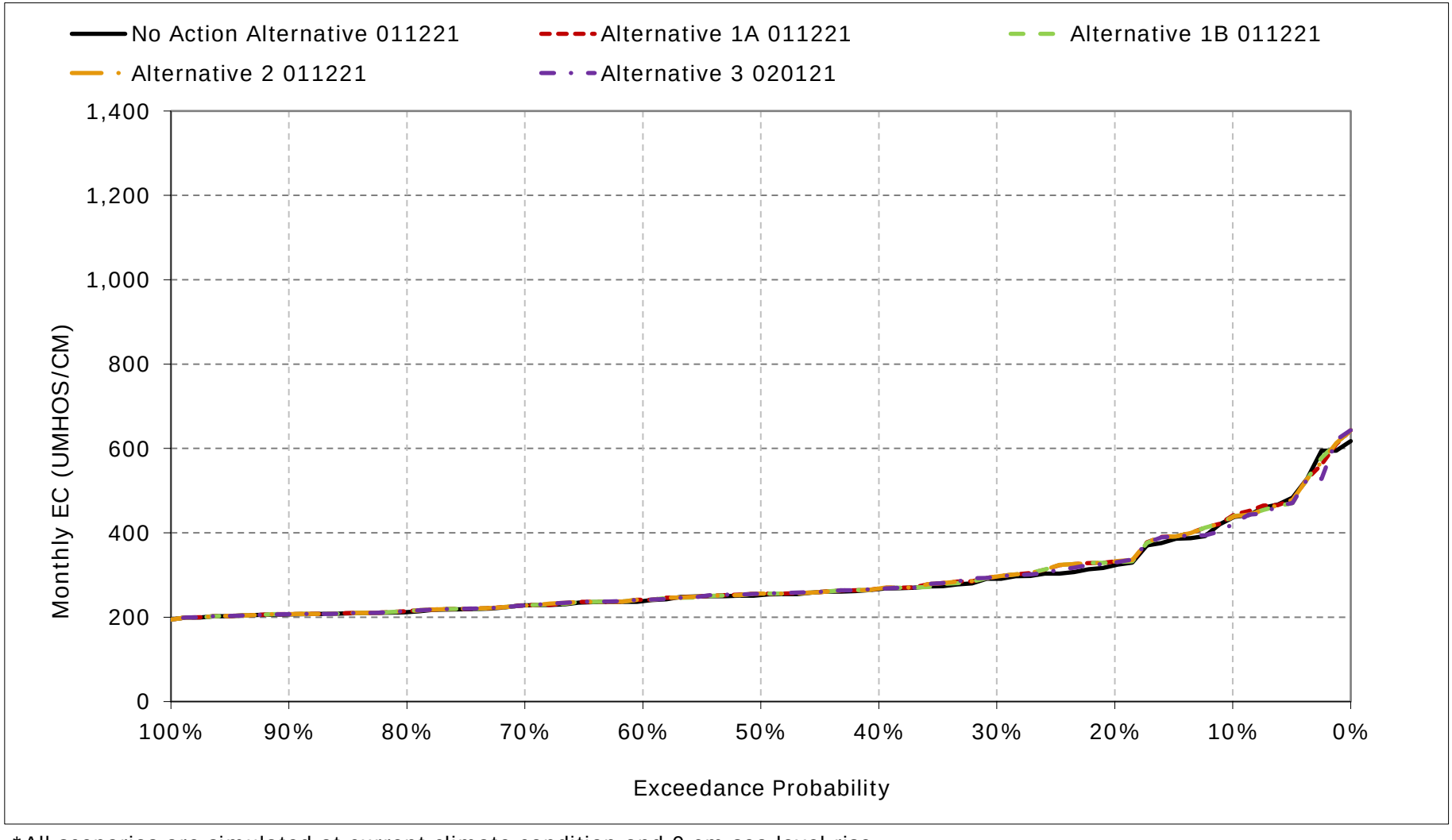
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-7. San Joaquin River at San Andreas Salinity, January EC



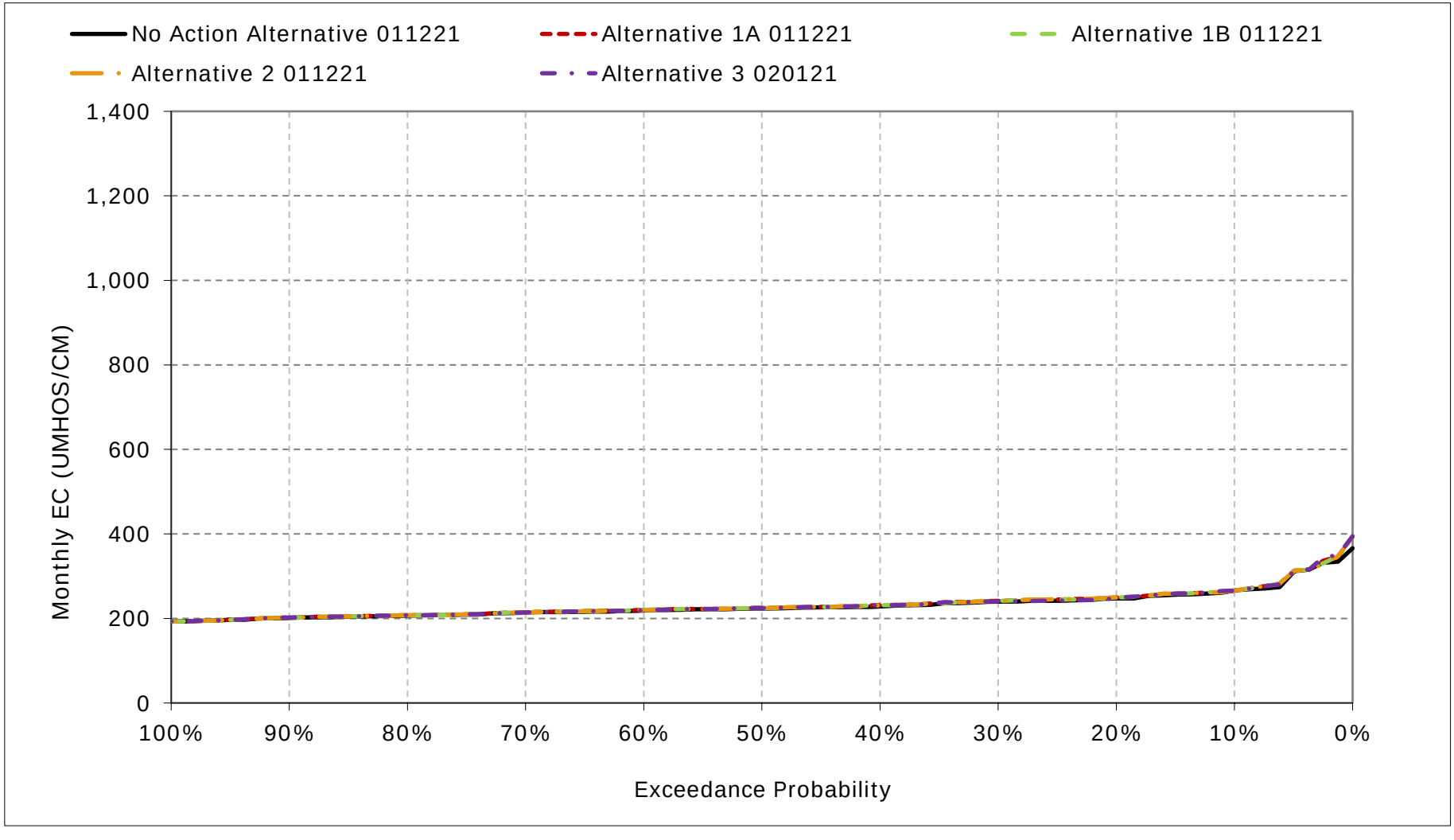
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-8. San Joaquin River at San Andreas Salinity, February EC



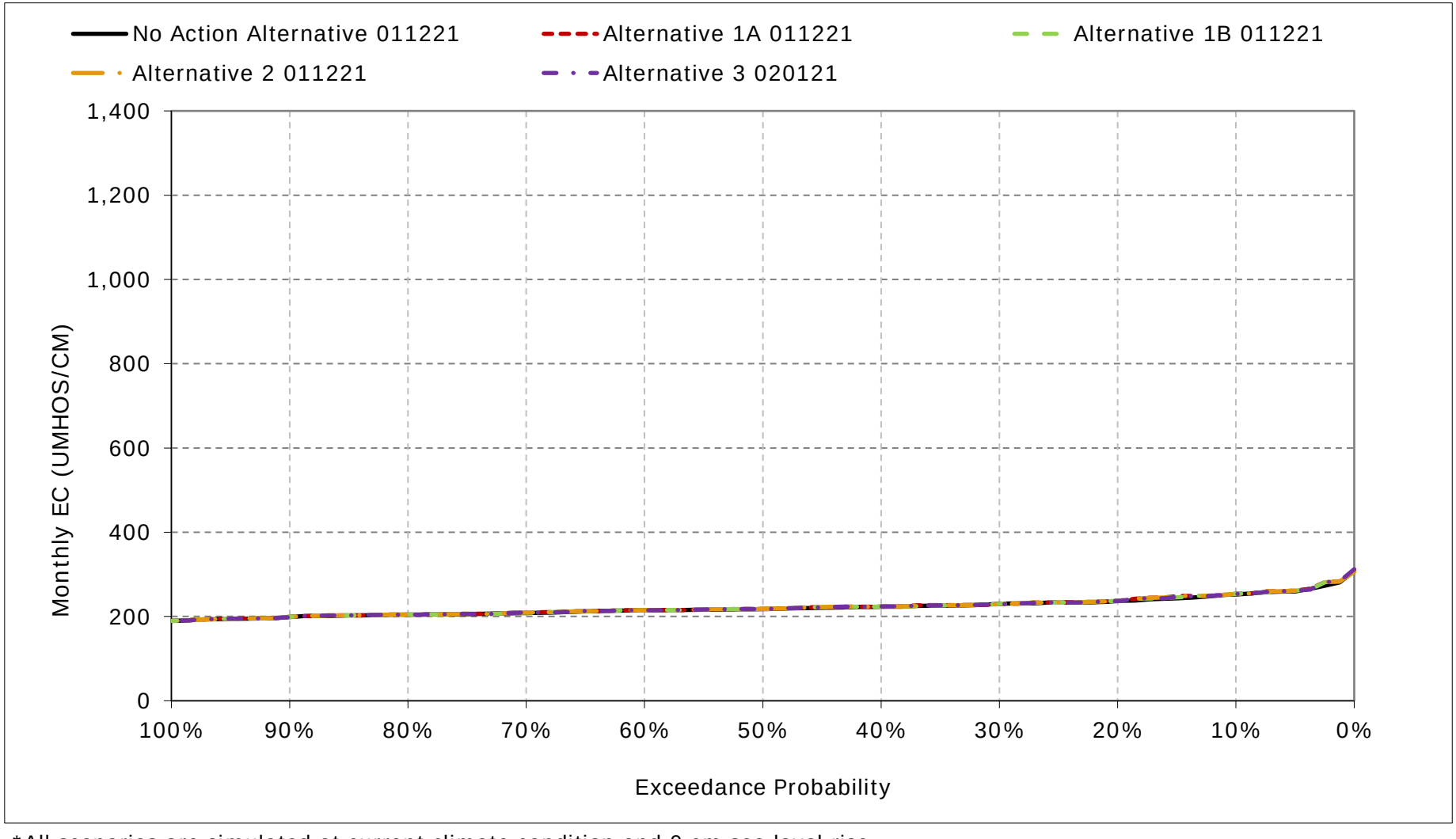
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-9. San Joaquin River at San Andreas Salinity, March EC



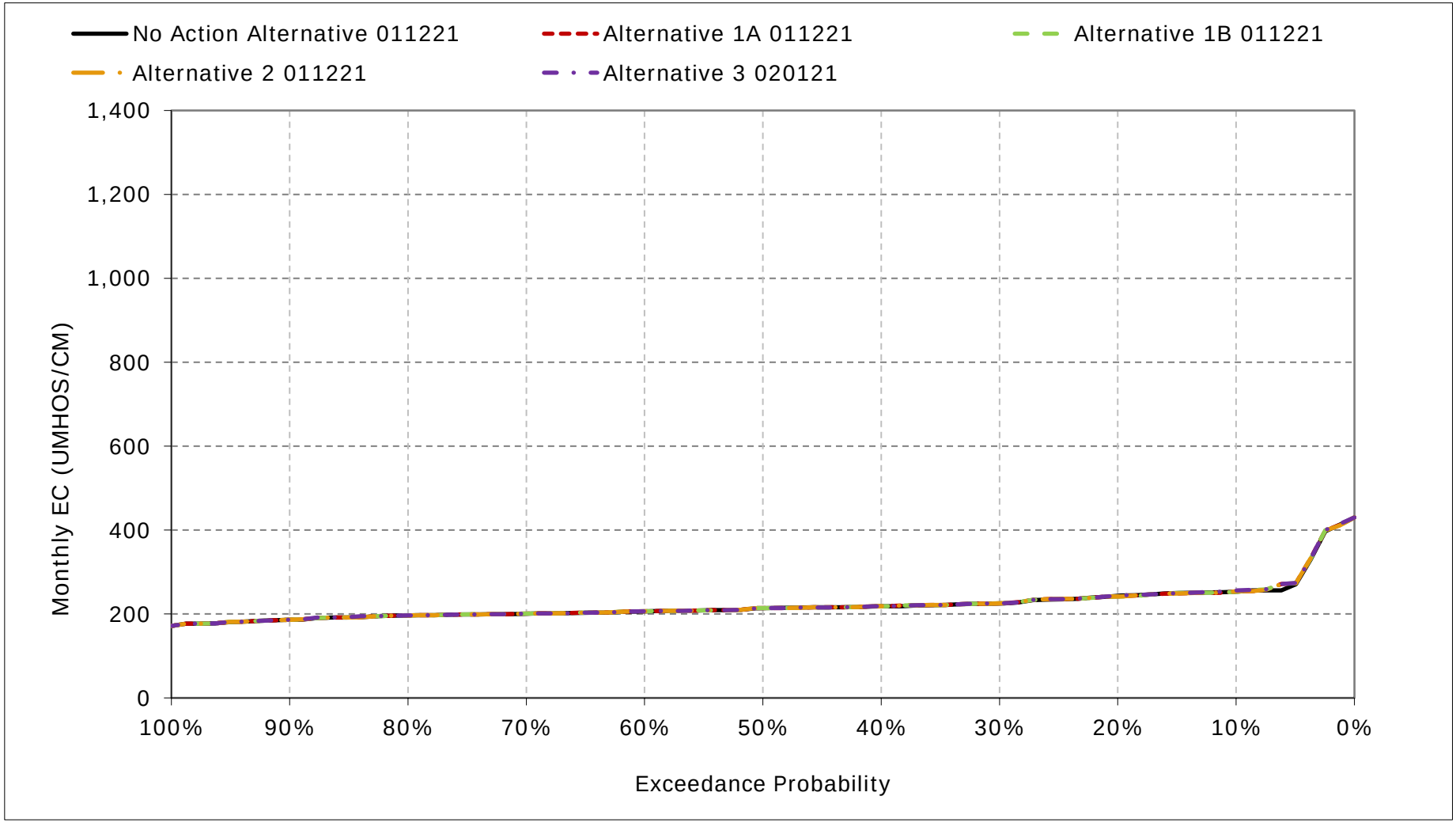
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-10. San Joaquin River at San Andreas Salinity, April EC



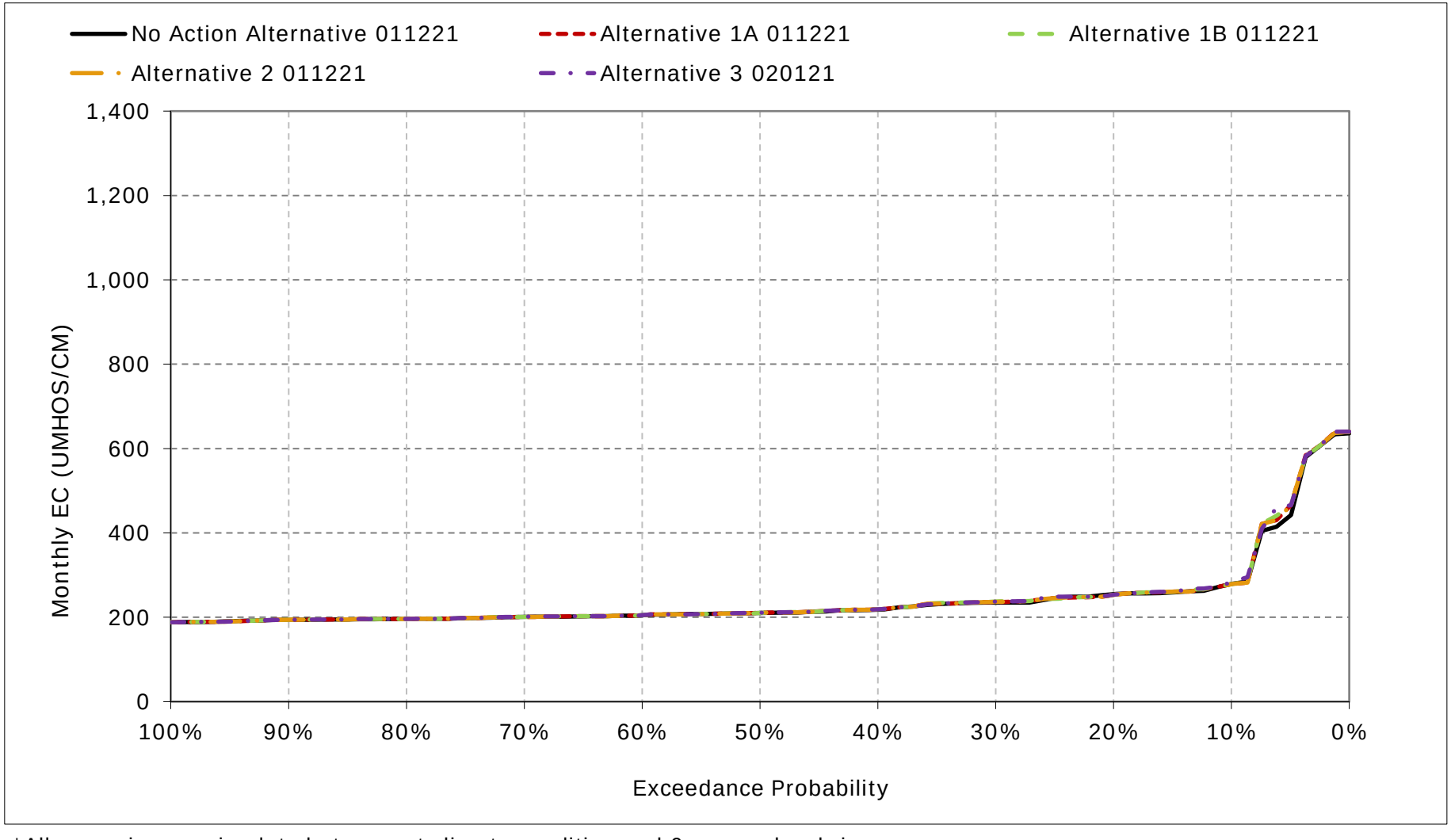
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-11. San Joaquin River at San Andreas Salinity, May EC



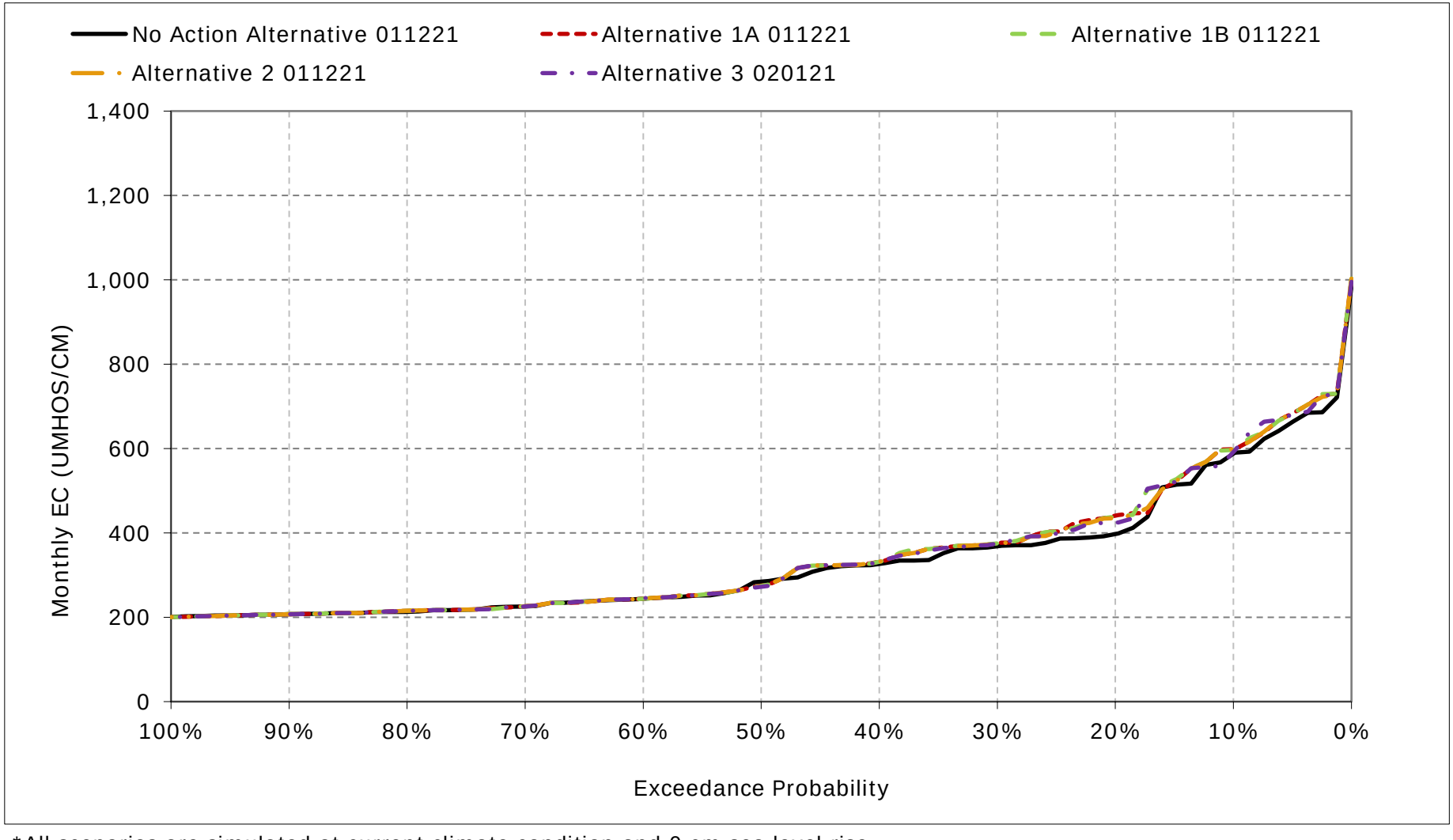
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-12. San Joaquin River at San Andreas Salinity, June EC



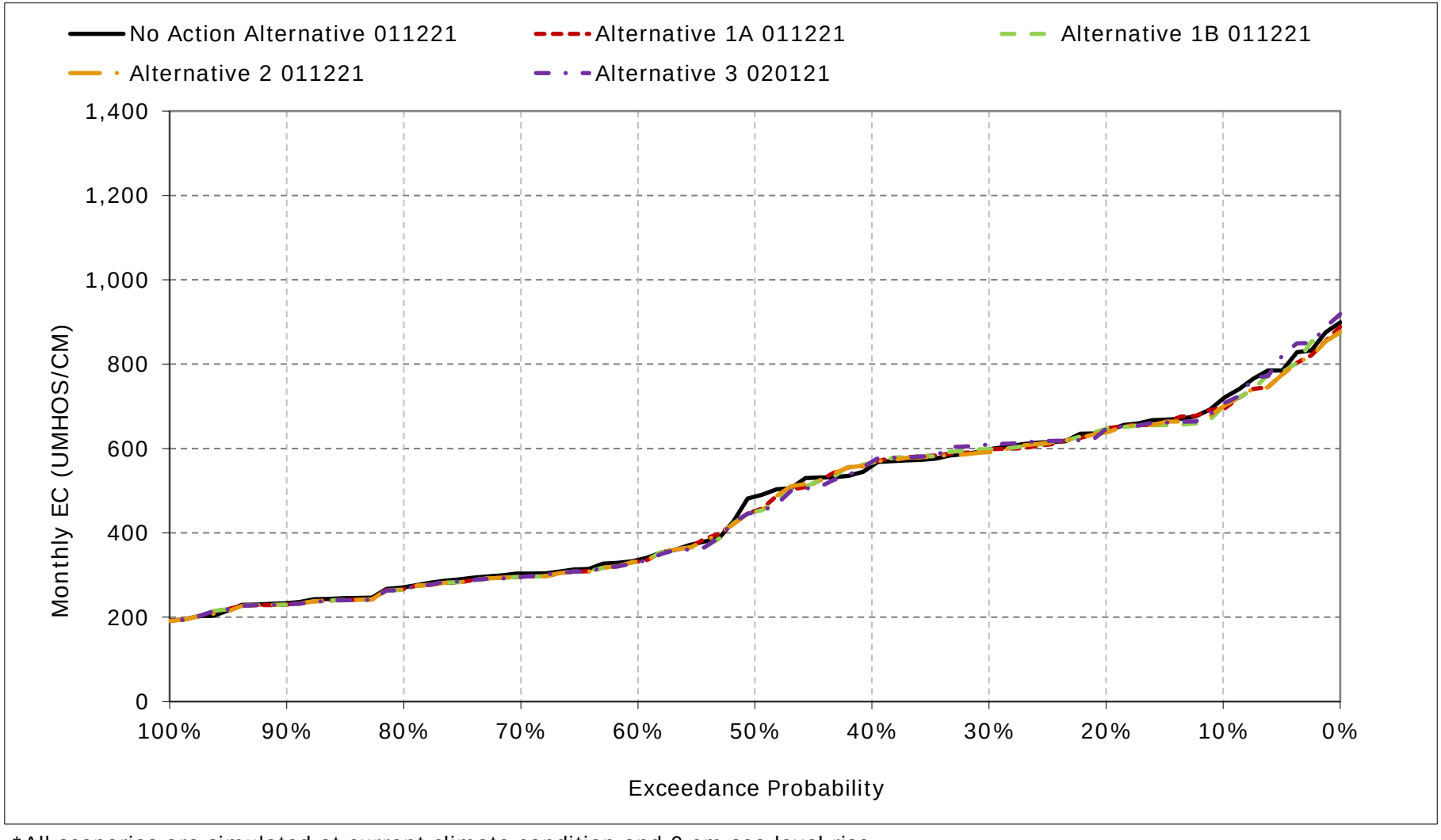
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-13. San Joaquin River at San Andreas Salinity, July EC



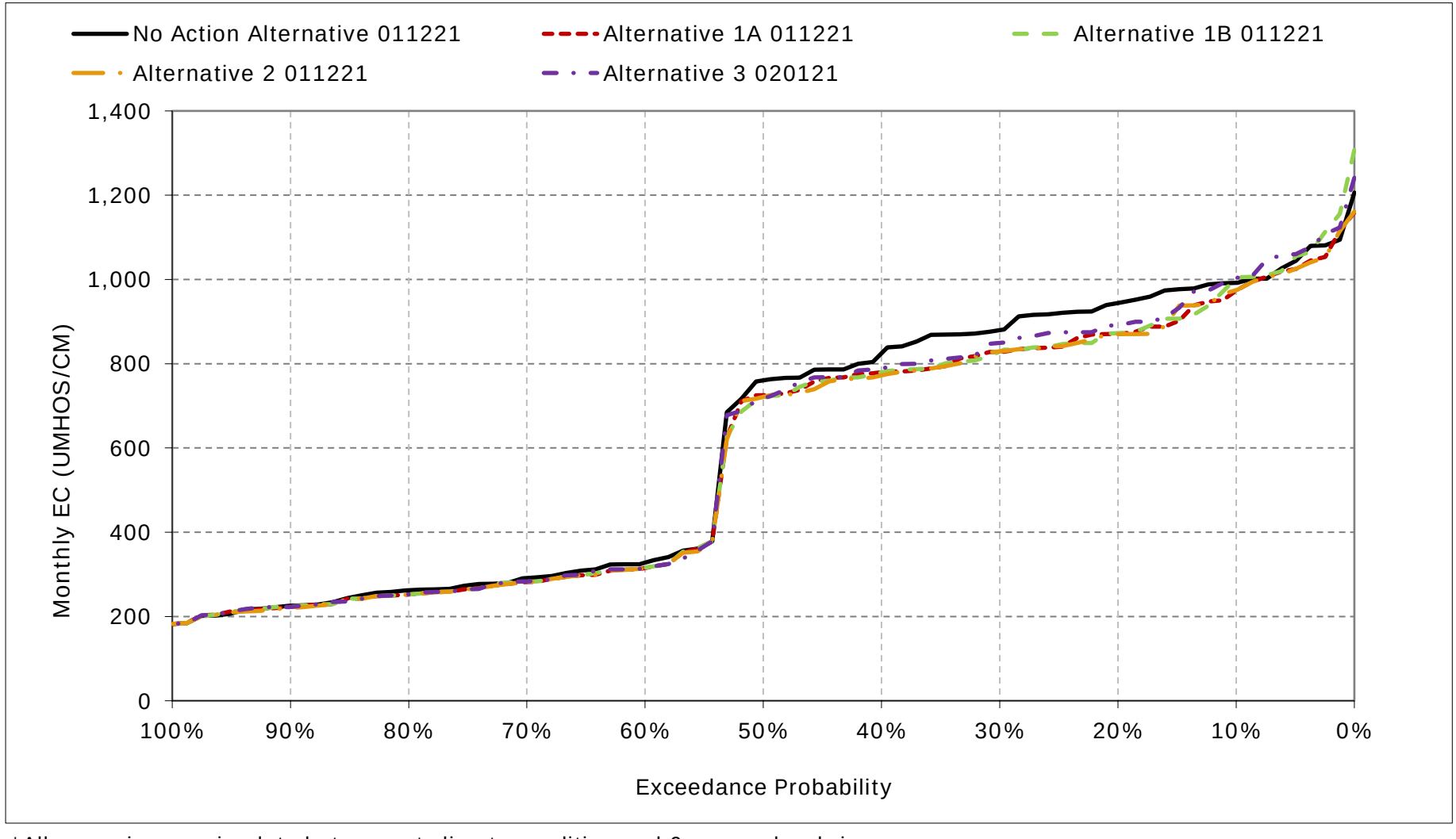
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-14. San Joaquin River at San Andreas Salinity, August EC



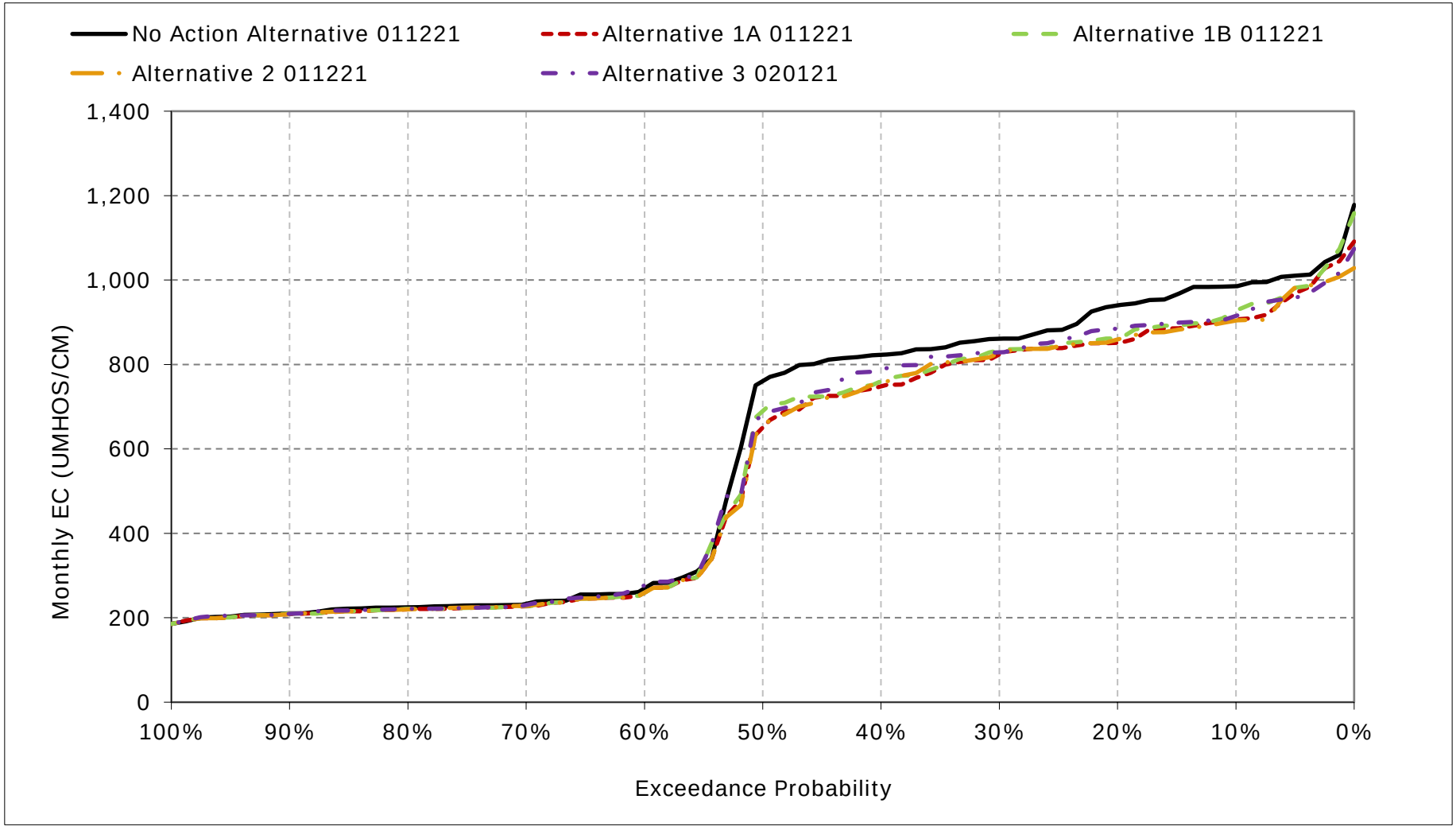
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-15. San Joaquin River at San Andreas Salinity, September EC



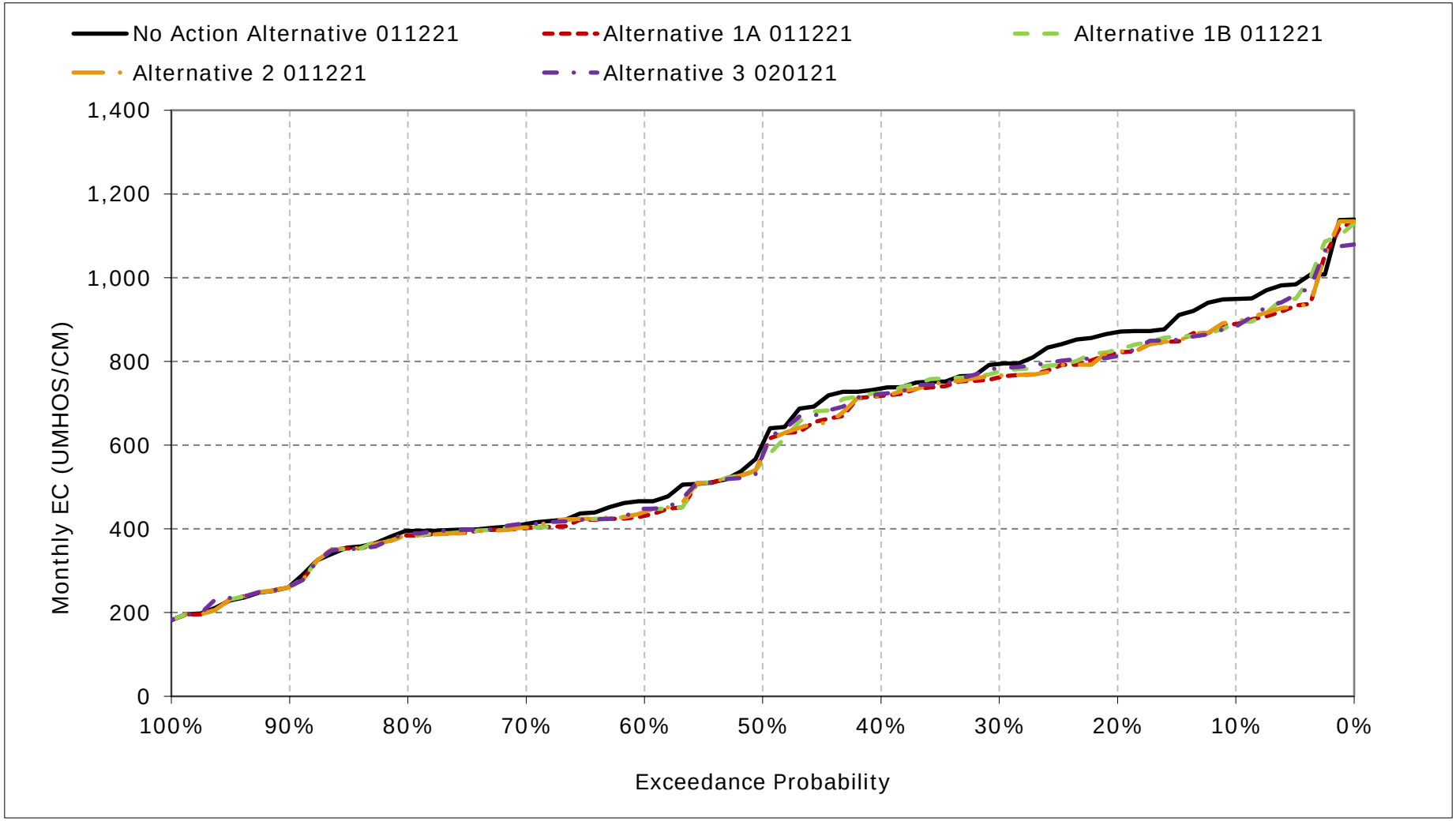
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-16. San Joaquin River at San Andreas Salinity, October EC



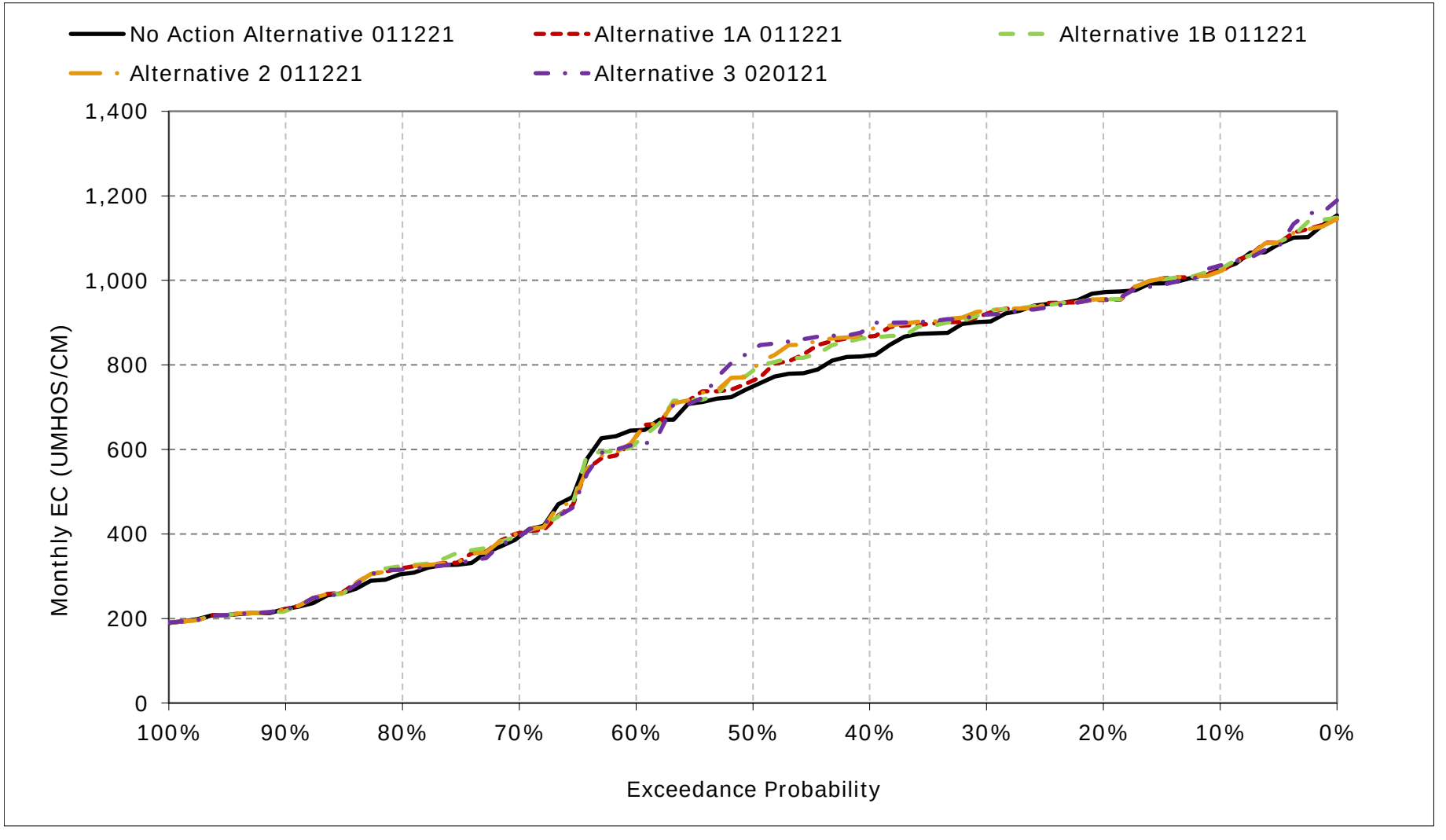
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-17. San Joaquin River at San Andreas Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-13-18. San Joaquin River at San Andreas Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-14-1a. San Joaquin River at Prisoners Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	634	625	704	783	451	352	348	290	292	385	490	631
20%	610	557	667	689	417	332	327	277	261	289	423	592
30%	573	535	629	611	398	318	312	269	253	276	387	547
40%	549	500	609	488	364	306	303	263	242	262	366	514
50%	503	445	570	411	340	291	288	259	235	252	329	469
60%	232	317	529	365	314	284	280	255	225	234	258	269
70%	218	291	411	337	291	272	261	248	222	226	239	248
80%	211	272	315	313	279	255	252	243	216	216	228	228
90%	207	242	273	294	256	236	239	211	210	207	215	212
Long Term												
Full Simulation Period[a]	415	425	519	481	350	297	290	257	247	272	331	412
Water Year Types[b]												
Wet (32%)	215	276	446	346	316	290	263	234	243	227	228	229
Above Normal (15%)	222	306	537	472	359	317	299	260	238	222	244	252
Below Normal (17%)	588	521	517	512	343	301	315	268	224	254	379	598
Dry (22%)	568	541	522	543	354	293	313	266	230	308	416	516
Critical (15%)	614	579	659	657	414	296	277	279	319	388	459	598

Table 6B1-14-1b. San Joaquin River at Prisoners Point, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	618	592	719	766	455	360	349	291	293	396	483	611
20%	585	542	676	694	420	336	327	277	262	306	436	551
30%	554	511	637	618	401	319	313	271	253	282	397	527
40%	517	473	606	515	367	306	304	264	243	266	379	495
50%	449	413	588	427	352	296	289	260	235	254	319	460
60%	229	306	513	373	314	284	280	255	225	235	258	261
70%	215	282	406	338	294	278	262	249	222	225	236	243
80%	210	270	321	311	281	256	253	243	217	216	226	225
90%	206	233	273	290	260	235	240	211	211	207	214	210
Long Term												
Full Simulation Period[a]	400	411	522	489	353	299	291	257	248	277	333	401
Water Year Types[b]												
Wet (32%)	212	269	451	347	316	290	263	234	243	227	227	227
Above Normal (15%)	220	304	537	498	362	317	300	260	238	222	242	249
Below Normal (17%)	544	523	522	516	347	303	315	269	225	253	361	542
Dry (22%)	554	534	527	549	357	294	315	266	230	322	432	501
Critical (15%)	590	509	654	665	421	302	281	280	322	398	470	618

Table 6B1-14-1c. San Joaquin River at Prisoners Point, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-16	-33	15	-17	5	8	1	0	1	11	-7	-20
20%	-25	-15	9	5	3	3	0	0	2	17	12	-41
30%	-19	-24	8	7	3	1	2	2	0	5	10	-20
40%	-33	-27	-3	27	3	0	1	1	0	3	12	-20
50%	-54	-32	19	17	12	5	1	0	0	1	-9	-10
60%	-4	-11	-16	8	0	0	0	0	0	0	0	-7
70%	-3	-9	-6	1	3	5	1	0	0	-1	-3	-4
80%	-1	-2	6	-1	2	1	1	0	0	0	-2	-3
90%	-2	-9	-1	-4	3	-1	1	0	1	0	-1	-2
Long Term												
Full Simulation Period[a]	-15	-14	3	7	3	2	1	0	1	4	2	-11
Water Year Types[b]												
Wet (32%)	-3	-7	5	1	0	0	0	0	0	0	-1	-3
Above Normal (15%)	-2	-3	0	26	3	1	0	0	0	0	-2	-4
Below Normal (17%)	-44	2	5	4	4	2	1	0	1	-1	-18	-56
Dry (22%)	-14	-7	5	6	3	1	2	0	0	14	17	-15
Critical (15%)	-25	-70	-5	8	8	6	3	1	3	10	11	21

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-14-2a. San Joaquin River at Prisoners Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	634	625	704	783	451	352	348	290	292	385	490	631
20%	610	557	667	689	417	332	327	277	261	289	423	592
30%	573	535	629	611	398	318	312	269	253	276	387	547
40%	549	500	609	488	364	306	303	263	242	262	366	514
50%	503	445	570	411	340	291	288	259	235	252	329	469
60%	232	317	529	365	314	284	280	255	225	234	258	269
70%	218	291	411	337	291	272	261	248	222	226	239	248
80%	211	272	315	313	279	255	252	243	216	216	228	228
90%	207	242	273	294	256	236	239	211	210	207	215	212
Long Term												
Full Simulation Period[a]	415	425	519	481	350	297	290	257	247	272	331	412
Water Year Types[b]												
Wet (32%)	215	276	446	346	316	290	263	234	243	227	228	229
Above Normal (15%)	222	306	537	472	359	317	299	260	238	222	244	252
Below Normal (17%)	588	521	517	512	343	301	315	268	224	254	379	598
Dry (22%)	568	541	522	543	354	293	313	266	230	308	416	516
Critical (15%)	614	579	659	657	414	296	277	279	319	388	459	598

Table 6B1-14-2b. San Joaquin River at Prisoners Point, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	628	617	717	773	452	360	348	290	293	395	486	618
20%	587	546	674	691	420	335	328	277	263	305	437	553
30%	552	523	642	619	401	318	313	271	253	282	399	529
40%	518	473	609	520	366	307	304	264	243	266	380	497
50%	472	429	591	420	351	294	289	259	234	253	318	445
60%	229	306	518	373	314	284	280	255	225	235	258	262
70%	215	283	393	338	291	278	260	249	222	225	236	243
80%	210	271	315	312	281	256	253	243	217	216	226	225
90%	206	234	273	291	260	235	240	211	211	207	214	210
Long Term												
Full Simulation Period[a]	406	414	524	489	352	299	291	257	248	277	333	404
Water Year Types[b]												
Wet (32%)	212	269	452	347	316	290	263	234	243	227	227	226
Above Normal (15%)	222	308	537	498	362	317	299	260	238	222	242	249
Below Normal (17%)	544	521	518	517	346	303	316	269	225	253	359	540
Dry (22%)	565	545	534	546	357	294	314	266	230	324	434	503
Critical (15%)	610	515	657	666	420	300	279	280	322	398	470	636

Table 6B1-14-2c. San Joaquin River at Prisoners Point, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6	-8	13	-9	1	8	0	0	1	10	-3	-14
20%	-23	-11	7	2	3	3	1	0	2	16	14	-39
30%	-21	-13	13	7	3	0	2	2	0	5	12	-18
40%	-31	-27	0	31	2	0	1	1	1	3	13	-18
50%	-31	-16	21	9	12	3	1	0	-1	1	-11	-24
60%	-4	-11	-12	8	0	-1	0	0	0	0	0	-7
70%	-3	-8	-19	1	0	5	-2	0	0	-1	-3	-4
80%	-1	-2	0	-1	2	1	1	0	0	0	-2	-3
90%	-2	-8	0	-3	3	-1	1	0	1	0	-1	-2
Long Term												
Full Simulation Period[a]	-10	-10	4	7	3	1	1	0	1	5	2	-9
Water Year Types[b]												
Wet (32%)	-3	-6	6	1	0	0	0	0	0	0	-1	-3
Above Normal (15%)	0	1	-1	26	3	0	0	0	0	0	-1	-3
Below Normal (17%)	-45	0	1	5	4	2	1	0	1	-1	-20	-58
Dry (22%)	-3	5	12	4	2	1	1	0	0	16	19	-13
Critical (15%)	-5	-64	-2	9	7	4	2	1	3	10	10	38

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-14-3a. San Joaquin River at Prisoners Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	634	625	704	783	451	352	348	290	292	385	490	631
20%	610	557	667	689	417	332	327	277	261	289	423	592
30%	573	535	629	611	398	318	312	269	253	276	387	547
40%	549	500	609	488	364	306	303	263	242	262	366	514
50%	503	445	570	411	340	291	288	259	235	252	329	469
60%	232	317	529	365	314	284	280	255	225	234	258	269
70%	218	291	411	337	291	272	261	248	222	226	239	248
80%	211	272	315	313	279	255	252	243	216	216	228	228
90%	207	242	273	294	256	236	239	211	210	207	215	212
Long Term												
Full Simulation Period[a]	415	425	519	481	350	297	290	257	247	272	331	412
Water Year Types[b]												
Wet (32%)	215	276	446	346	316	290	263	234	243	227	228	229
Above Normal (15%)	222	306	537	472	359	317	299	260	238	222	244	252
Below Normal (17%)	588	521	517	512	343	301	315	268	224	254	379	598
Dry (22%)	568	541	522	543	354	293	313	266	230	308	416	516
Critical (15%)	614	579	659	657	414	296	277	279	319	388	459	598

Table 6B1-14-3b. San Joaquin River at Prisoners Point, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	614	591	718	765	454	360	348	291	293	395	487	610
20%	583	538	673	694	420	336	327	277	262	304	433	553
30%	554	506	637	619	401	319	313	271	252	281	398	526
40%	519	477	609	546	367	307	304	264	243	265	379	493
50%	449	419	594	427	352	294	289	260	235	254	318	458
60%	229	307	514	373	314	284	280	255	225	235	258	261
70%	215	285	410	338	298	278	261	249	222	225	236	243
80%	210	270	321	311	281	256	253	243	217	216	226	225
90%	206	232	273	290	260	235	240	211	211	207	214	210
Long Term												
Full Simulation Period[a]	399	410	525	490	352	299	291	257	248	277	332	400
Water Year Types[b]												
Wet (32%)	212	270	452	347	316	290	263	234	243	227	227	226
Above Normal (15%)	220	304	537	498	362	318	300	260	238	222	242	248
Below Normal (17%)	541	522	523	523	347	303	315	269	225	253	361	540
Dry (22%)	551	529	536	547	357	294	315	266	230	322	433	503
Critical (15%)	590	512	655	667	420	300	279	280	322	397	467	612

Table 6B1-14-3c. San Joaquin River at Prisoners Point, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-20	-33	15	-18	4	8	0	0	1	10	-3	-21
20%	-27	-19	6	5	3	4	0	0	2	14	9	-39
30%	-19	-30	8	8	3	1	2	2	-1	5	11	-21
40%	-30	-23	0	58	3	1	1	1	0	3	12	-21
50%	-54	-26	24	17	12	3	1	0	0	1	-11	-11
60%	-4	-10	-15	9	0	-1	0	0	0	0	0	-7
70%	-3	-7	-1	1	7	5	0	0	0	-1	-3	-4
80%	-1	-2	6	-1	2	1	1	0	0	0	-2	-3
90%	-2	-10	0	-4	3	-1	1	0	1	0	-1	-2
Long Term												
Full Simulation Period[a]	-16	-14	5	8	3	1	1	0	1	4	1	-12
Water Year Types[b]												
Wet (32%)	-3	-5	6	1	0	0	0	0	0	0	-1	-3
Above Normal (15%)	-2	-3	0	26	3	1	0	0	0	0	-2	-4
Below Normal (17%)	-47	1	6	11	5	2	1	0	1	-1	-18	-58
Dry (22%)	-17	-11	14	4	3	1	2	0	0	14	17	-13
Critical (15%)	-25	-67	-4	10	7	4	2	1	3	9	8	14

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-14-4a. San Joaquin River at Prisoners Point, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	634	625	704	783	451	352	348	290	292	385	490	631
20%	610	557	667	689	417	332	327	277	261	289	423	592
30%	573	535	629	611	398	318	312	269	253	276	387	547
40%	549	500	609	488	364	306	303	263	242	262	366	514
50%	503	445	570	411	340	291	288	259	235	252	329	469
60%	232	317	529	365	314	284	280	255	225	234	258	269
70%	218	291	411	337	291	272	261	248	222	226	239	248
80%	211	272	315	313	279	255	252	243	216	216	228	228
90%	207	242	273	294	256	236	239	211	210	207	215	212
Long Term												
Full Simulation Period[a]	415	425	519	481	350	297	290	257	247	272	331	412
Water Year Types[b]												
Wet (32%)	215	276	446	346	316	290	263	234	243	227	228	229
Above Normal (15%)	222	306	537	472	359	317	299	260	238	222	244	252
Below Normal (17%)	588	521	517	512	343	301	315	268	224	254	379	598
Dry (22%)	568	541	522	543	354	293	313	266	230	308	416	516
Critical (15%)	614	579	659	657	414	296	277	279	319	388	459	598

Table 6B1-14-4b. San Joaquin River at Prisoners Point, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	618	608	721	769	454	360	346	286	293	386	489	622
20%	588	547	683	681	421	337	328	278	263	299	429	560
30%	561	510	648	612	401	318	313	272	253	280	404	538
40%	532	476	615	541	367	305	304	264	244	266	370	499
50%	467	432	591	445	347	296	288	259	235	253	317	458
60%	232	307	520	372	315	284	279	255	226	235	257	262
70%	217	286	399	336	297	278	262	249	222	225	237	244
80%	210	272	319	311	281	256	253	243	217	216	227	225
90%	205	232	274	292	260	235	241	211	211	207	214	210
Long Term												
Full Simulation Period[a]	405	414	525	490	351	299	291	257	248	276	333	407
Water Year Types[b]												
Wet (32%)	212	270	453	346	316	290	263	234	243	227	227	226
Above Normal (15%)	222	310	530	496	362	317	299	260	238	222	242	249
Below Normal (17%)	551	533	513	536	348	303	316	269	225	253	360	543
Dry (22%)	552	523	548	544	353	293	314	265	231	322	431	512
Critical (15%)	611	525	659	659	416	301	280	280	323	397	476	639

Table 6B1-14-4c. San Joaquin River at Prisoners Point, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-16	-17	17	-13	3	8	-1	-4	1	1	-1	-9
20%	-22	-10	16	-8	4	4	1	1	2	10	6	-32
30%	-12	-25	19	1	3	0	2	2	0	4	18	-10
40%	-18	-24	6	53	3	-2	1	1	1	3	4	-15
50%	-36	-12	22	34	8	5	1	0	0	1	-11	-11
60%	0	-9	-10	8	1	0	-1	0	0	0	-1	-7
70%	-1	-5	-12	-1	6	5	1	1	0	-1	-2	-4
80%	-1	0	4	-2	2	1	1	0	0	0	-1	-3
90%	-2	-9	1	-2	4	-1	2	0	0	0	-1	-2
Long Term												
Full Simulation Period[a]	-11	-11	6	8	2	1	1	0	1	4	2	-6
Water Year Types[b]												
Wet (32%)	-2	-6	7	0	0	0	0	0	0	0	-1	-3
Above Normal (15%)	1	4	-7	24	3	1	0	0	0	0	-2	-3
Below Normal (17%)	-37	12	-3	24	6	2	1	0	1	-1	-19	-55
Dry (22%)	-16	-18	26	1	-2	0	1	-1	0	13	16	-4
Critical (15%)	-3	-54	-1	2	3	6	3	1	4	9	17	42

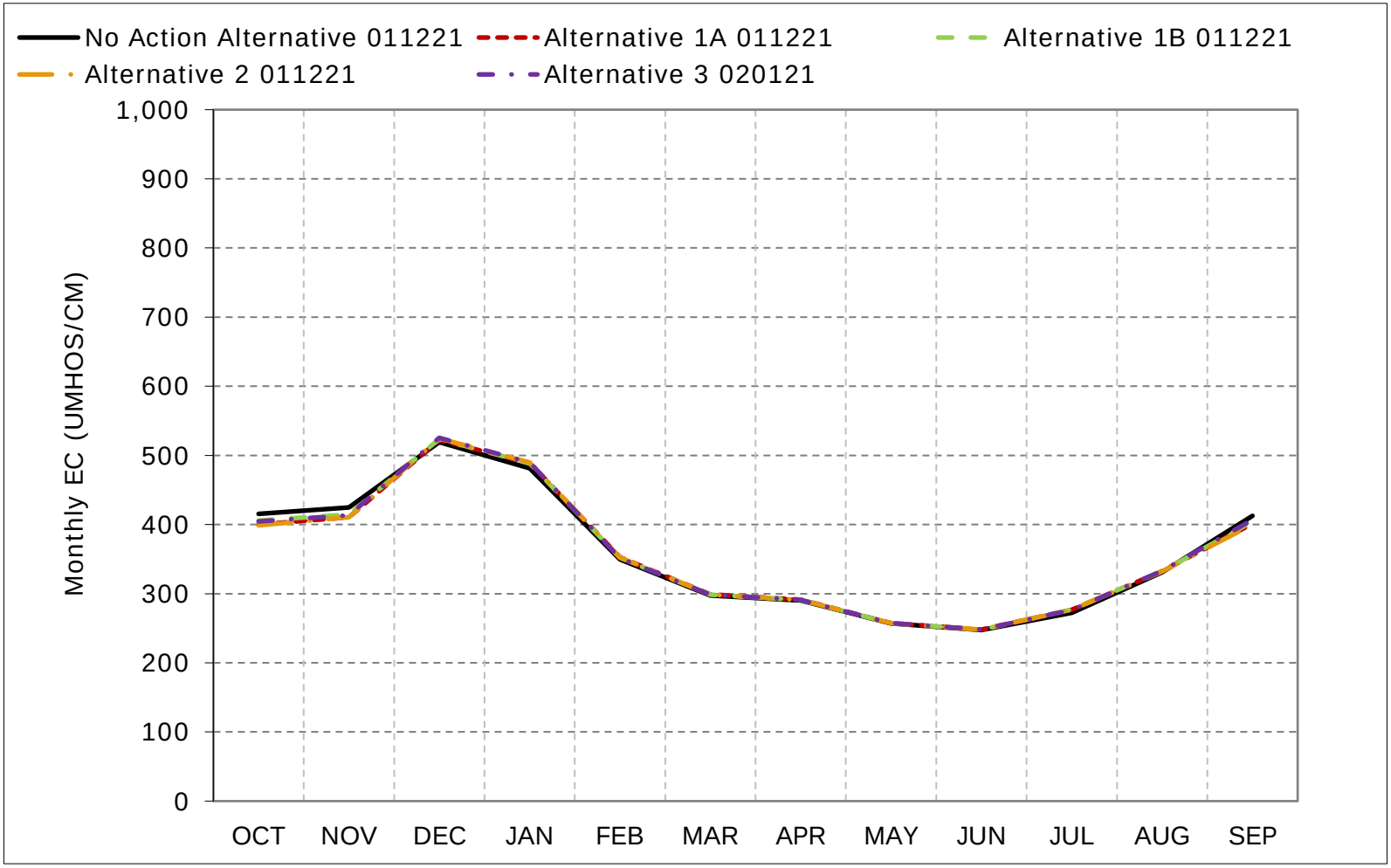
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-1. San Joaquin River at Prisoners Point, Long-Term Average EC

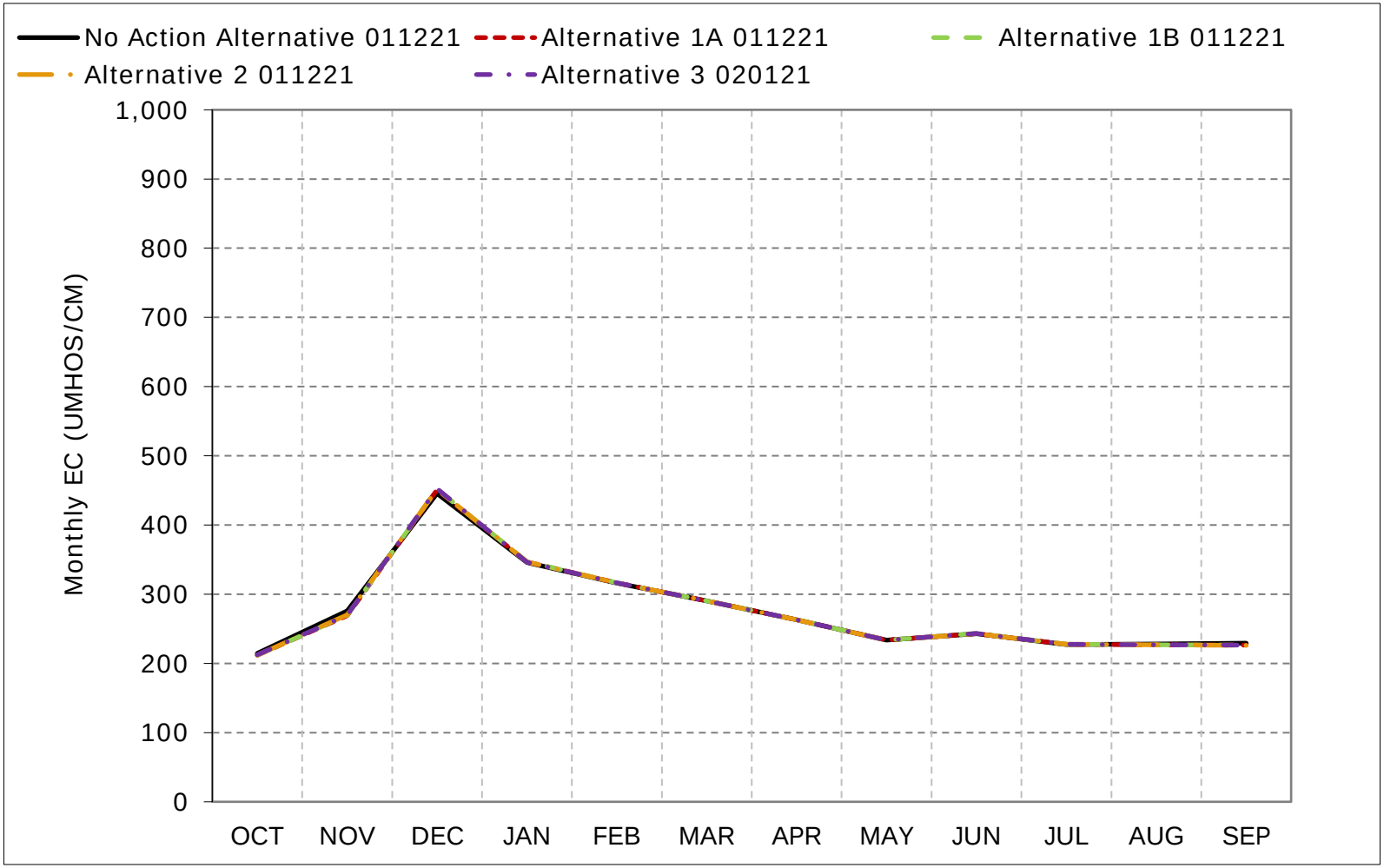


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-2. San Joaquin River at Prisoners Point, Wet Year Average EC

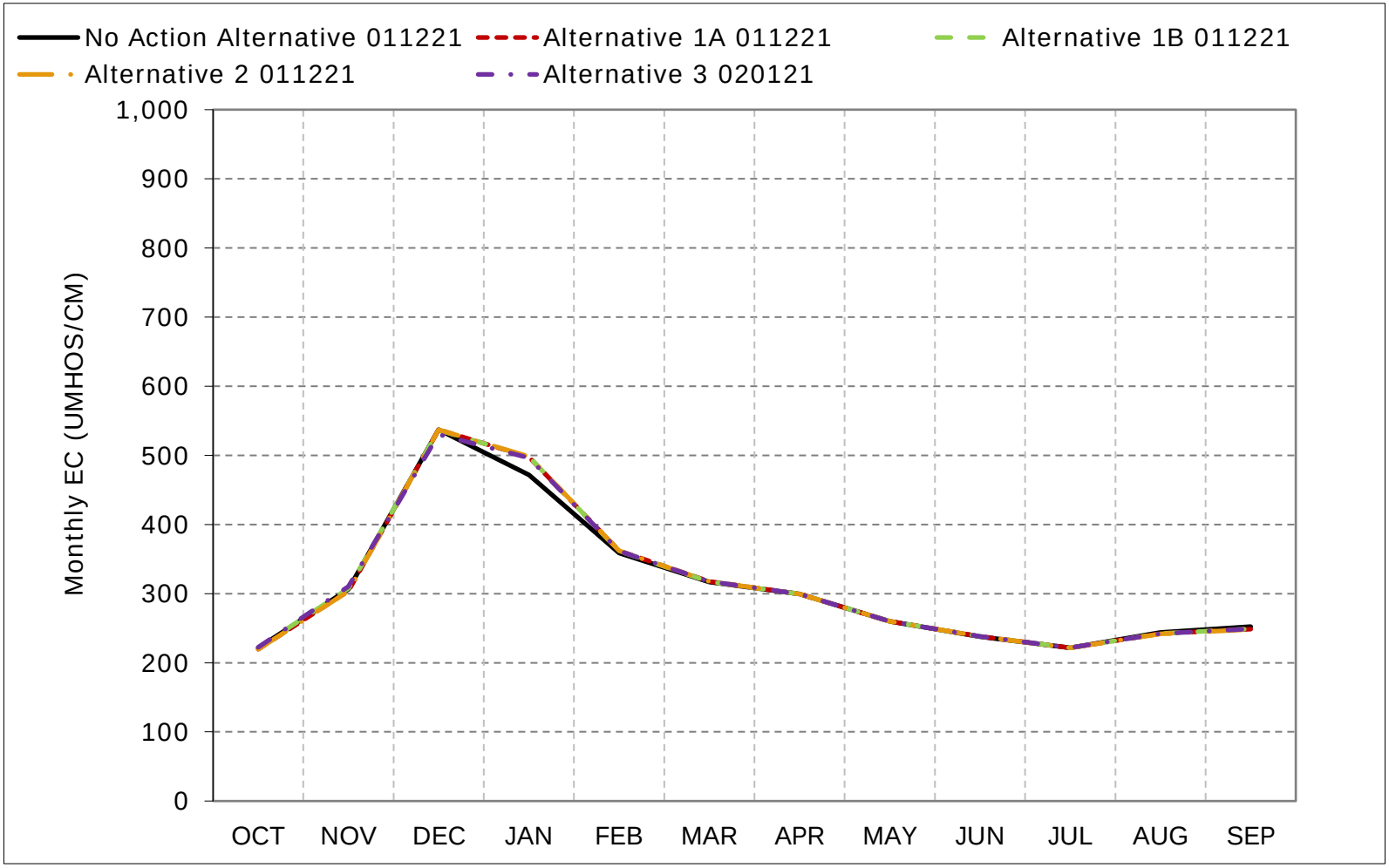


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-3. San Joaquin River at Prisoners Point, Above Normal Year Average EC

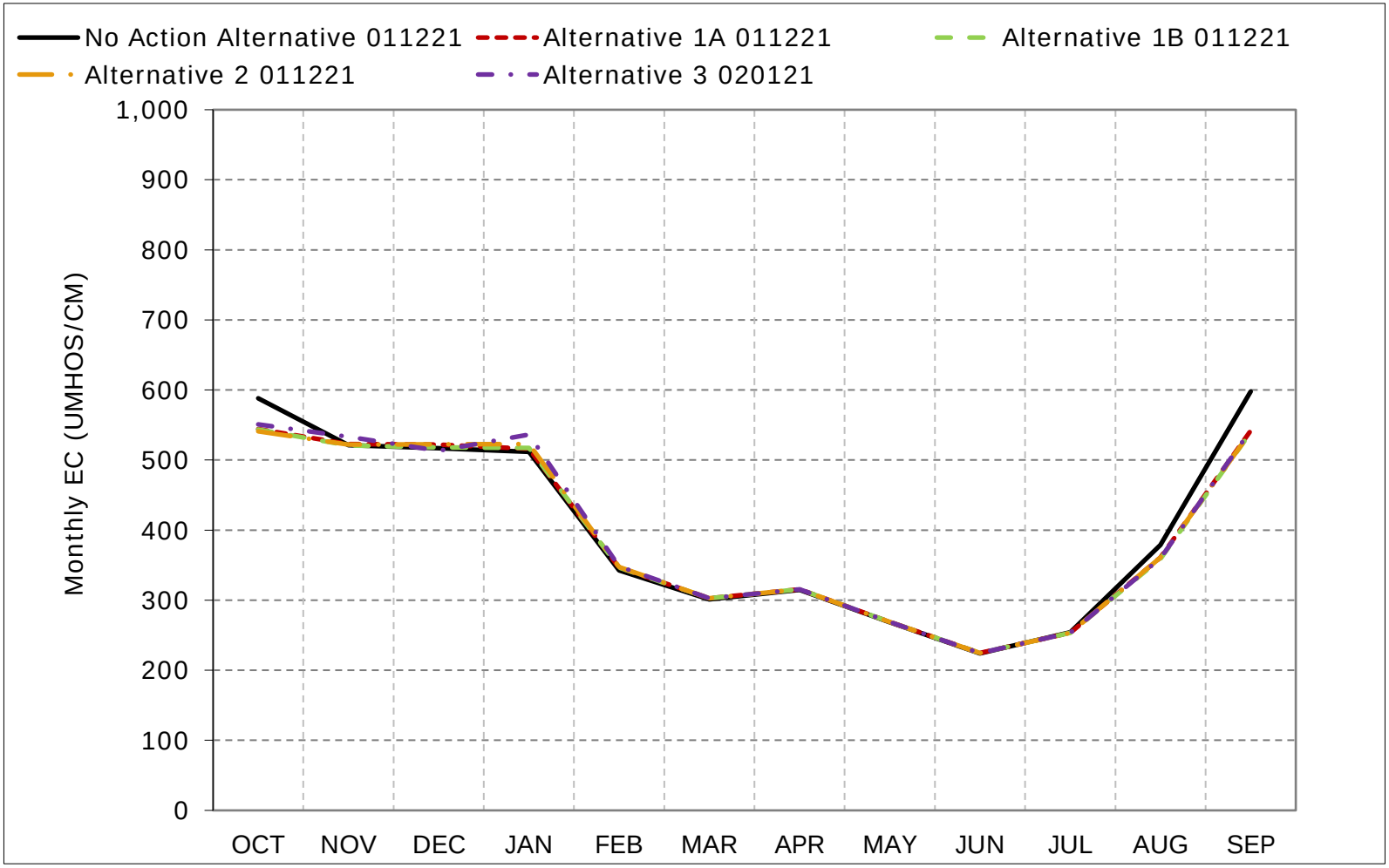


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-4. San Joaquin River at Prisoners Point, Below Normal Year Average EC

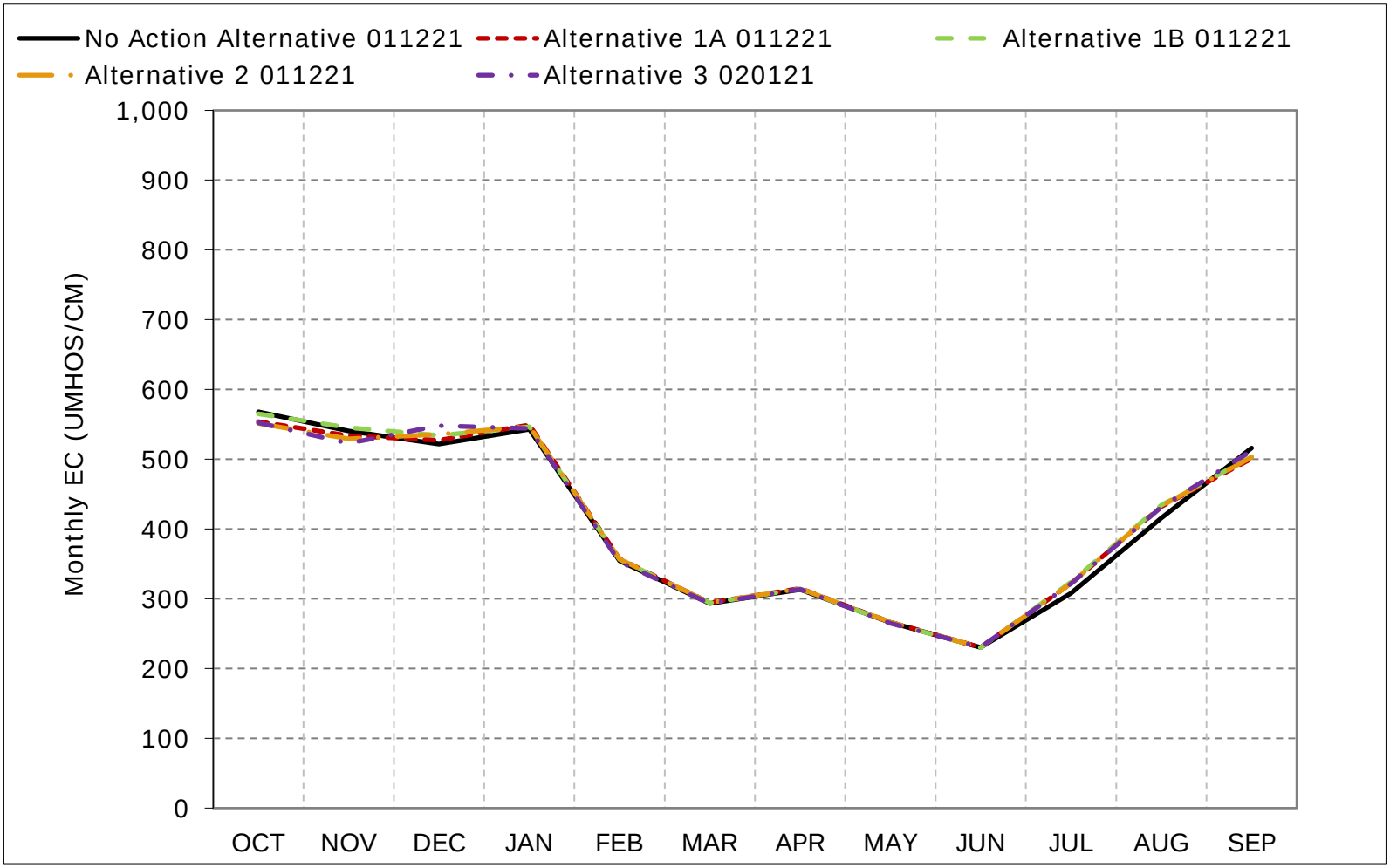


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-5. San Joaquin River at Prisoners Point, Dry Year Average EC

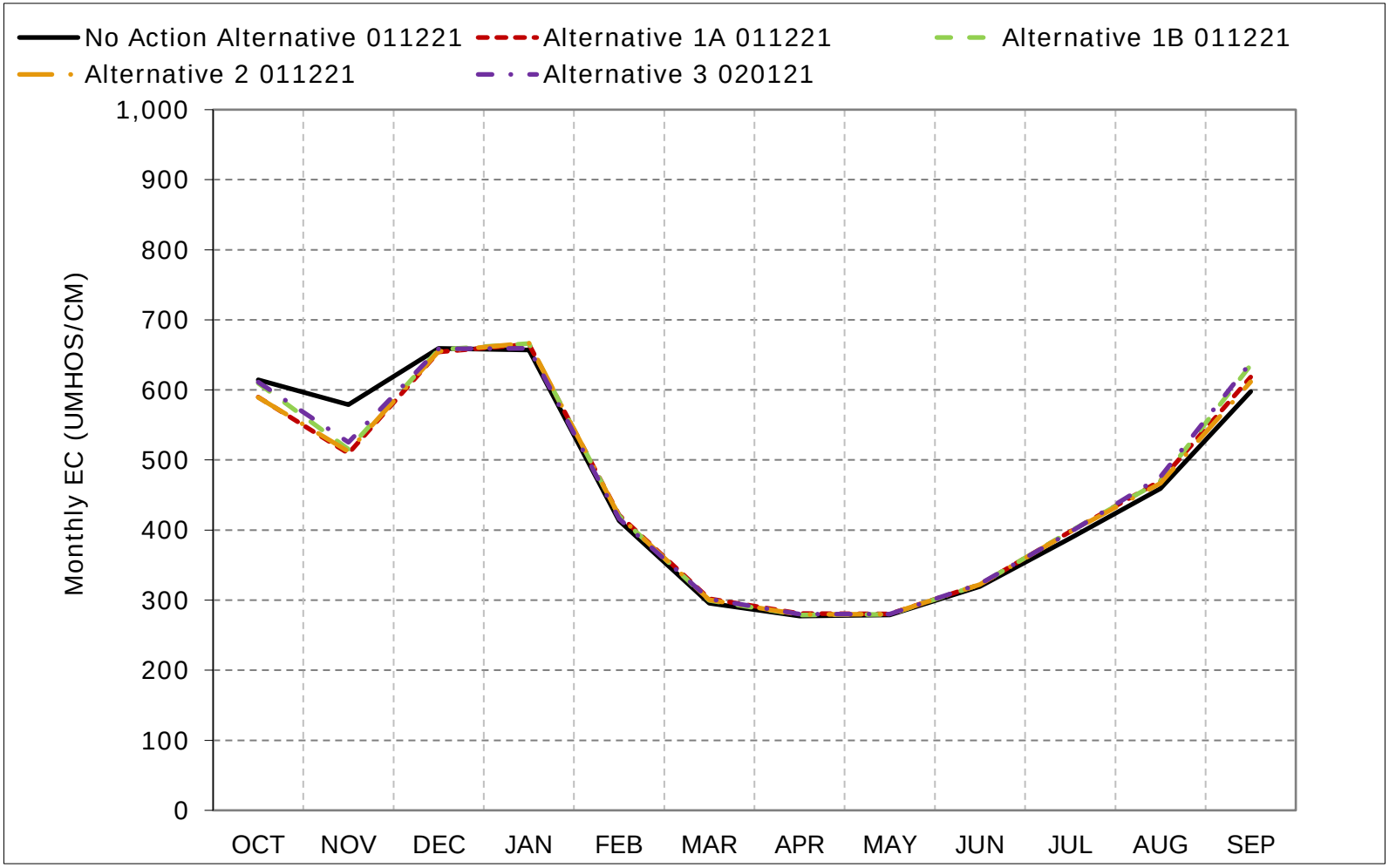


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-6. San Joaquin River at Prisoners Point, Critical Year Average EC

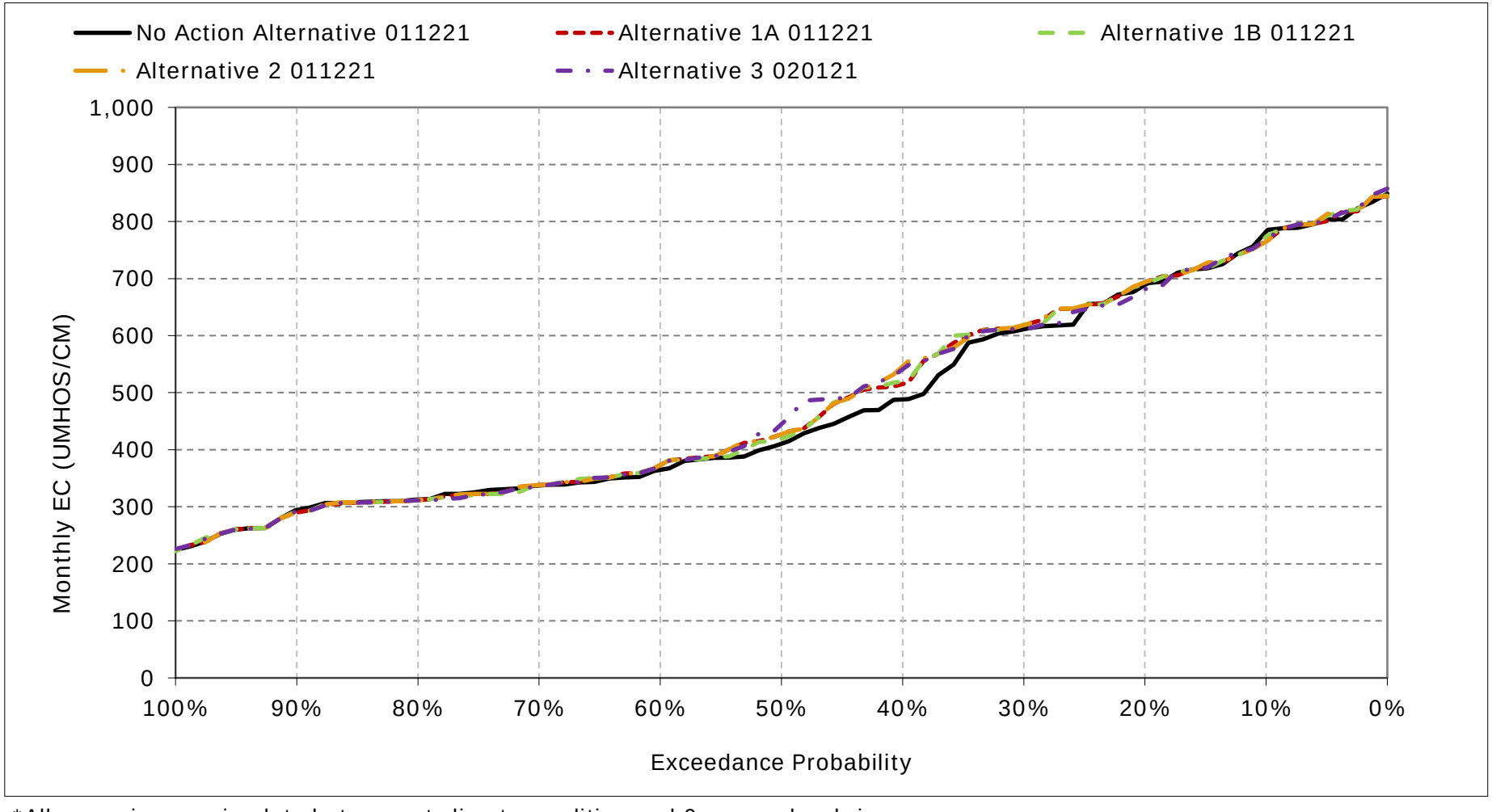


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

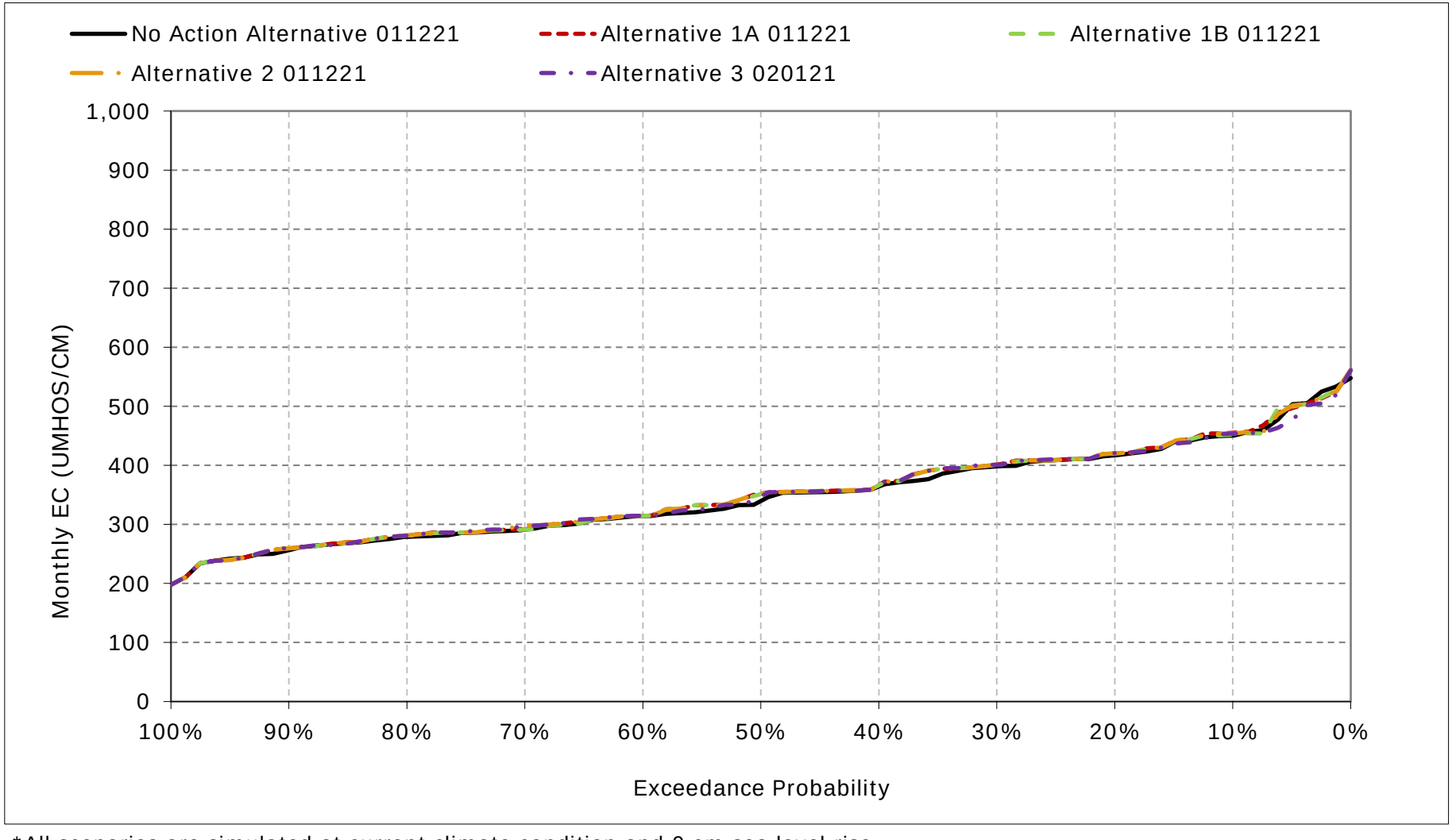
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-7. San Joaquin River at Prisoners Point Salinity, January EC



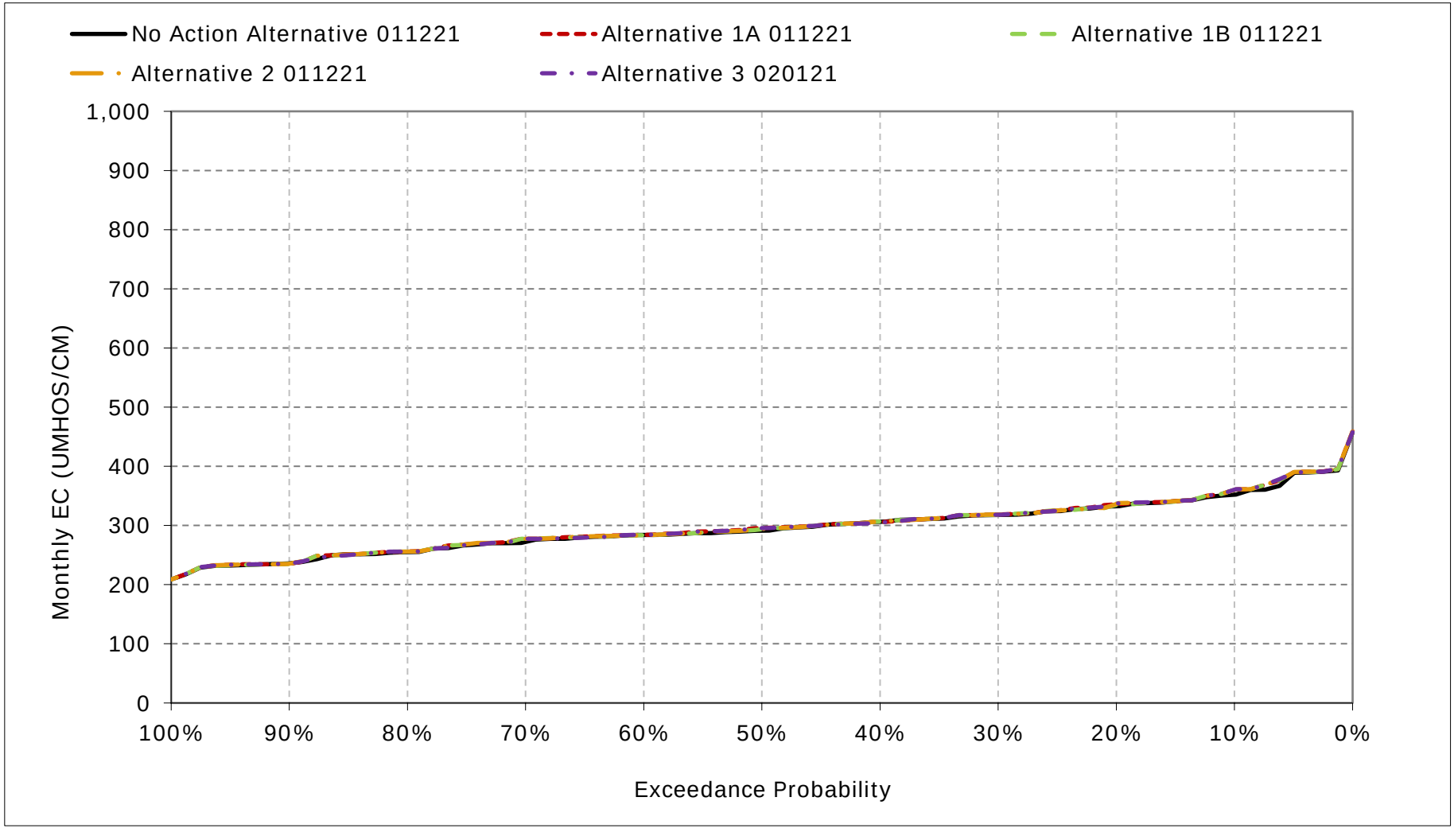
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-8. San Joaquin River at Prisoners Point Salinity, February EC



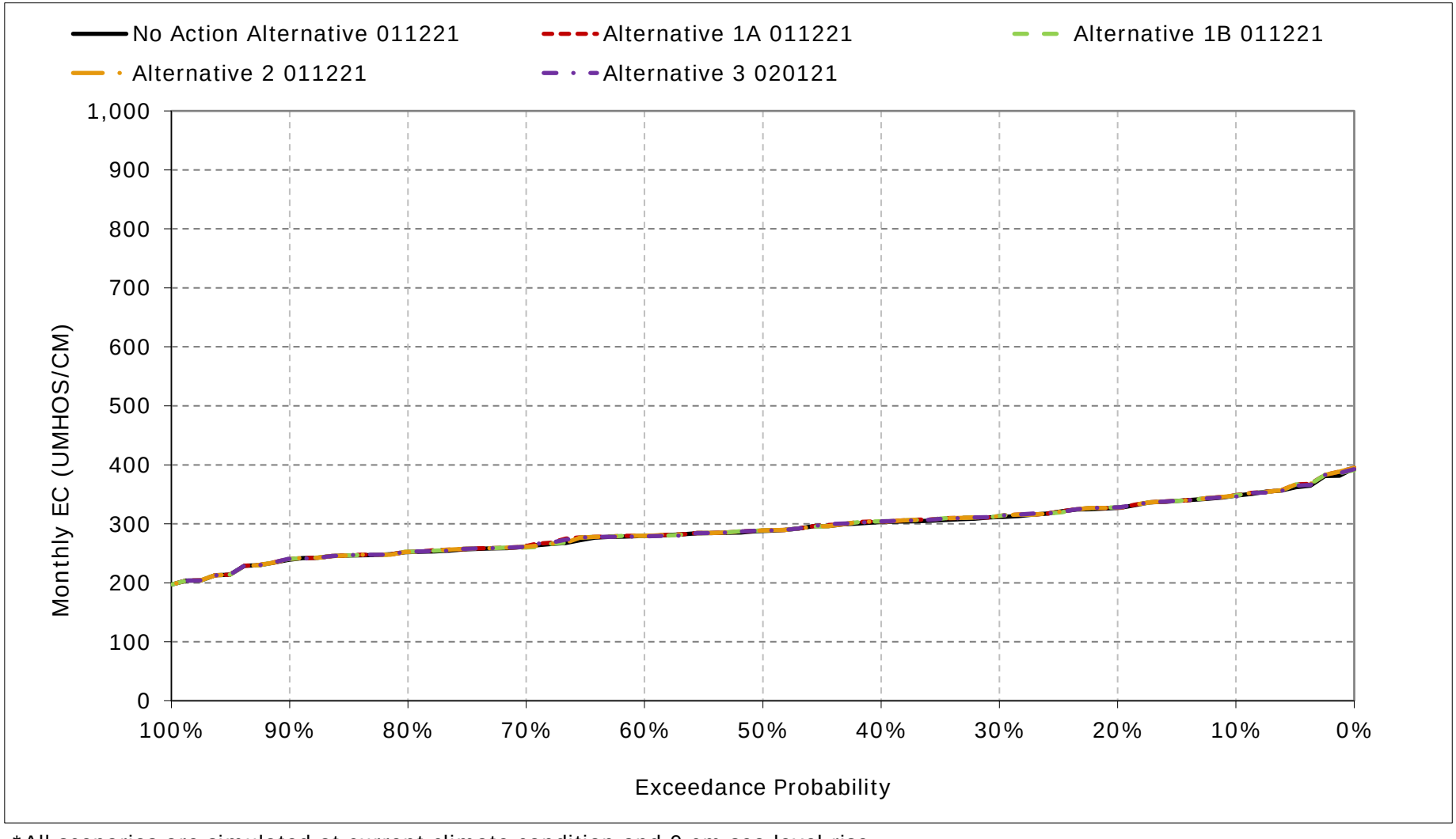
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-9. San Joaquin River at Prisoners Point Salinity, March EC



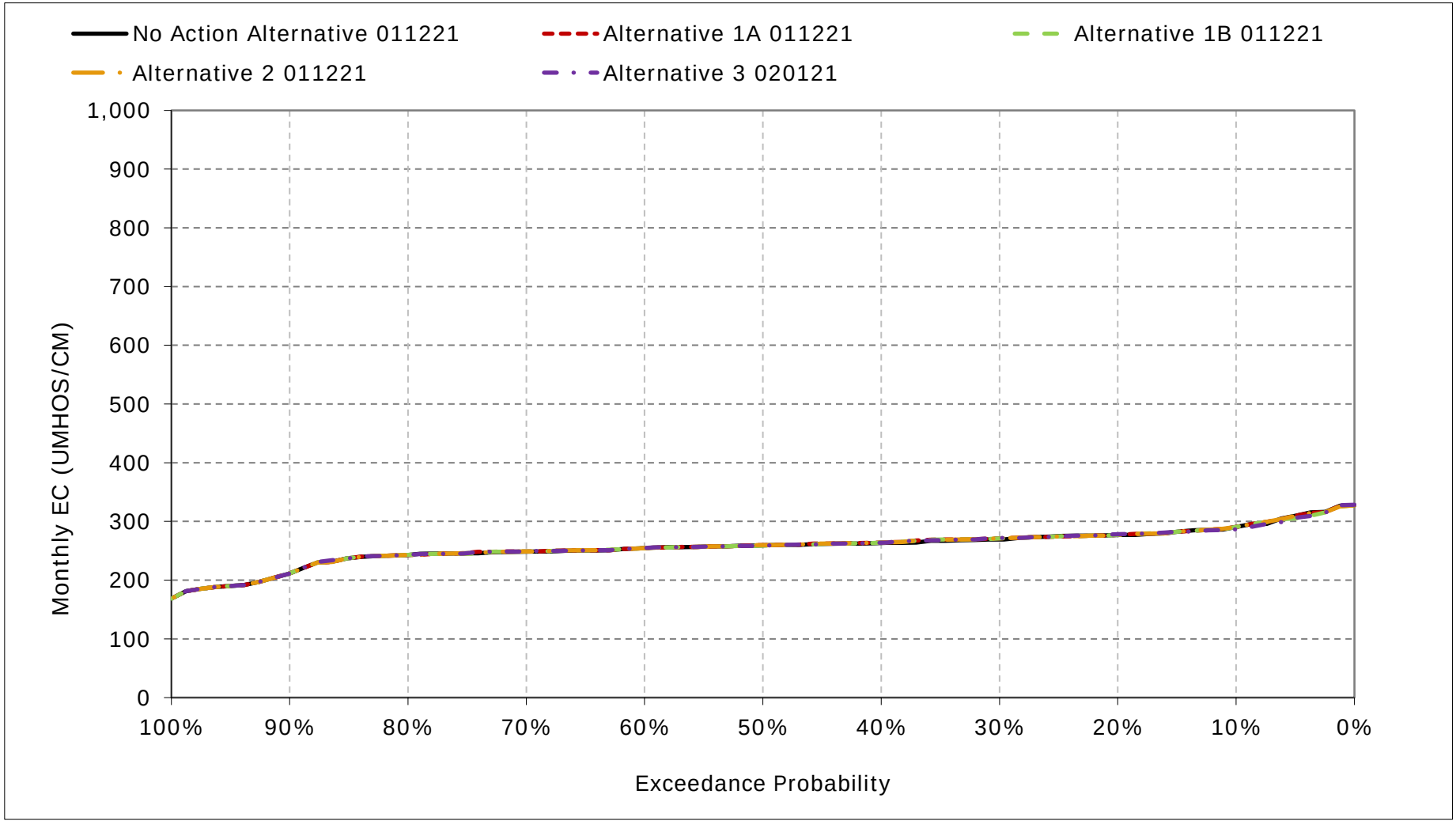
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-10. San Joaquin River at Prisoners Point Salinity, April EC



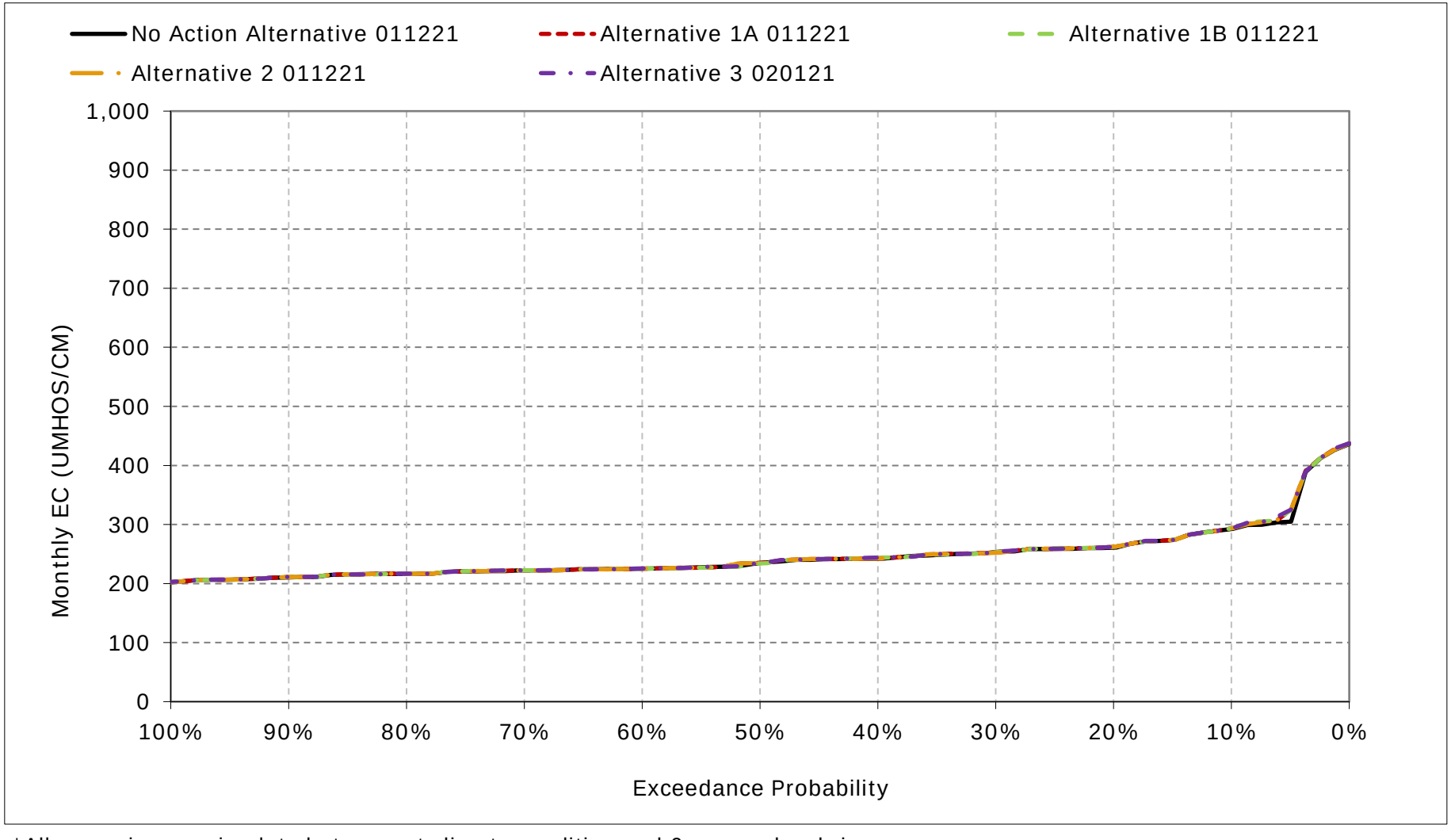
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-11. San Joaquin River at Prisoners Point Salinity, May EC



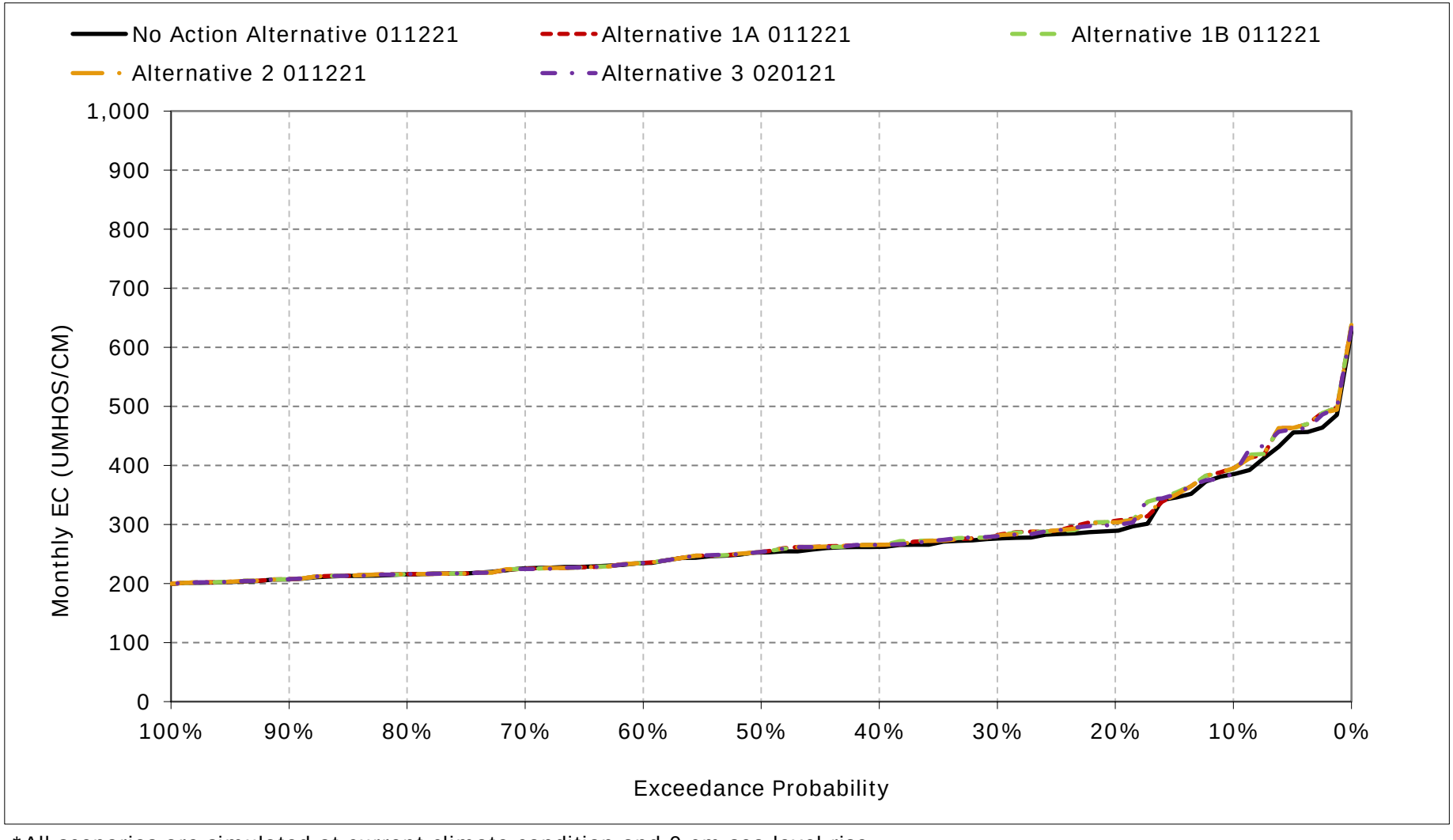
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-12. San Joaquin River at Prisoners Point Salinity, June EC



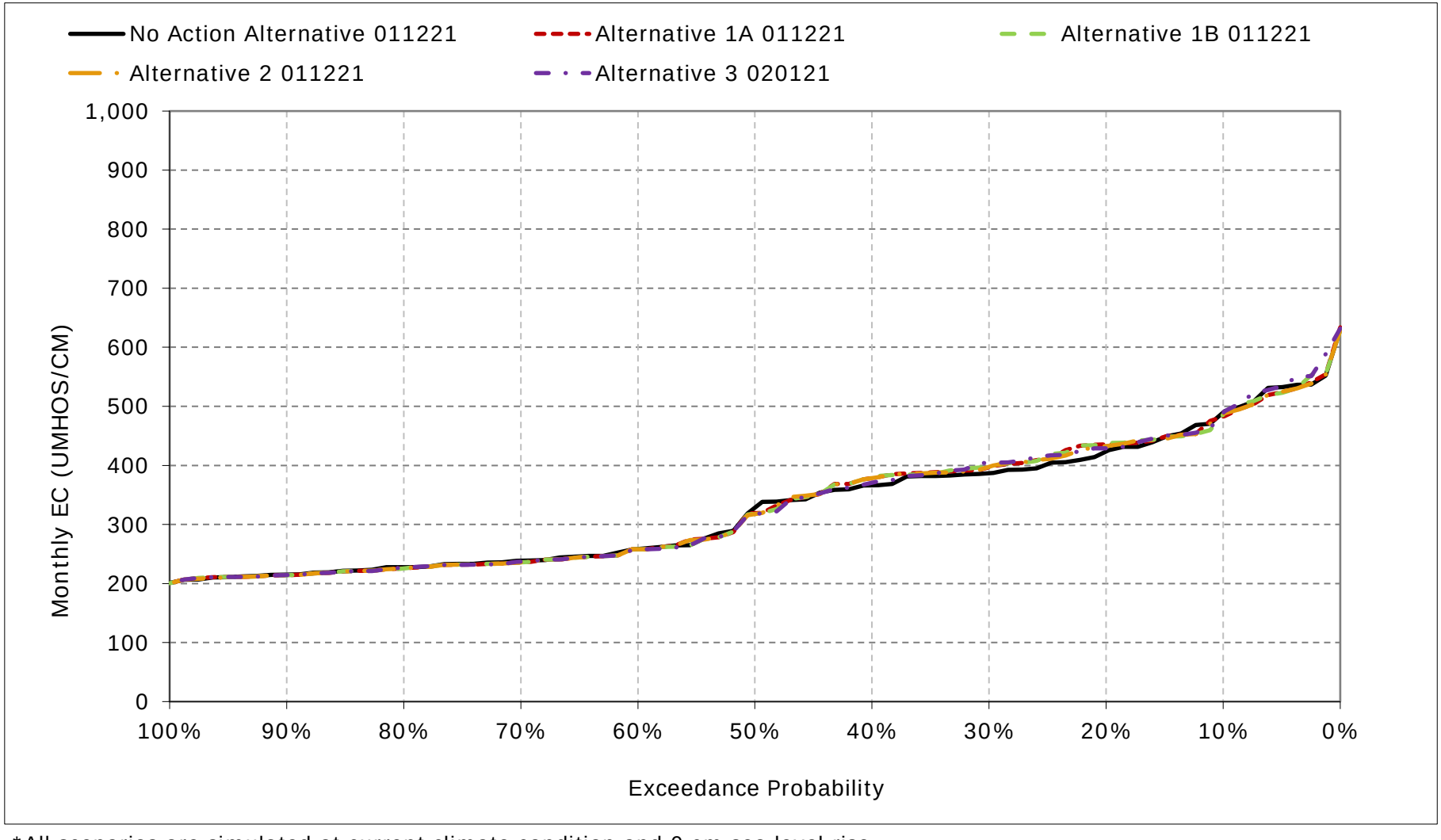
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-13. San Joaquin River at Prisoners Point Salinity, July EC



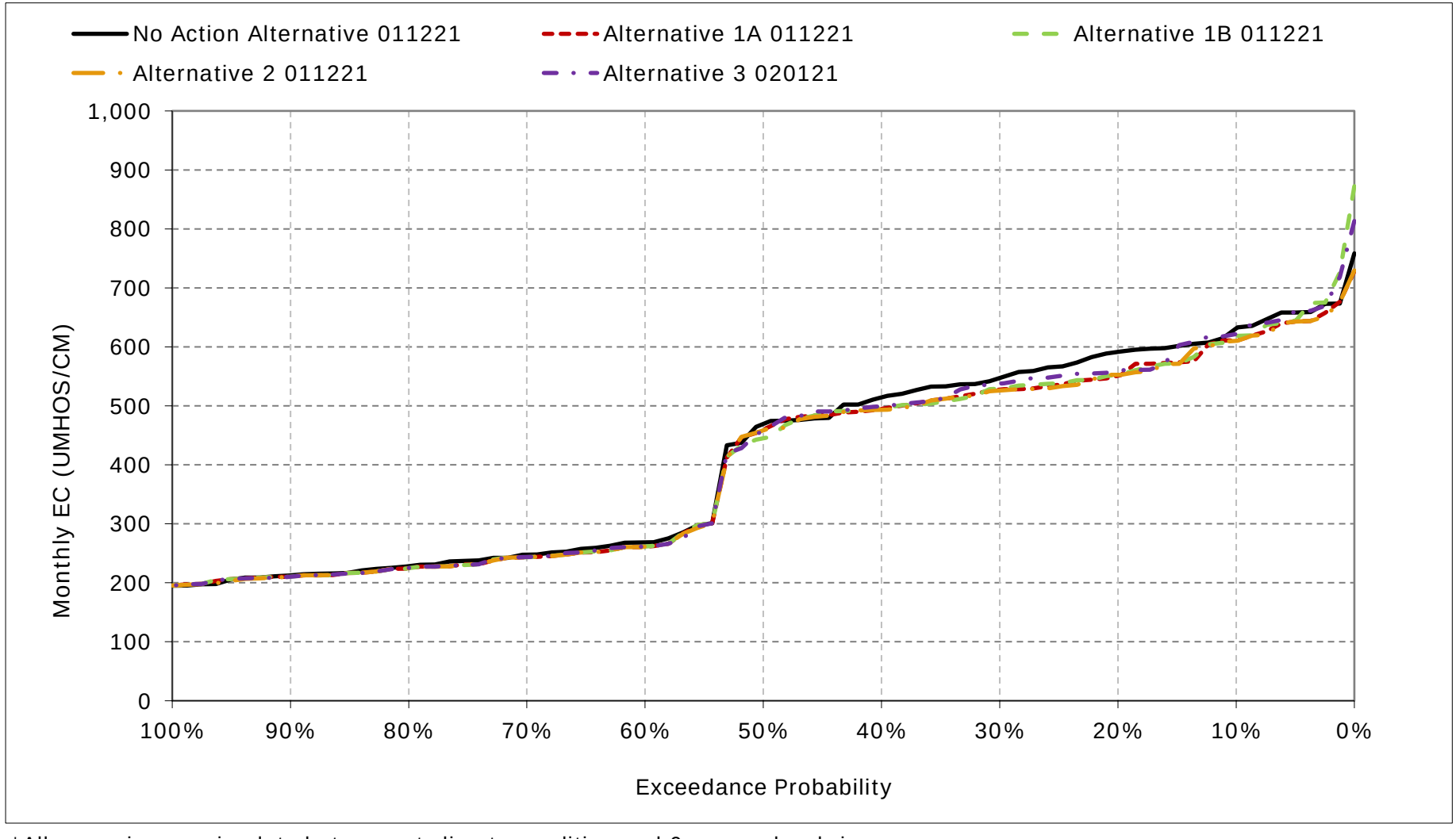
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-14. San Joaquin River at Prisoners Point Salinity, August EC



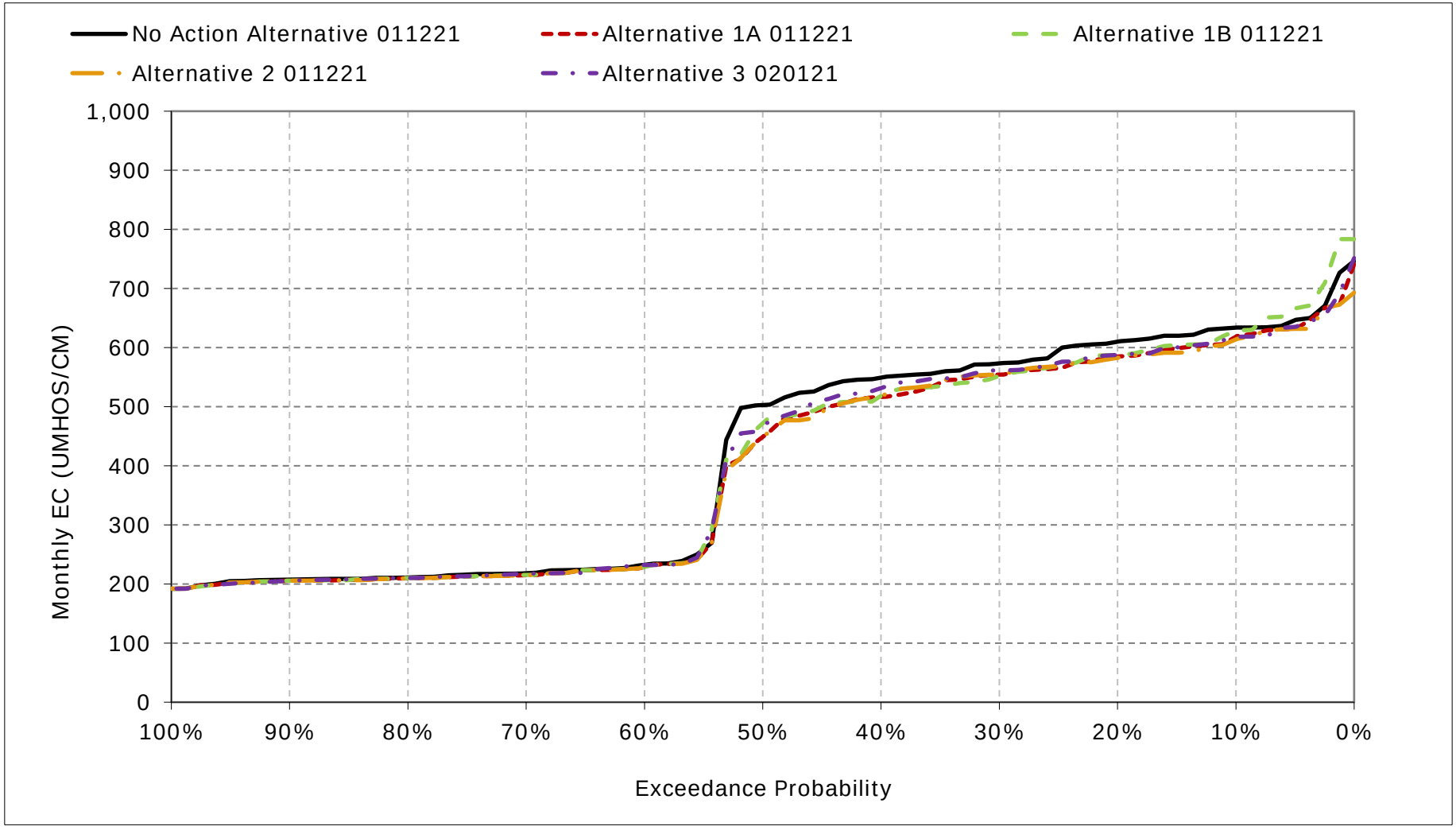
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-15. San Joaquin River at Prisoners Point Salinity, September EC



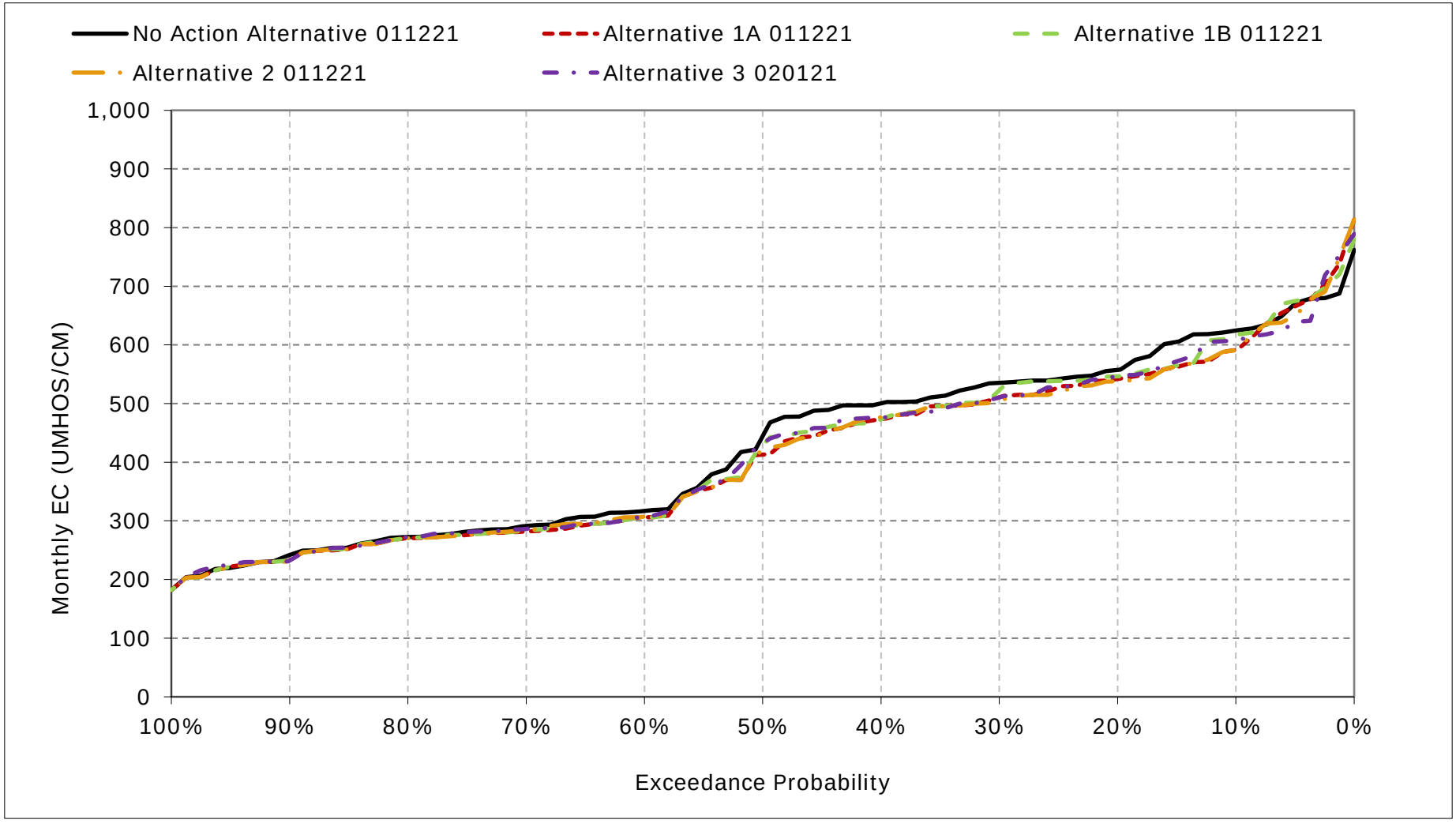
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-16. San Joaquin River at Prisoners Point Salinity, October EC



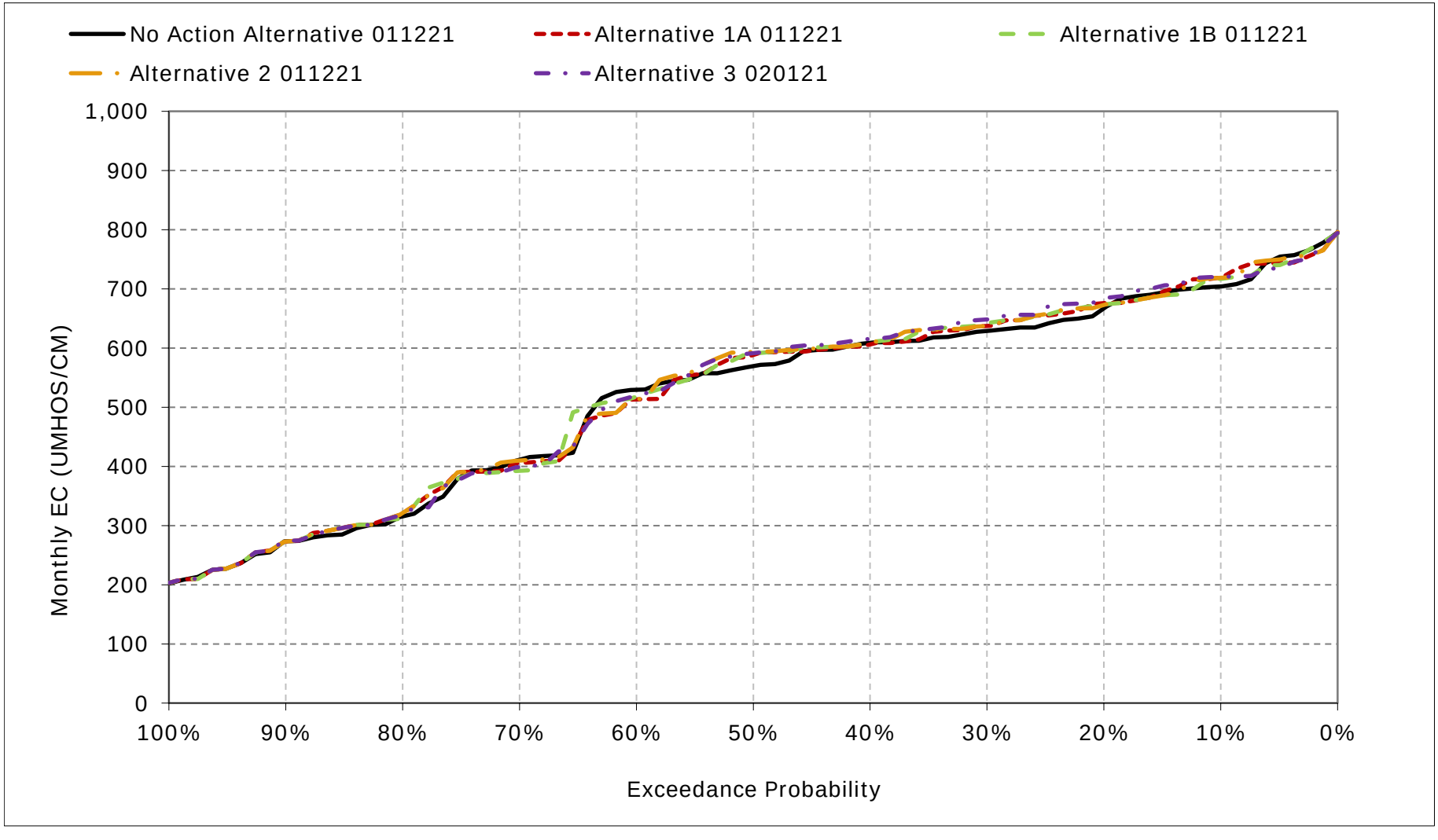
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-17. San Joaquin River at Prisoners Point Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-14-18. San Joaquin River at Prisoners Point Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-15-1a. Old River at Rock Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	906	867	930	998	543	372	332	285	291	507	668	864
20%	878	775	879	897	480	341	317	275	270	365	568	825
30%	831	729	826	793	405	308	299	268	254	340	512	750
40%	791	689	784	588	378	299	292	263	243	302	479	692
50%	710	605	741	489	352	284	285	256	237	275	418	640
60%	257	398	682	389	311	268	277	252	232	248	316	347
70%	240	354	516	345	298	260	271	246	229	240	282	309
80%	229	316	368	309	275	252	257	243	226	229	260	274
90%	219	262	290	277	264	242	247	225	218	221	235	236
Long Term												
Full Simulation Period[a]	562	559	663	579	377	296	286	260	260	319	422	550
Water Year Types[b]												
Wet (32%)	232	328	553	361	339	298	275	237	230	234	258	272
Above Normal (15%)	241	363	676	570	360	300	285	253	232	242	288	315
Below Normal (17%)	850	711	651	636	340	279	297	263	234	306	498	839
Dry (22%)	811	743	677	677	394	283	288	270	253	385	555	711
Critical (15%)	890	802	878	844	491	325	298	298	390	499	620	807

Table 6B1-15-1b. Old River at Rock Slough, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	876	818	954	1,004	552	378	333	289	290	529	651	849
20%	829	733	875	895	499	344	314	274	271	382	583	771
30%	796	688	830	823	411	310	299	269	253	344	529	728
40%	736	636	786	644	389	300	293	263	243	307	497	686
50%	617	551	756	507	354	286	286	258	237	276	409	629
60%	253	370	672	396	311	270	278	252	234	248	314	335
70%	234	340	508	341	302	261	272	246	229	240	279	300
80%	224	313	387	318	278	252	259	243	226	230	257	267
90%	216	257	291	277	264	242	247	228	218	221	233	234
Long Term												
Full Simulation Period[a]	535	533	666	589	380	298	288	261	260	326	424	531
Water Year Types[b]												
Wet (32%)	228	317	561	363	339	298	275	237	230	234	256	266
Above Normal (15%)	237	359	676	608	363	300	286	253	233	243	285	308
Below Normal (17%)	778	704	657	642	345	281	298	264	235	305	473	755
Dry (22%)	774	727	682	686	398	284	290	271	254	407	581	686
Critical (15%)	857	682	871	852	502	333	302	299	394	514	636	832

Table 6B1-15-1c. Old River at Rock Slough, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-30	-49	24	6	8	7	1	3	-1	22	-17	-15
20%	-49	-42	-4	-2	19	3	-3	0	1	18	16	-53
30%	-34	-41	4	30	6	3	1	1	-1	4	17	-22
40%	-55	-53	2	56	11	1	1	0	0	5	18	-6
50%	-93	-54	15	18	2	2	1	2	0	1	-10	-11
60%	-4	-28	-10	7	0	2	1	0	2	0	-1	-13
70%	-6	-14	-8	-3	4	1	1	0	0	1	-3	-8
80%	-5	-2	20	9	3	1	2	0	0	0	-2	-7
90%	-3	-5	1	0	0	0	0	3	0	0	-2	-2
Long Term												
Full Simulation Period[a]	-27	-26	4	10	4	2	1	1	1	7	3	-19
Water Year Types[b]												
Wet (32%)	-4	-11	8	2	0	0	0	0	0	0	-2	-6
Above Normal (15%)	-3	-4	0	38	4	0	0	0	0	0	-3	-7
Below Normal (17%)	-72	-6	6	5	5	2	1	0	1	-1	-26	-84
Dry (22%)	-37	-16	5	9	4	1	2	1	0	22	26	-25
Critical (15%)	-33	-120	-7	8	11	8	4	2	4	15	16	25

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-15-2a. Old River at Rock Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	906	867	930	998	543	372	332	285	291	507	668	864
20%	878	775	879	897	480	341	317	275	270	365	568	825
30%	831	729	826	793	405	308	299	268	254	340	512	750
40%	791	689	784	588	378	299	292	263	243	302	479	692
50%	710	605	741	489	352	284	285	256	237	275	418	640
60%	257	398	682	389	311	268	277	252	232	248	316	347
70%	240	354	516	345	298	260	271	246	229	240	282	309
80%	229	316	368	309	275	252	257	243	226	229	260	274
90%	219	262	290	277	264	242	247	225	218	221	235	236
Long Term												
Full Simulation Period[a]	562	559	663	579	377	296	286	260	260	319	422	550
Water Year Types[b]												
Wet (32%)	232	328	553	361	339	298	275	237	230	234	258	272
Above Normal (15%)	241	363	676	570	360	300	285	253	232	242	288	315
Below Normal (17%)	850	711	651	636	340	279	297	263	234	306	498	839
Dry (22%)	811	743	677	677	394	283	288	270	253	385	555	711
Critical (15%)	890	802	878	844	491	325	298	298	390	499	620	807

Table 6B1-15-2b. Old River at Rock Slough, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	894	838	938	1,004	542	369	334	290	290	527	656	849
20%	829	743	879	894	499	344	314	274	270	381	585	773
30%	797	707	836	823	412	310	299	269	253	345	525	727
40%	743	644	791	658	389	300	292	263	243	306	494	688
50%	655	575	756	502	351	284	285	258	237	276	407	607
60%	253	370	687	395	311	270	278	252	234	248	314	335
70%	235	342	500	341	301	261	272	246	229	240	279	301
80%	226	313	387	318	277	252	259	243	226	230	257	267
90%	216	259	289	277	265	242	247	228	218	221	233	234
Long Term												
Full Simulation Period[a]	543	538	668	590	380	297	288	260	260	327	424	533
Water Year Types[b]												
Wet (32%)	228	318	561	366	340	298	275	237	230	234	256	266
Above Normal (15%)	240	364	675	608	363	300	288	253	233	243	285	309
Below Normal (17%)	777	701	651	643	345	281	298	264	235	305	470	751
Dry (22%)	790	744	694	683	397	284	289	270	253	410	584	690
Critical (15%)	884	692	875	856	500	331	300	299	394	514	635	846

Table 6B1-15-2c. Old River at Rock Slough, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-12	-29	7	6	-1	-2	3	5	-1	21	-12	-15
20%	-49	-32	0	-3	19	2	-3	0	1	16	17	-52
30%	-34	-22	10	30	7	2	0	1	-1	5	13	-24
40%	-48	-44	7	71	11	1	0	0	0	5	15	-4
50%	-56	-30	15	13	-2	0	1	2	0	1	-12	-33
60%	-4	-28	5	6	0	2	0	0	2	0	-1	-12
70%	-5	-12	-15	-4	3	1	1	0	0	1	-3	-8
80%	-3	-2	20	9	2	0	2	0	0	0	-2	-7
90%	-3	-4	-1	0	0	0	0	3	0	0	-2	-2
Long Term												
Full Simulation Period[a]	-19	-20	6	11	3	2	1	0	1	8	3	-16
Water Year Types[b]												
Wet (32%)	-4	-10	8	5	0	0	0	0	0	0	-2	-6
Above Normal (15%)	0	1	-1	38	4	0	2	0	0	0	-3	-6
Below Normal (17%)	-73	-10	0	7	5	2	1	0	1	-1	-29	-87
Dry (22%)	-21	1	17	5	3	1	2	0	0	25	29	-21
Critical (15%)	-7	-110	-4	12	9	6	2	1	4	15	15	39

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-15-3a. Old River at Rock Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	906	867	930	998	543	372	332	285	291	507	668	864
20%	878	775	879	897	480	341	317	275	270	365	568	825
30%	831	729	826	793	405	308	299	268	254	340	512	750
40%	791	689	784	588	378	299	292	263	243	302	479	692
50%	710	605	741	489	352	284	285	256	237	275	418	640
60%	257	398	682	389	311	268	277	252	232	248	316	347
70%	240	354	516	345	298	260	271	246	229	240	282	309
80%	229	316	368	309	275	252	257	243	226	229	260	274
90%	219	262	290	277	264	242	247	225	218	221	235	236
Long Term												
Full Simulation Period[a]	562	559	663	579	377	296	286	260	260	319	422	550
Water Year Types[b]												
Wet (32%)	232	328	553	361	339	298	275	237	230	234	258	272
Above Normal (15%)	241	363	676	570	360	300	285	253	232	242	288	315
Below Normal (17%)	850	711	651	636	340	279	297	263	234	306	498	839
Dry (22%)	811	743	677	677	394	283	288	270	253	385	555	711
Critical (15%)	890	802	878	844	491	325	298	298	390	499	620	807

Table 6B1-15-3b. Old River at Rock Slough, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	873	818	955	1,004	542	368	333	289	290	528	656	846
20%	832	734	879	895	500	344	314	274	271	380	579	769
30%	799	693	837	821	411	311	300	268	253	344	530	725
40%	745	639	791	680	389	300	292	263	243	307	497	683
50%	617	561	763	507	354	284	286	258	237	276	406	621
60%	253	382	682	397	314	270	278	252	234	248	314	335
70%	234	341	519	341	302	261	272	246	229	240	279	300
80%	224	313	387	318	277	252	259	243	226	230	257	267
90%	216	257	292	277	265	242	247	228	218	221	233	231
Long Term												
Full Simulation Period[a]	535	533	670	591	380	297	287	261	260	326	424	529
Water Year Types[b]												
Wet (32%)	228	320	562	363	339	298	275	237	230	234	256	265
Above Normal (15%)	237	359	676	609	363	300	286	253	233	243	285	307
Below Normal (17%)	773	702	658	651	346	281	298	264	235	305	473	752
Dry (22%)	775	722	695	684	398	284	290	271	254	407	582	689
Critical (15%)	858	688	872	857	500	331	301	299	394	513	631	822

Table 6B1-15-3c. Old River at Rock Slough, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-33	-49	25	6	-1	-3	1	3	-1	22	-11	-18
20%	-46	-41	0	-2	19	3	-3	0	1	16	11	-56
30%	-31	-36	11	28	6	3	1	0	-1	4	18	-26
40%	-47	-50	7	93	11	1	0	0	0	5	18	-9
50%	-93	-44	22	18	2	0	1	1	0	1	-12	-19
60%	-4	-16	0	7	3	2	1	0	2	0	-1	-13
70%	-6	-14	3	-3	4	1	1	0	0	1	-3	-8
80%	-5	-2	20	9	2	1	2	0	0	0	-2	-7
90%	-3	-6	2	0	0	0	0	3	0	0	-2	-5
Long Term												
Full Simulation Period[a]	-28	-26	7	12	4	2	1	0	1	7	2	-20
Water Year Types[b]												
Wet (32%)	-5	-8	9	2	0	0	0	0	0	0	-2	-6
Above Normal (15%)	-3	-4	0	39	4	0	0	0	0	0	-3	-8
Below Normal (17%)	-77	-8	6	15	6	2	1	0	1	-1	-26	-87
Dry (22%)	-35	-21	18	7	4	1	2	1	0	22	27	-22
Critical (15%)	-32	-114	-6	13	9	6	3	1	4	14	11	15

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-15-4a. Old River at Rock Slough, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	906	867	930	998	543	372	332	285	291	507	668	864
20%	878	775	879	897	480	341	317	275	270	365	568	825
30%	831	729	826	793	405	308	299	268	254	340	512	750
40%	791	689	784	588	378	299	292	263	243	302	479	692
50%	710	605	741	489	352	284	285	256	237	275	418	640
60%	257	398	682	389	311	268	277	252	232	248	316	347
70%	240	354	516	345	298	260	271	246	229	240	282	309
80%	229	316	368	309	275	252	257	243	226	229	260	274
90%	219	262	290	277	264	242	247	225	218	221	235	236
Long Term												
Full Simulation Period[a]	562	559	663	579	377	296	286	260	260	319	422	550
Water Year Types[b]												
Wet (32%)	232	328	553	361	339	298	275	237	230	234	258	272
Above Normal (15%)	241	363	676	570	360	300	285	253	232	242	288	315
Below Normal (17%)	850	711	651	636	340	279	297	263	234	306	498	839
Dry (22%)	811	743	677	677	394	283	288	270	253	385	555	711
Critical (15%)	890	802	878	844	491	325	298	298	390	499	620	807

Table 6B1-15-4b. Old River at Rock Slough, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	903	827	948	1,002	544	383	334	286	290	509	658	854
20%	829	745	884	891	499	341	314	274	273	375	570	772
30%	812	689	848	813	417	309	299	269	254	345	537	741
40%	759	648	794	671	384	300	293	263	244	307	479	692
50%	672	595	767	514	357	285	286	257	238	276	406	624
60%	262	372	682	394	313	272	278	252	234	249	313	335
70%	239	342	513	337	301	260	272	246	229	240	281	301
80%	226	316	383	317	278	251	259	243	226	230	257	267
90%	216	261	290	277	264	242	247	232	218	221	233	233
Long Term												
Full Simulation Period[a]	545	538	671	591	379	297	288	260	261	326	425	539
Water Year Types[b]												
Wet (32%)	229	318	562	361	340	298	275	238	230	234	256	266
Above Normal (15%)	244	370	666	606	365	301	287	253	233	243	285	310
Below Normal (17%)	787	718	645	670	349	281	298	264	235	305	471	756
Dry (22%)	784	715	713	680	392	282	289	269	255	407	580	703
Critical (15%)	893	709	876	848	493	333	302	299	395	512	644	858

Table 6B1-15-4c. Old River at Rock Slough, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4	-40	18	4	0	11	3	1	-1	3	-10	-10
20%	-49	-30	5	-6	19	0	-2	0	4	11	3	-53
30%	-19	-40	22	19	11	1	1	1	0	6	25	-9
40%	-32	-41	10	83	7	1	1	0	1	5	0	1
50%	-38	-10	26	25	5	1	1	1	1	1	-13	-16
60%	5	-25	0	4	3	4	1	0	2	1	-3	-12
70%	-1	-13	-3	-8	4	0	0	0	0	1	-1	-7
80%	-3	1	16	8	3	0	2	0	0	0	-3	-7
90%	-4	-2	0	0	0	0	1	7	0	0	-2	-2
Long Term												
Full Simulation Period[a]	-17	-20	8	12	2	2	1	0	1	7	3	-11
Water Year Types[b]												
Wet (32%)	-4	-9	9	0	0	0	0	1	0	0	-2	-6
Above Normal (15%)	3	7	-10	36	6	1	2	0	0	1	-3	-5
Below Normal (17%)	-63	7	-6	34	9	2	1	0	1	-1	-28	-82
Dry (22%)	-27	-28	36	2	-2	-1	1	-1	1	22	25	-8
Critical (15%)	3	-93	-2	4	2	8	4	2	5	13	24	51

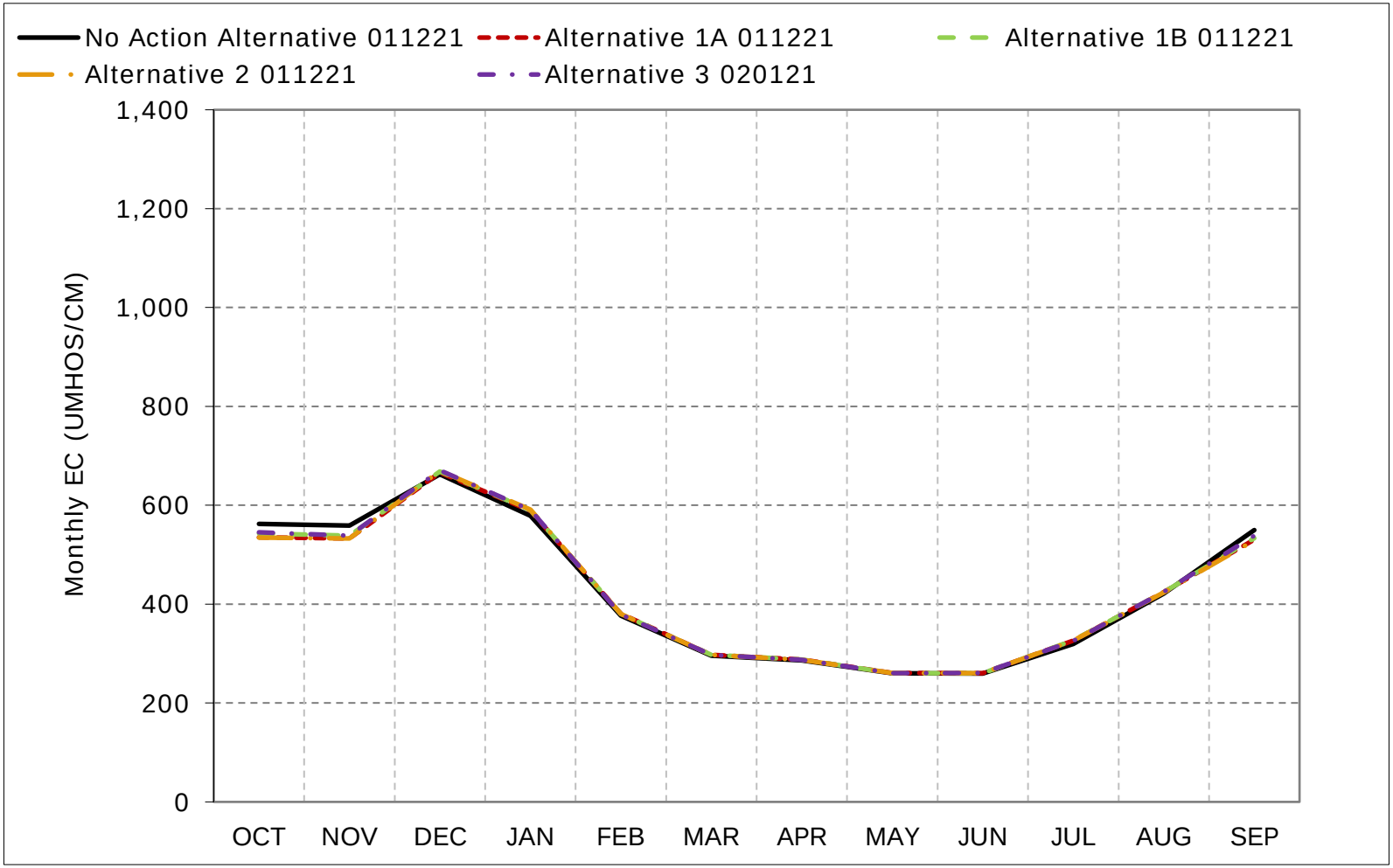
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-1. Old River at Rock Slough, Long-Term Average EC

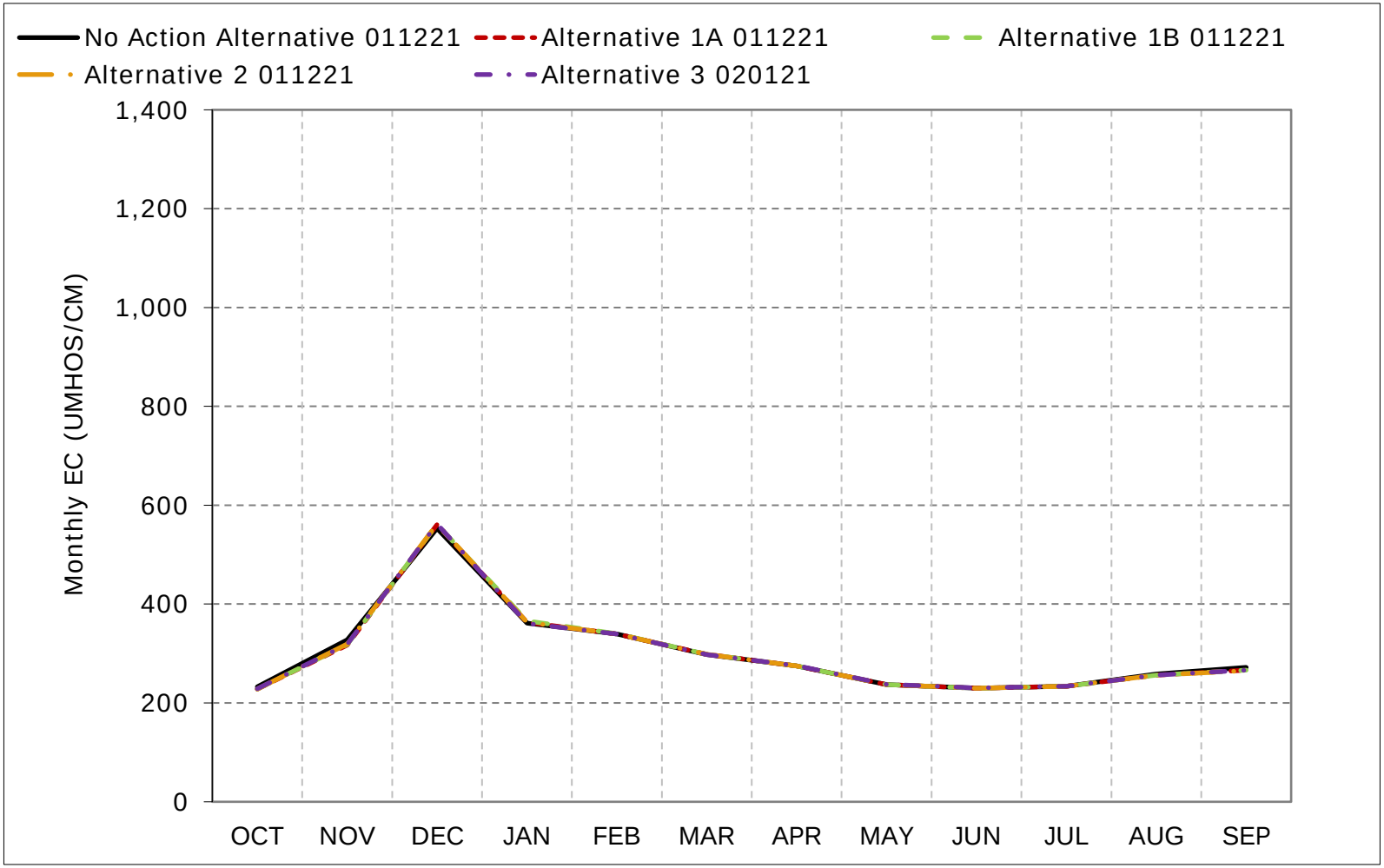


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-2. Old River at Rock Slough, Wet Year Average EC

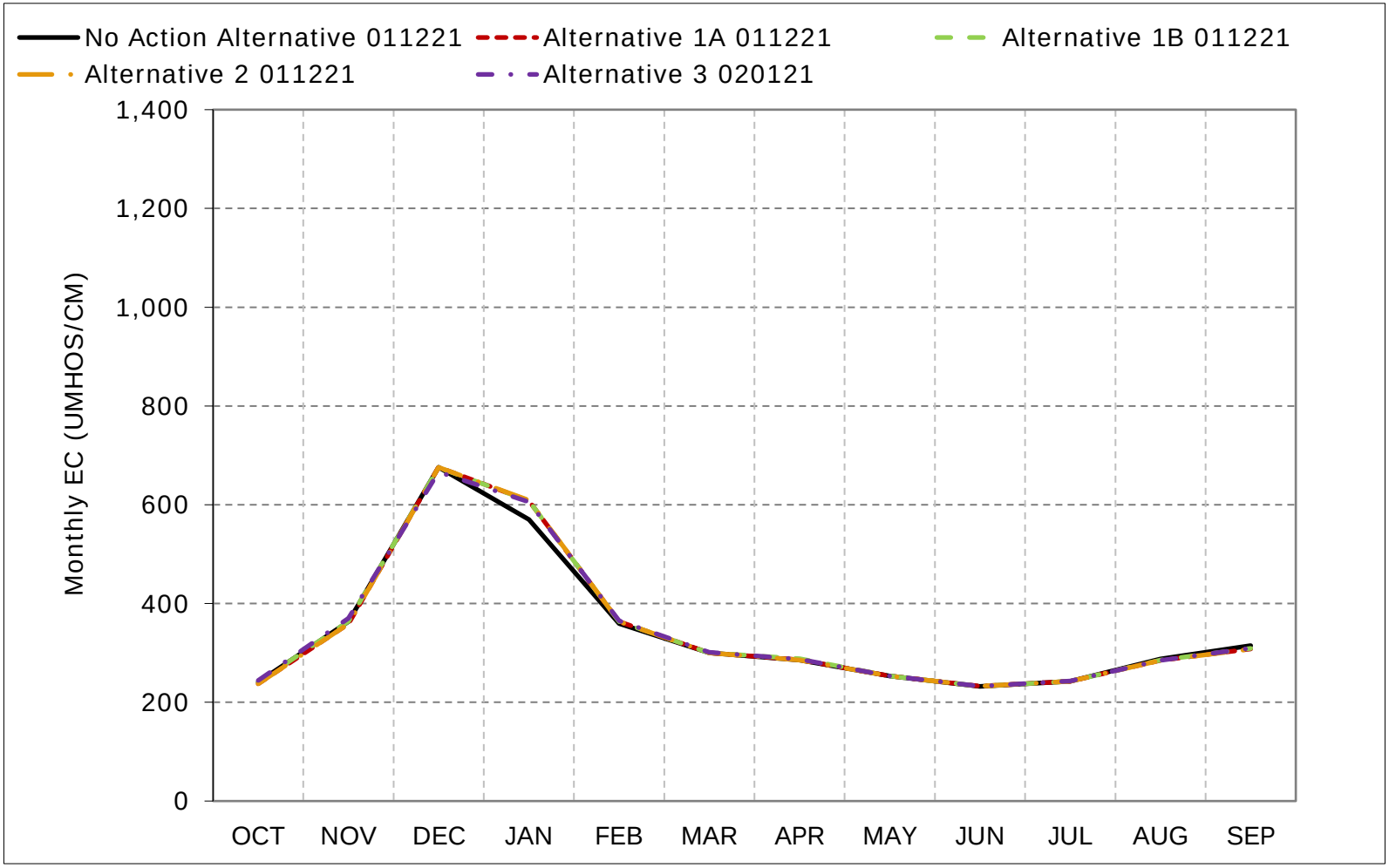


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-3. Old River at Rock Slough, Above Normal Year Average EC

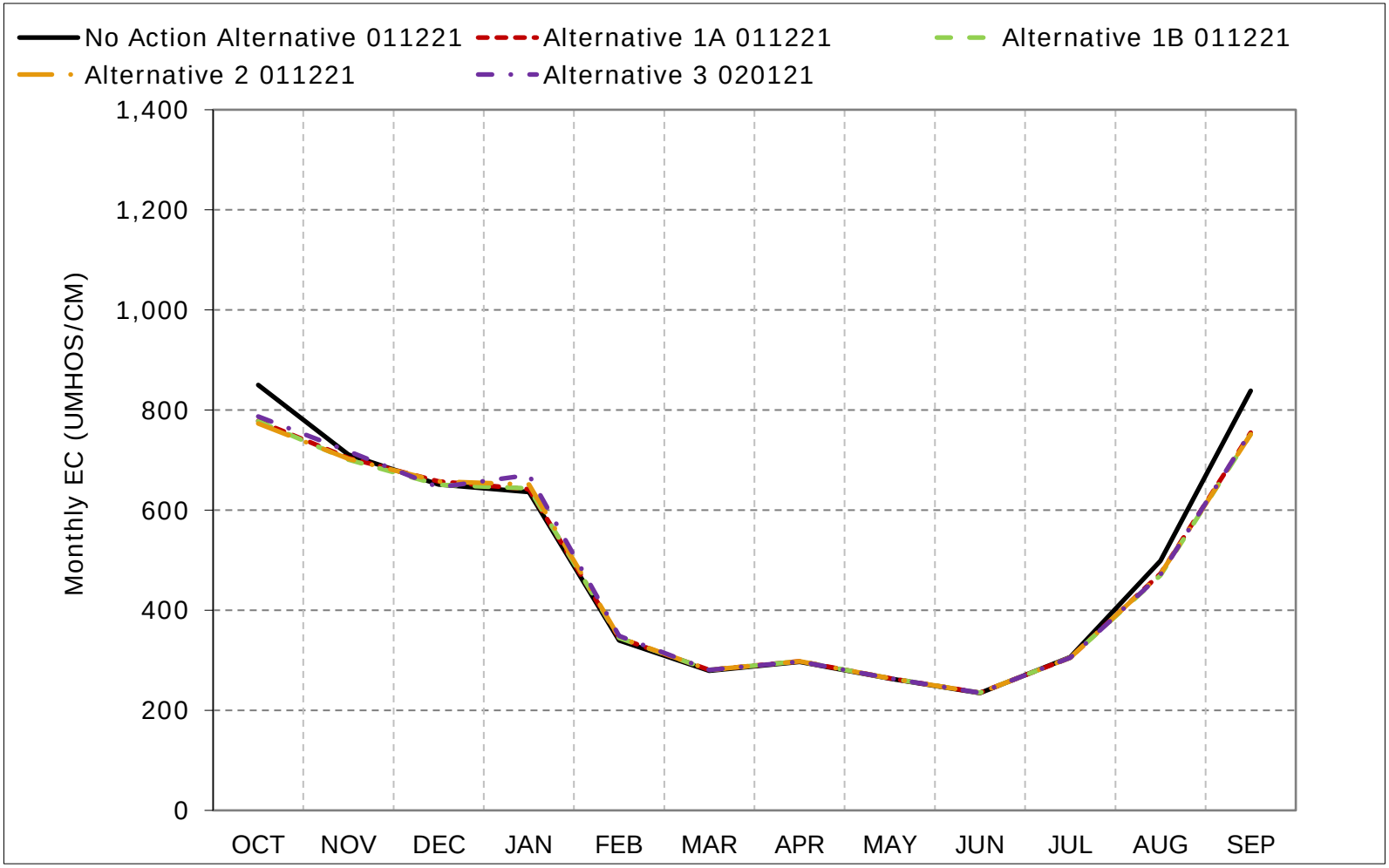


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-4. Old River at Rock Slough, Below Normal Year Average EC

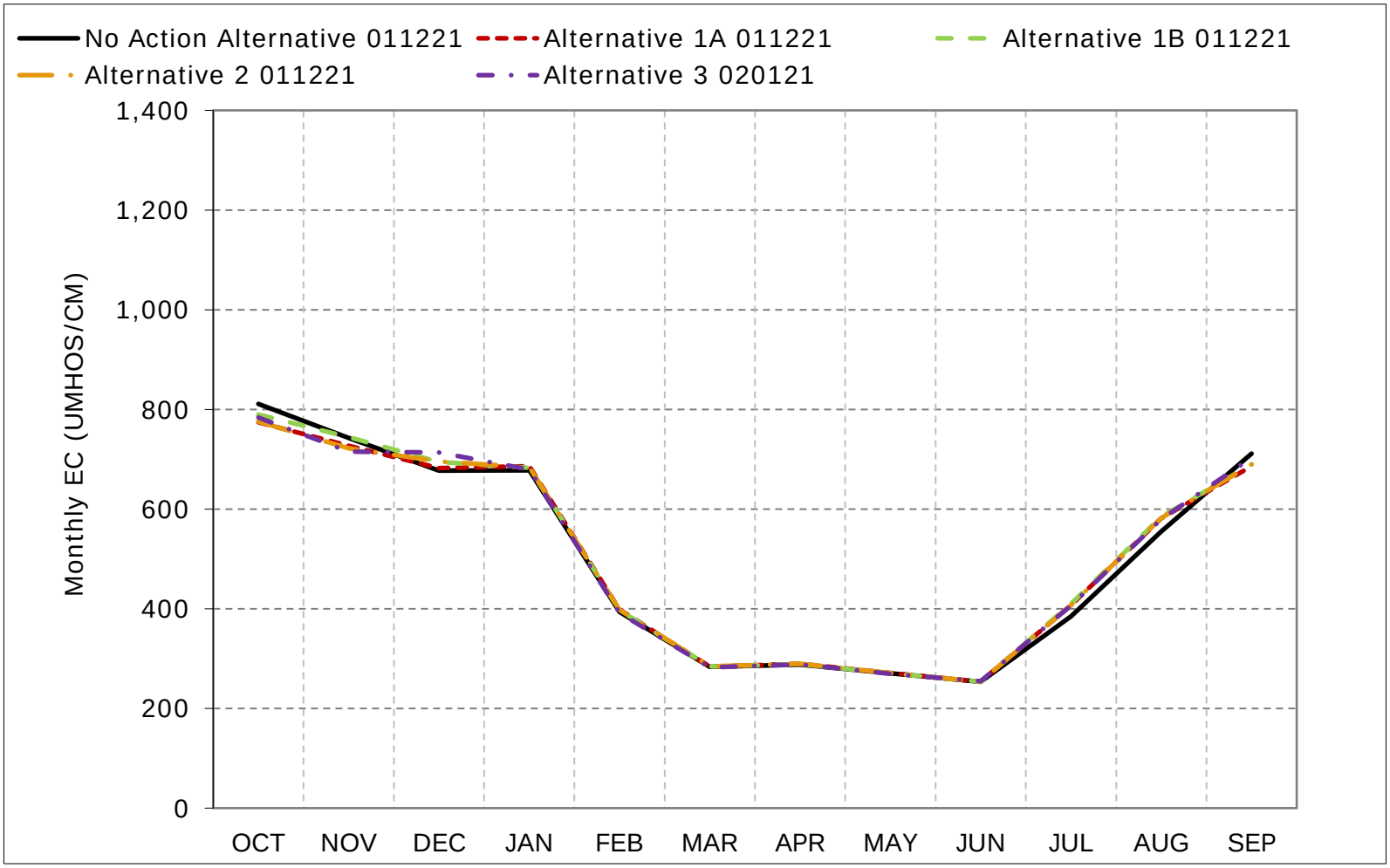


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-5. Old River at Rock Slough, Dry Year Average EC

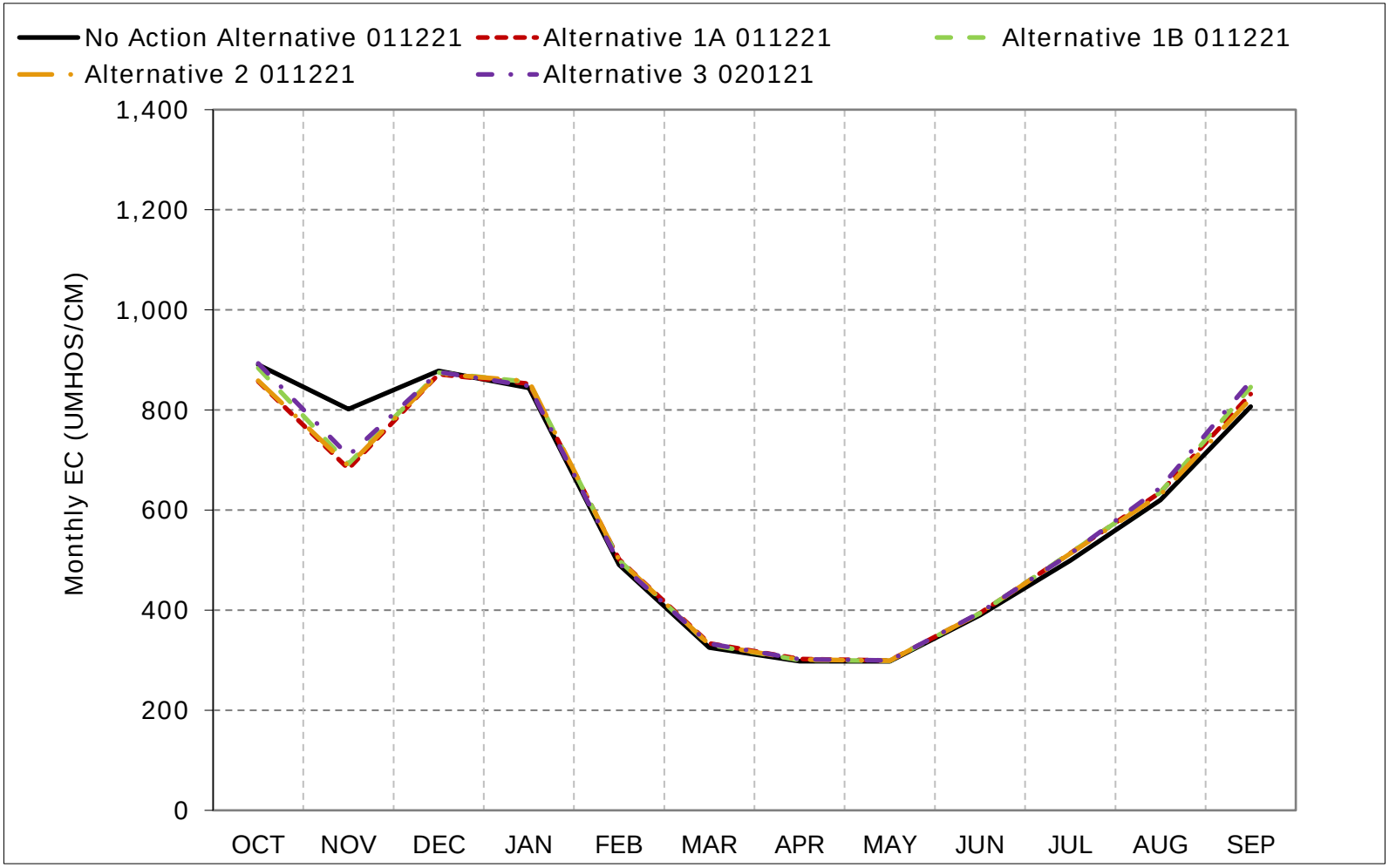


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-6. Old River at Rock Slough, Critical Year Average EC

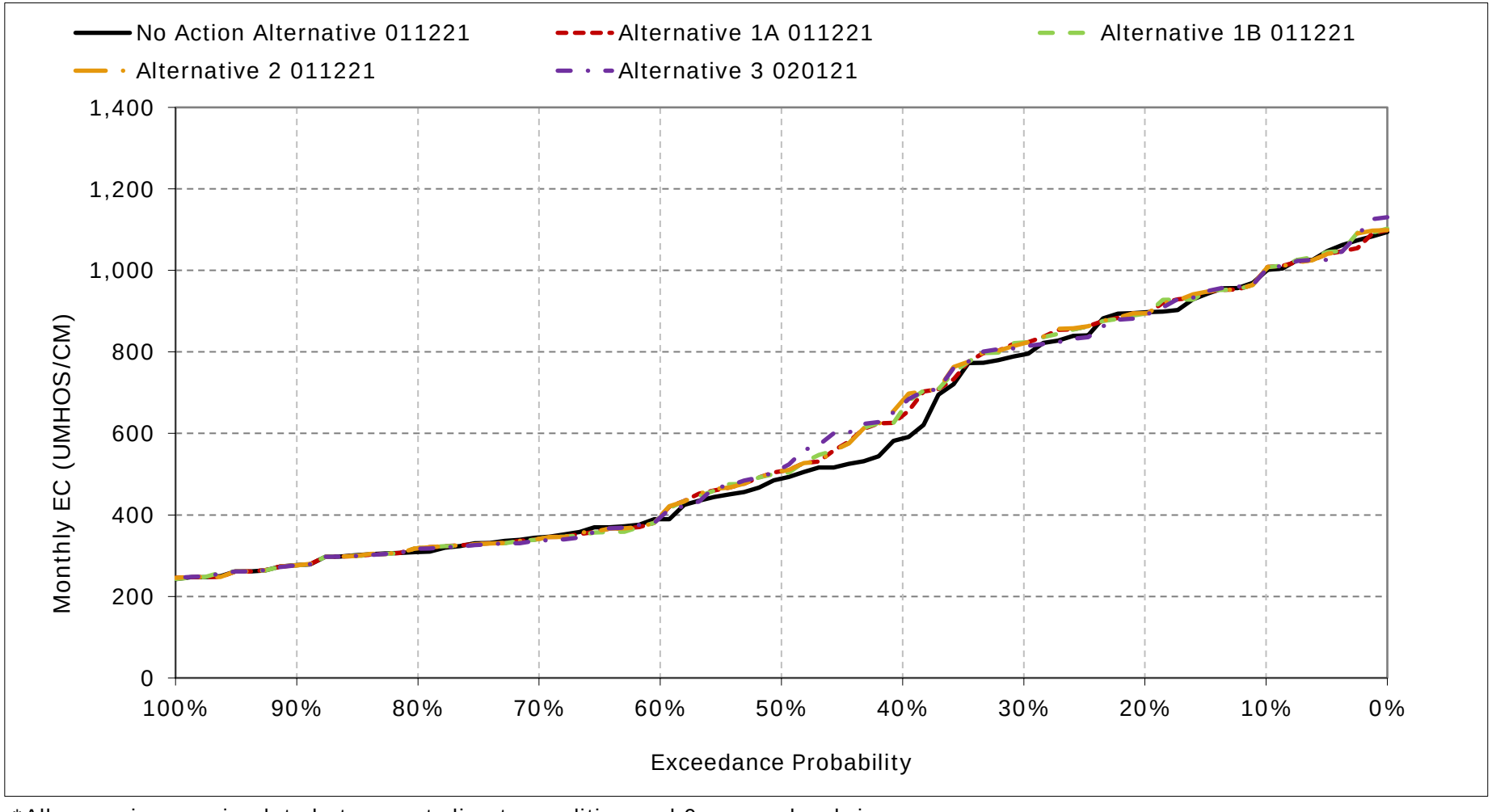


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

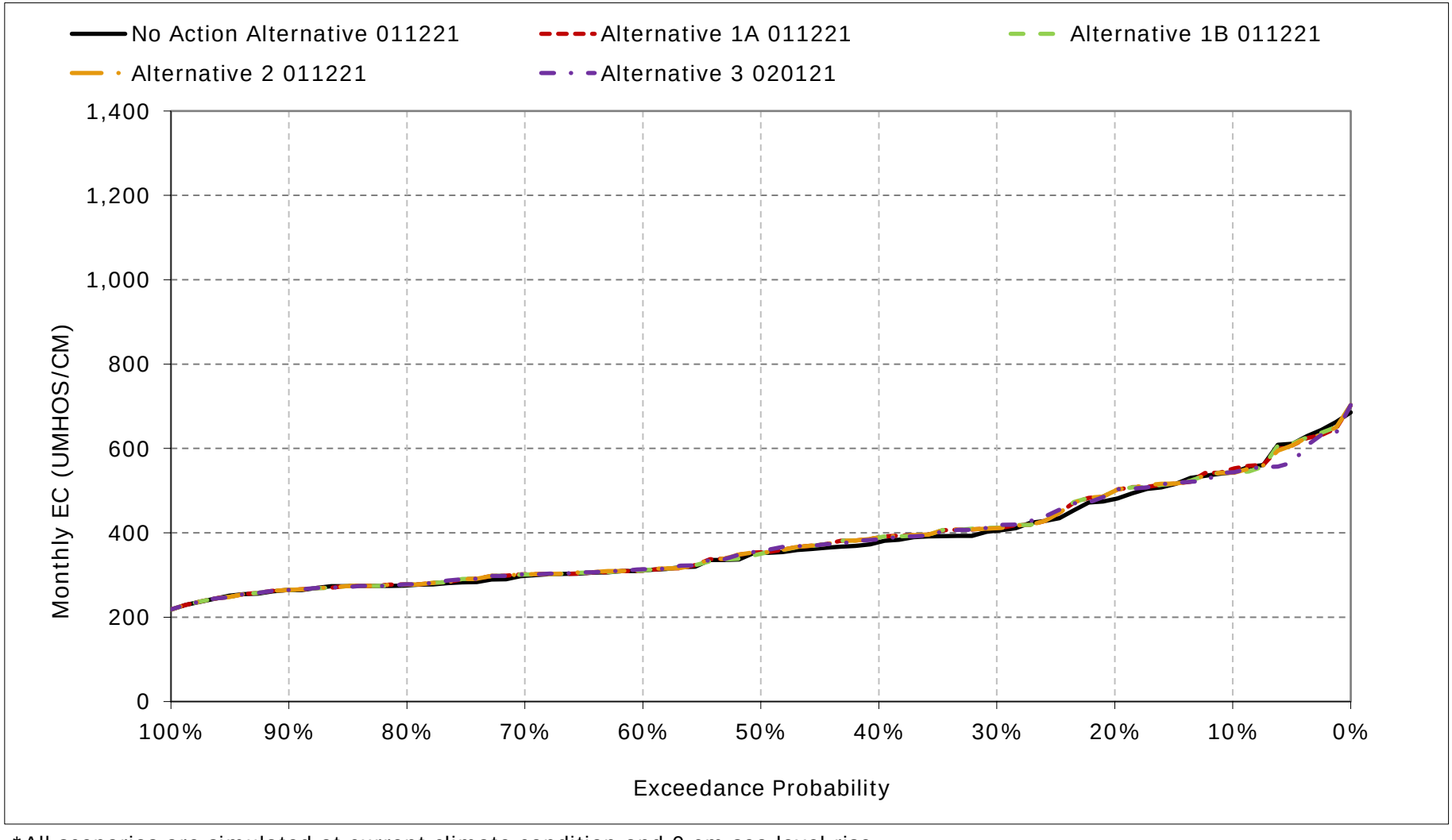
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-7. Old River at Rock Slough Salinity, January EC



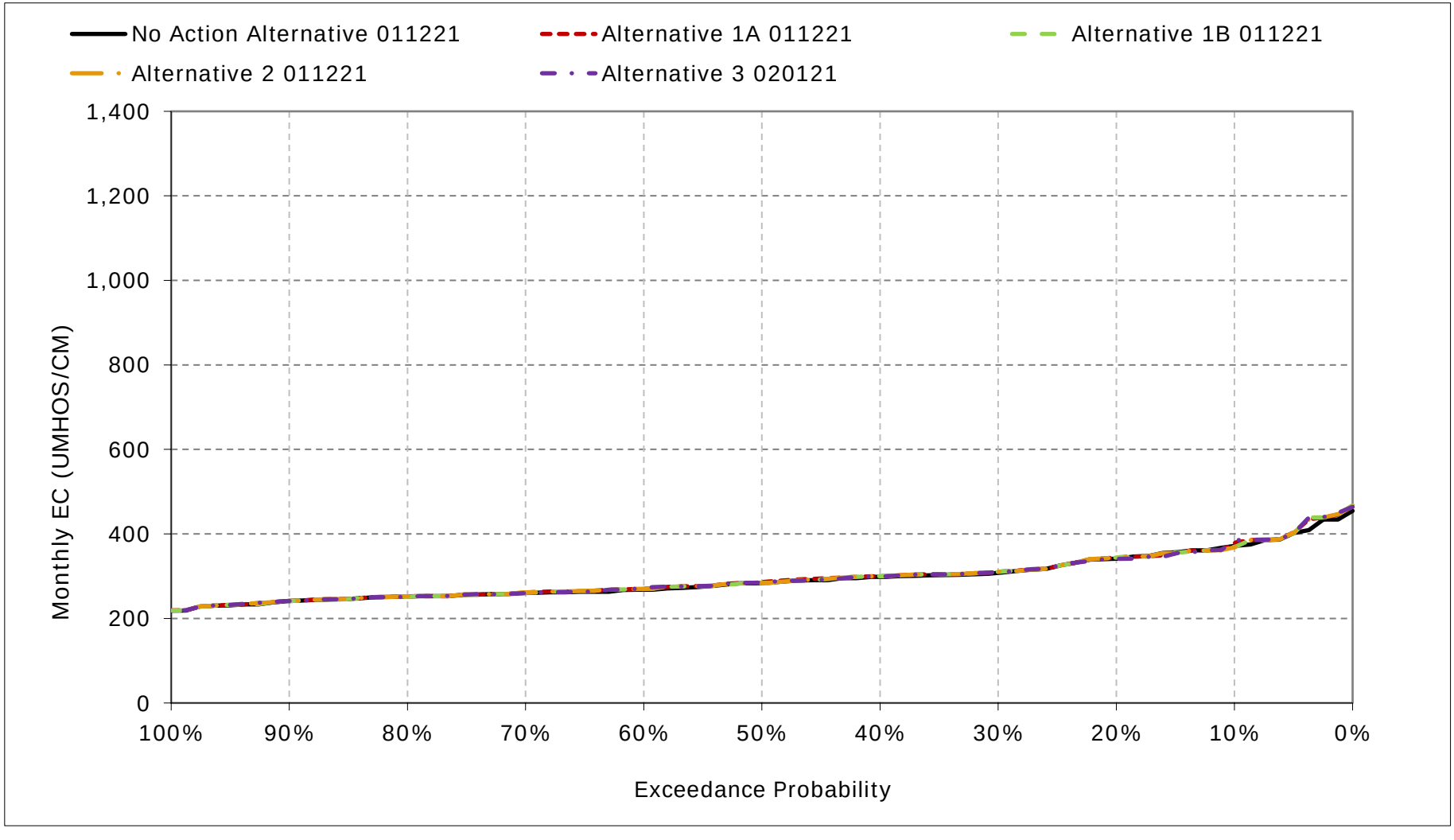
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-8. Old River at Rock Slough Salinity, February EC



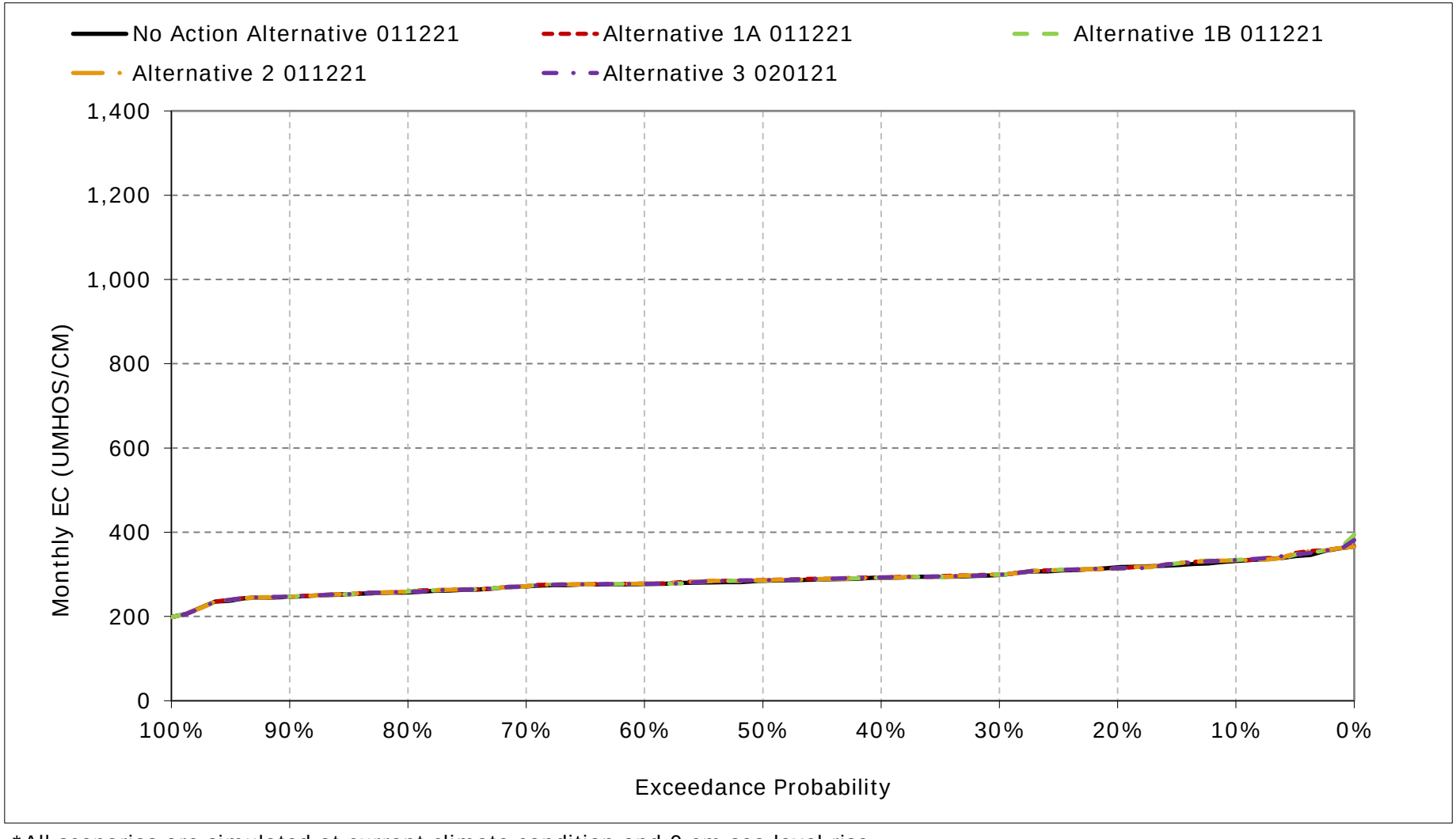
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-9. Old River at Rock Slough Salinity, March EC



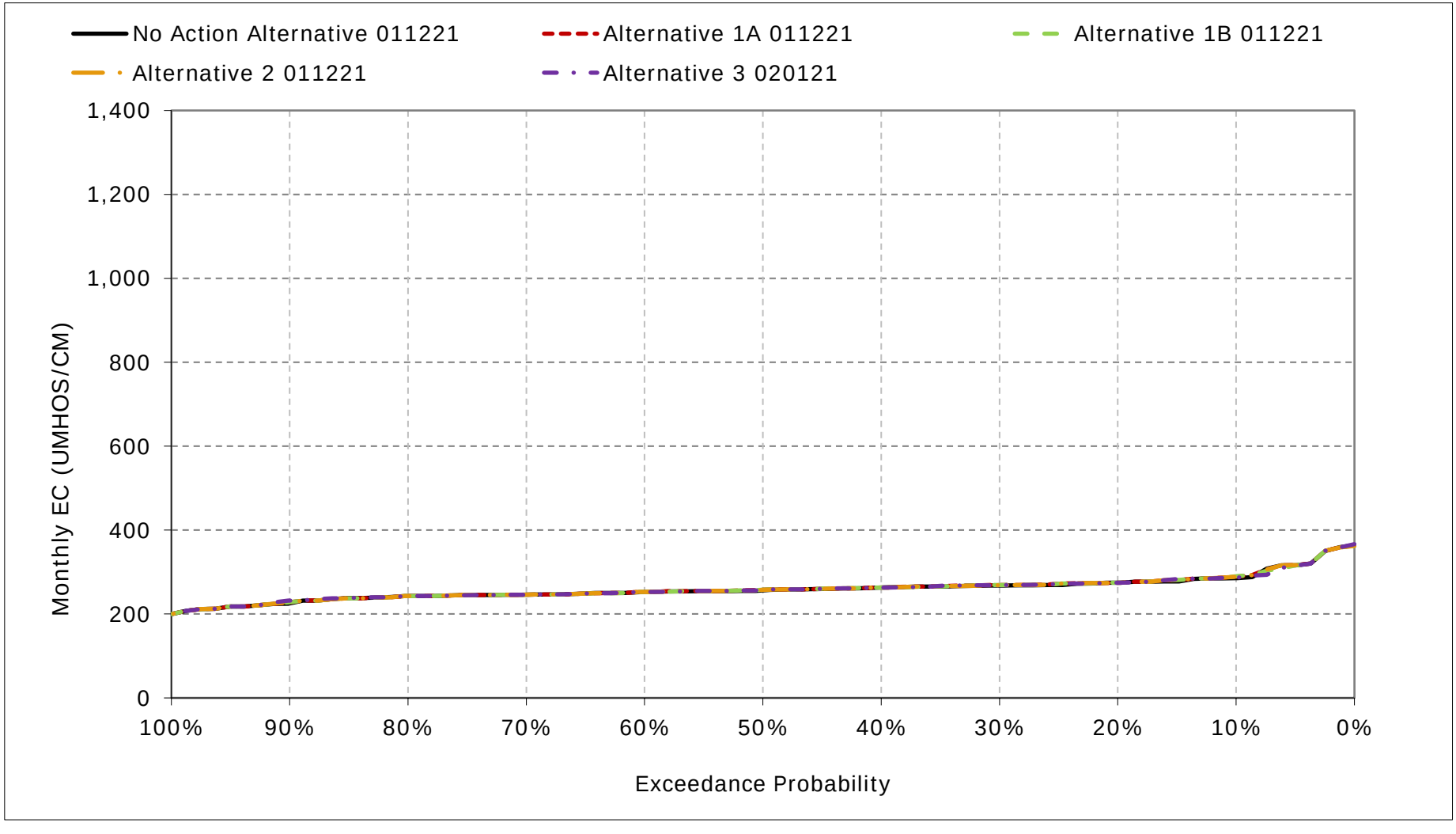
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-10. Old River at Rock Slough Salinity, April EC



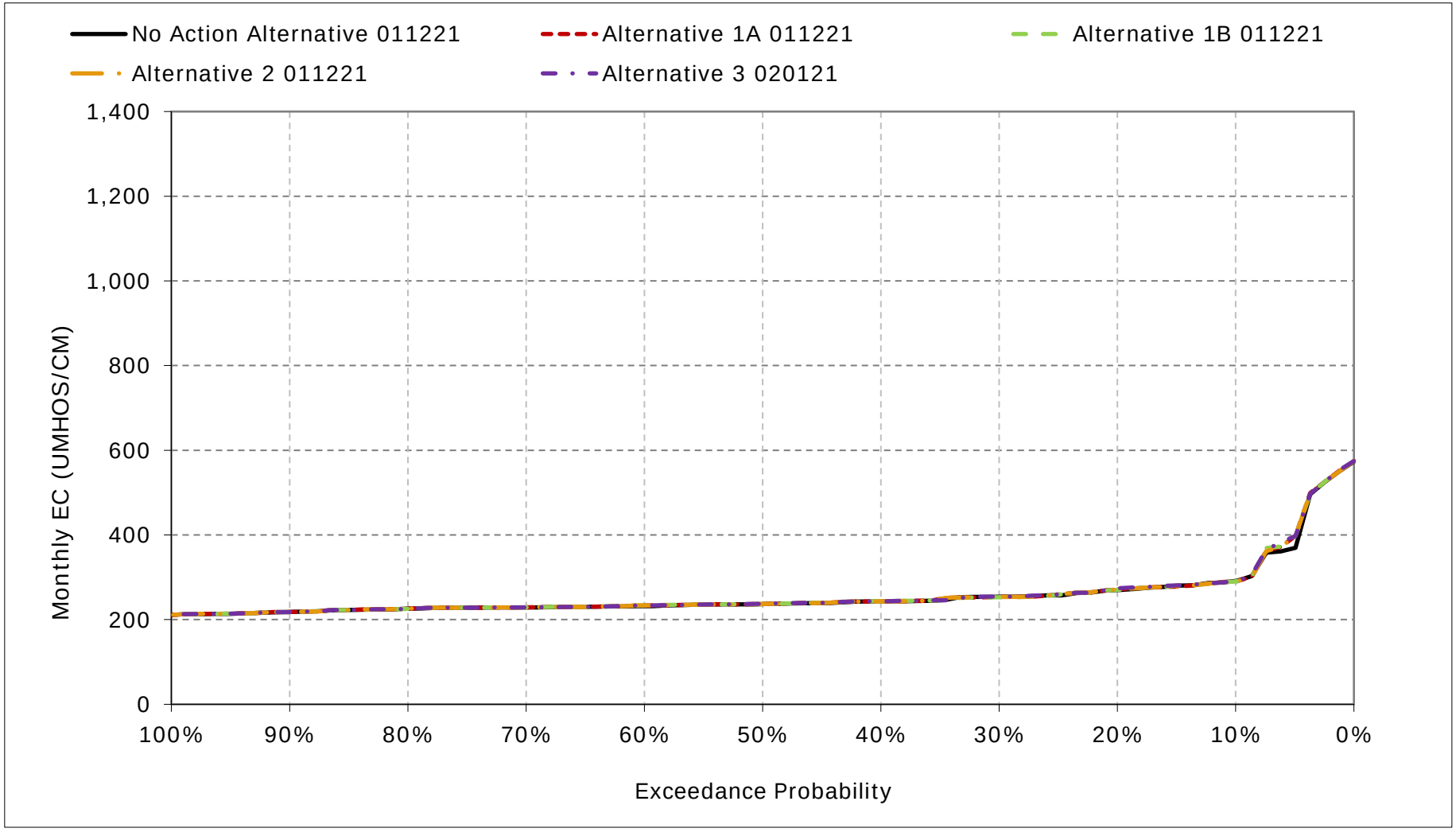
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-11. Old River at Rock Slough Salinity, May EC



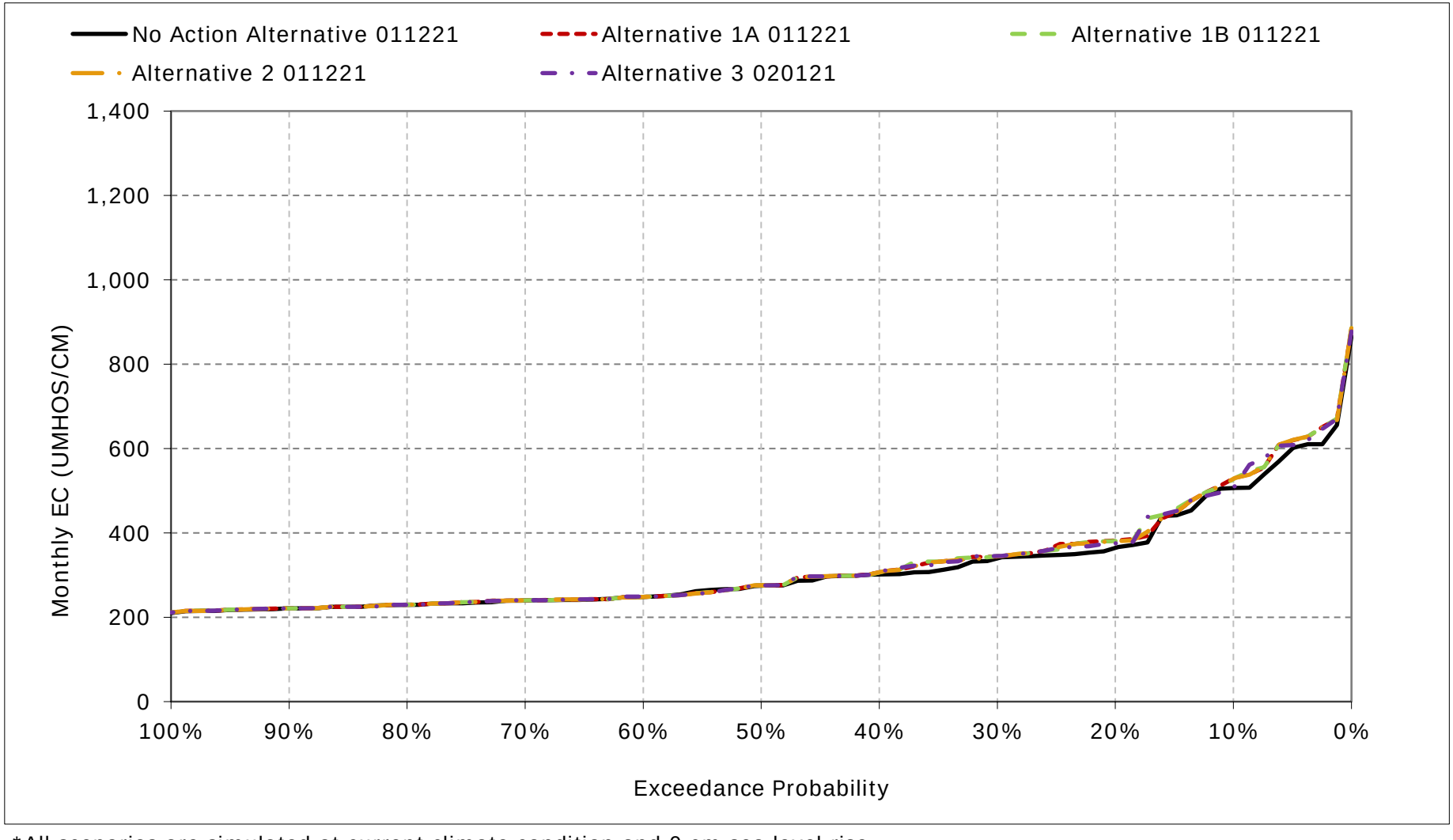
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-12. Old River at Rock Slough Salinity, June EC



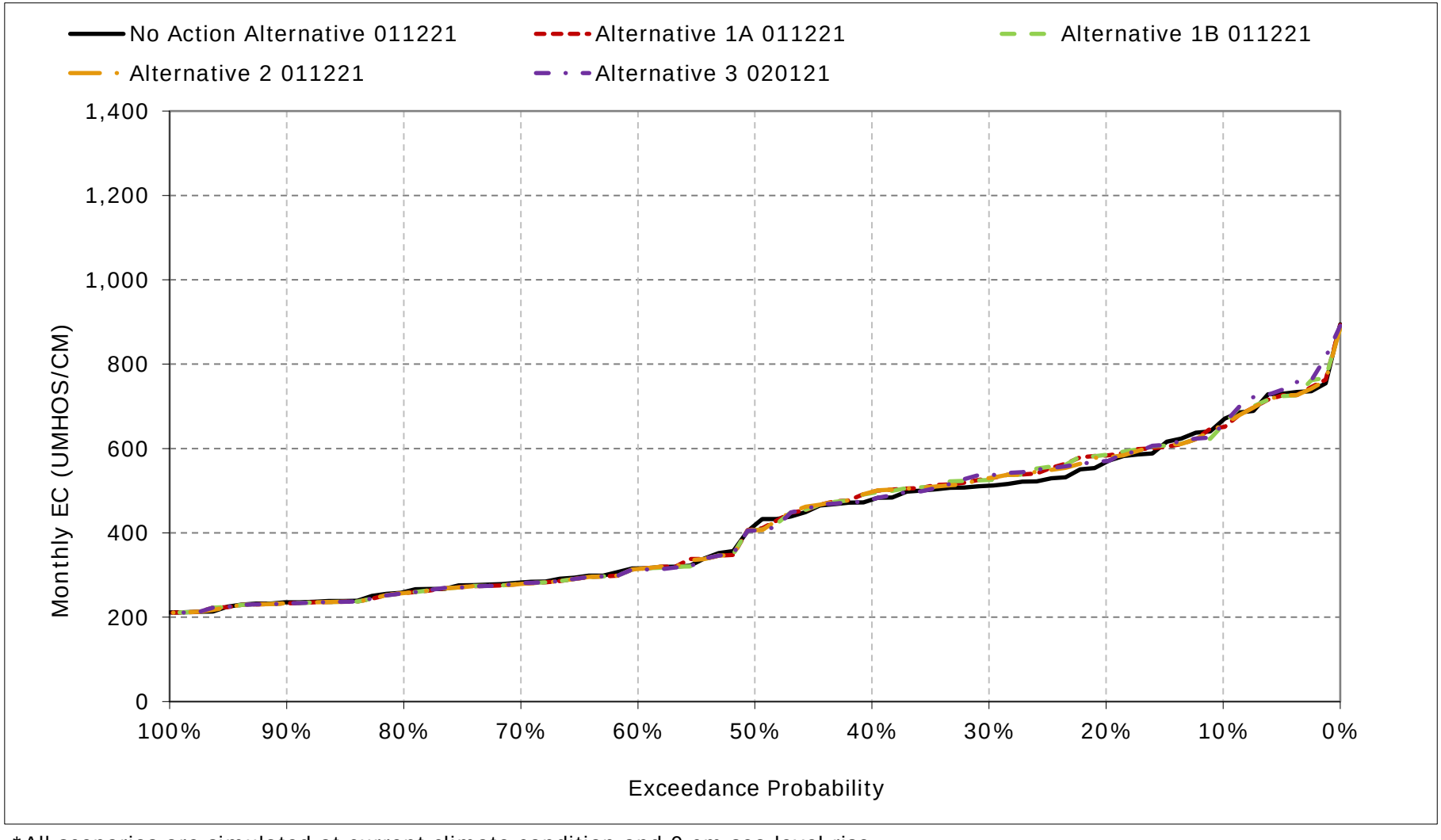
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-13. Old River at Rock Slough Salinity, July EC



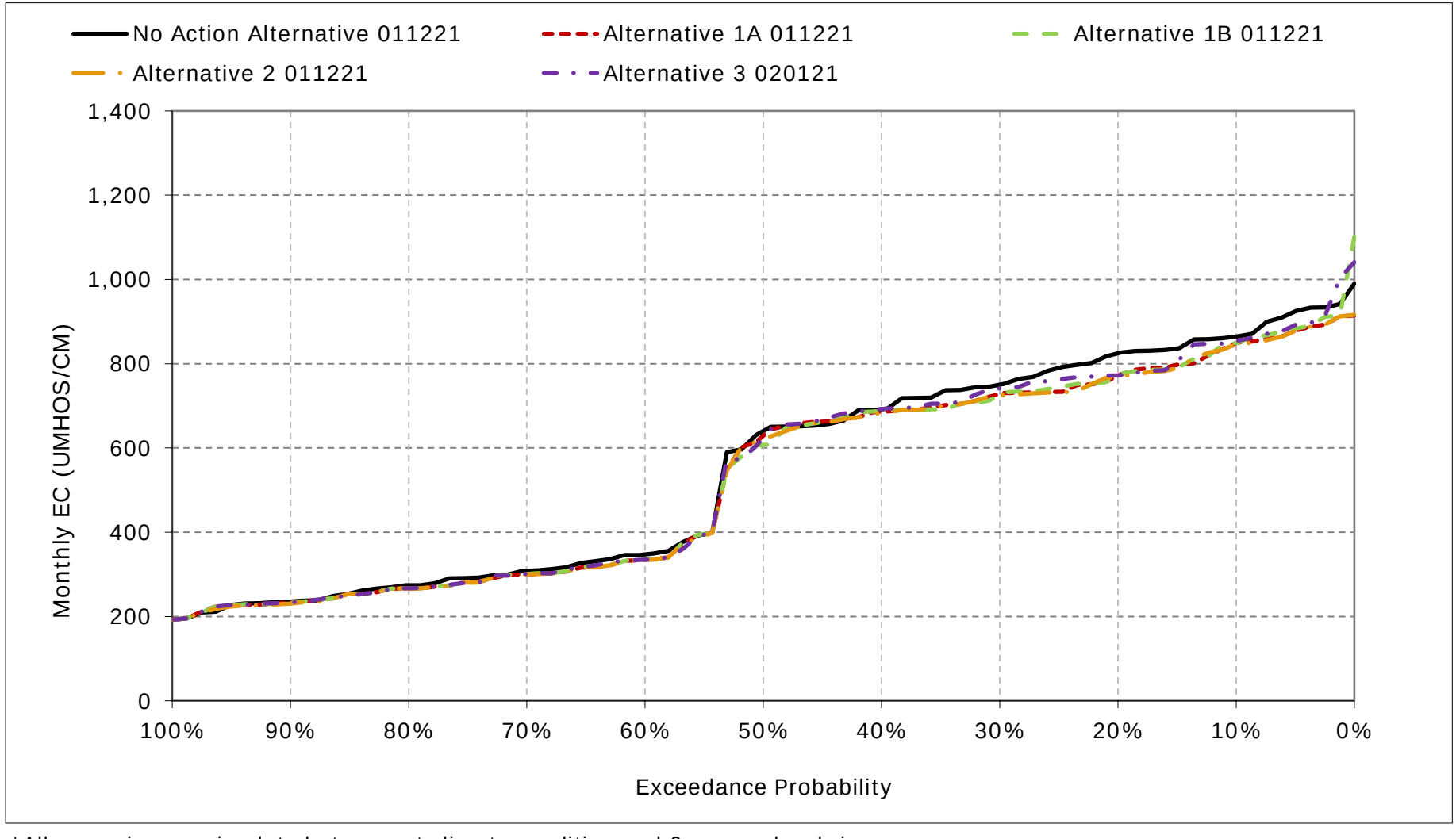
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-14. Old River at Rock Slough Salinity, August EC



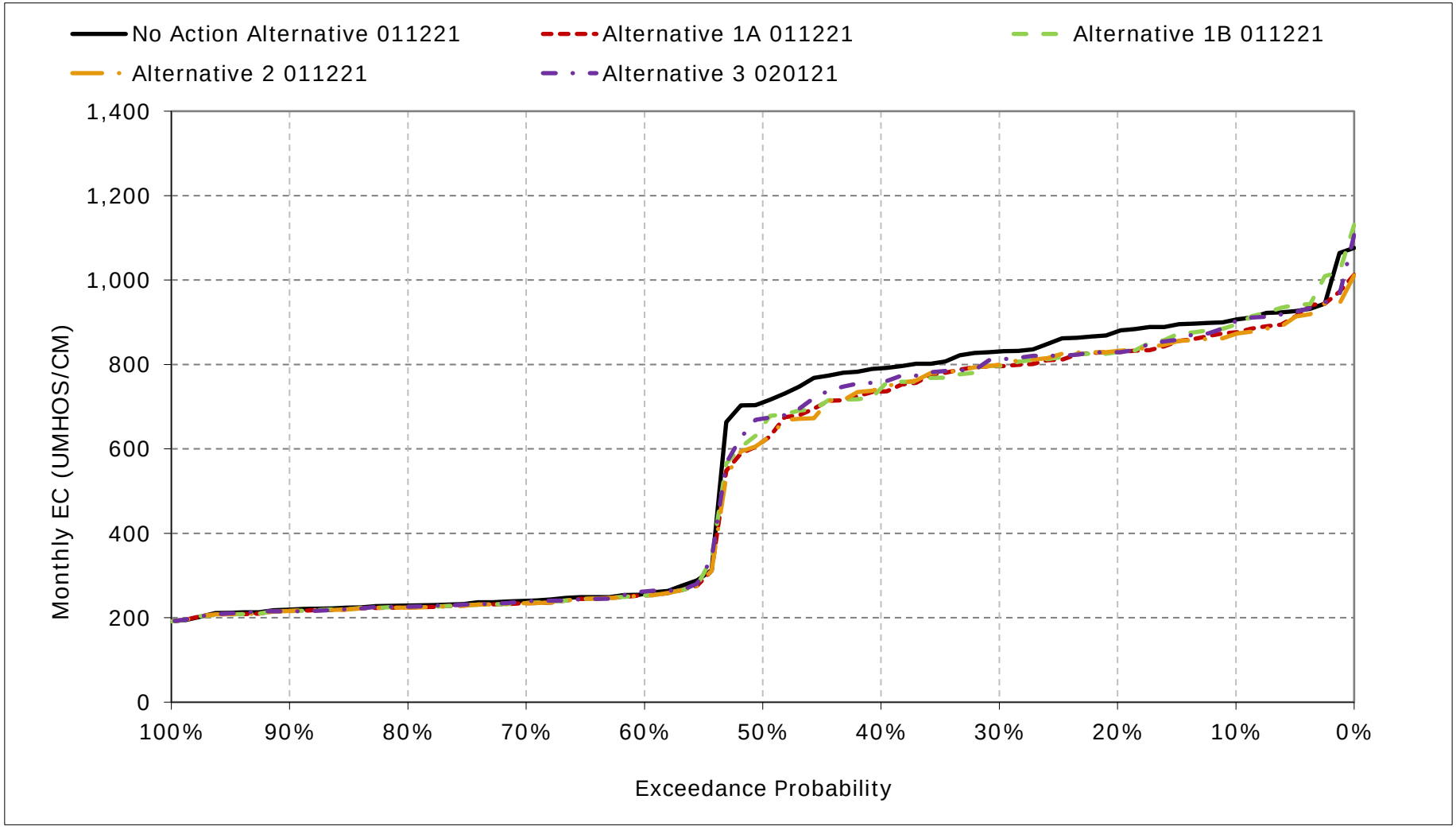
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-15. Old River at Rock Slough Salinity, September EC



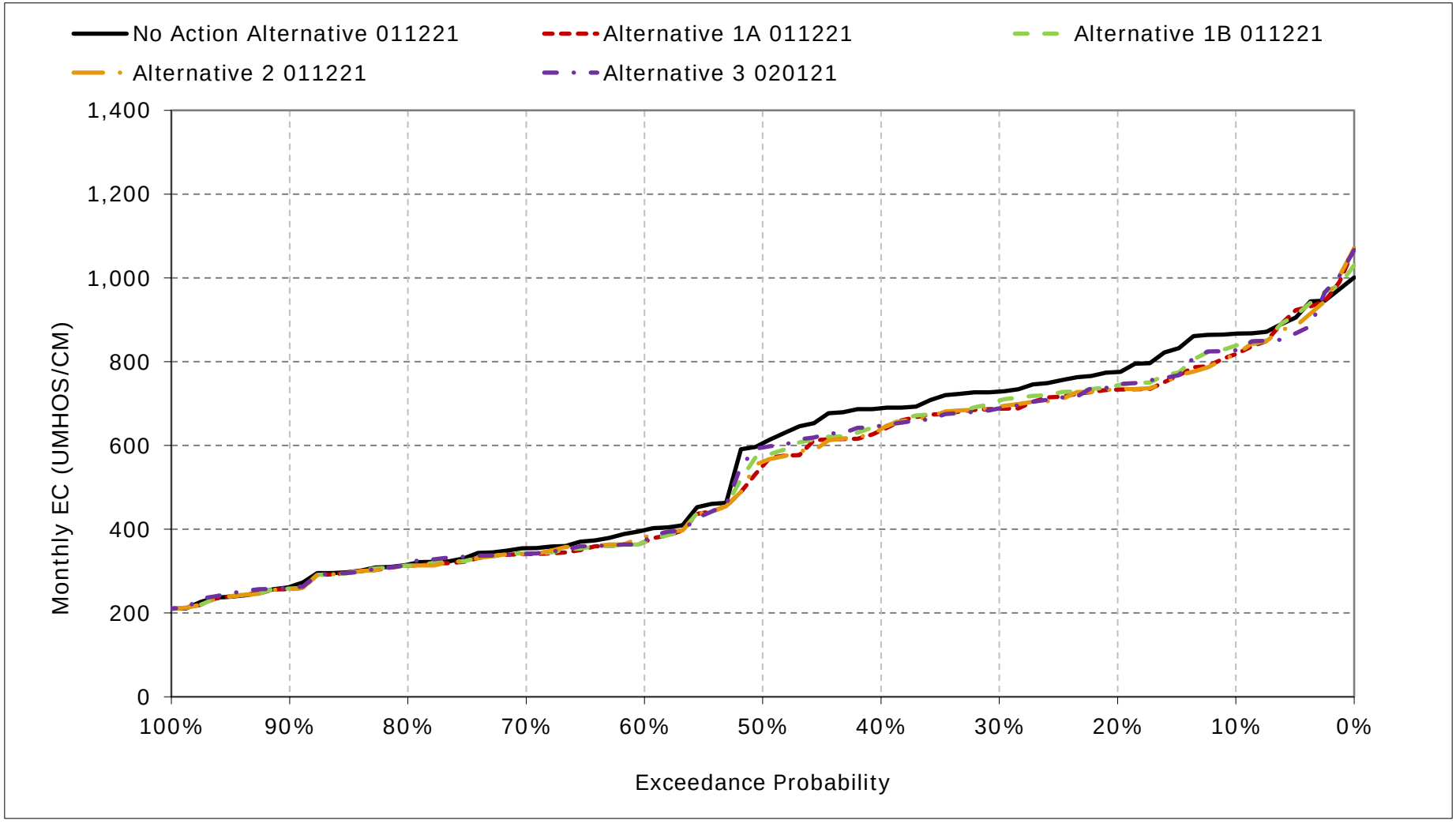
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-16. Old River at Rock Slough Salinity, October EC



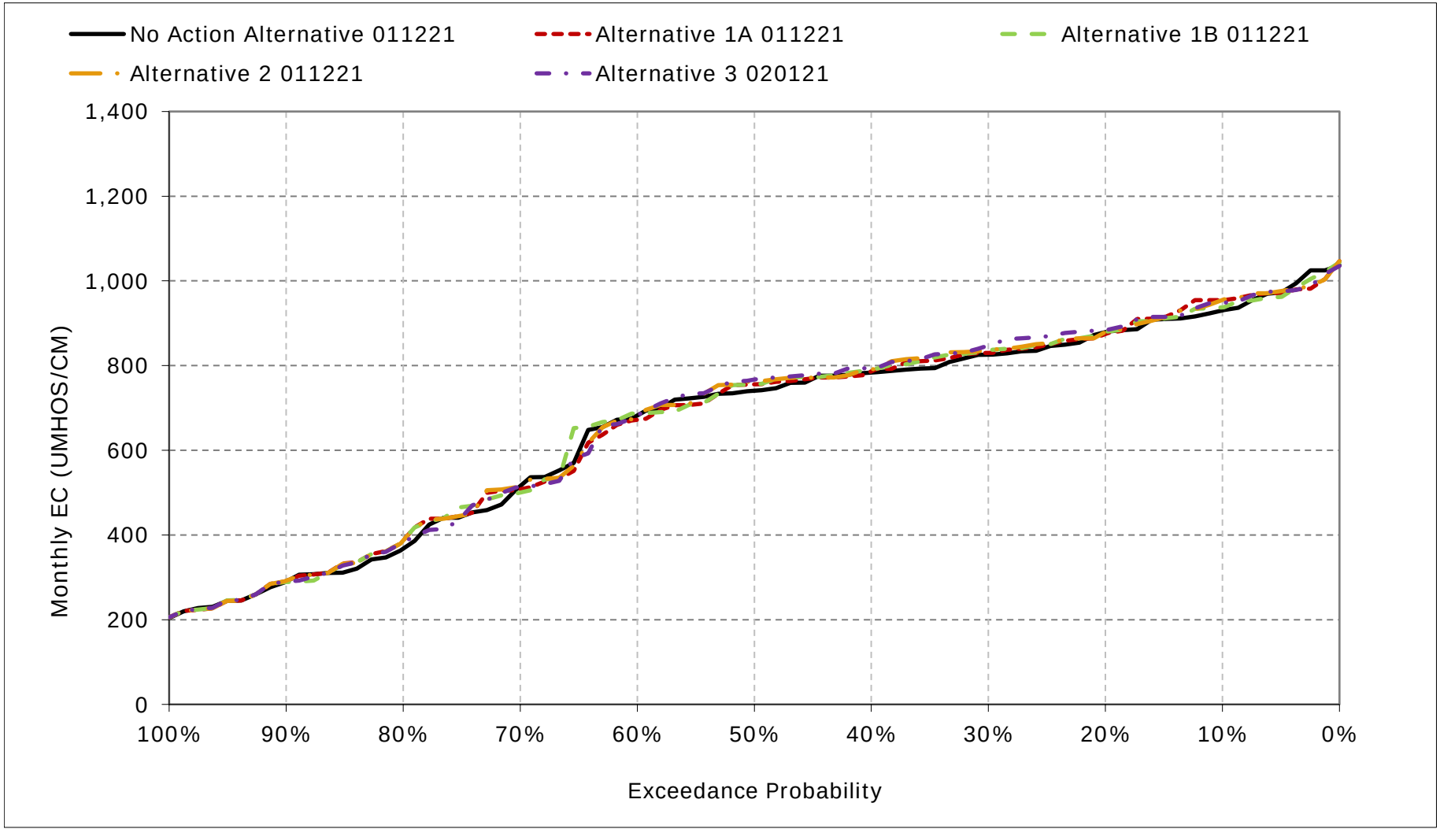
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-17. Old River at Rock Slough Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-15-18. Old River at Rock Slough Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-16-1a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	693	697	723	877	678	529	486	464	398	407	531	634
20%	669	630	673	832	613	495	459	434	376	357	434	584
30%	645	612	653	772	550	462	432	413	341	325	406	547
40%	620	578	632	678	516	434	411	400	331	315	386	511
50%	585	550	593	567	479	411	393	388	324	307	357	468
60%	293	338	558	505	449	388	371	369	319	297	298	331
70%	275	319	525	477	412	366	346	340	314	281	285	309
80%	270	304	445	432	387	346	305	313	303	268	278	289
90%	263	289	316	384	339	323	263	245	288	260	271	268
Long Term												
Full Simulation Period[a]	477	476	568	615	496	416	382	370	336	322	368	441
Water Year Types[b]												
Wet (32%)	266	306	461	454	397	349	300	288	295	280	278	285
Above Normal (15%)	282	326	561	643	511	415	369	353	319	280	286	316
Below Normal (17%)	671	585	579	670	493	422	401	388	329	297	397	609
Dry (22%)	624	613	611	687	544	461	449	434	353	343	447	533
Critical (15%)	680	662	729	765	624	489	453	445	422	452	494	568

Table 6B1-16-1b. Banks Pumping Plant South Delta Exports, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	691	662	709	885	678	531	496	464	399	417	530	596
20%	639	606	678	838	624	496	463	437	381	360	463	572
30%	618	571	642	790	574	463	433	415	341	327	417	544
40%	593	535	620	710	522	439	415	401	330	319	391	519
50%	524	494	605	622	493	411	393	390	325	308	351	478
60%	289	328	559	507	449	391	371	369	319	297	298	322
70%	272	310	528	471	412	366	345	340	313	280	284	306
80%	268	297	438	432	387	346	305	313	303	268	278	287
90%	260	287	316	384	339	323	265	245	288	261	271	266
Long Term												
Full Simulation Period[a]	465	458	565	622	500	418	384	371	336	324	373	433
Water Year Types[b]												
Wet (32%)	264	299	463	455	397	349	300	288	295	280	277	282
Above Normal (15%)	280	323	559	677	519	416	369	353	319	279	284	311
Below Normal (17%)	620	571	583	670	501	425	403	389	329	297	385	561
Dry (22%)	602	596	610	691	547	462	451	435	355	348	474	529
Critical (15%)	701	596	702	768	631	495	458	448	425	459	507	590

Table 6B1-16-1c. Banks Pumping Plant South Delta Exports, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3	-35	-14	8	-1	1	11	0	1	10	-1	-38
20%	-30	-24	6	6	10	1	5	3	5	3	29	-12
30%	-27	-40	-11	18	23	1	2	1	0	1	11	-3
40%	-27	-43	-12	32	6	5	4	1	-1	4	5	8
50%	-62	-56	12	54	13	1	0	2	1	1	-6	10
60%	-4	-9	1	2	0	3	0	0	0	1	0	-9
70%	-2	-9	3	-6	0	0	-1	0	-1	0	-1	-3
80%	-2	-7	-7	0	0	0	0	0	1	0	-1	-3
90%	-3	-3	0	1	0	0	2	0	0	1	-1	-2
Long Term												
Full Simulation Period[a]	-12	-18	-3	6	4	2	1	1	1	2	6	-8
Water Year Types[b]												
Wet (32%)	-2	-7	3	1	0	0	0	0	0	0	-1	-3
Above Normal (15%)	-2	-3	-2	34	8	1	0	0	0	0	-1	-4
Below Normal (17%)	-51	-14	4	0	8	3	1	1	1	0	-12	-48
Dry (22%)	-22	-17	0	4	3	1	1	1	2	5	28	-5
Critical (15%)	20	-66	-27	3	7	7	5	3	3	7	13	21

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-16-2a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	693	697	723	877	678	529	486	464	398	407	531	634
20%	669	630	673	832	613	495	459	434	376	357	434	584
30%	645	612	653	772	550	462	432	413	341	325	406	547
40%	620	578	632	678	516	434	411	400	331	315	386	511
50%	585	550	593	567	479	411	393	388	324	307	357	468
60%	293	338	558	505	449	388	371	369	319	297	298	331
70%	275	319	525	477	412	366	346	340	314	281	285	309
80%	270	304	445	432	387	346	305	313	303	268	278	289
90%	263	289	316	384	339	323	263	245	288	260	271	268
Long Term												
Full Simulation Period[a]	477	476	568	615	496	416	382	370	336	322	368	441
Water Year Types[b]												
Wet (32%)	266	306	461	454	397	349	300	288	295	280	278	285
Above Normal (15%)	282	326	561	643	511	415	369	353	319	280	286	316
Below Normal (17%)	671	585	579	670	493	422	401	388	329	297	397	609
Dry (22%)	624	613	611	687	544	461	449	434	353	343	447	533
Critical (15%)	680	662	729	765	624	489	453	445	422	452	494	568

Table 6B1-16-2b. Banks Pumping Plant South Delta Exports, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	706	662	723	889	677	533	490	463	399	416	531	603
20%	651	613	677	840	631	496	463	438	382	362	468	572
30%	614	580	648	788	574	461	433	415	341	327	419	543
40%	591	555	622	712	522	439	415	401	330	319	389	520
50%	543	513	608	613	492	411	393	390	325	308	350	467
60%	289	329	570	507	448	391	371	369	319	299	298	322
70%	272	310	528	463	412	366	346	340	313	280	284	306
80%	268	298	438	433	387	347	305	313	303	268	278	287
90%	261	287	316	387	339	323	265	245	288	261	271	266
Long Term												
Full Simulation Period[a]	470	463	569	622	500	417	383	370	336	324	374	434
Water Year Types[b]												
Wet (32%)	264	300	464	456	397	349	300	288	295	280	277	282
Above Normal (15%)	281	327	560	677	519	416	368	353	319	279	285	312
Below Normal (17%)	620	570	578	672	501	425	402	389	330	298	383	558
Dry (22%)	610	608	630	688	546	462	450	434	354	349	477	531
Critical (15%)	723	608	705	771	632	493	454	446	423	459	507	594

Table 6B1-16-2c. Banks Pumping Plant South Delta Exports, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12	-36	0	12	-1	3	5	-2	1	9	-1	-32
20%	-18	-17	4	8	18	1	4	4	6	5	34	-11
30%	-31	-32	-5	16	23	-1	2	1	0	2	14	-4
40%	-28	-23	-9	34	6	5	4	1	-1	4	3	9
50%	-42	-37	15	45	12	1	0	2	1	1	-7	-2
60%	-4	-9	12	3	-1	2	1	0	0	2	0	-9
70%	-2	-8	3	-13	0	0	0	0	-1	-1	-1	-2
80%	-2	-6	-7	1	0	1	0	0	1	0	-1	-3
90%	-1	-3	0	3	0	0	2	0	0	1	-1	-2
Long Term												
Full Simulation Period[a]	-7	-13	1	7	4	1	1	0	1	2	6	-7
Water Year Types[b]												
Wet (32%)	-2	-7	4	2	0	0	0	0	0	0	-1	-3
Above Normal (15%)	-1	1	-1	34	8	1	-1	0	0	0	-1	-4
Below Normal (17%)	-52	-15	-1	2	8	3	1	1	1	0	-14	-50
Dry (22%)	-14	-5	19	1	2	1	1	0	1	6	30	-2
Critical (15%)	42	-54	-25	6	8	4	2	1	1	7	13	26

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-16-3a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	693	697	723	877	678	529	486	464	398	407	531	634
20%	669	630	673	832	613	495	459	434	376	357	434	584
30%	645	612	653	772	550	462	432	413	341	325	406	547
40%	620	578	632	678	516	434	411	400	331	315	386	511
50%	585	550	593	567	479	411	393	388	324	307	357	468
60%	293	338	558	505	449	388	371	369	319	297	298	331
70%	275	319	525	477	412	366	346	340	314	281	285	309
80%	270	304	445	432	387	346	305	313	303	268	278	289
90%	263	289	316	384	339	323	263	245	288	260	271	268
Long Term												
Full Simulation Period[a]	477	476	568	615	496	416	382	370	336	322	368	441
Water Year Types[b]												
Wet (32%)	266	306	461	454	397	349	300	288	295	280	278	285
Above Normal (15%)	282	326	561	643	511	415	369	353	319	280	286	316
Below Normal (17%)	671	585	579	670	493	422	401	388	329	297	397	609
Dry (22%)	624	613	611	687	544	461	449	434	353	343	447	533
Critical (15%)	680	662	729	765	624	489	453	445	422	452	494	568

Table 6B1-16-3b. Banks Pumping Plant South Delta Exports, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	688	656	706	889	678	528	491	462	399	417	532	589
20%	648	598	678	838	614	496	464	437	381	360	455	575
30%	618	577	642	793	573	463	433	415	341	327	418	542
40%	592	542	630	730	526	439	416	401	330	318	391	519
50%	522	490	611	626	492	411	393	390	325	308	350	478
60%	289	330	559	507	449	391	371	369	319	297	298	322
70%	272	313	528	471	412	366	345	340	313	280	284	306
80%	268	298	438	432	387	345	305	313	303	268	278	287
90%	260	287	316	384	339	323	265	245	288	261	271	266
Long Term												
Full Simulation Period[a]	465	458	567	624	500	418	383	370	336	324	373	432
Water Year Types[b]												
Wet (32%)	264	300	465	455	397	349	300	288	295	280	277	281
Above Normal (15%)	279	323	559	678	519	416	369	353	319	279	284	311
Below Normal (17%)	617	570	583	679	504	426	403	389	329	297	385	559
Dry (22%)	604	592	616	689	546	462	450	435	355	348	474	531
Critical (15%)	698	600	703	772	633	494	455	446	423	459	504	583

Table 6B1-16-3c. Banks Pumping Plant South Delta Exports, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6	-41	-17	13	-1	-2	5	-3	1	10	0	-46
20%	-21	-32	5	6	1	1	5	3	5	3	21	-9
30%	-27	-34	-11	21	23	1	2	2	0	1	12	-5
40%	-28	-37	-1	52	10	5	4	1	-1	3	4	8
50%	-64	-60	18	58	13	1	1	2	0	1	-7	10
60%	-4	-8	1	2	0	3	0	0	0	1	0	-9
70%	-2	-5	3	-6	0	0	-1	0	-1	0	-1	-3
80%	-2	-6	-7	0	0	-1	0	0	0	0	-1	-3
90%	-3	-3	0	0	0	0	1	0	0	1	-1	-2
Long Term												
Full Simulation Period[a]	-12	-19	-1	8	5	2	1	1	1	2	5	-9
Water Year Types[b]												
Wet (32%)	-2	-6	4	1	0	0	0	0	0	0	-1	-4
Above Normal (15%)	-3	-3	-2	35	9	1	0	0	0	0	-1	-5
Below Normal (17%)	-55	-15	4	9	10	4	1	1	1	0	-12	-49
Dry (22%)	-20	-21	5	2	2	1	1	1	2	5	28	-3
Critical (15%)	17	-62	-27	7	9	5	2	1	1	7	10	15

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-16-4a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	693	697	723	877	678	529	486	464	398	407	531	634
20%	669	630	673	832	613	495	459	434	376	357	434	584
30%	645	612	653	772	550	462	432	413	341	325	406	547
40%	620	578	632	678	516	434	411	400	331	315	386	511
50%	585	550	593	567	479	411	393	388	324	307	357	468
60%	293	338	558	505	449	388	371	369	319	297	298	331
70%	275	319	525	477	412	366	346	340	314	281	285	309
80%	270	304	445	432	387	346	305	313	303	268	278	289
90%	263	289	316	384	339	323	263	245	288	260	271	268
Long Term												
Full Simulation Period[a]	477	476	568	615	496	416	382	370	336	322	368	441
Water Year Types[b]												
Wet (32%)	266	306	461	454	397	349	300	288	295	280	278	285
Above Normal (15%)	282	326	561	643	511	415	369	353	319	280	286	316
Below Normal (17%)	671	585	579	670	493	422	401	388	329	297	397	609
Dry (22%)	624	613	611	687	544	461	449	434	353	343	447	533
Critical (15%)	680	662	729	765	624	489	453	445	422	452	494	568

Table 6B1-16-4b. Banks Pumping Plant South Delta Exports, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	703	675	725	889	670	527	496	463	410	413	529	618
20%	653	613	676	842	613	497	463	436	385	360	454	567
30%	631	581	656	775	563	461	433	415	340	327	415	548
40%	603	551	636	729	527	439	415	401	330	318	390	520
50%	555	513	601	628	494	414	393	390	325	309	350	478
60%	287	331	566	501	454	394	371	369	319	297	297	322
70%	273	315	528	467	413	364	346	340	313	279	285	307
80%	268	301	434	432	388	344	304	313	304	269	278	287
90%	260	289	318	384	340	323	265	246	288	261	270	266
Long Term												
Full Simulation Period[a]	471	463	568	625	498	417	383	370	337	324	373	436
Water Year Types[b]												
Wet (32%)	264	300	465	454	397	348	300	289	295	280	277	282
Above Normal (15%)	279	331	554	675	519	415	369	353	319	280	284	310
Below Normal (17%)	624	585	575	698	503	425	403	389	330	298	383	561
Dry (22%)	614	587	626	689	543	459	449	432	356	349	472	535
Critical (15%)	718	622	710	765	625	492	456	447	424	458	508	598

Table 6B1-16-4c. Banks Pumping Plant South Delta Exports, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10	-22	2	12	-8	-2	11	-1	12	6	-3	-17
20%	-16	-17	4	9	0	1	4	2	9	3	19	-17
30%	-14	-30	3	3	12	-1	1	1	-1	1	9	1
40%	-17	-28	4	52	11	5	4	1	-1	3	3	9
50%	-30	-37	8	61	14	4	1	2	0	2	-8	10
60%	-6	-6	8	-4	5	5	0	0	0	0	-1	-9
70%	-2	-4	4	-10	1	-2	0	0	-1	-1	0	-2
80%	-1	-4	-11	0	0	-2	0	0	1	1	-1	-2
90%	-3	-1	2	1	1	0	1	1	0	1	-1	-2
Long Term												
Full Simulation Period[a]	-6	-13	0	10	3	1	1	0	1	2	5	-5
Water Year Types[b]												
Wet (32%)	-2	-6	4	0	0	0	0	1	0	0	-1	-3
Above Normal (15%)	-3	5	-7	32	8	0	-1	0	0	0	-1	-5
Below Normal (17%)	-48	0	-4	28	10	3	2	1	1	0	-14	-47
Dry (22%)	-10	-27	15	2	-1	-2	0	-2	3	5	25	2
Critical (15%)	38	-40	-20	0	1	4	4	2	2	6	14	30

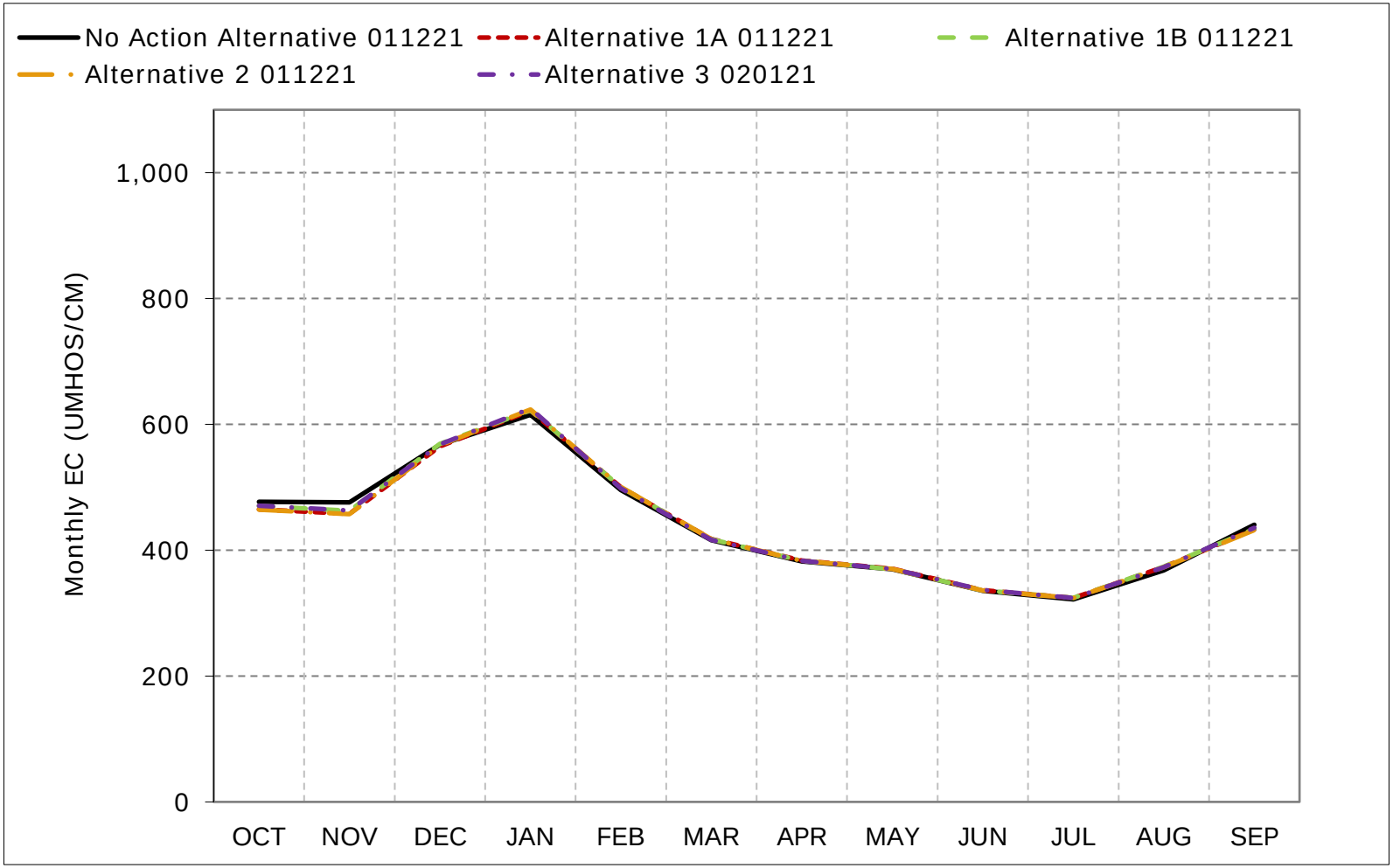
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-1. Banks Pumping Plant South Delta Exports, Long-Term Average EC

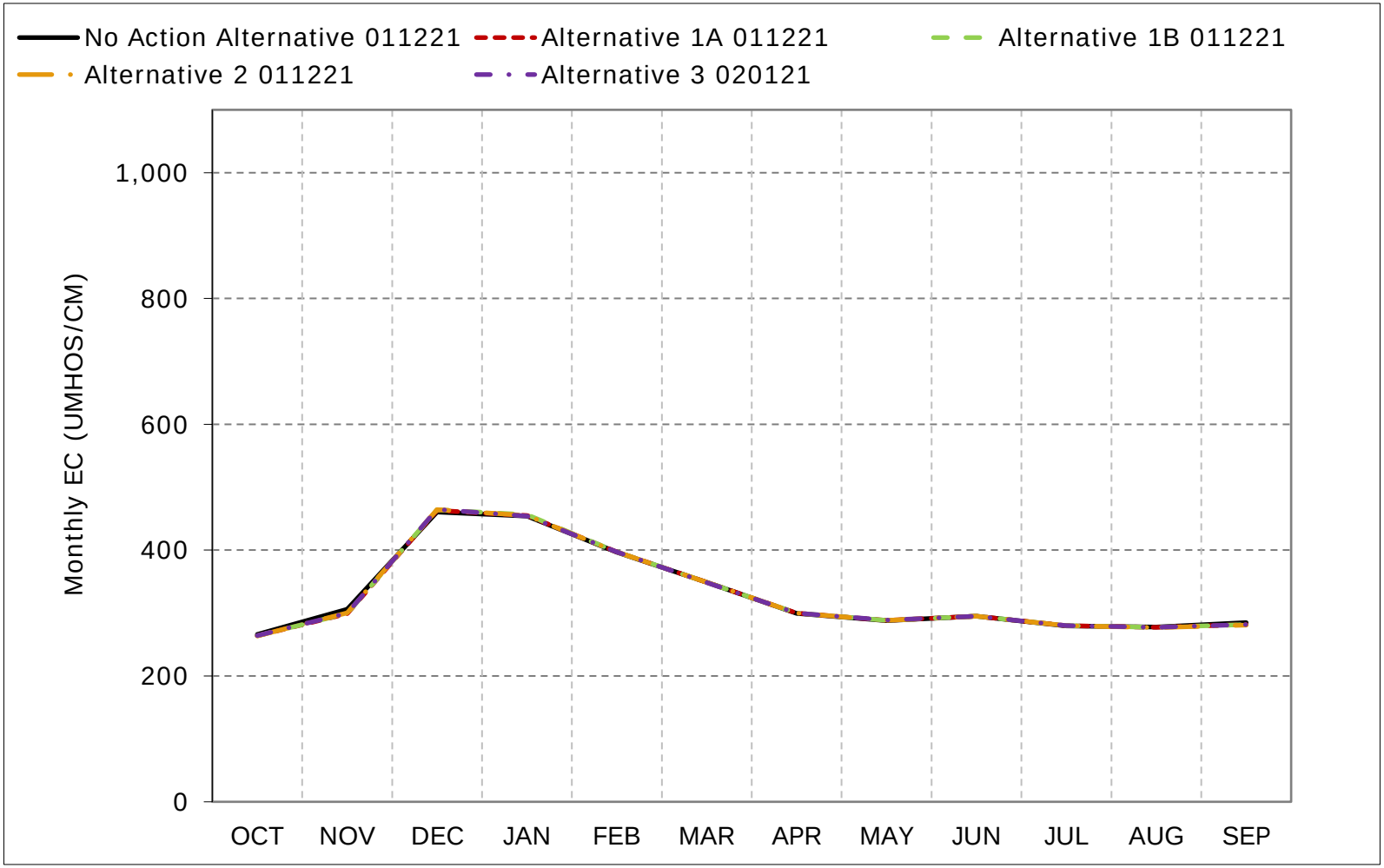


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-2. Banks Pumping Plant South Delta Exports, Wet Year Average EC

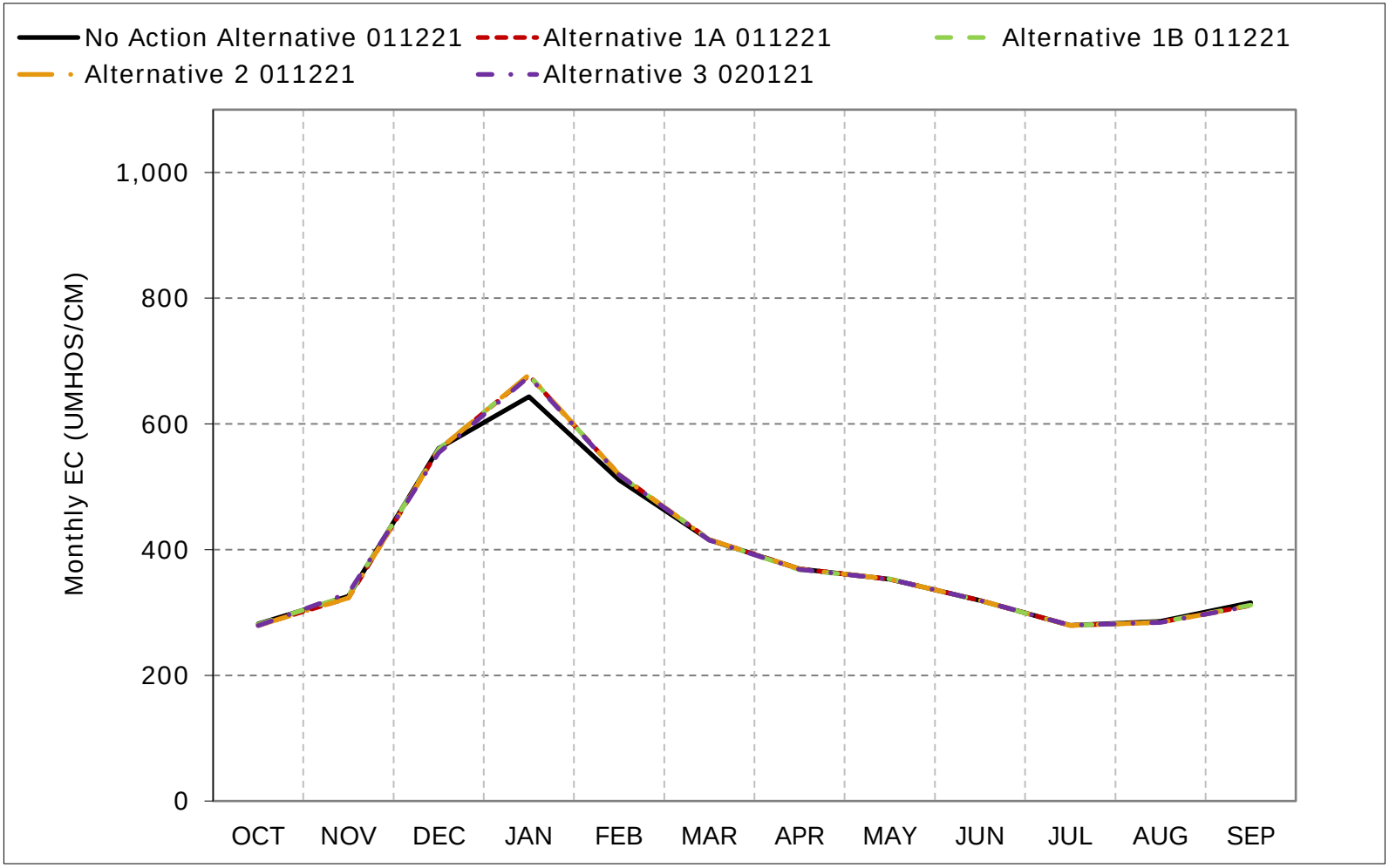


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-3. Banks Pumping Plant South Delta Exports, Above Normal Year Average EC

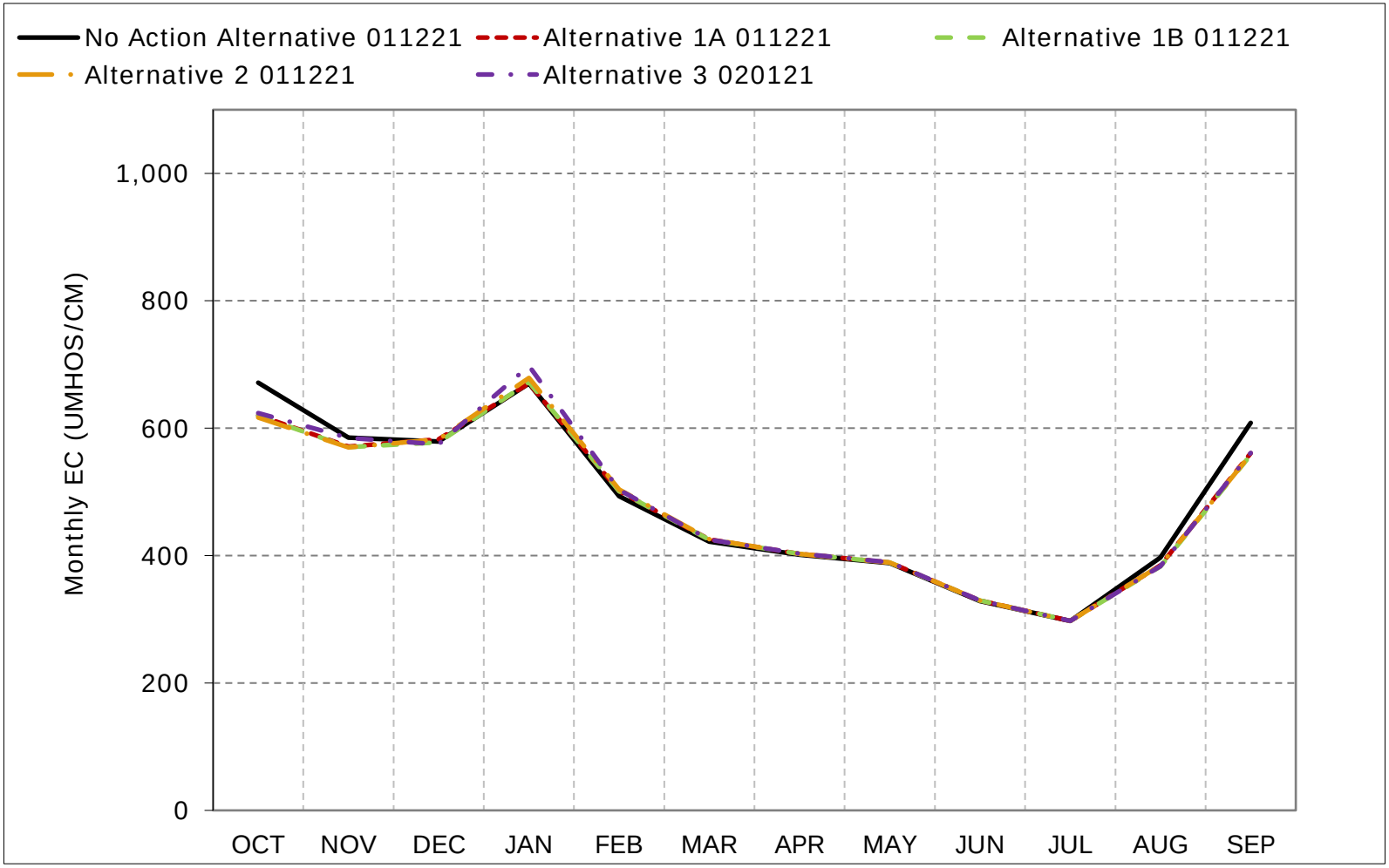


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-4. Banks Pumping Plant South Delta Exports, Below Normal Year Average EC

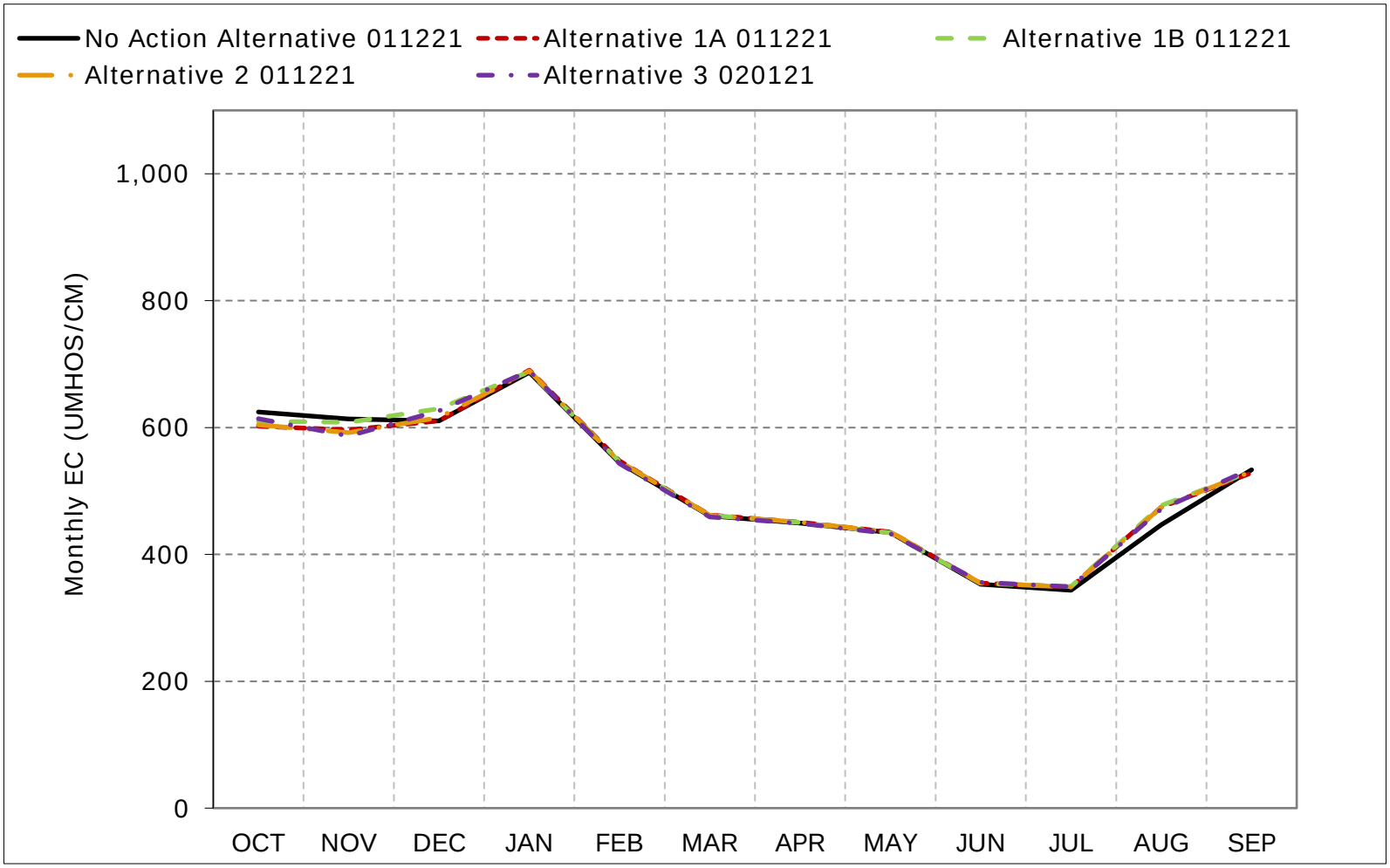


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-5. Banks Pumping Plant South Delta Exports, Dry Year Average EC

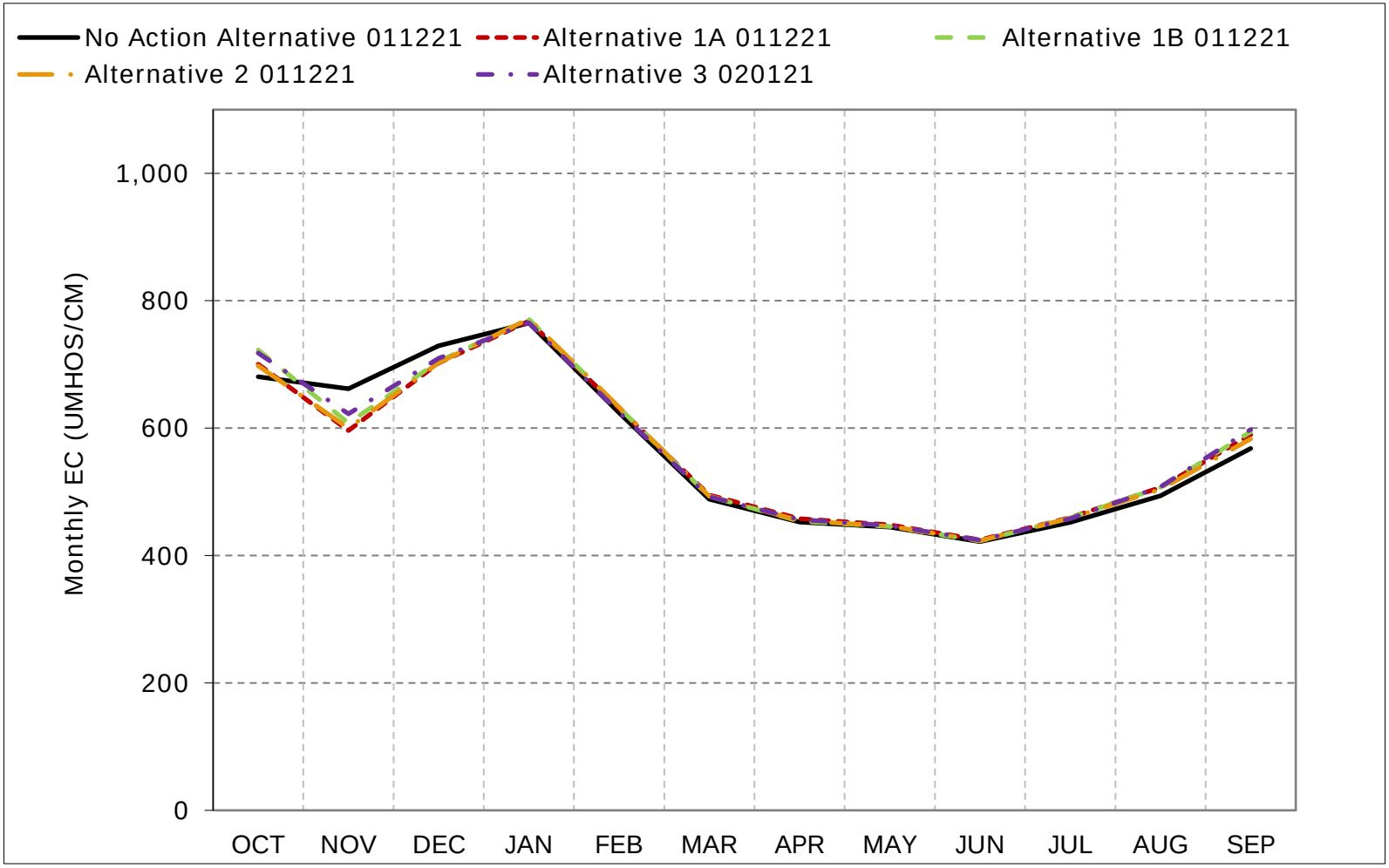


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-6. Banks Pumping Plant South Delta Exports, Critical Year Average EC

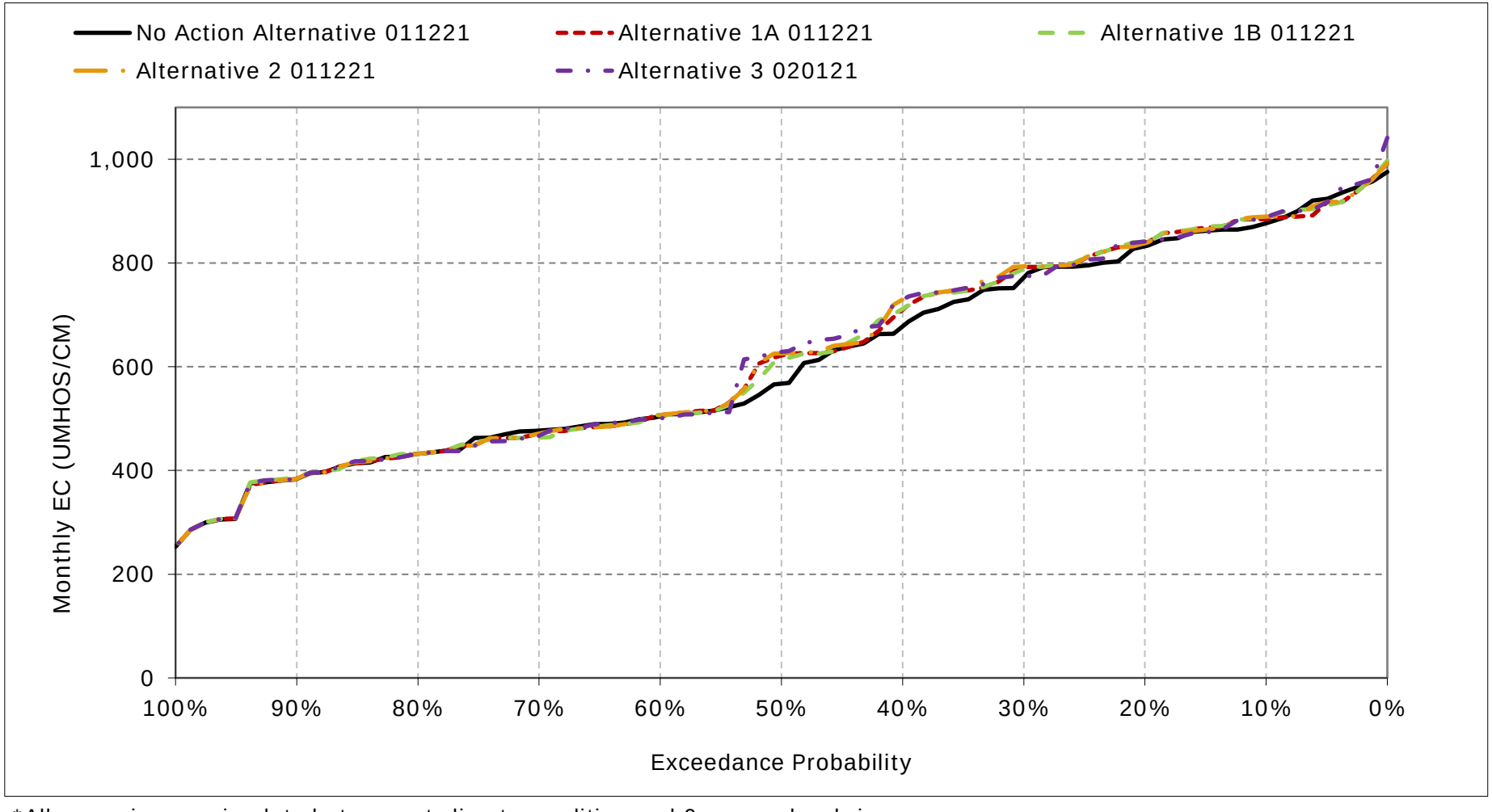


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

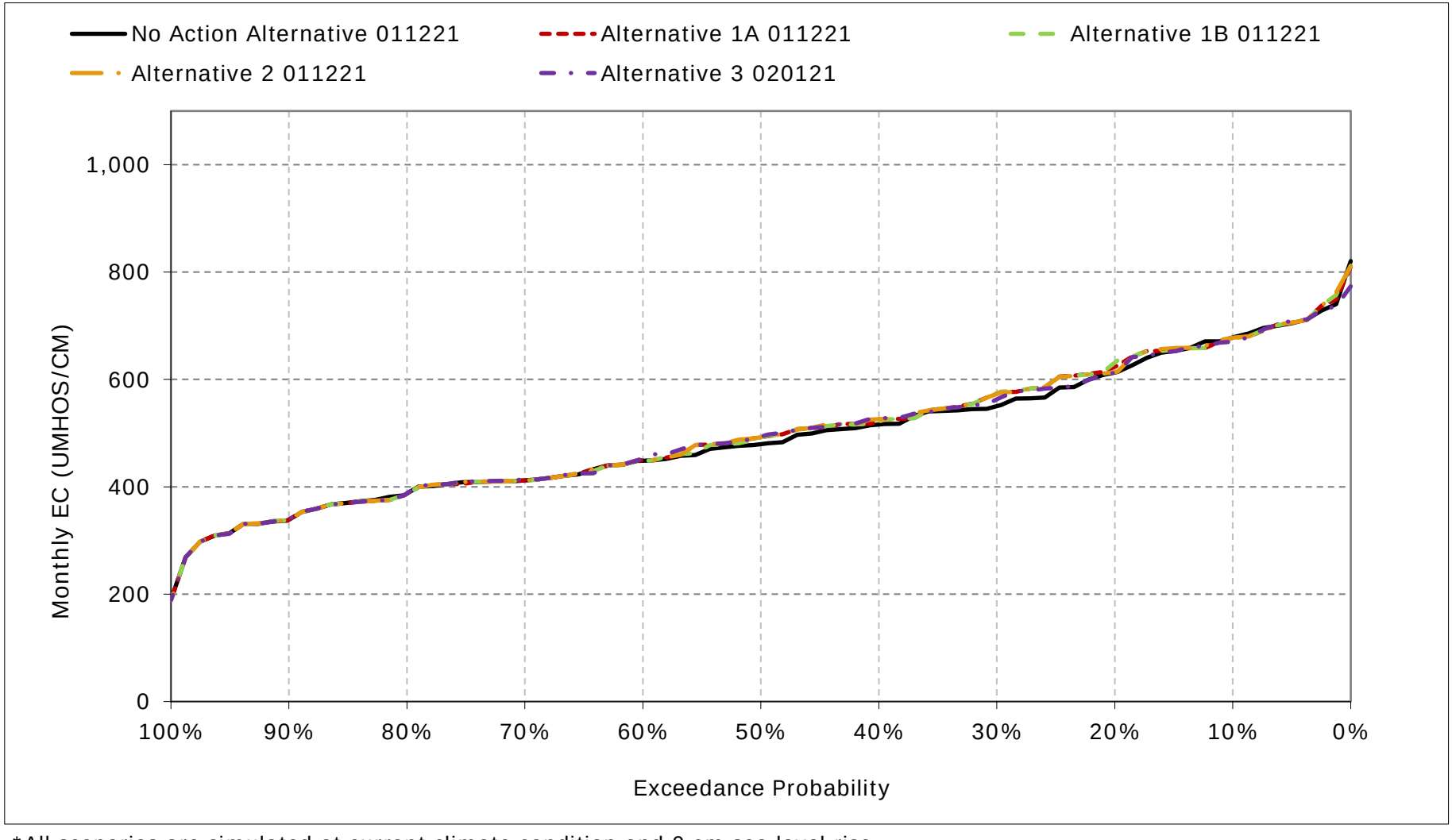
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-7. Banks Pumping Plant South Delta Exports Salinity, January EC



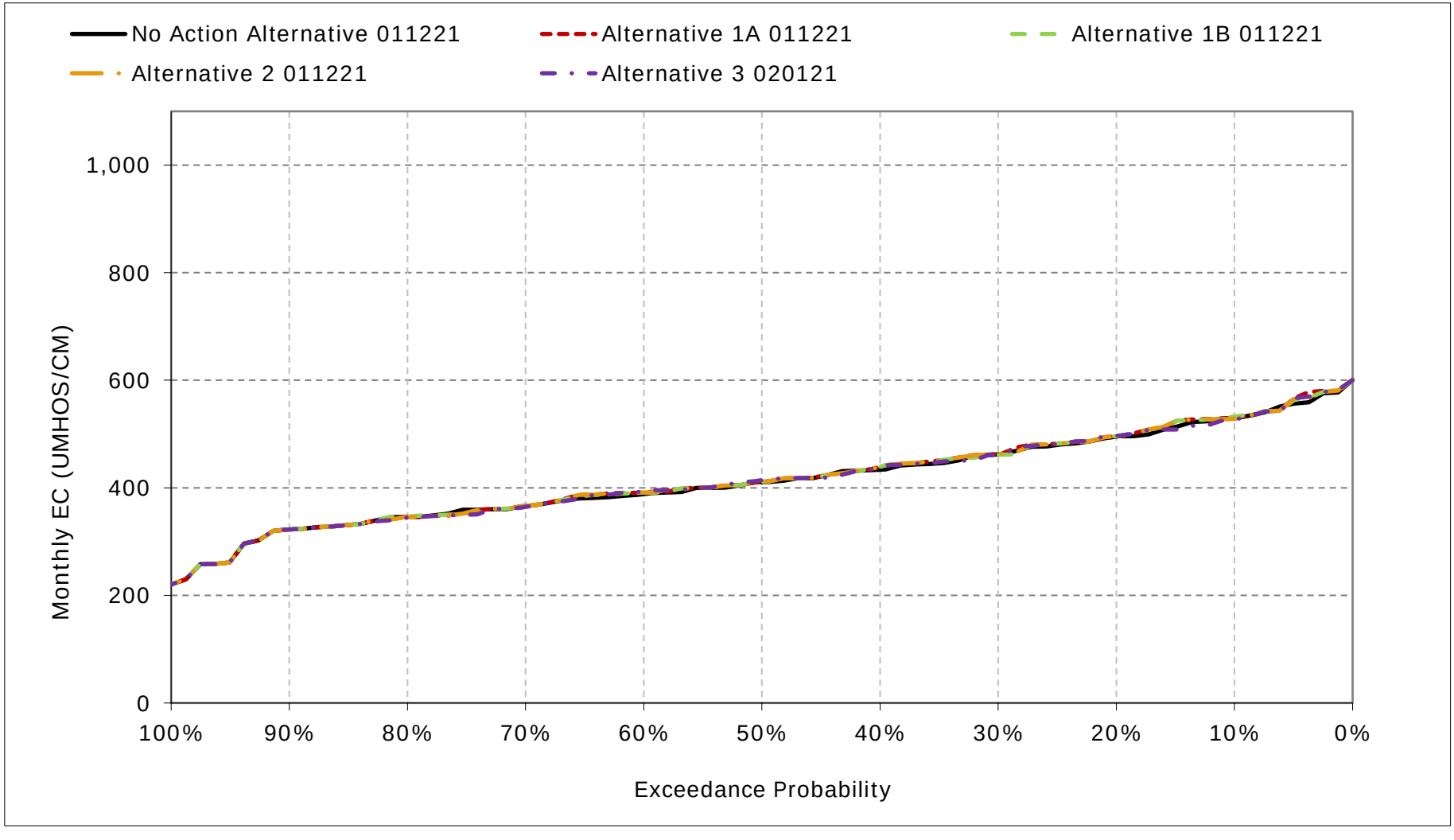
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-8. Banks Pumping Plant South Delta Exports Salinity, February EC



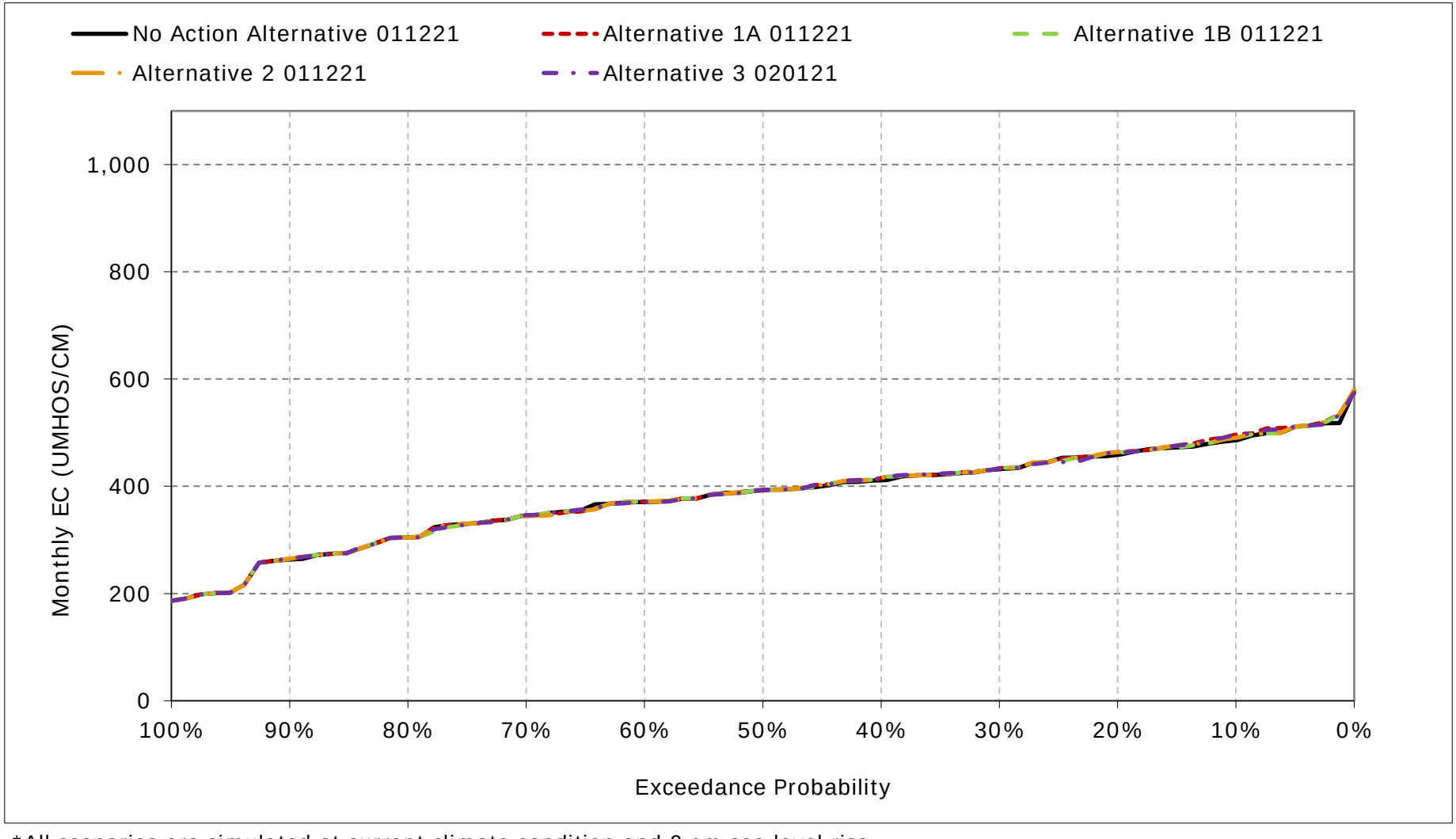
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-9. Banks Pumping Plant South Delta Exports Salinity, March EC



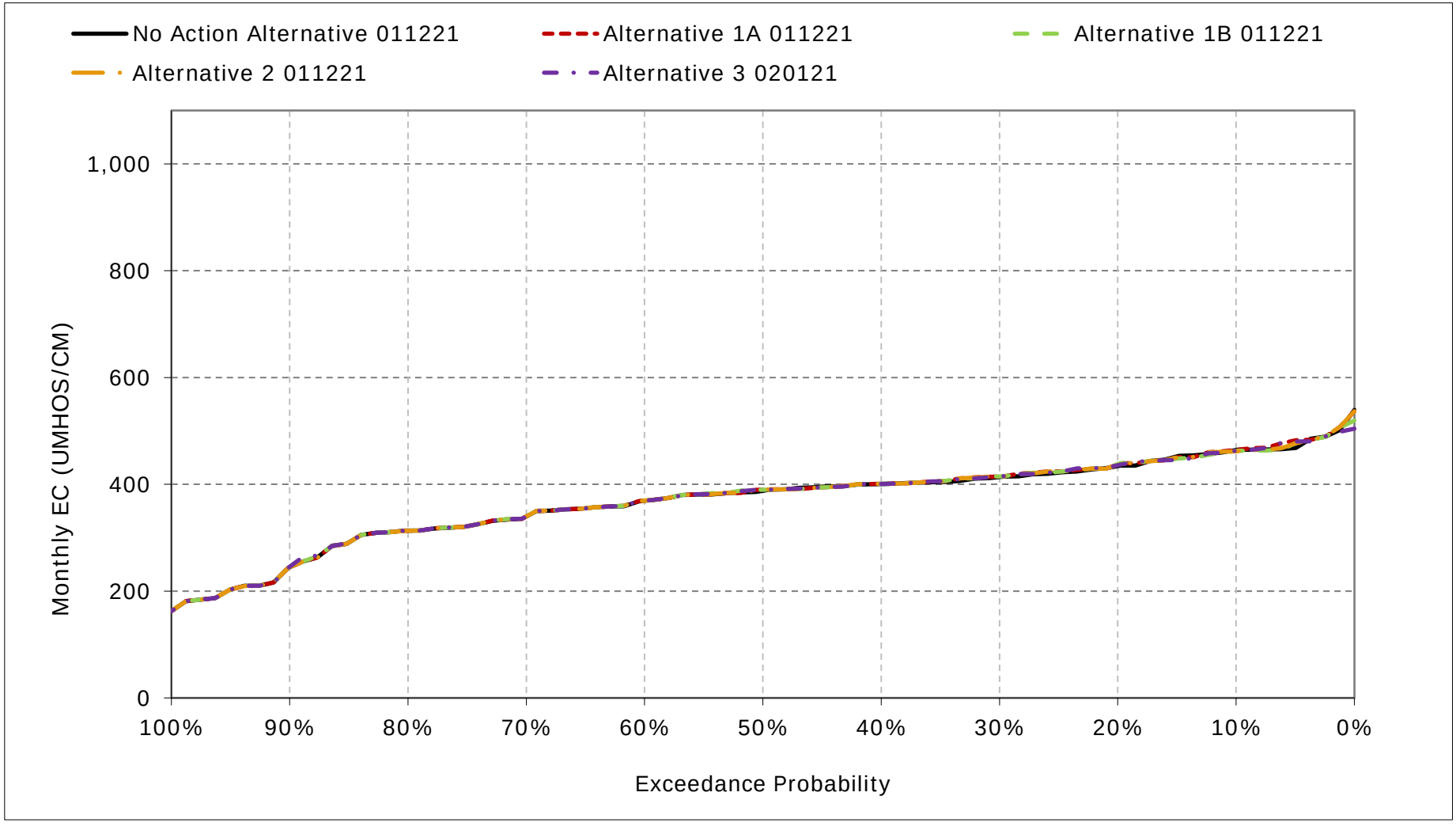
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-10. Banks Pumping Plant South Delta Exports Salinity, April EC



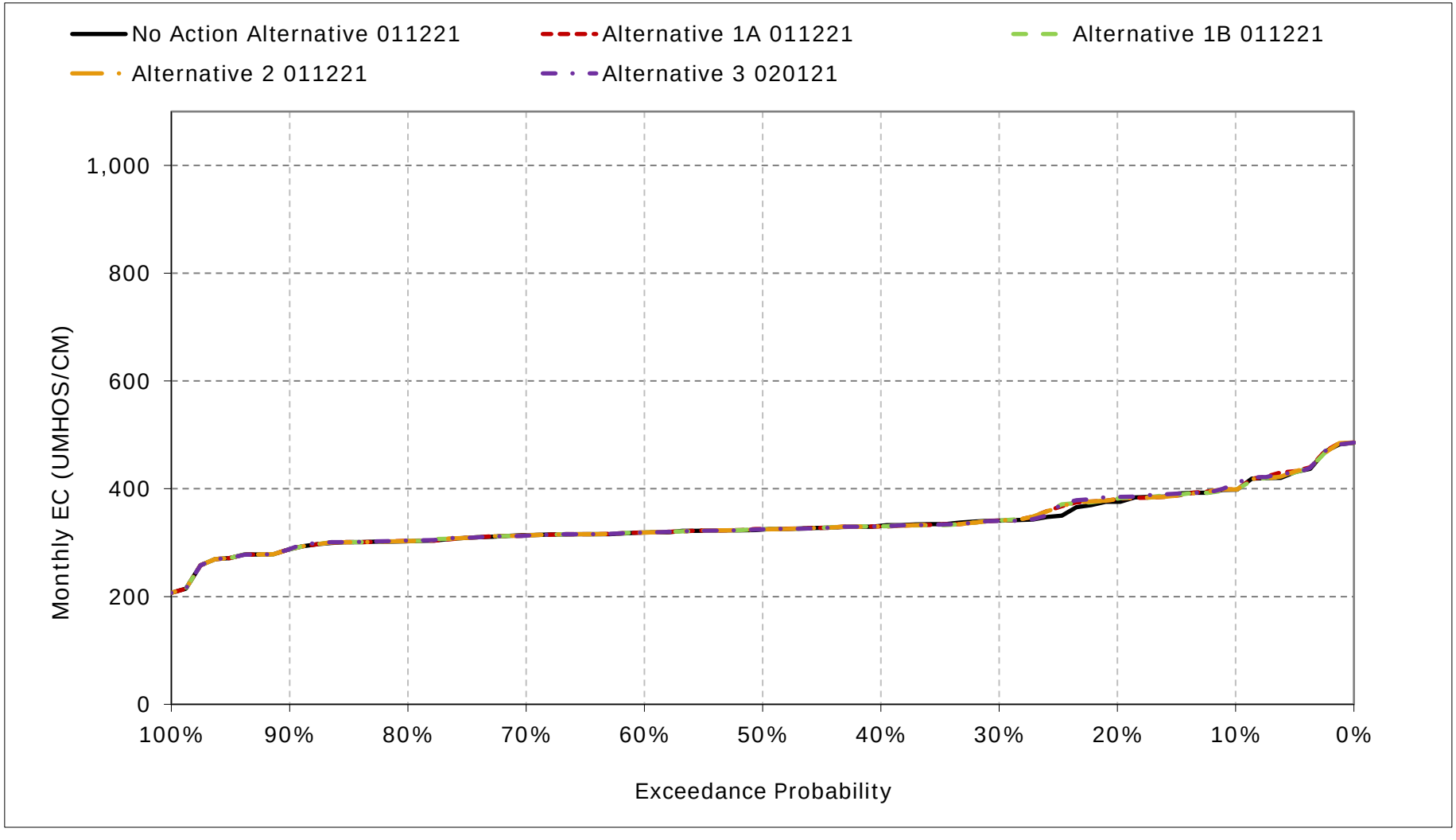
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-11. Banks Pumping Plant South Delta Exports Salinity, May EC



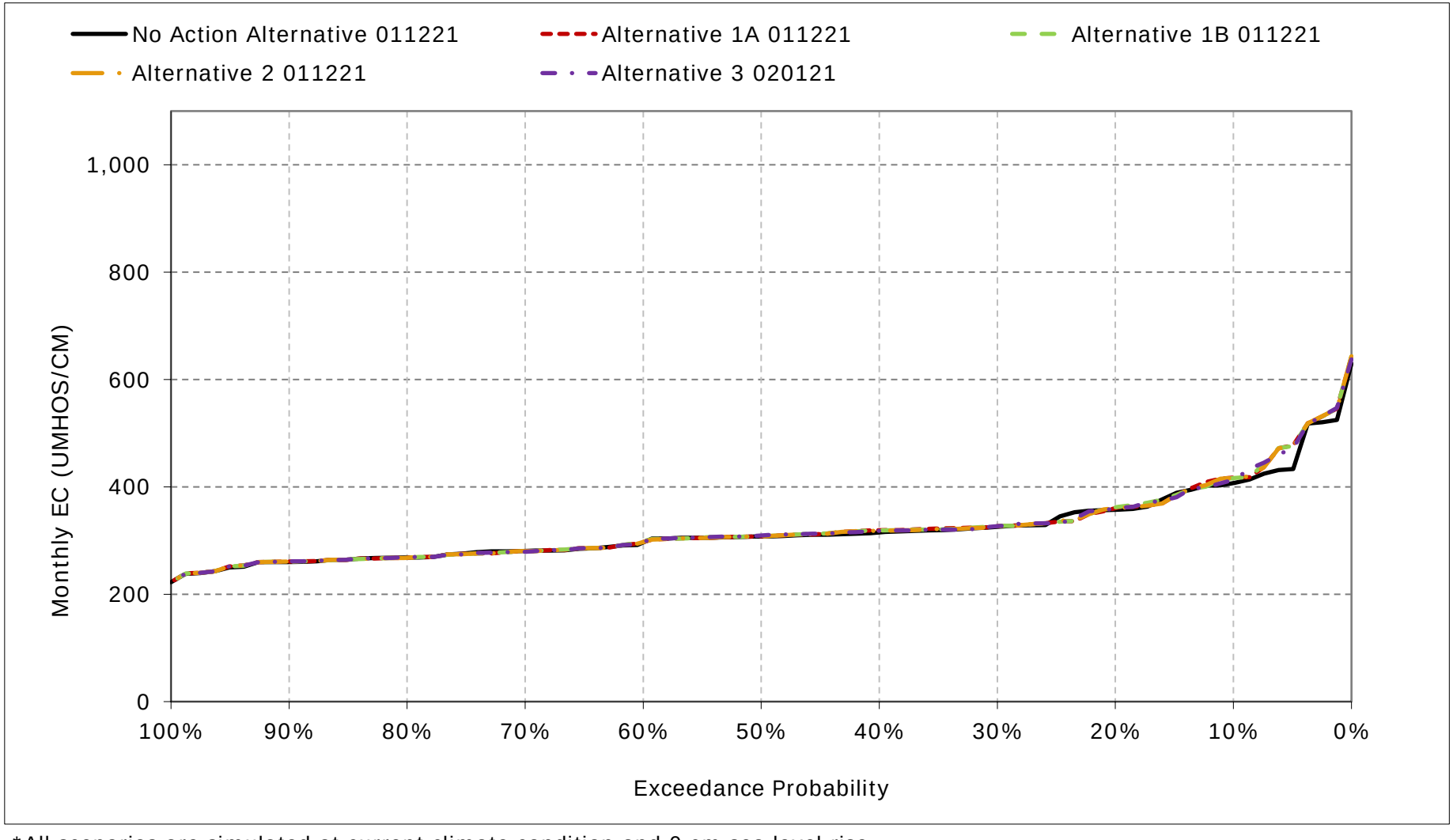
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-12. Banks Pumping Plant South Delta Exports Salinity, June EC



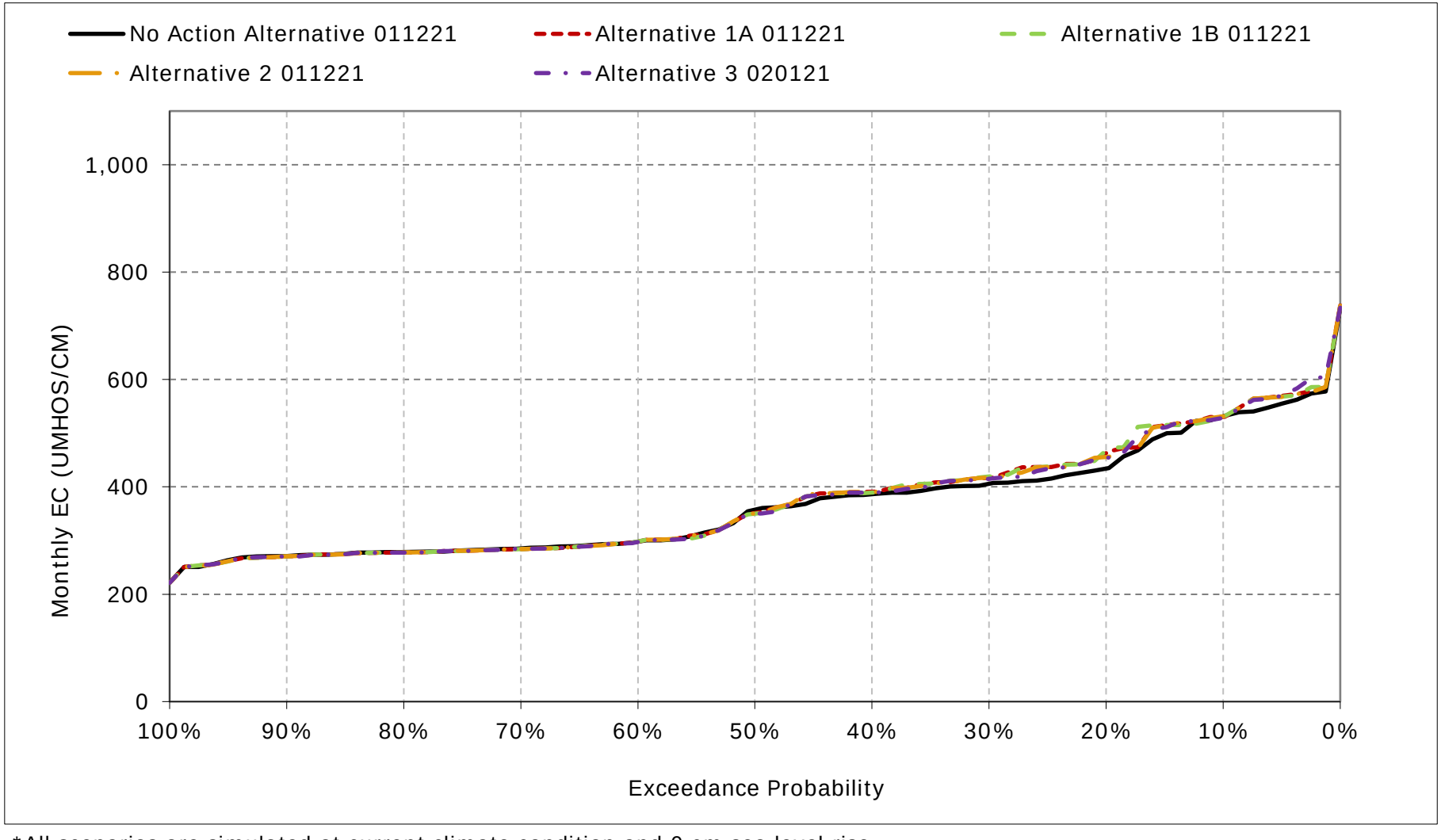
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-13. Banks Pumping Plant South Delta Exports Salinity, July EC



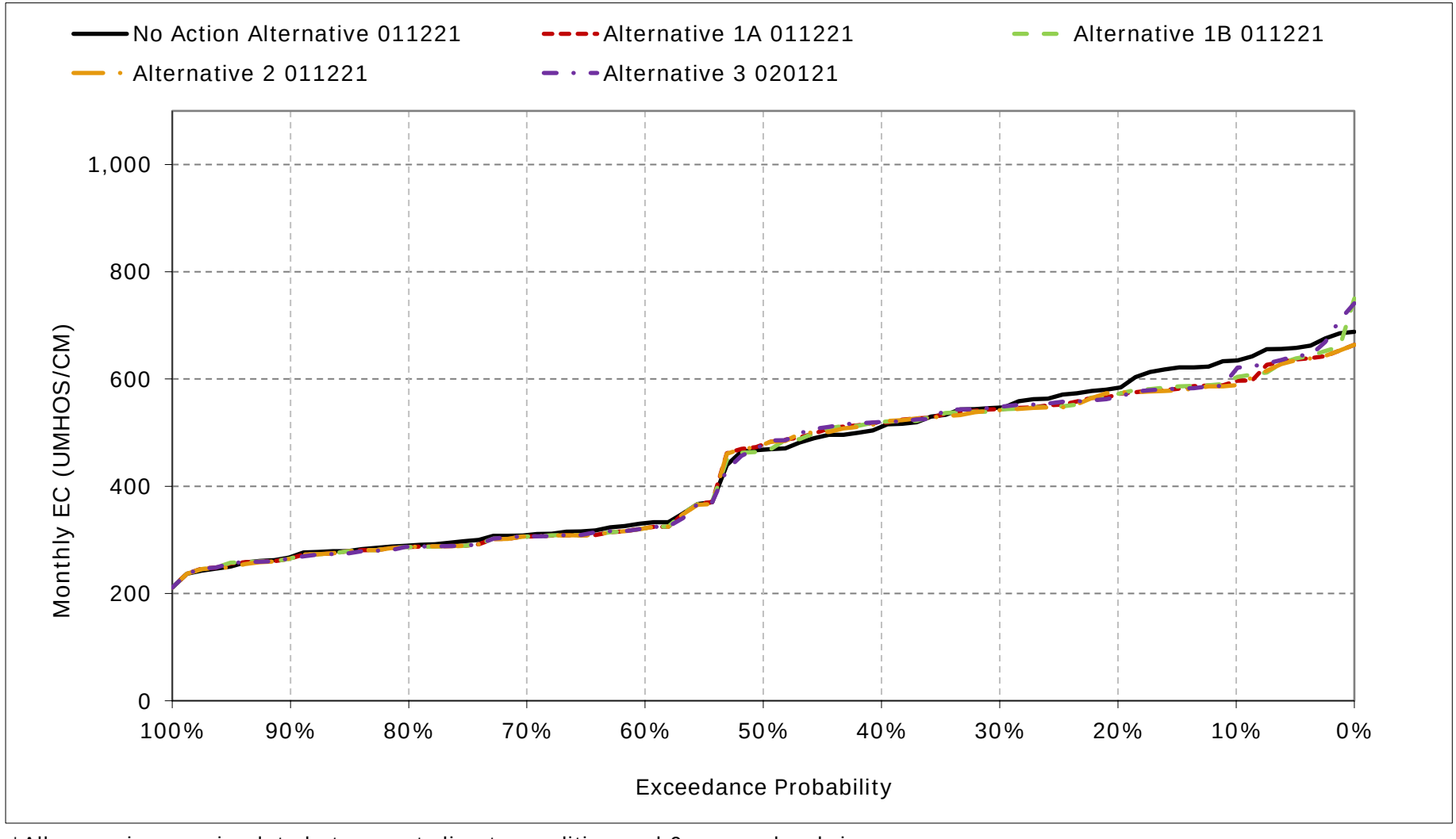
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-14. Banks Pumping Plant South Delta Exports Salinity, August EC



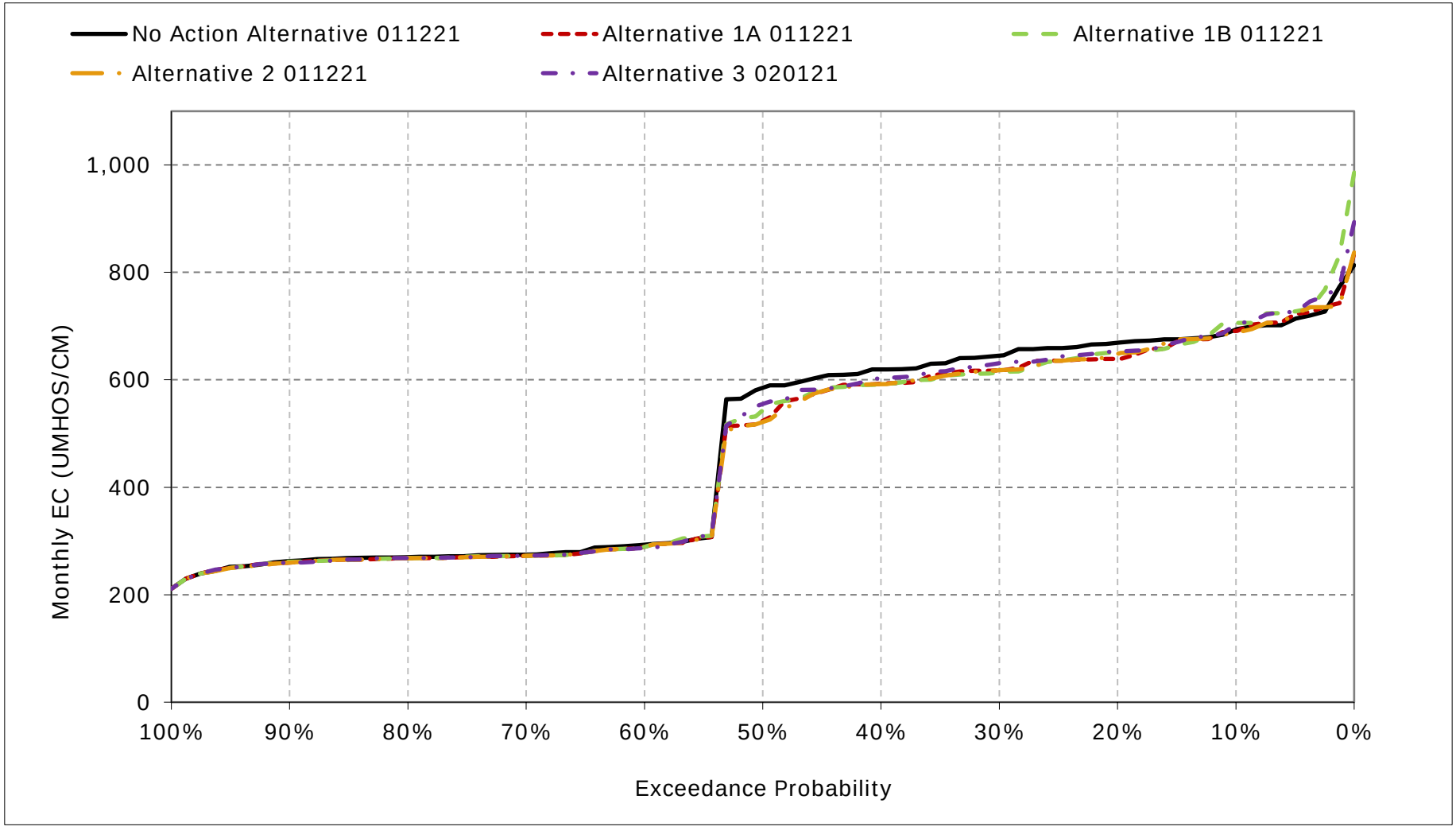
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-15. Banks Pumping Plant South Delta Exports Salinity, September EC



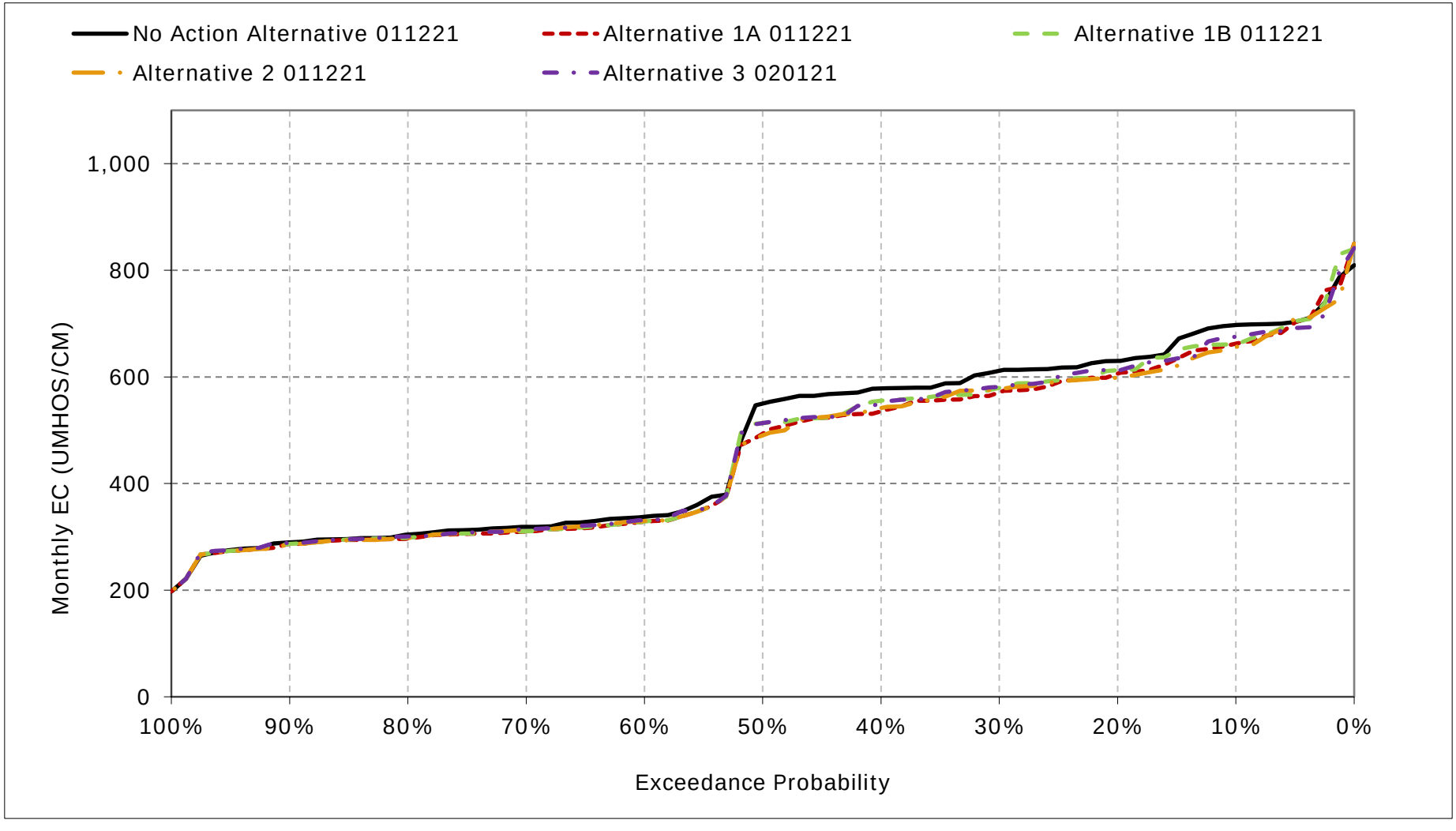
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-16. Banks Pumping Plant South Delta Exports Salinity, October EC



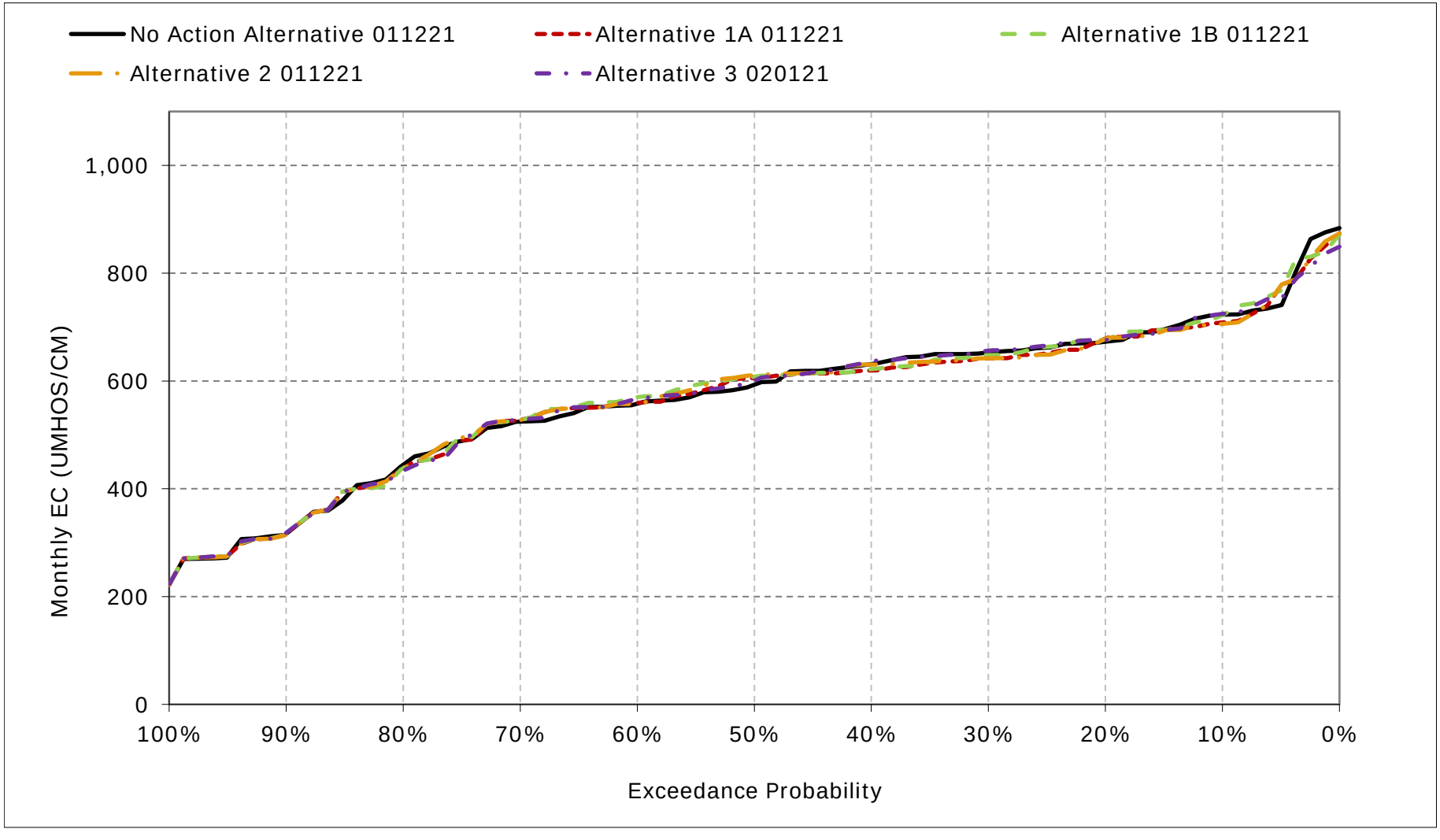
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-17. Banks Pumping Plant South Delta Exports Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-16-18. Banks Pumping Plant South Delta Exports Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-17-1a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	689	794	853	753	672	595	496	388	422	548	636
20%	645	639	742	818	703	626	517	452	371	389	459	600
30%	617	608	723	784	641	569	466	430	360	374	433	566
40%	593	586	696	709	609	558	402	397	347	354	421	544
50%	564	567	670	646	577	517	363	365	342	341	400	508
60%	370	395	634	611	535	476	340	356	335	332	334	371
70%	355	376	576	553	482	382	317	343	326	313	320	355
80%	336	365	520	510	414	334	288	322	315	302	312	338
90%	320	344	449	454	338	308	233	218	303	286	298	312
Long Term												
Full Simulation Period[a]	495	503	638	656	556	493	393	376	346	354	396	468
Water Year Types[b]												
Wet (32%)	325	357	537	512	415	360	272	285	323	319	305	322
Above Normal (15%)	364	388	641	673	556	437	332	342	337	325	321	364
Below Normal (17%)	622	583	631	681	537	496	385	376	338	333	428	604
Dry (22%)	606	623	684	731	658	605	479	452	343	369	476	551
Critical (15%)	677	658	795	813	734	662	600	496	420	459	513	603

Table 6B1-17-1b. Jones Pumping Plant South Delta Exports, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	664	658	789	854	750	673	589	500	389	438	545	613
20%	624	610	732	829	712	629	517	460	373	393	491	580
30%	596	589	723	784	641	572	473	432	355	375	447	559
40%	575	567	688	730	617	557	403	398	347	358	423	536
50%	534	531	675	680	586	517	363	364	342	341	394	501
60%	368	388	636	607	535	461	339	356	336	333	333	364
70%	349	370	589	556	482	382	317	344	328	318	319	351
80%	333	362	521	512	413	334	288	322	316	303	310	332
90%	319	339	449	454	339	308	233	218	303	288	298	310
Long Term												
Full Simulation Period[a]	483	489	637	660	559	495	393	377	346	357	400	459
Water Year Types[b]												
Wet (32%)	324	352	540	512	416	360	272	285	323	319	305	319
Above Normal (15%)	361	386	640	692	559	438	332	342	337	325	320	360
Below Normal (17%)	589	578	633	683	541	497	385	377	339	333	417	563
Dry (22%)	591	613	682	733	659	605	479	453	342	377	497	544
Critical (15%)	668	603	782	814	739	674	599	499	423	465	524	615

Table 6B1-17-1c. Jones Pumping Plant South Delta Exports, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-31	-5	2	-3	2	-6	3	1	16	-3	-23
20%	-20	-29	-10	11	8	2	0	8	1	4	32	-20
30%	-21	-19	0	0	-1	3	8	2	-5	1	14	-7
40%	-18	-19	-8	22	9	-1	0	0	0	3	3	-7
50%	-29	-36	4	33	10	0	0	0	0	0	-6	-7
60%	-2	-7	2	-3	1	-14	-1	0	1	1	-1	-7
70%	-6	-6	13	3	0	0	0	1	1	4	-1	-3
80%	-3	-3	1	2	0	0	0	0	0	1	-2	-6
90%	-1	-5	0	0	0	0	0	0	0	3	-1	-2
Long Term												
Full Simulation Period[a]	-11	-13	-1	4	2	2	0	1	0	3	4	-8
Water Year Types[b]												
Wet (32%)	-1	-5	2	0	0	0	0	0	0	1	0	-2
Above Normal (15%)	-3	-2	-1	19	4	0	0	0	0	0	-1	-4
Below Normal (17%)	-34	-5	3	2	4	1	1	0	0	0	-11	-40
Dry (22%)	-16	-10	-2	2	2	1	0	1	-1	8	22	-7
Critical (15%)	-9	-55	-13	1	5	12	0	3	2	6	11	11

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-17-2a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	689	794	853	753	672	595	496	388	422	548	636
20%	645	639	742	818	703	626	517	452	371	389	459	600
30%	617	608	723	784	641	569	466	430	360	374	433	566
40%	593	586	696	709	609	558	402	397	347	354	421	544
50%	564	567	670	646	577	517	363	365	342	341	400	508
60%	370	395	634	611	535	476	340	356	335	332	334	371
70%	355	376	576	553	482	382	317	343	326	313	320	355
80%	336	365	520	510	414	334	288	322	315	302	312	338
90%	320	344	449	454	338	308	233	218	303	286	298	312
Long Term												
Full Simulation Period[a]	495	503	638	656	556	493	393	376	346	354	396	468
Water Year Types[b]												
Wet (32%)	325	357	537	512	415	360	272	285	323	319	305	322
Above Normal (15%)	364	388	641	673	556	437	332	342	337	325	321	364
Below Normal (17%)	622	583	631	681	537	496	385	376	338	333	428	604
Dry (22%)	606	623	684	731	658	605	479	452	343	369	476	551
Critical (15%)	677	658	795	813	734	662	600	496	420	459	513	603

Table 6B1-17-2b. Jones Pumping Plant South Delta Exports, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	674	654	789	857	751	674	595	500	389	438	547	611
20%	625	616	743	829	712	627	517	460	373	390	494	588
30%	600	600	724	785	643	571	473	429	354	374	448	559
40%	576	566	687	731	617	557	403	396	346	355	422	534
50%	540	532	670	665	587	518	363	364	342	342	392	497
60%	369	388	636	607	535	471	339	356	336	335	333	364
70%	346	370	589	556	482	382	317	344	327	318	320	351
80%	333	362	523	512	413	334	288	322	316	303	310	332
90%	319	339	449	454	339	307	233	218	303	288	298	310
Long Term												
Full Simulation Period[a]	487	492	638	661	559	493	393	377	346	357	401	460
Water Year Types[b]												
Wet (32%)	324	352	540	512	416	360	272	285	323	319	304	319
Above Normal (15%)	362	389	640	693	559	437	332	341	337	325	320	360
Below Normal (17%)	588	577	630	684	541	497	385	377	339	333	416	562
Dry (22%)	598	619	686	731	658	605	479	452	340	377	499	546
Critical (15%)	683	611	783	817	739	667	597	498	422	465	524	619

Table 6B1-17-2c. Jones Pumping Plant South Delta Exports, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9	-35	-5	5	-2	2	0	3	1	16	-2	-25
20%	-20	-24	1	10	8	0	0	8	1	2	35	-12
30%	-17	-8	1	1	1	3	8	-1	-6	0	15	-7
40%	-17	-20	-9	23	9	-1	0	-1	-1	1	1	-10
50%	-24	-35	0	19	10	0	0	0	0	1	-8	-11
60%	-1	-7	2	-4	1	-5	-1	0	1	3	-1	-8
70%	-10	-6	13	3	0	0	0	1	1	4	-1	-3
80%	-3	-3	2	2	0	0	0	0	1	1	-2	-6
90%	-1	-4	0	0	1	0	0	0	0	2	-1	-2
Long Term												
Full Simulation Period[a]	-7	-10	0	4	2	1	0	0	0	3	4	-7
Water Year Types[b]												
Wet (32%)	-1	-5	3	0	0	0	0	0	0	1	0	-3
Above Normal (15%)	-2	1	-1	20	4	-1	0	0	0	-1	-1	-4
Below Normal (17%)	-34	-7	0	3	4	1	1	0	1	0	-12	-42
Dry (22%)	-8	-4	2	0	1	0	0	0	-3	8	24	-5
Critical (15%)	7	-47	-12	4	5	5	-3	2	2	6	11	16

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-17-3a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	689	794	853	753	672	595	496	388	422	548	636
20%	645	639	742	818	703	626	517	452	371	389	459	600
30%	617	608	723	784	641	569	466	430	360	374	433	566
40%	593	586	696	709	609	558	402	397	347	354	421	544
50%	564	567	670	646	577	517	363	365	342	341	400	508
60%	370	395	634	611	535	476	340	356	335	332	334	371
70%	355	376	576	553	482	382	317	343	326	313	320	355
80%	336	365	520	510	414	334	288	322	315	302	312	338
90%	320	344	449	454	338	308	233	218	303	286	298	312
Long Term												
Full Simulation Period[a]	495	503	638	656	556	493	393	376	346	354	396	468
Water Year Types[b]												
Wet (32%)	325	357	537	512	415	360	272	285	323	319	305	322
Above Normal (15%)	364	388	641	673	556	437	332	342	337	325	321	364
Below Normal (17%)	622	583	631	681	537	496	385	376	338	333	428	604
Dry (22%)	606	623	684	731	658	605	479	452	343	369	476	551
Critical (15%)	677	658	795	813	734	662	600	496	420	459	513	603

Table 6B1-17-3b. Jones Pumping Plant South Delta Exports, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	660	656	780	854	750	674	589	500	389	439	545	611
20%	628	611	736	830	712	627	517	460	373	393	491	581
30%	599	588	721	785	643	572	474	432	355	375	447	558
40%	575	569	694	727	617	557	403	398	347	356	423	535
50%	530	528	674	684	587	517	363	364	341	342	394	500
60%	367	389	635	608	535	461	339	356	336	333	333	364
70%	349	372	589	556	482	382	317	344	328	318	319	351
80%	333	362	521	512	413	334	288	322	316	303	310	332
90%	319	338	449	454	339	308	233	218	303	288	298	310
Long Term												
Full Simulation Period[a]	483	489	638	661	559	494	393	377	346	356	400	459
Water Year Types[b]												
Wet (32%)	324	353	541	512	416	360	272	285	323	319	304	319
Above Normal (15%)	361	386	640	693	559	437	332	342	337	325	320	360
Below Normal (17%)	586	577	633	688	542	497	385	377	339	333	417	562
Dry (22%)	592	610	687	732	658	605	479	453	342	377	498	546
Critical (15%)	667	606	782	817	739	669	598	498	422	465	521	609

Table 6B1-17-3c. Jones Pumping Plant South Delta Exports, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6	-32	-14	1	-4	2	-6	3	1	17	-3	-25
20%	-17	-28	-6	12	8	1	0	8	1	4	31	-19
30%	-18	-20	-1	1	1	3	8	2	-5	1	14	-8
40%	-18	-17	-2	18	9	-1	0	0	0	2	3	-9
50%	-34	-39	4	37	10	0	0	0	-1	1	-6	-8
60%	-2	-7	2	-2	1	-14	-1	0	1	1	-1	-7
70%	-6	-5	13	3	0	0	0	1	1	5	-1	-3
80%	-3	-3	0	2	0	0	0	0	0	1	-2	-6
90%	-2	-6	0	0	1	0	0	0	0	3	-1	-2
Long Term												
Full Simulation Period[a]	-12	-13	0	5	2	1	0	1	0	3	4	-9
Water Year Types[b]												
Wet (32%)	-2	-4	3	0	0	0	0	0	0	1	-1	-3
Above Normal (15%)	-3	-2	-1	20	4	0	0	0	0	0	-2	-4
Below Normal (17%)	-36	-6	3	7	5	1	1	0	0	0	-11	-42
Dry (22%)	-14	-14	3	1	0	0	0	1	-1	8	22	-5
Critical (15%)	-10	-52	-13	4	5	7	-2	2	2	6	8	6

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-17-4a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	689	794	853	753	672	595	496	388	422	548	636
20%	645	639	742	818	703	626	517	452	371	389	459	600
30%	617	608	723	784	641	569	466	430	360	374	433	566
40%	593	586	696	709	609	558	402	397	347	354	421	544
50%	564	567	670	646	577	517	363	365	342	341	400	508
60%	370	395	634	611	535	476	340	356	335	332	334	371
70%	355	376	576	553	482	382	317	343	326	313	320	355
80%	336	365	520	510	414	334	288	322	315	302	312	338
90%	320	344	449	454	338	308	233	218	303	286	298	312
Long Term												
Full Simulation Period[a]	495	503	638	656	556	493	393	376	346	354	396	468
Water Year Types[b]												
Wet (32%)	325	357	537	512	415	360	272	285	323	319	305	322
Above Normal (15%)	364	388	641	673	556	437	332	342	337	325	321	364
Below Normal (17%)	622	583	631	681	537	496	385	376	338	333	428	604
Dry (22%)	606	623	684	731	658	605	479	452	343	369	476	551
Critical (15%)	677	658	795	813	734	662	600	496	420	459	513	603

Table 6B1-17-4b. Jones Pumping Plant South Delta Exports, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	665	670	792	855	750	675	594	496	389	438	555	616
20%	624	620	745	822	705	628	517	461	372	390	479	584
30%	602	589	729	792	646	567	472	428	354	375	451	564
40%	588	572	701	731	613	557	403	396	346	356	421	537
50%	539	533	671	681	584	517	363	364	340	341	391	502
60%	369	392	636	610	535	471	339	356	337	333	332	365
70%	342	372	590	559	482	382	317	344	327	324	319	351
80%	330	363	520	512	414	334	288	322	316	300	310	331
90%	319	344	449	455	343	308	233	218	303	287	298	311
Long Term												
Full Simulation Period[a]	487	493	639	663	558	494	393	376	346	356	400	462
Water Year Types[b]												
Wet (32%)	324	352	541	512	416	360	272	285	323	319	305	319
Above Normal (15%)	352	392	636	692	560	437	332	341	337	323	320	356
Below Normal (17%)	591	587	628	699	542	498	385	377	339	333	417	564
Dry (22%)	600	603	695	732	656	604	478	449	340	376	495	550
Critical (15%)	686	621	784	814	735	671	598	498	423	464	526	626

Table 6B1-17-4c. Jones Pumping Plant South Delta Exports, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-18	-2	2	-3	3	-1	0	1	16	7	-20
20%	-21	-19	3	4	2	1	0	9	1	1	19	-16
30%	-16	-19	6	8	5	-1	6	-1	-6	1	18	-2
40%	-6	-14	5	22	5	-1	0	-1	-1	2	0	-7
50%	-24	-34	0	35	7	0	0	0	-1	0	-9	-6
60%	-1	-4	2	-1	1	-5	-1	0	2	1	-1	-7
70%	-13	-4	14	6	0	0	0	1	1	10	-1	-4
80%	-6	-2	0	2	0	0	0	0	0	-2	-2	-7
90%	-1	0	0	0	5	0	0	0	0	2	-1	-1
Long Term												
Full Simulation Period[a]	-7	-10	1	6	1	1	0	0	0	2	4	-6
Water Year Types[b]												
Wet (32%)	-1	-5	4	0	0	0	0	0	0	1	0	-3
Above Normal (15%)	-12	4	-5	19	4	0	0	0	0	-3	-2	-8
Below Normal (17%)	-32	4	-3	18	5	2	1	0	0	0	-12	-40
Dry (22%)	-6	-20	12	1	-1	-1	0	-2	-3	8	19	-1
Critical (15%)	9	-37	-11	1	1	9	-2	2	2	5	13	22

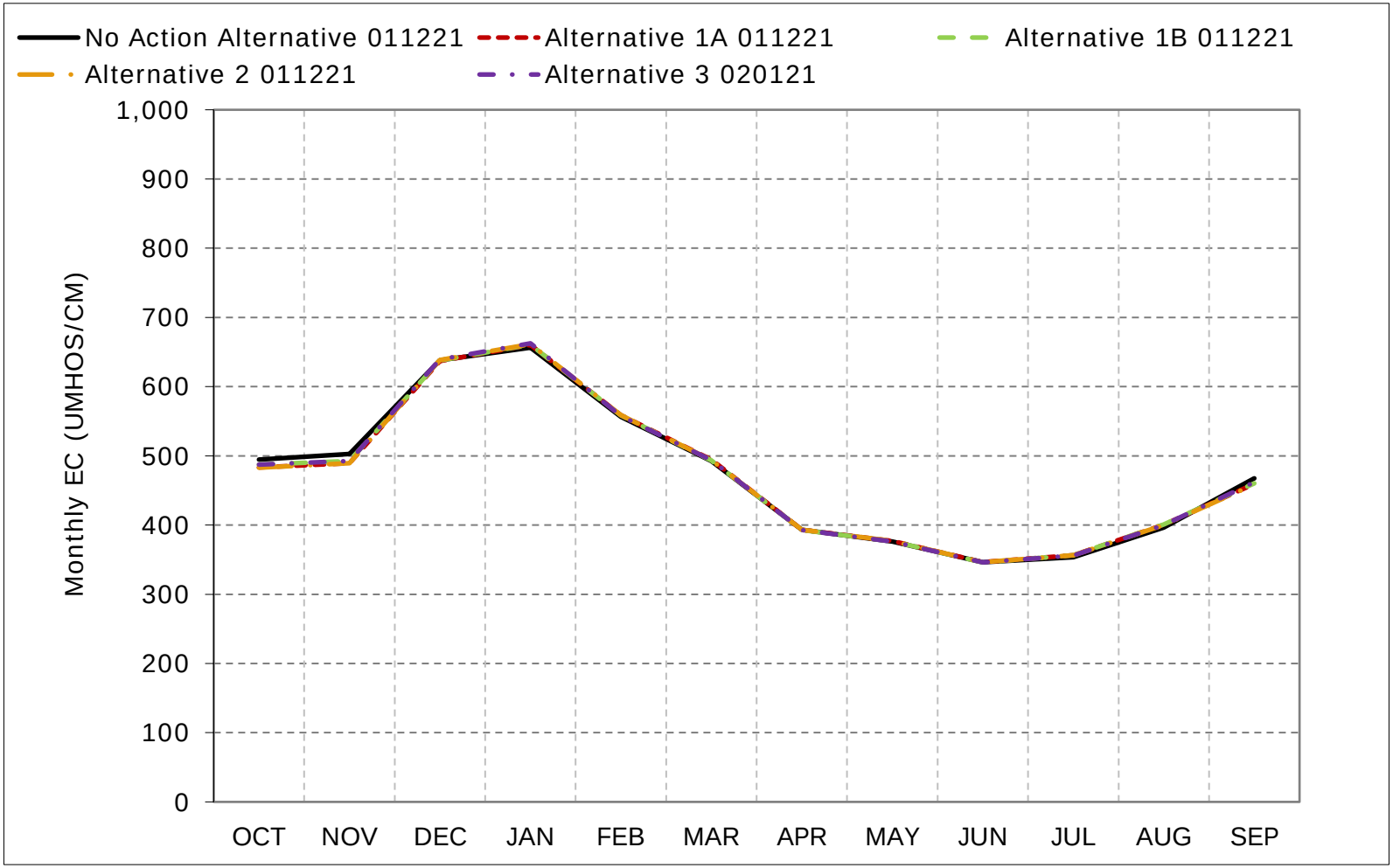
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-1. Jones Pumping Plant South Delta Exports, Long-Term Average EC

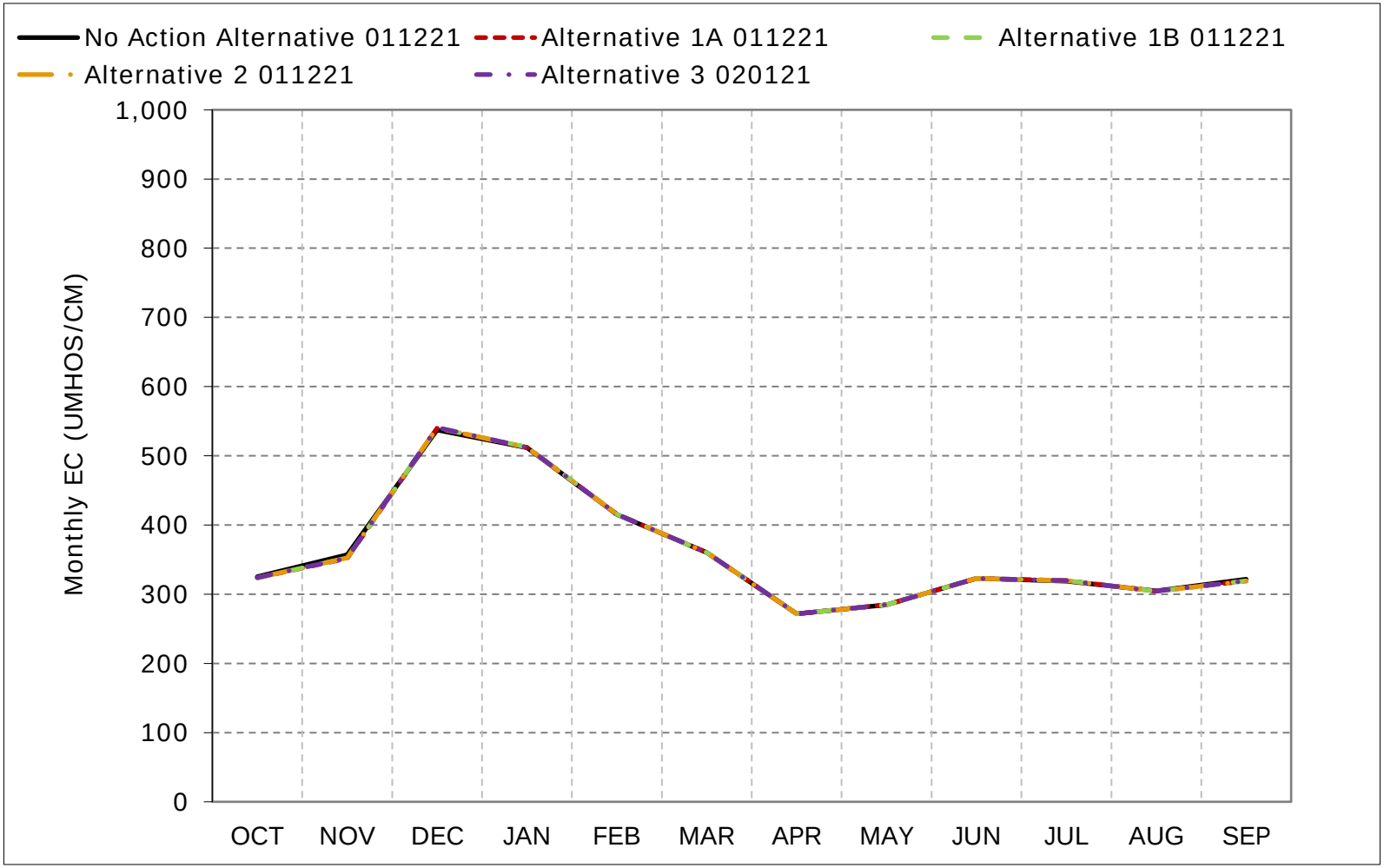


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-2. Jones Pumping Plant South Delta Exports, Wet Year Average EC

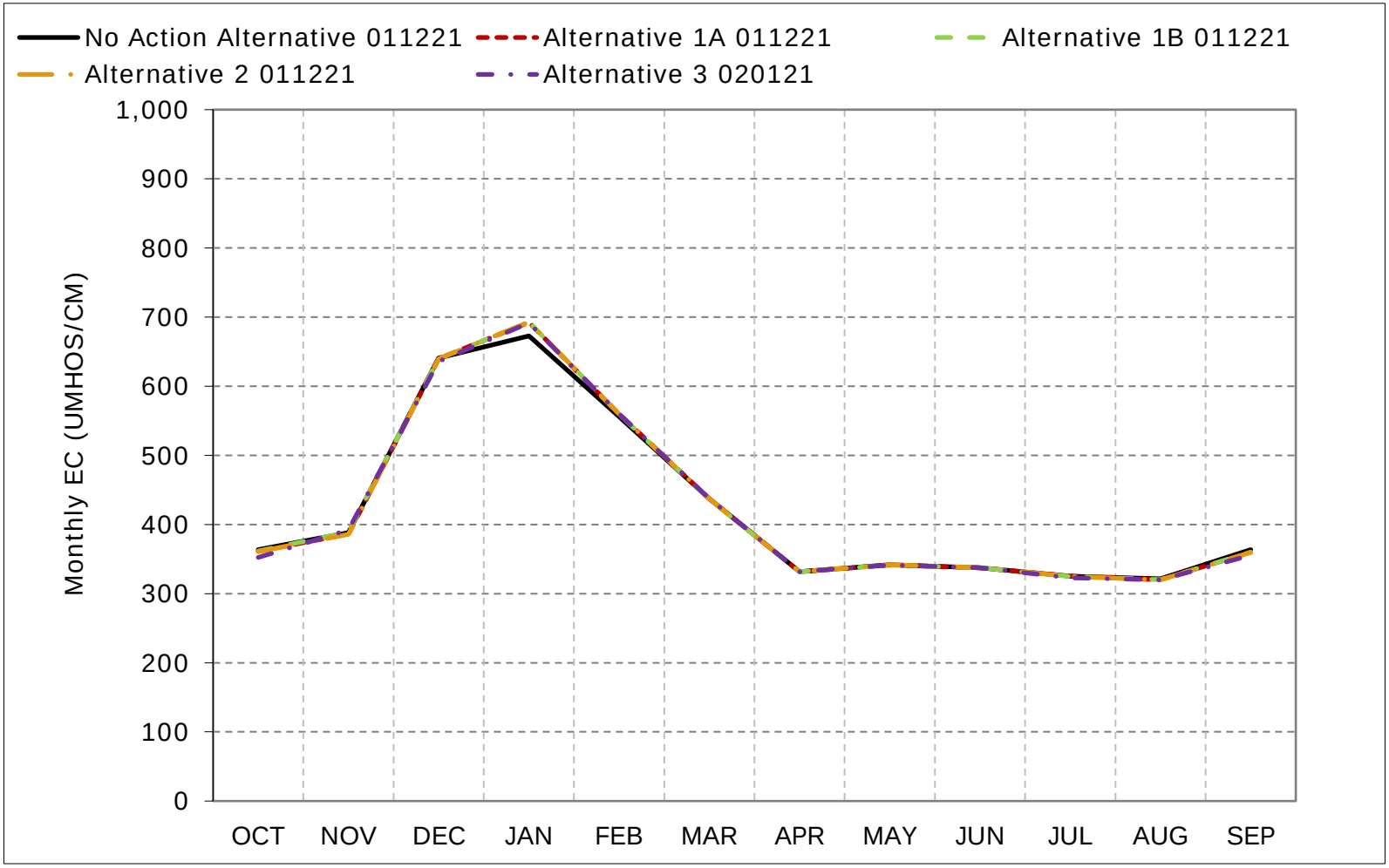


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-3. Jones Pumping Plant South Delta Exports, Above Normal Year Average EC

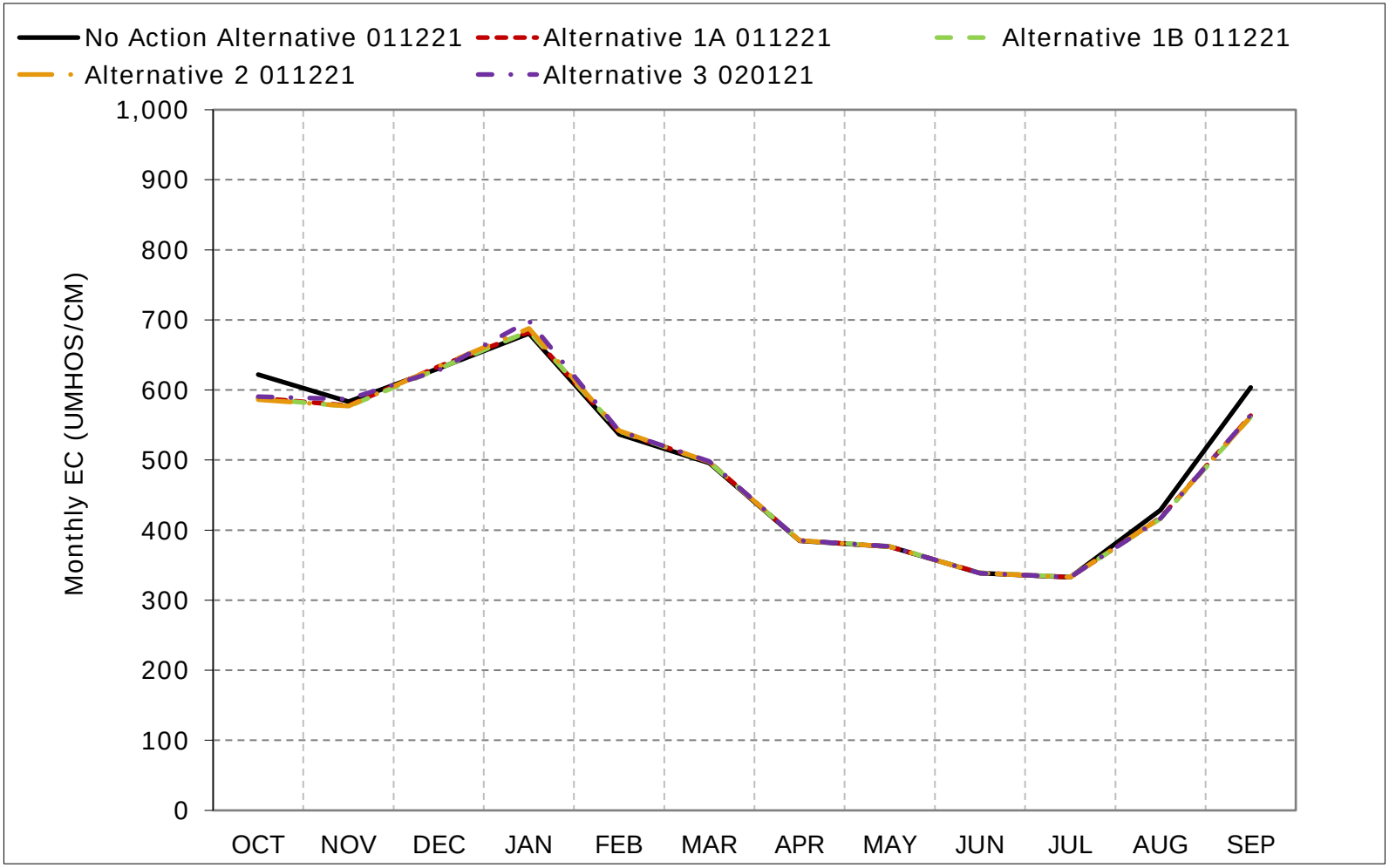


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-4. Jones Pumping Plant South Delta Exports, Below Normal Year Average EC

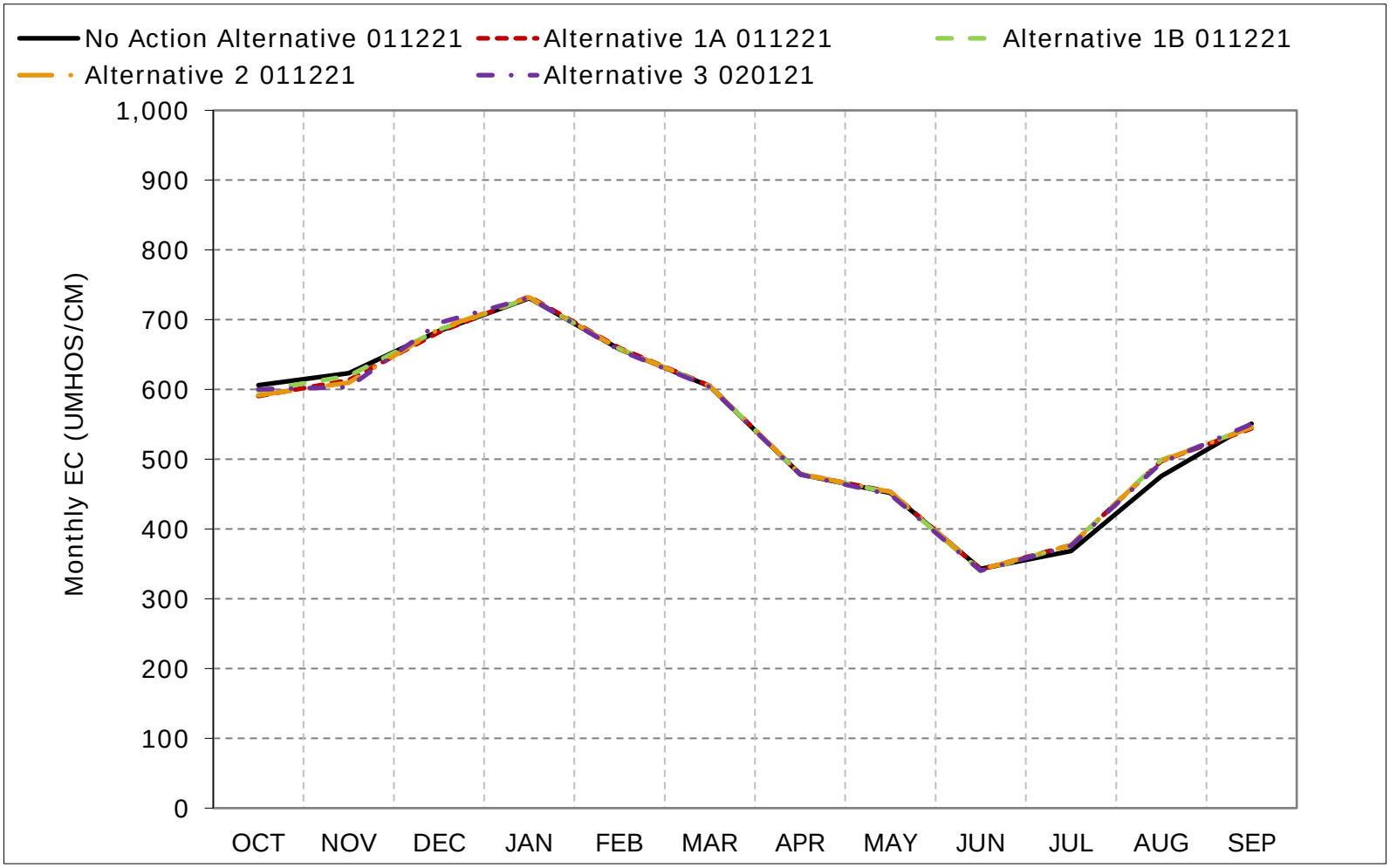


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-5. Jones Pumping Plant South Delta Exports, Dry Year Average EC

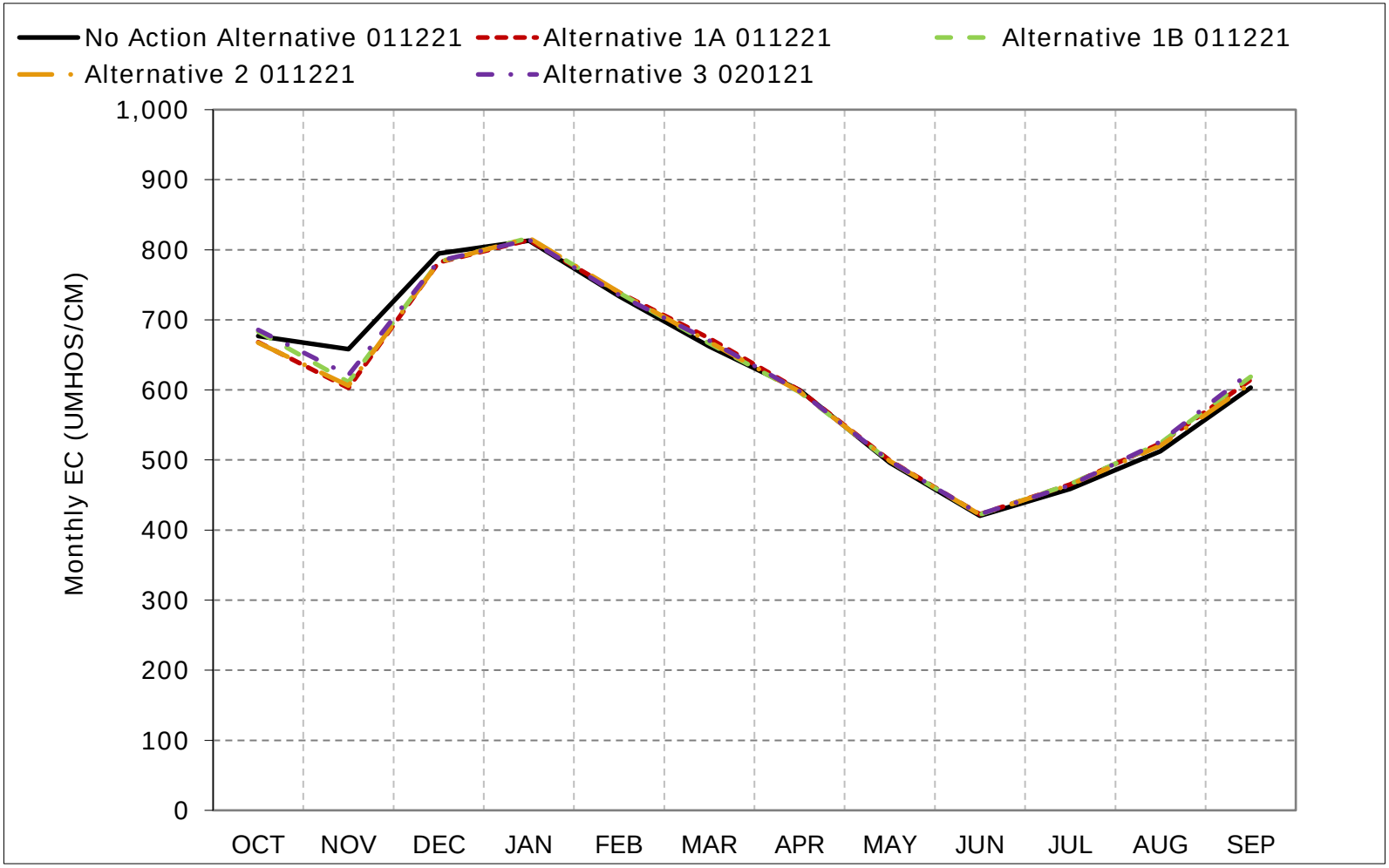


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-6. Jones Pumping Plant South Delta Exports, Critical Year Average EC

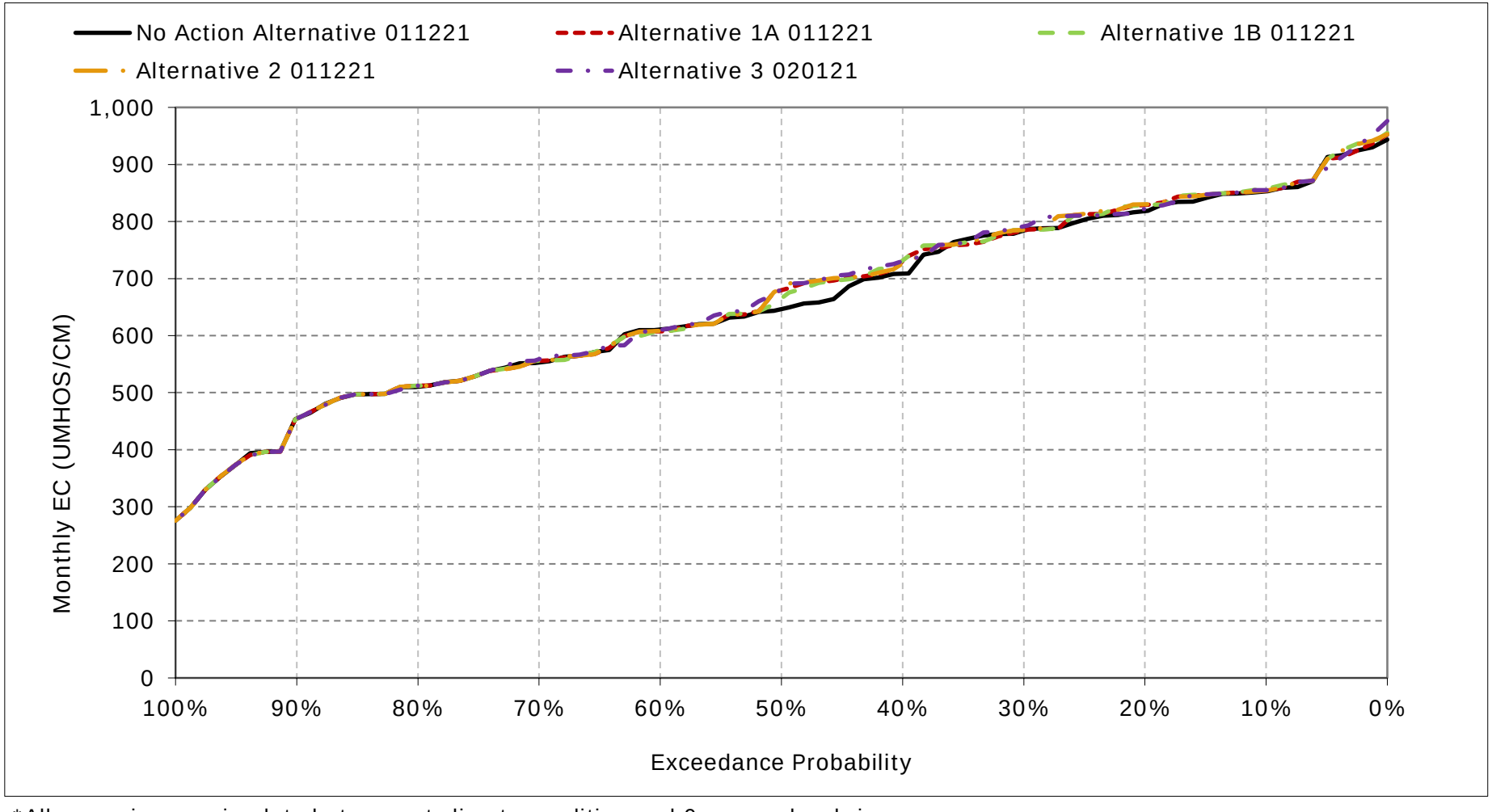


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

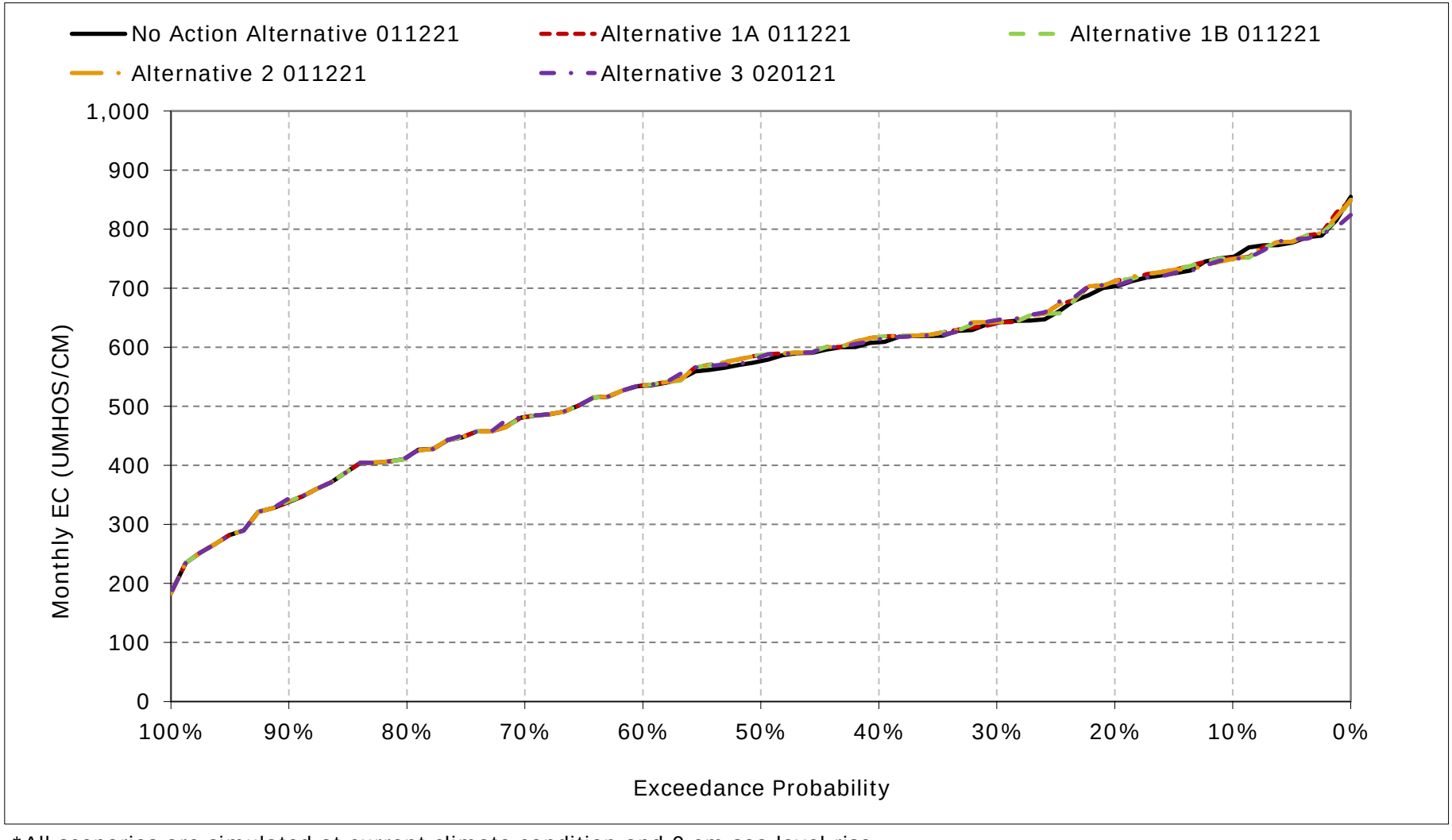
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-7. Jones Pumping Plant South Delta Exports Salinity, January EC



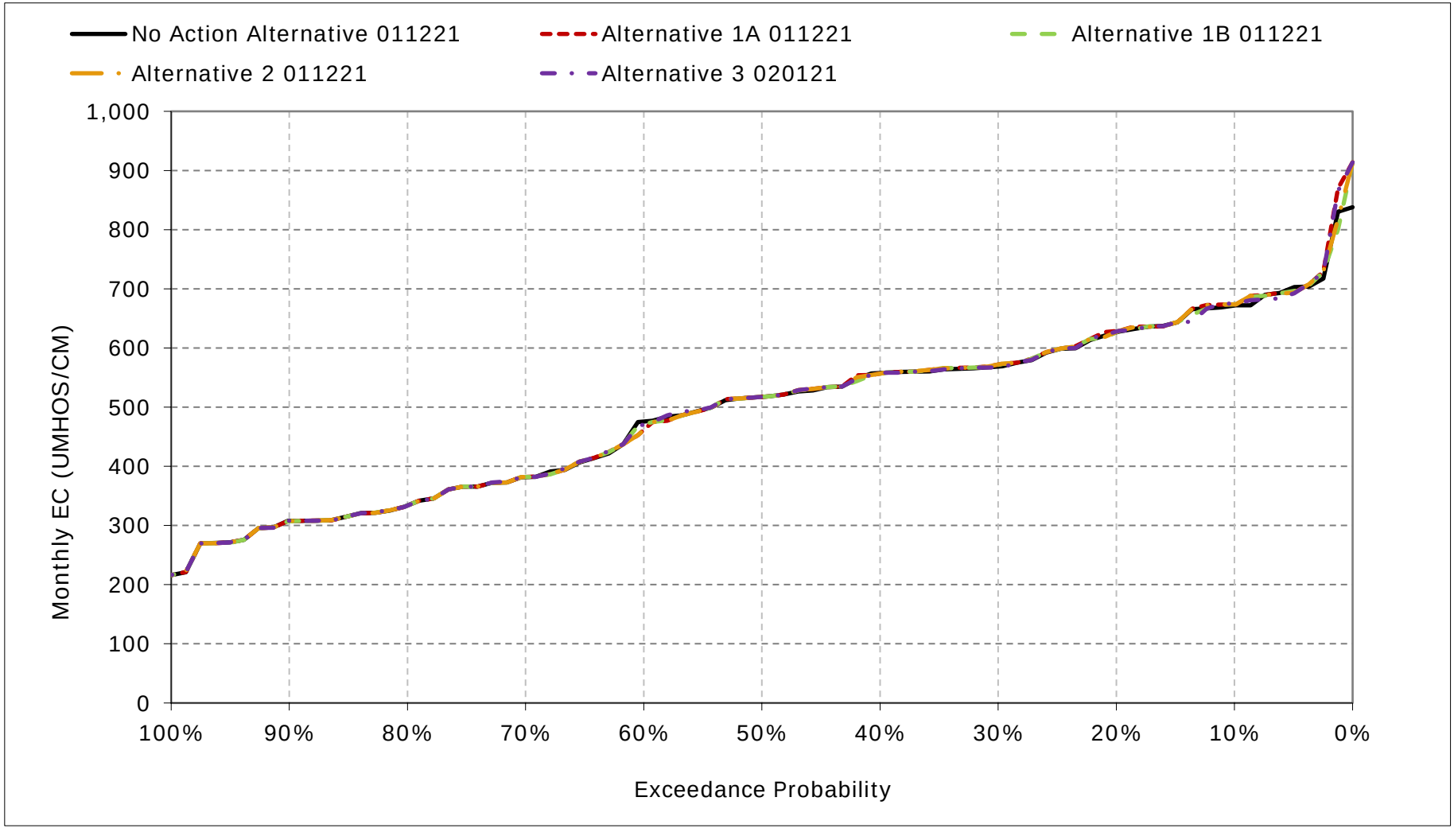
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-8. Jones Pumping Plant South Delta Exports Salinity, February EC



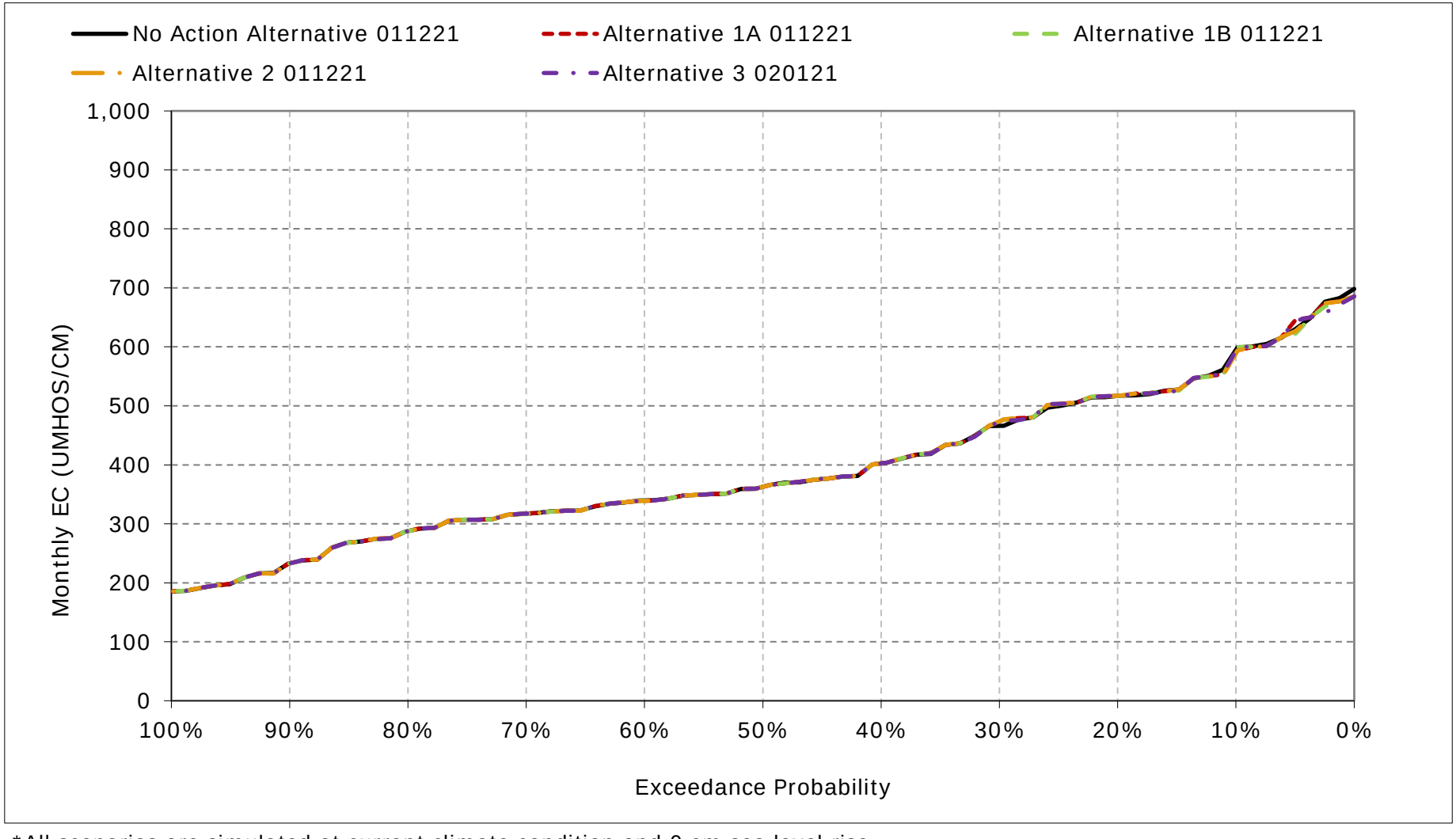
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-9. Jones Pumping Plant South Delta Exports Salinity, March EC



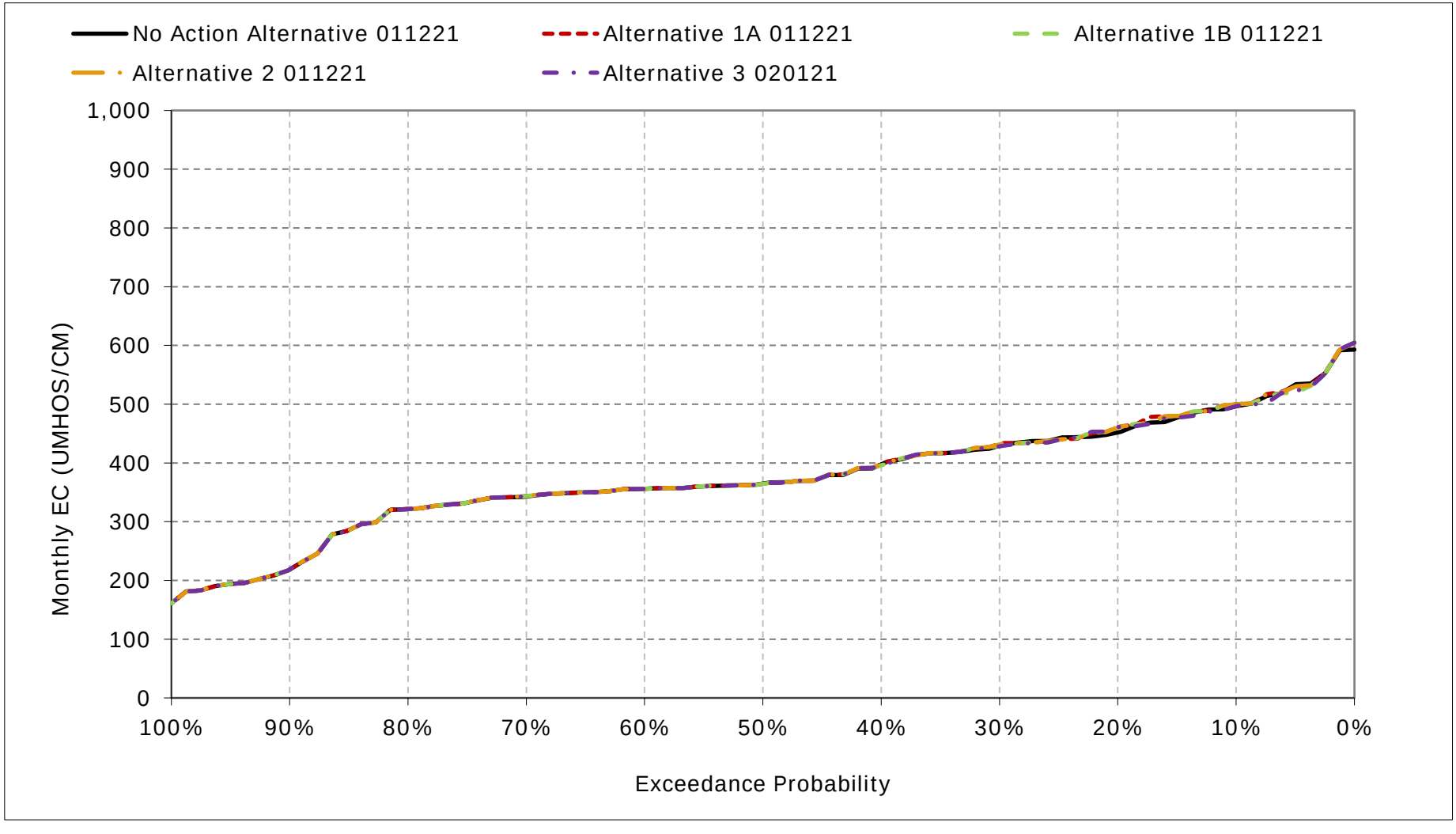
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-10. Jones Pumping Plant South Delta Exports Salinity, April EC



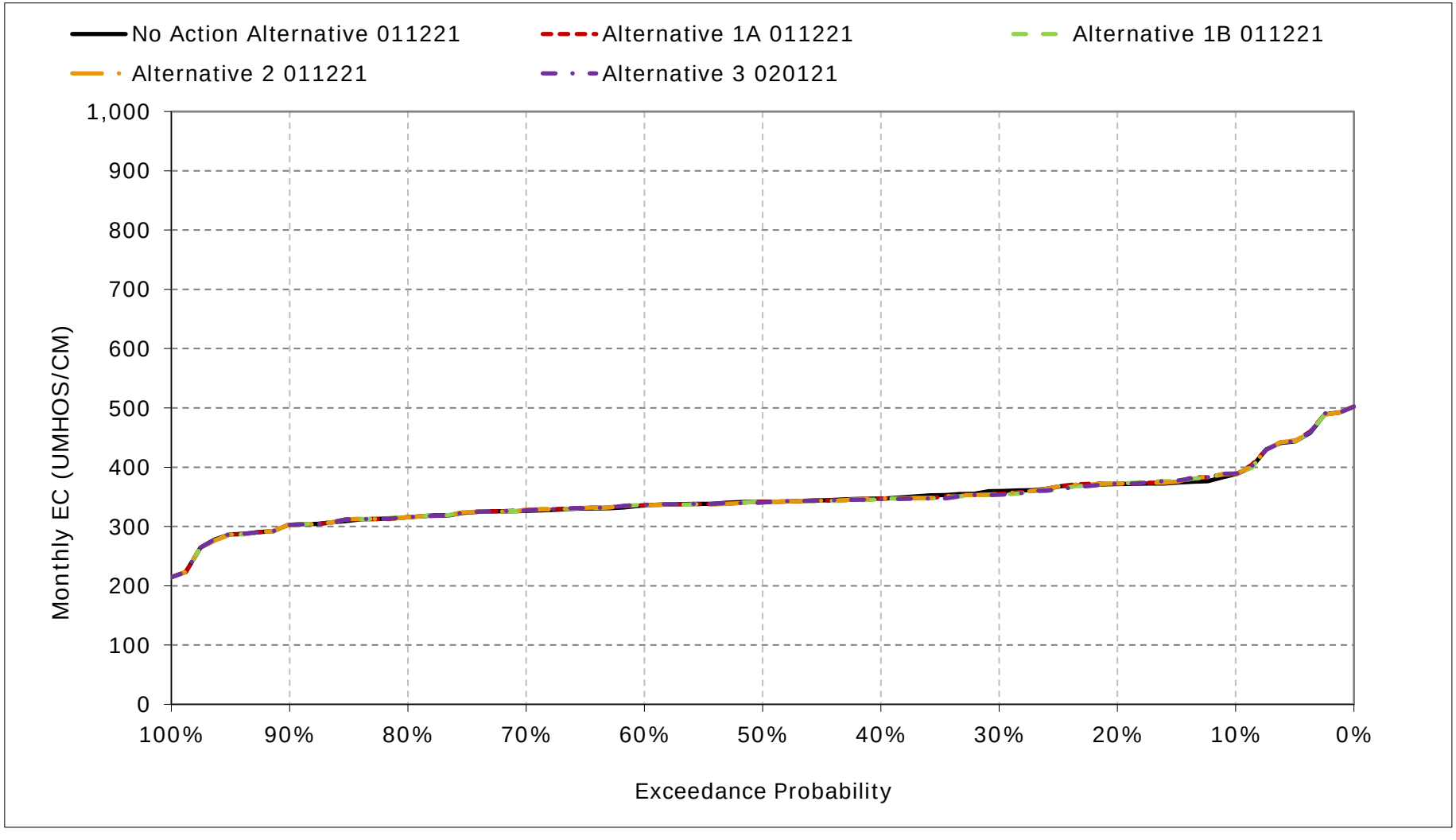
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-11. Jones Pumping Plant South Delta Exports Salinity, May EC



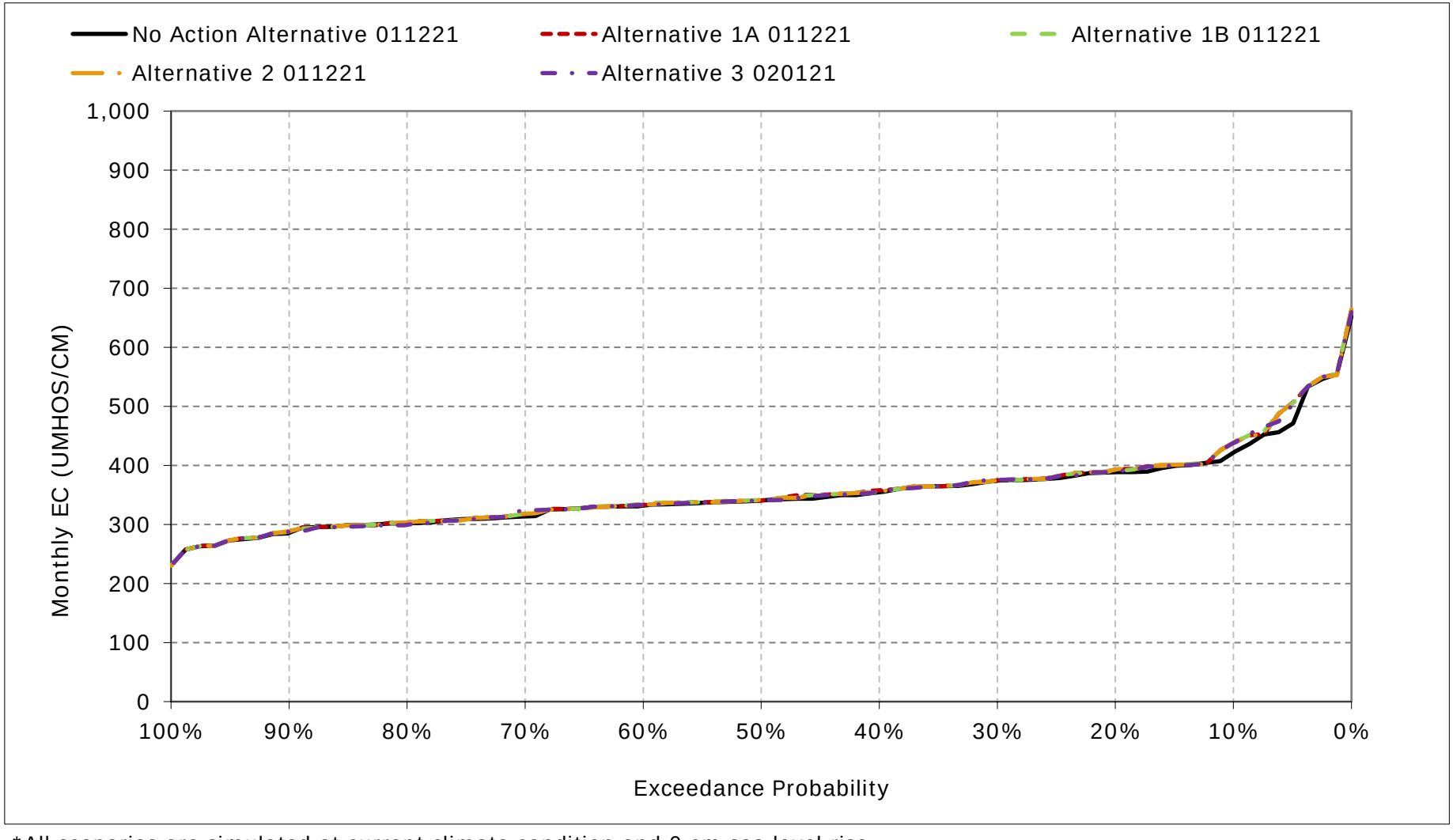
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-12. Jones Pumping Plant South Delta Exports Salinity, June EC



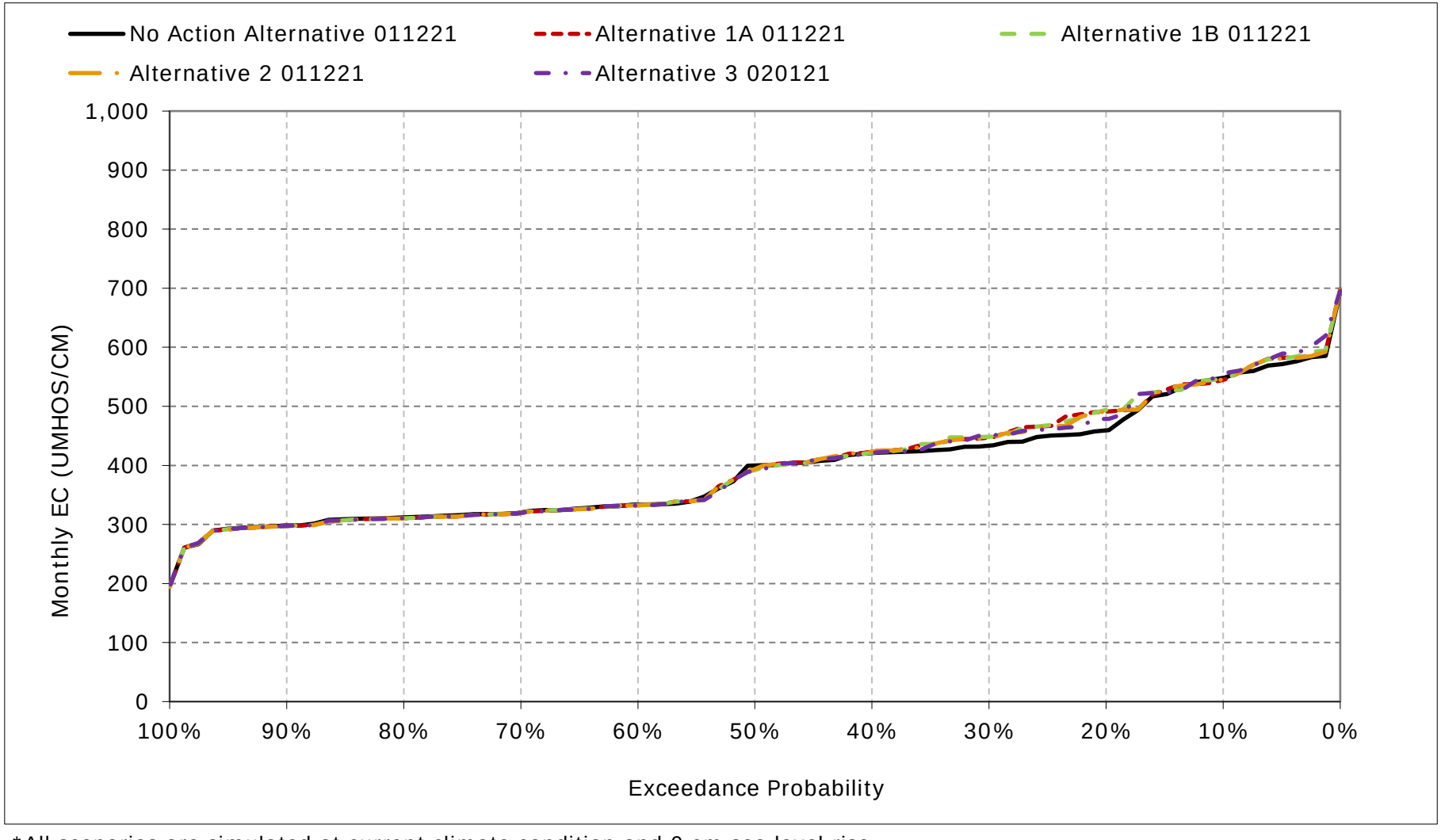
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-13. Jones Pumping Plant South Delta Exports Salinity, July EC



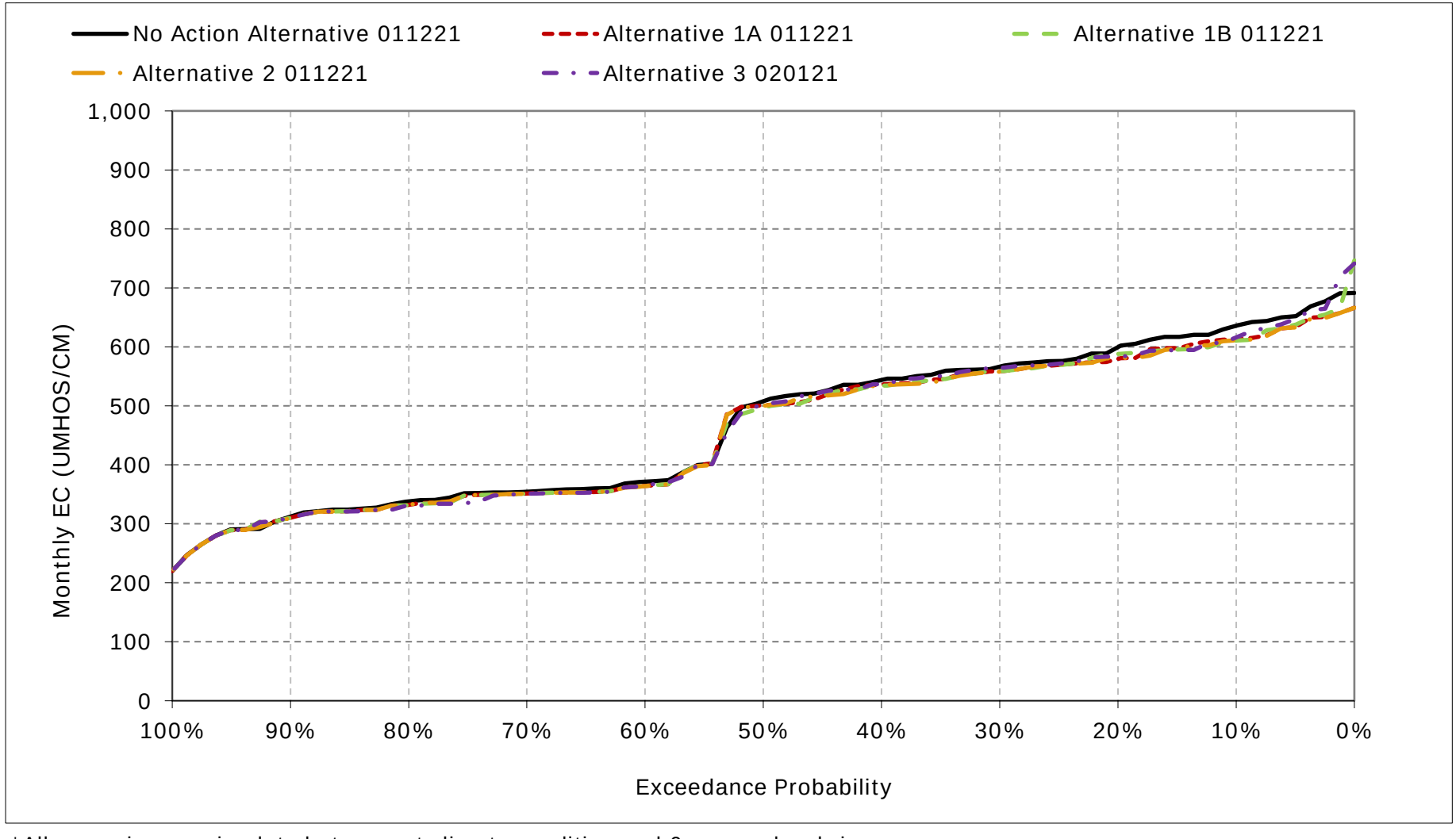
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-14. Jones Pumping Plant South Delta Exports Salinity, August EC



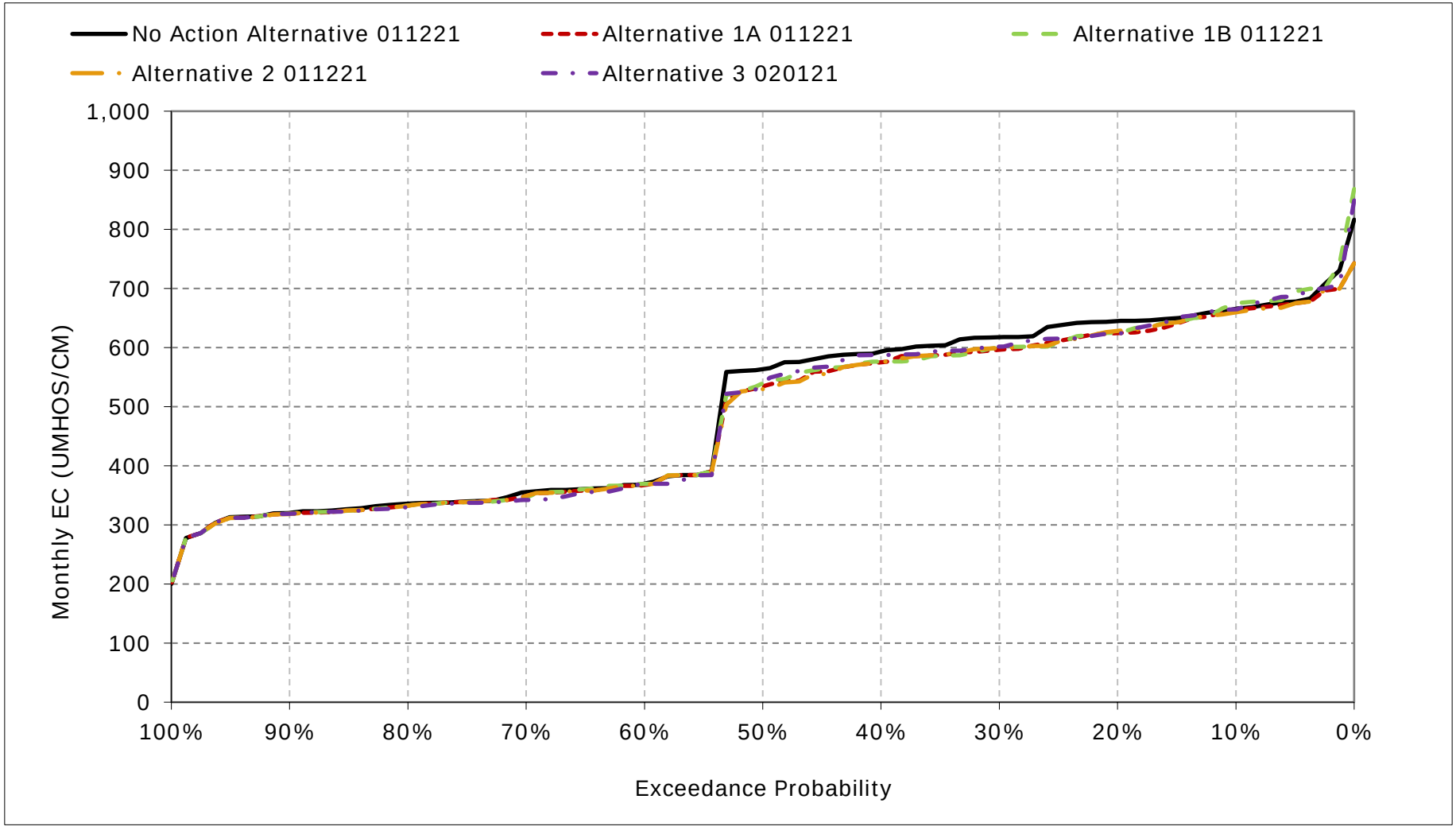
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-15. Jones Pumping Plant South Delta Exports Salinity, September EC



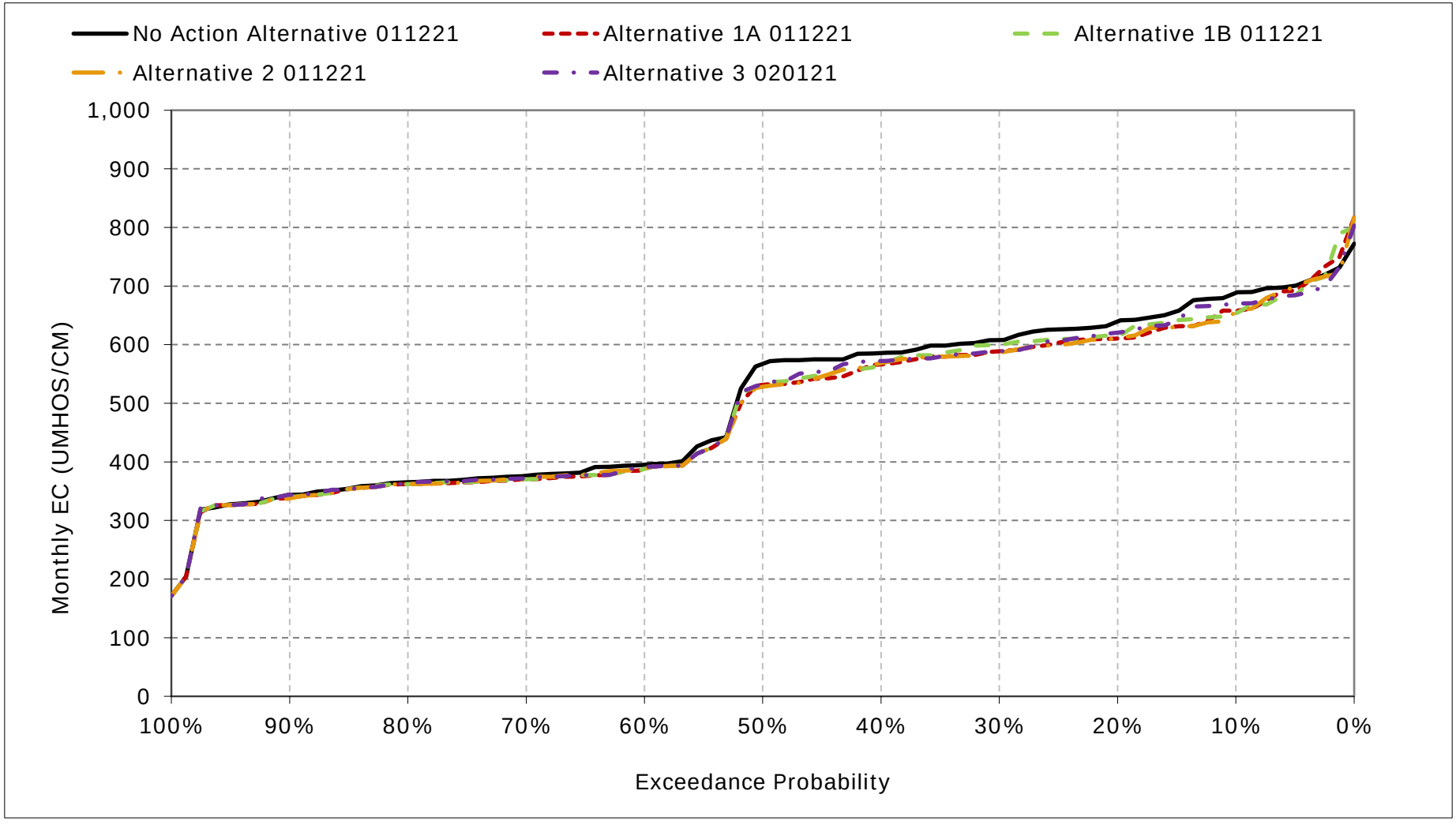
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-16. Jones Pumping Plant South Delta Exports Salinity, October EC



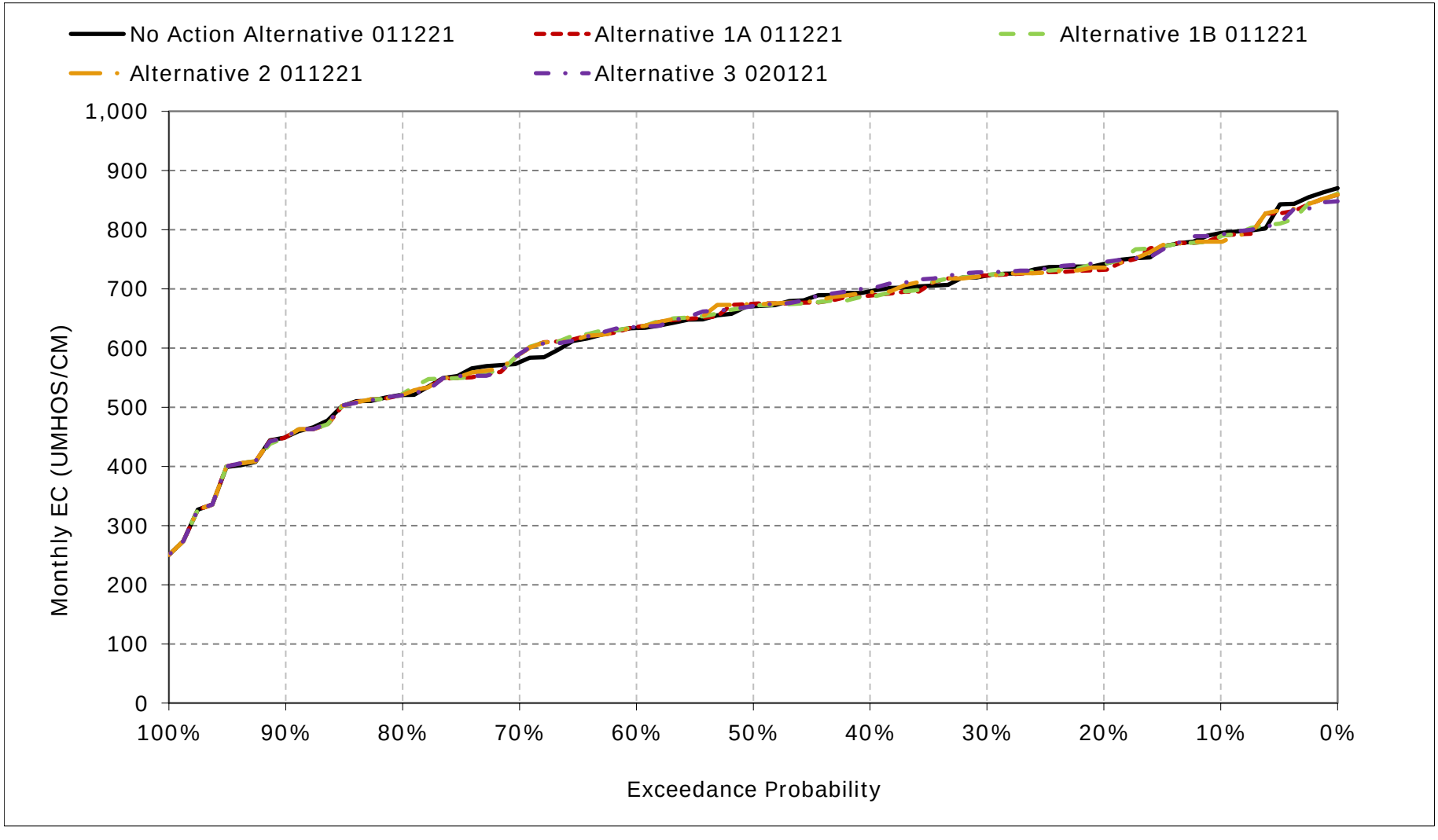
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-17. Jones Pumping Plant South Delta Exports Salinity, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-17-18. Jones Pumping Plant South Delta Exports Salinity, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-18-1a. Old River at Highway 4, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	789	768	807	943	615	467	443	375	356	445	590	737
20%	756	692	767	870	550	423	418	352	315	352	493	694
30%	726	661	730	793	501	397	397	342	296	328	451	644
40%	688	622	700	638	468	382	375	333	285	316	430	592
50%	654	575	671	546	435	364	363	325	282	290	383	553
60%	281	364	619	467	406	350	349	315	277	274	301	340
70%	262	332	518	437	370	333	344	305	272	264	283	311
80%	252	308	401	390	348	323	321	293	262	257	269	281
90%	247	285	349	350	325	302	297	255	256	251	257	254
Long Term												
Full Simulation Period[a]	515	511	613	611	450	372	363	321	296	321	392	490
Water Year Types[b]												
Wet (32%)	252	317	507	436	396	345	316	273	266	263	269	279
Above Normal (15%)	266	342	618	626	452	377	347	310	276	263	287	316
Below Normal (17%)	752	642	613	659	425	367	387	331	279	301	443	715
Dry (22%)	702	668	641	686	473	386	400	356	296	361	497	615
Critical (15%)	776	709	793	805	557	410	400	372	399	469	548	670

Table 6B1-18-1b. Old River at Highway 4, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	765	729	822	940	610	479	449	385	362	467	583	694
20%	726	655	764	878	556	426	418	357	314	353	522	656
30%	696	617	726	822	509	399	402	342	296	335	468	628
40%	662	575	706	693	477	383	376	333	287	319	440	590
50%	579	526	658	586	441	371	367	327	282	290	377	551
60%	277	348	613	472	406	351	349	316	277	274	300	330
70%	257	320	528	428	371	335	345	305	272	264	281	305
80%	248	305	402	390	348	325	322	293	262	258	268	276
90%	243	275	351	350	326	298	297	255	256	251	255	252
Long Term												
Full Simulation Period[a]	496	489	613	619	453	374	365	322	297	326	396	477
Water Year Types[b]												
Wet (32%)	249	308	512	437	396	346	316	274	266	263	268	275
Above Normal (15%)	263	339	617	661	458	378	347	310	277	263	285	310
Below Normal (17%)	692	633	618	662	431	369	388	331	280	301	425	650
Dry (22%)	677	653	644	692	477	387	402	357	296	374	522	601
Critical (15%)	766	618	776	811	565	418	405	374	402	479	561	694

Table 6B1-18-1c. Old River at Highway 4, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-23	-39	14	-4	-5	12	5	10	7	22	-7	-44
20%	-30	-36	-3	8	6	3	0	5	-2	2	28	-38
30%	-30	-44	-4	28	8	2	4	0	0	7	17	-16
40%	-27	-47	6	54	9	1	0	0	2	2	10	-3
50%	-76	-50	-13	40	6	7	4	2	0	0	-6	-2
60%	-4	-15	-6	5	0	1	0	1	0	0	-1	-10
70%	-4	-11	10	-9	0	1	1	0	0	0	-2	-6
80%	-4	-3	1	0	0	2	0	0	0	1	-1	-5
90%	-3	-11	2	0	0	-4	0	0	0	0	-1	-2
Long Term												
Full Simulation Period[a]	-19	-21	1	8	4	2	1	1	1	5	4	-13
Water Year Types[b]												
Wet (32%)	-3	-9	5	1	0	1	0	0	0	0	-1	-4
Above Normal (15%)	-3	-3	-1	35	6	1	0	0	0	0	-2	-6
Below Normal (17%)	-60	-10	5	3	6	2	1	0	1	0	-18	-65
Dry (22%)	-25	-15	3	6	4	1	2	1	0	14	25	-14
Critical (15%)	-9	-91	-17	6	9	8	4	2	3	10	13	24

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-18-2a. Old River at Highway 4, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	789	768	807	943	615	467	443	375	356	445	590	737
20%	756	692	767	870	550	423	418	352	315	352	493	694
30%	726	661	730	793	501	397	397	342	296	328	451	644
40%	688	622	700	638	468	382	375	333	285	316	430	592
50%	654	575	671	546	435	364	363	325	282	290	383	553
60%	281	364	619	467	406	350	349	315	277	274	301	340
70%	262	332	518	437	370	333	344	305	272	264	283	311
80%	252	308	401	390	348	323	321	293	262	257	269	281
90%	247	285	349	350	325	302	297	255	256	251	257	254
Long Term												
Full Simulation Period[a]	515	511	613	611	450	372	363	321	296	321	392	490
Water Year Types[b]												
Wet (32%)	252	317	507	436	396	345	316	273	266	263	269	279
Above Normal (15%)	266	342	618	626	452	377	347	310	276	263	287	316
Below Normal (17%)	752	642	613	659	425	367	387	331	279	301	443	715
Dry (22%)	702	668	641	686	473	386	400	356	296	361	497	615
Critical (15%)	776	709	793	805	557	410	400	372	399	469	548	670

Table 6B1-18-2b. Old River at Highway 4, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	780	744	817	940	612	478	448	384	362	466	586	706
20%	732	660	766	877	556	426	414	352	310	353	521	656
30%	687	630	730	820	511	398	399	340	296	335	467	624
40%	660	583	706	698	477	383	376	333	287	321	436	597
50%	603	552	658	594	442	371	367	326	282	290	376	530
60%	277	348	626	471	405	351	349	316	277	274	300	330
70%	257	323	532	425	371	335	345	305	272	264	281	305
80%	249	306	401	391	348	323	322	293	262	258	268	276
90%	243	276	344	350	325	298	301	255	256	251	255	252
Long Term												
Full Simulation Period[a]	503	494	614	620	453	374	364	321	296	326	396	479
Water Year Types[b]												
Wet (32%)	249	309	513	439	396	346	316	274	266	263	268	275
Above Normal (15%)	265	343	617	661	458	378	348	310	276	263	285	311
Below Normal (17%)	692	631	613	664	431	369	388	331	280	301	422	647
Dry (22%)	689	668	647	689	476	387	401	356	295	376	525	603
Critical (15%)	790	629	780	814	564	415	402	373	402	480	561	703

Table 6B1-18-2c. Old River at Highway 4, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-9	-24	10	-3	-2	10	4	9	6	21	-5	-31
20%	-24	-31	-1	7	6	3	-4	0	-6	2	28	-38
30%	-39	-30	1	27	10	1	1	-2	0	7	15	-20
40%	-28	-39	6	60	9	1	0	0	2	5	6	5
50%	-51	-23	-13	48	7	7	3	1	0	0	-8	-23
60%	-3	-15	7	4	-1	1	0	1	0	0	-1	-10
70%	-4	-9	13	-12	0	1	1	0	0	0	-2	-6
80%	-2	-1	0	1	0	0	0	0	0	1	-2	-5
90%	-3	-10	-5	0	0	-4	4	0	0	0	-1	-2
Long Term												
Full Simulation Period[a]	-12	-16	1	9	4	2	1	0	0	5	4	-11
Water Year Types[b]												
Wet (32%)	-3	-8	6	4	0	1	1	0	0	0	-1	-4
Above Normal (15%)	-1	1	-1	35	6	1	2	0	0	0	-2	-5
Below Normal (17%)	-61	-12	-1	5	6	2	1	0	1	0	-21	-68
Dry (22%)	-14	0	7	3	3	1	1	0	-1	16	28	-12
Critical (15%)	15	-80	-13	9	8	5	1	1	3	10	13	34

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-18-3a. Old River at Highway 4, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	789	768	807	943	615	467	443	375	356	445	590	737
20%	756	692	767	870	550	423	418	352	315	352	493	694
30%	726	661	730	793	501	397	397	342	296	328	451	644
40%	688	622	700	638	468	382	375	333	285	316	430	592
50%	654	575	671	546	435	364	363	325	282	290	383	553
60%	281	364	619	467	406	350	349	315	277	274	301	340
70%	262	332	518	437	370	333	344	305	272	264	283	311
80%	252	308	401	390	348	323	321	293	262	257	269	281
90%	247	285	349	350	325	302	297	255	256	251	257	254
Long Term												
Full Simulation Period[a]	515	511	613	611	450	372	363	321	296	321	392	490
Water Year Types[b]												
Wet (32%)	252	317	507	436	396	345	316	273	266	263	269	279
Above Normal (15%)	266	342	618	626	452	377	347	310	276	263	287	316
Below Normal (17%)	752	642	613	659	425	367	387	331	279	301	443	715
Dry (22%)	702	668	641	686	473	386	400	356	296	361	497	615
Critical (15%)	776	709	793	805	557	410	400	372	399	469	548	670

Table 6B1-18-3b. Old River at Highway 4, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	765	729	823	940	610	478	448	385	362	467	586	703
20%	727	654	762	876	556	426	417	353	314	353	512	664
30%	696	622	729	822	509	398	402	342	296	334	469	628
40%	663	578	709	691	477	383	376	333	287	319	440	593
50%	579	534	661	587	441	371	367	327	282	290	375	552
60%	277	355	624	471	406	351	349	316	277	274	300	330
70%	257	323	528	428	371	335	345	305	272	264	281	305
80%	248	304	401	390	348	325	322	291	262	258	268	276
90%	243	275	351	350	325	298	297	255	256	251	255	252
Long Term												
Full Simulation Period[a]	496	489	616	621	454	374	365	322	297	326	395	476
Water Year Types[b]												
Wet (32%)	249	310	514	437	396	346	316	274	266	263	268	274
Above Normal (15%)	263	339	617	662	458	378	347	310	276	263	285	309
Below Normal (17%)	688	631	618	671	433	369	388	331	280	301	425	648
Dry (22%)	678	648	653	690	477	387	402	357	296	374	523	603
Critical (15%)	765	623	777	815	565	415	402	373	402	479	557	686

Table 6B1-18-3c. Old River at Highway 4, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-23	-40	16	-4	-5	11	4	10	7	22	-4	-34
20%	-29	-38	-5	7	6	3	-1	0	-2	2	18	-30
30%	-31	-39	-1	29	8	1	4	0	0	6	18	-16
40%	-26	-45	9	53	9	1	0	0	2	3	10	0
50%	-76	-42	-11	41	6	7	3	2	-1	0	-8	-1
60%	-4	-9	6	4	0	1	0	1	0	0	-1	-10
70%	-4	-8	10	-9	0	1	1	0	0	0	-2	-6
80%	-4	-4	0	-1	0	2	0	-2	0	0	-1	-5
90%	-3	-10	2	0	0	-4	0	0	0	0	-1	-2
Long Term												
Full Simulation Period[a]	-19	-22	3	10	4	2	1	1	1	4	3	-14
Water Year Types[b]												
Wet (32%)	-3	-7	6	1	0	1	0	0	0	0	-1	-5
Above Normal (15%)	-3	-4	-1	36	6	1	0	0	0	0	-2	-6
Below Normal (17%)	-64	-11	5	12	8	2	1	0	1	0	-18	-67
Dry (22%)	-24	-20	13	4	3	1	2	1	0	14	26	-12
Critical (15%)	-11	-86	-15	10	8	5	2	1	3	9	9	16

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-18-4a. Old River at Highway 4, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	789	768	807	943	615	467	443	375	356	445	590	737
20%	756	692	767	870	550	423	418	352	315	352	493	694
30%	726	661	730	793	501	397	397	342	296	328	451	644
40%	688	622	700	638	468	382	375	333	285	316	430	592
50%	654	575	671	546	435	364	363	325	282	290	383	553
60%	281	364	619	467	406	350	349	315	277	274	301	340
70%	262	332	518	437	370	333	344	305	272	264	283	311
80%	252	308	401	390	348	323	321	293	262	257	269	281
90%	247	285	349	350	325	302	297	255	256	251	257	254
Long Term												
Full Simulation Period[a]	515	511	613	611	450	372	363	321	296	321	392	490
Water Year Types[b]												
Wet (32%)	252	317	507	436	396	345	316	273	266	263	269	279
Above Normal (15%)	266	342	618	626	452	377	347	310	276	263	287	316
Below Normal (17%)	752	642	613	659	425	367	387	331	279	301	443	715
Dry (22%)	702	668	641	686	473	386	400	356	296	361	497	615
Critical (15%)	776	709	793	805	557	410	400	372	399	469	548	670

Table 6B1-18-4b. Old River at Highway 4, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	774	739	821	934	601	480	448	376	362	448	586	701
20%	727	662	776	873	556	425	417	357	308	353	512	664
30%	699	623	734	799	513	398	397	340	297	334	469	641
40%	671	592	706	687	469	383	376	332	288	319	433	601
50%	608	549	672	602	441	367	364	326	282	288	375	548
60%	276	348	627	470	408	350	349	316	277	274	300	330
70%	259	325	529	435	371	334	345	305	274	264	281	305
80%	250	309	401	391	350	325	322	293	262	258	268	276
90%	243	285	344	350	326	298	301	275	256	251	255	252
Long Term												
Full Simulation Period[a]	504	495	617	621	452	374	365	321	297	325	396	482
Water Year Types[b]												
Wet (32%)	249	309	514	435	396	346	316	275	267	263	268	275
Above Normal (15%)	265	348	609	659	459	378	348	310	277	263	285	311
Below Normal (17%)	699	647	609	689	435	369	388	331	280	301	423	651
Dry (22%)	687	642	666	688	472	385	401	354	295	374	520	612
Critical (15%)	792	643	782	806	558	417	404	374	403	478	566	710

Table 6B1-18-4c. Old River at Highway 4, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-14	-29	14	-9	-13	13	5	1	6	3	-4	-36
20%	-29	-30	9	3	6	3	-1	5	-8	2	18	-30
30%	-27	-37	4	6	11	2	0	-2	1	6	18	-3
40%	-17	-31	6	49	1	2	1	0	3	3	3	8
50%	-46	-26	1	57	6	3	1	1	0	-2	-8	-5
60%	-4	-15	8	3	3	1	0	1	0	0	-1	-10
70%	-2	-7	11	-2	1	1	1	0	2	0	-2	-6
80%	-2	2	0	1	1	2	1	0	0	1	-2	-5
90%	-4	0	-4	0	0	-4	4	20	0	0	-1	-2
Long Term												
Full Simulation Period[a]	-11	-16	4	10	3	2	1	0	1	4	4	-8
Water Year Types[b]												
Wet (32%)	-3	-8	7	0	0	1	1	2	0	0	-1	-4
Above Normal (15%)	-1	6	-9	33	7	1	1	0	0	0	-2	-5
Below Normal (17%)	-54	4	-5	30	10	2	1	1	1	0	-20	-63
Dry (22%)	-15	-26	25	2	-2	-1	0	-2	-1	13	23	-3
Critical (15%)	16	-65	-11	1	1	7	3	2	3	8	18	40

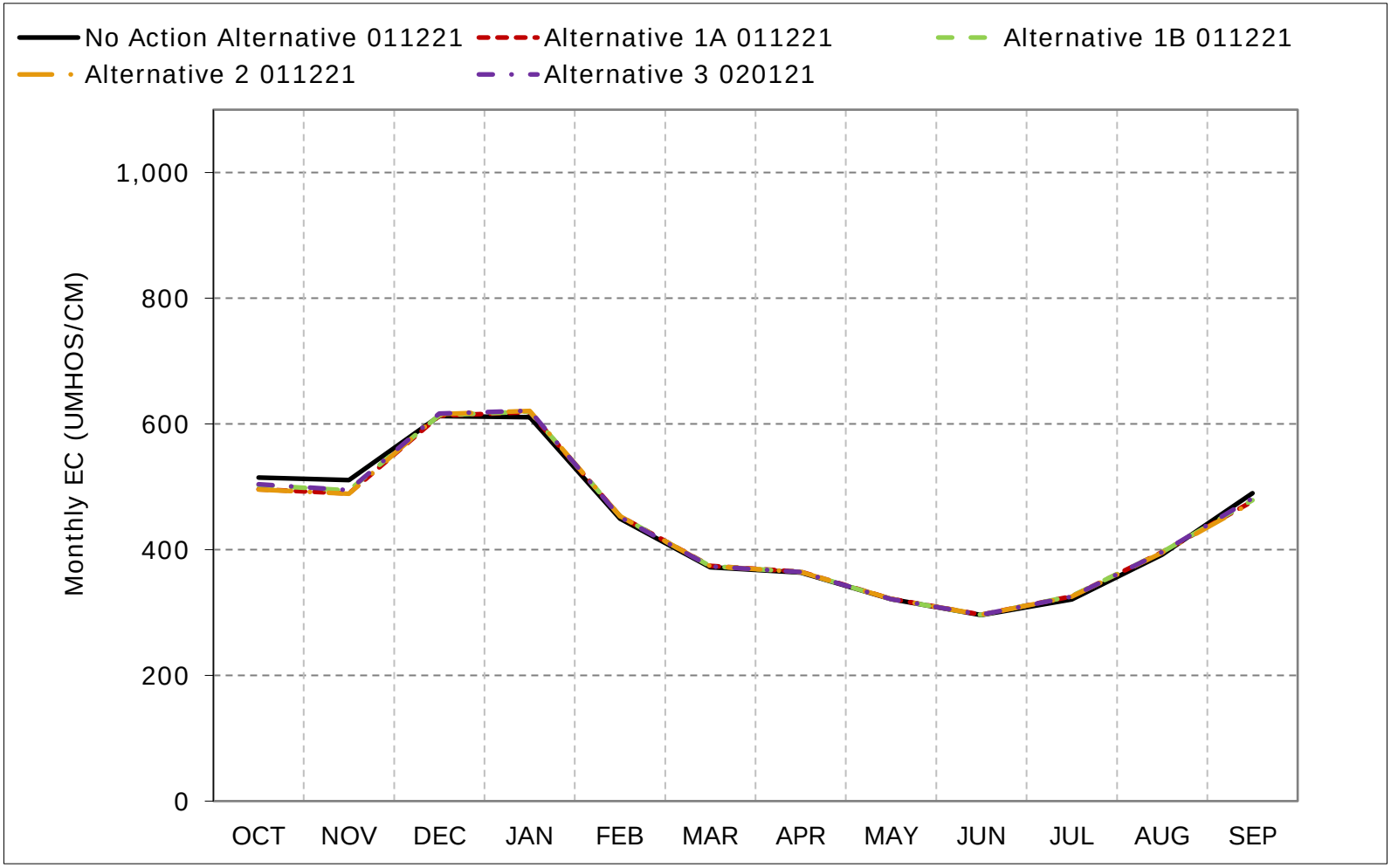
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-1. Old River at Highway 4, Long-Term Average EC

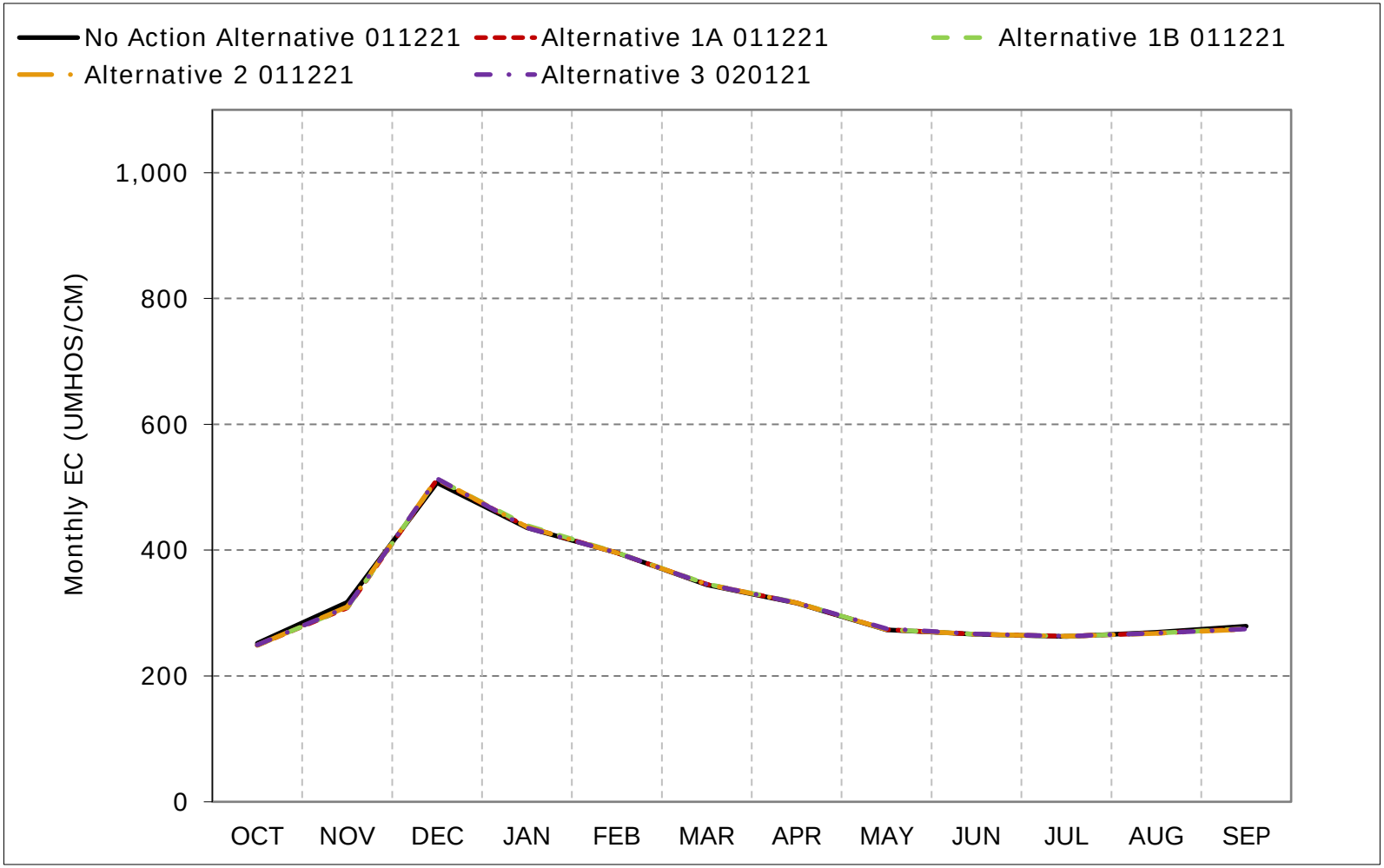


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-2. Old River at Highway 4, Wet Year Average EC

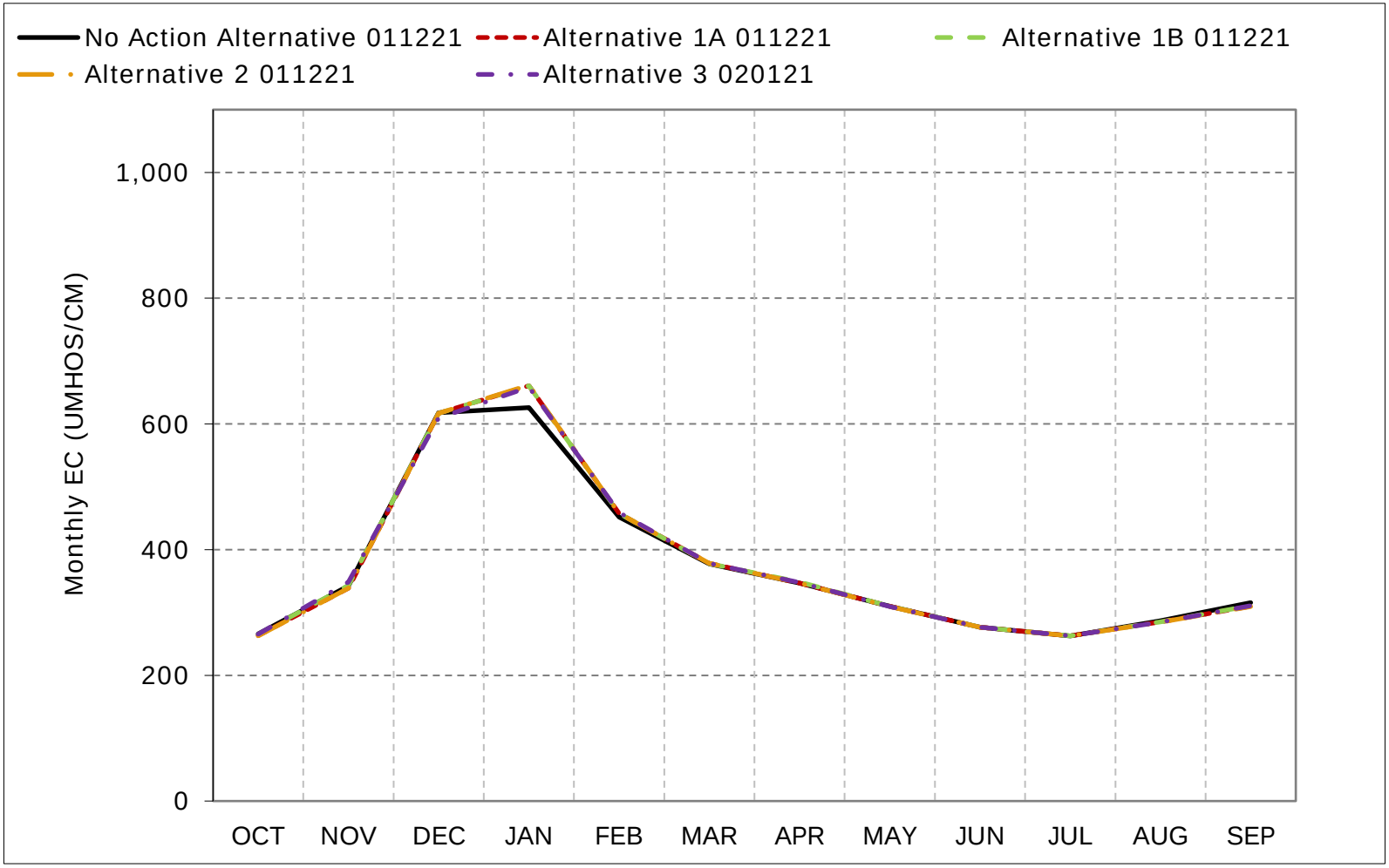


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-3. Old River at Highway 4, Above Normal Year Average EC

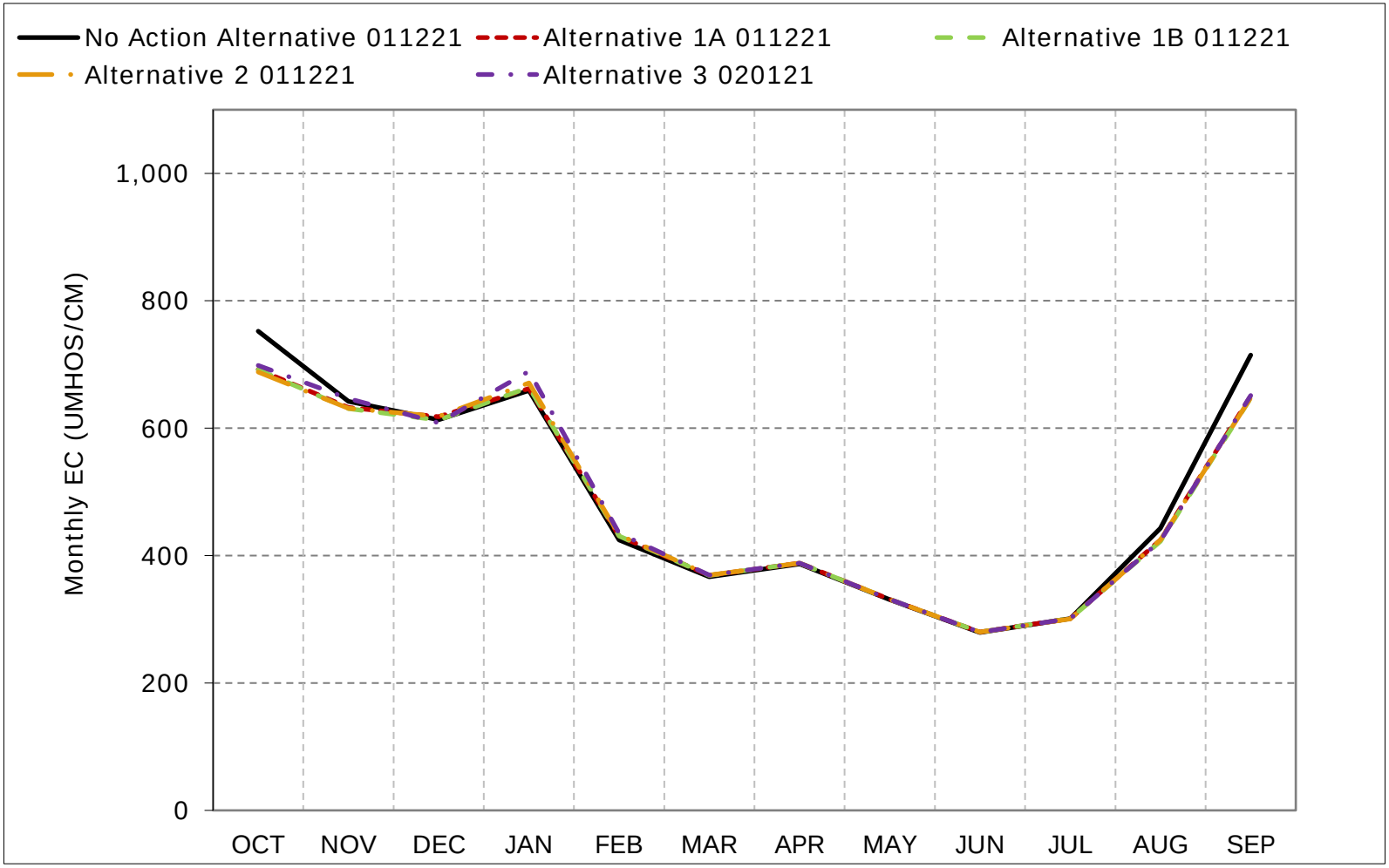


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-4. Old River at Highway 4, Below Normal Year Average EC

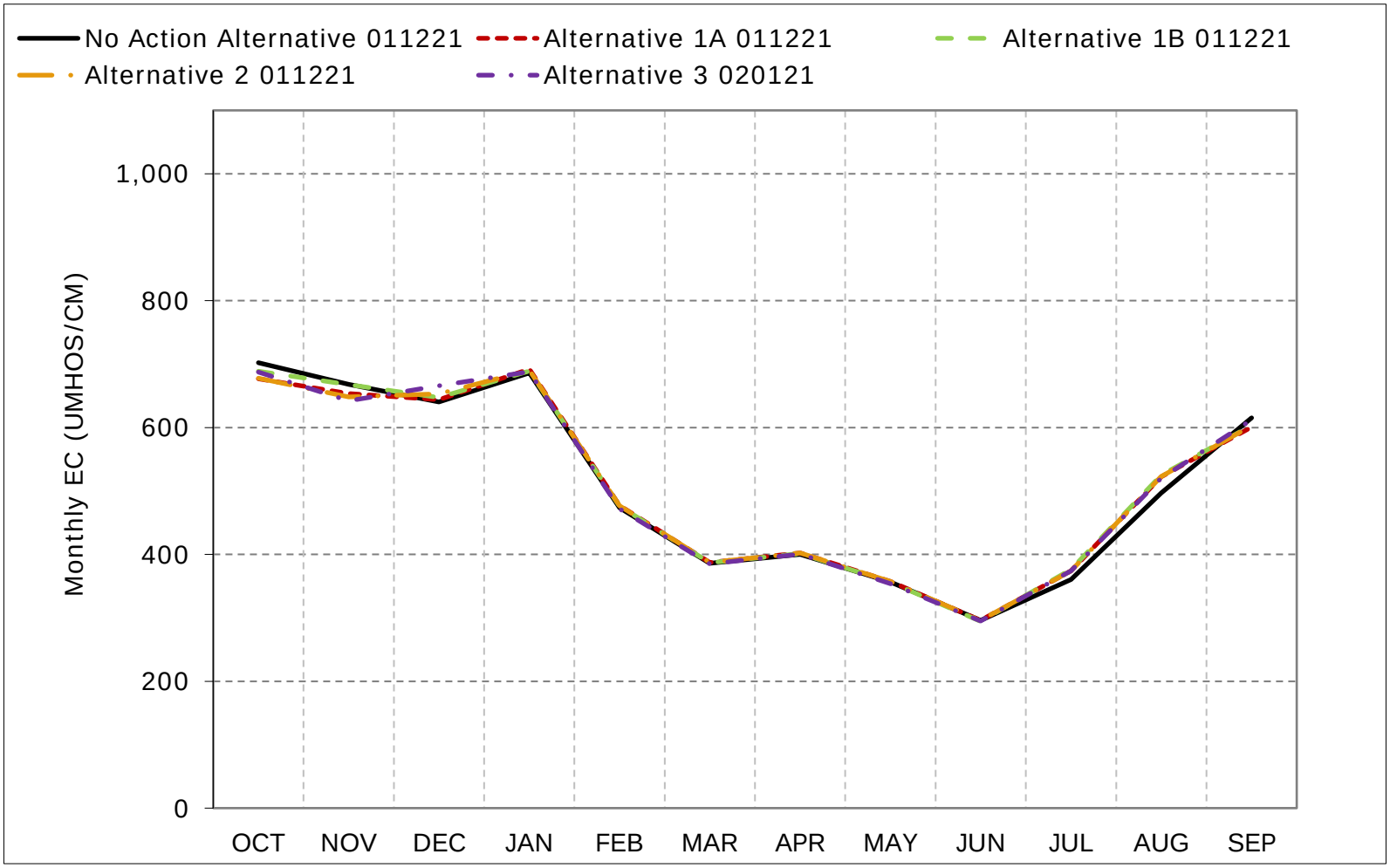


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-5. Old River at Highway 4, Dry Year Average EC

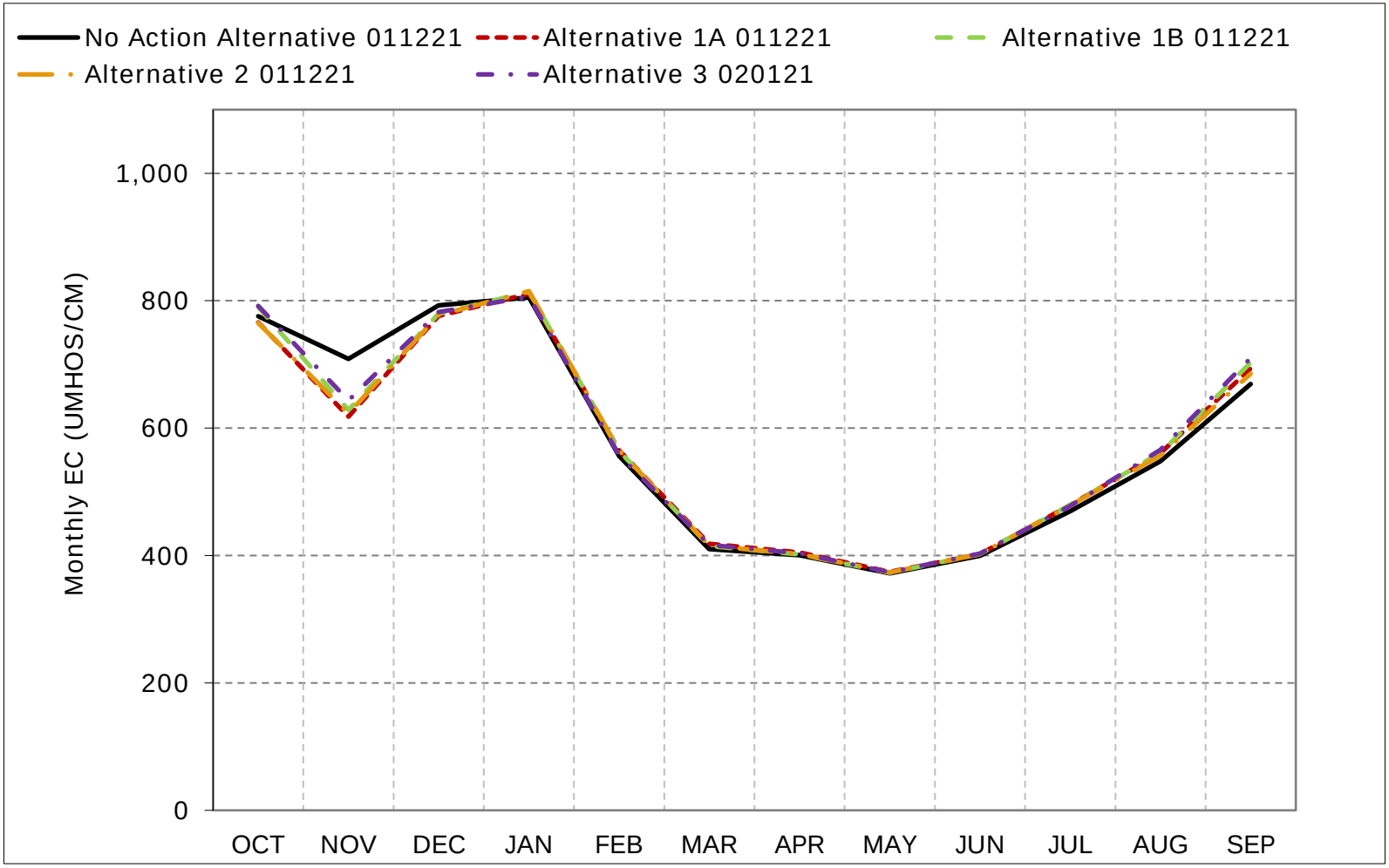


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-6. Old River at Highway 4, Critical Year Average EC

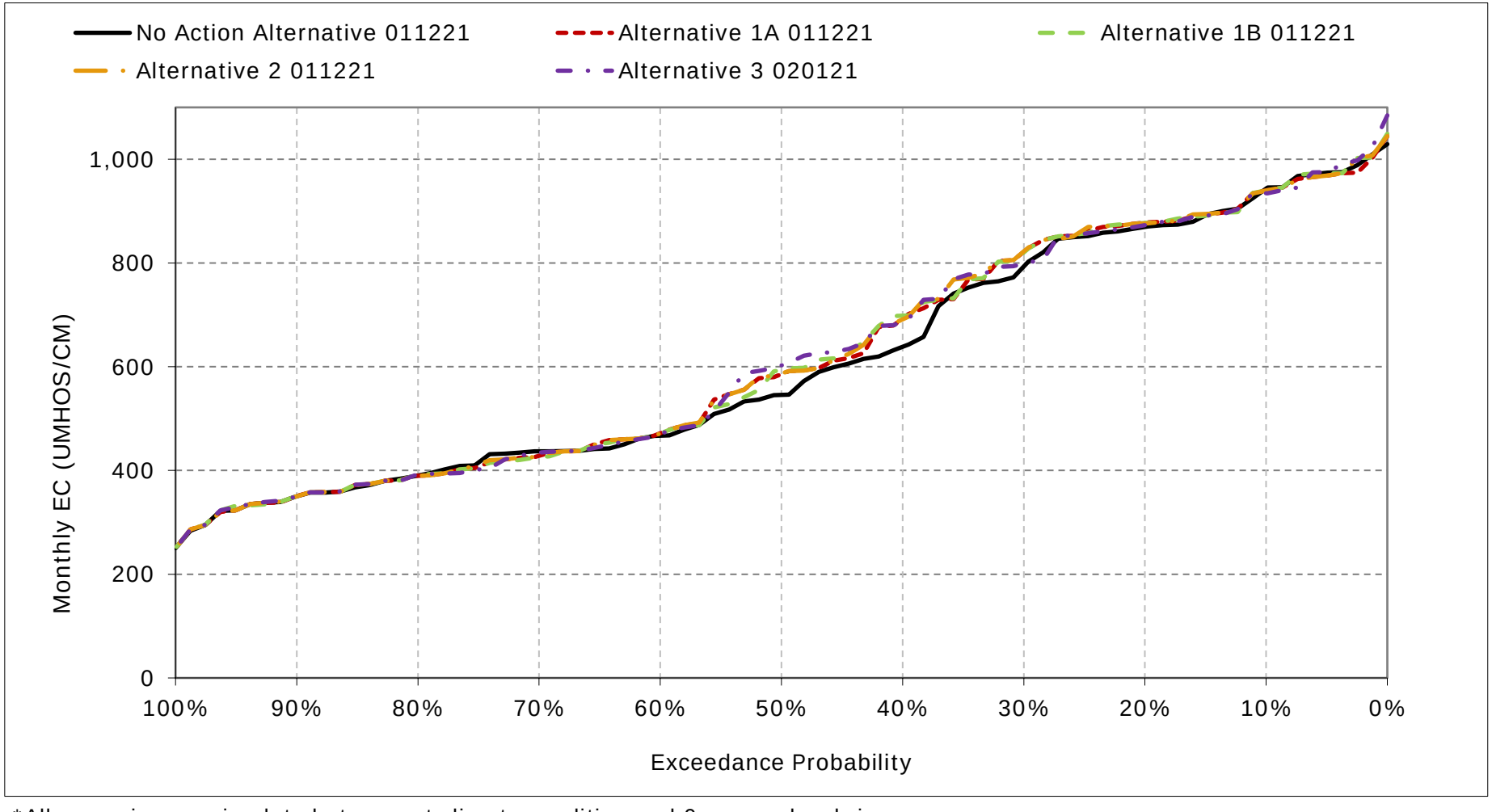


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

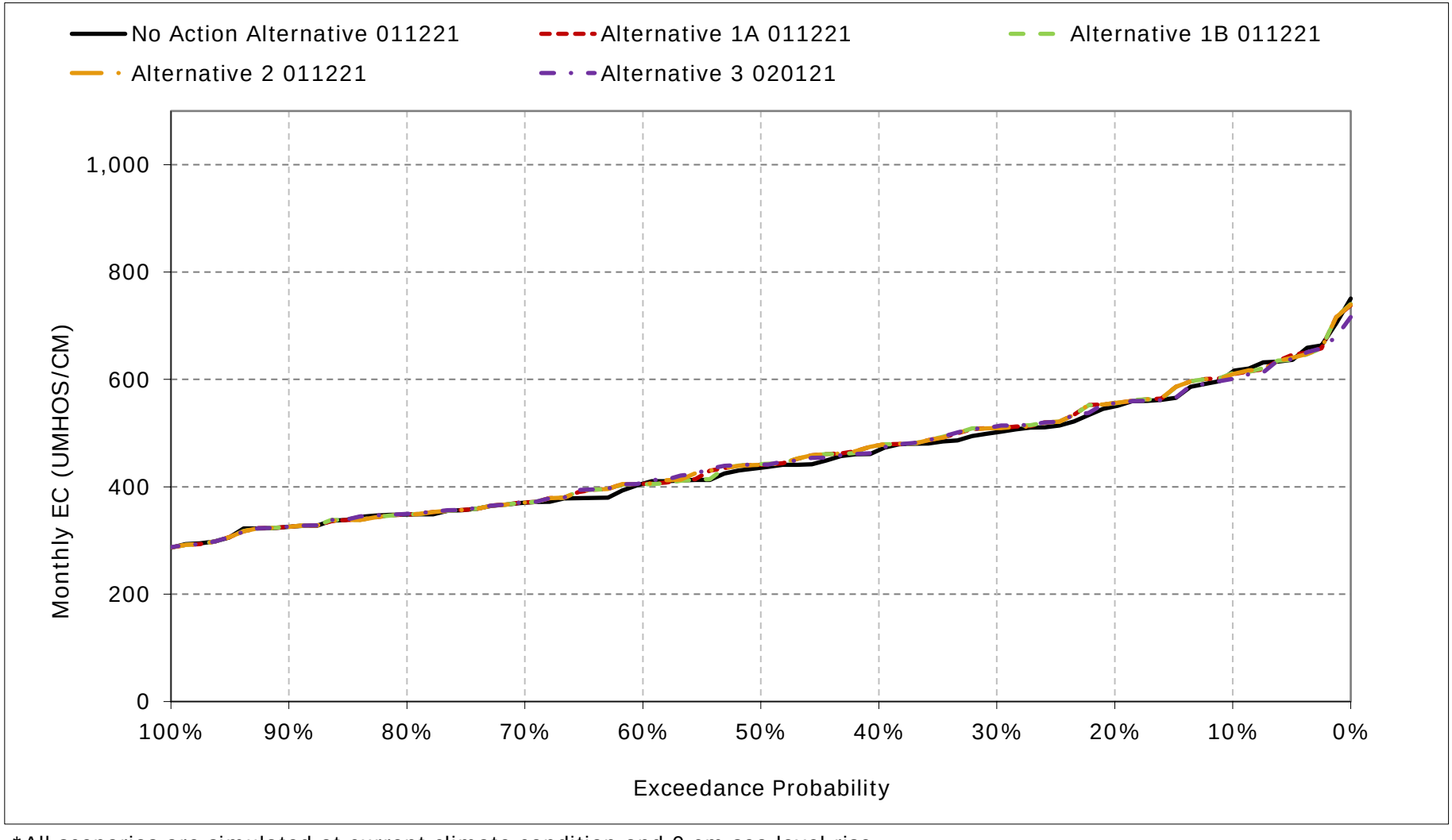
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-7. Old River at Highway 4, January EC



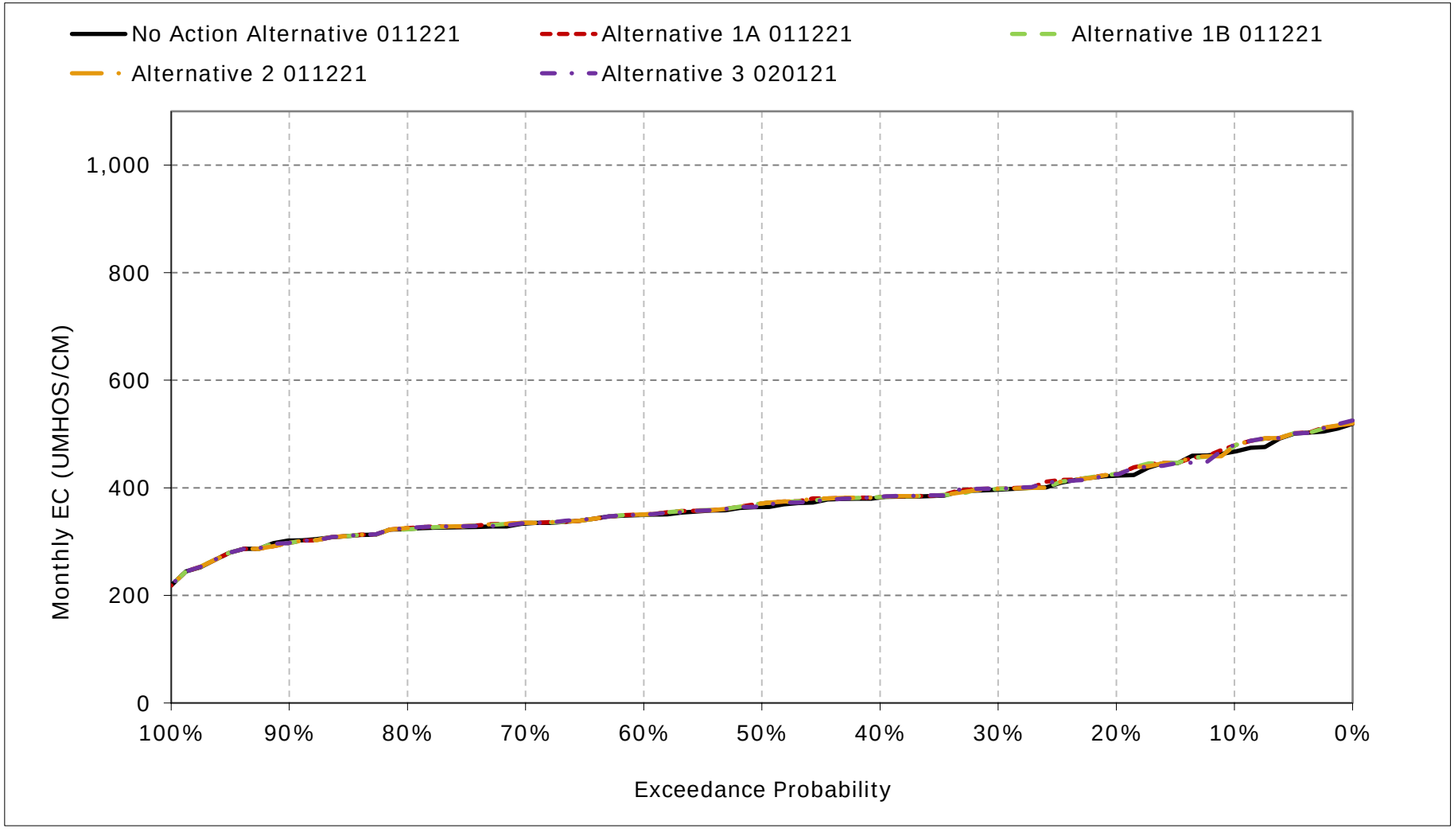
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-8. Old River at Highway 4, February EC



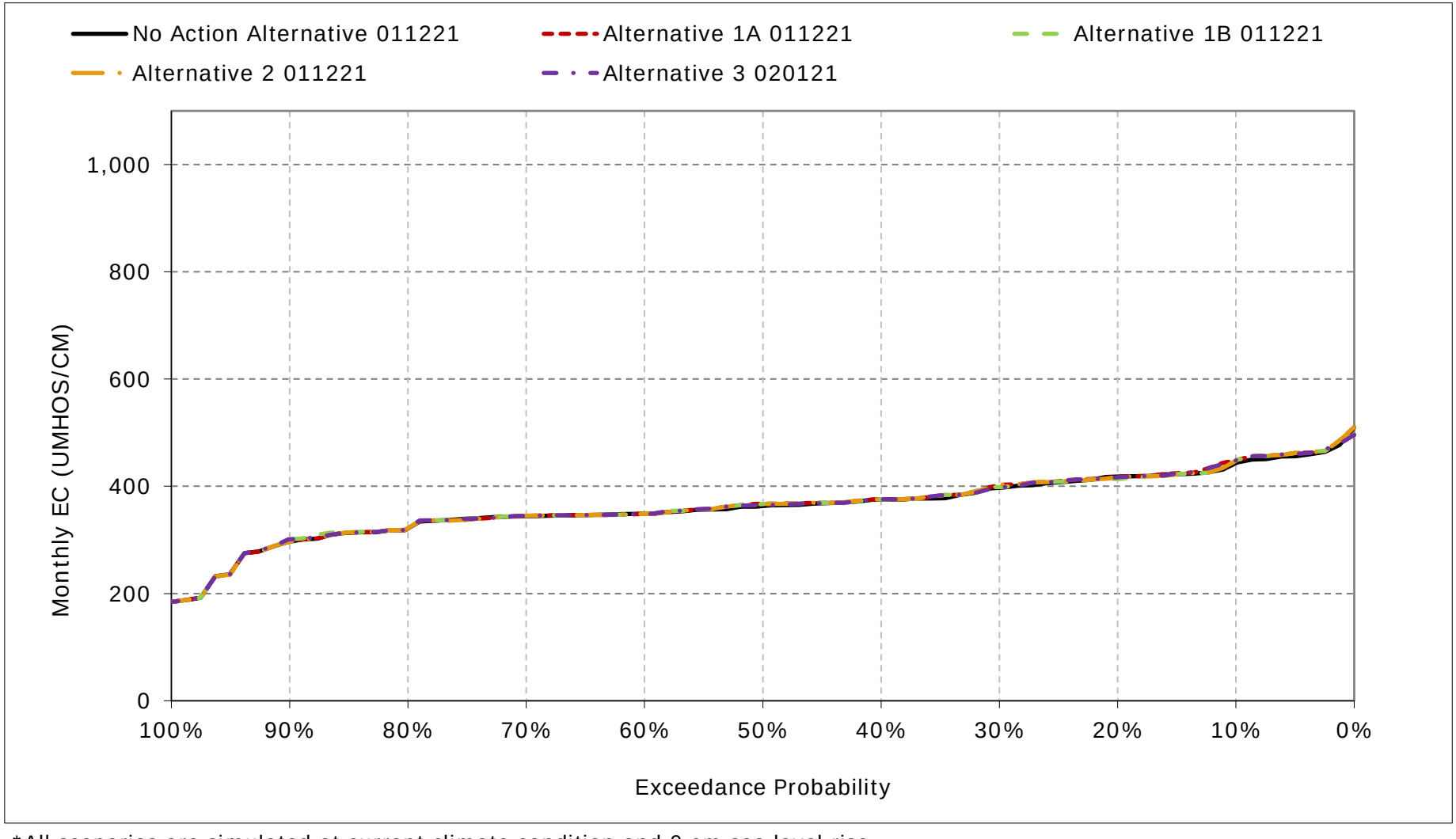
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-9. Old River at Highway 4, March EC



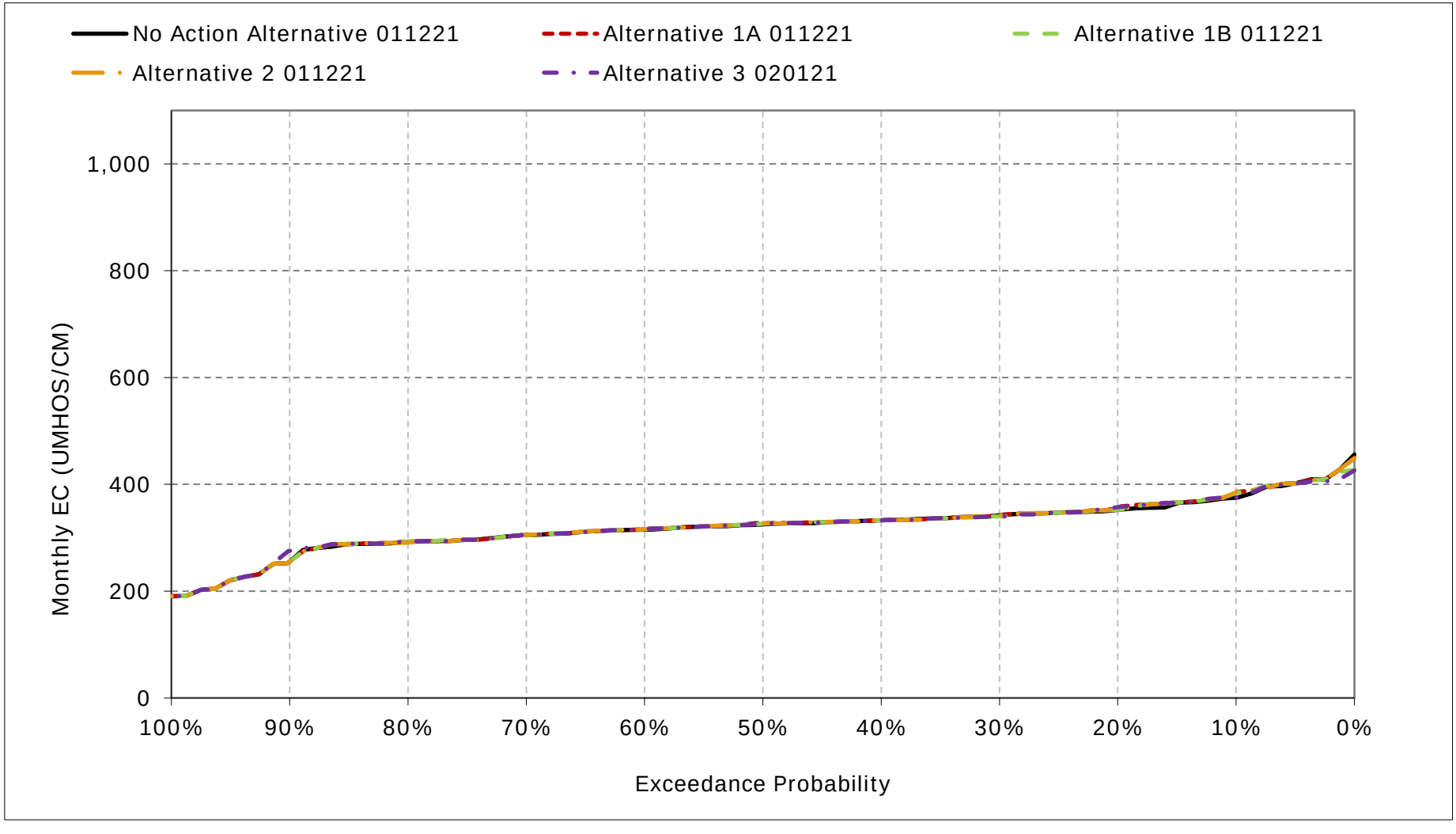
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-10. Old River at Highway 4, April EC



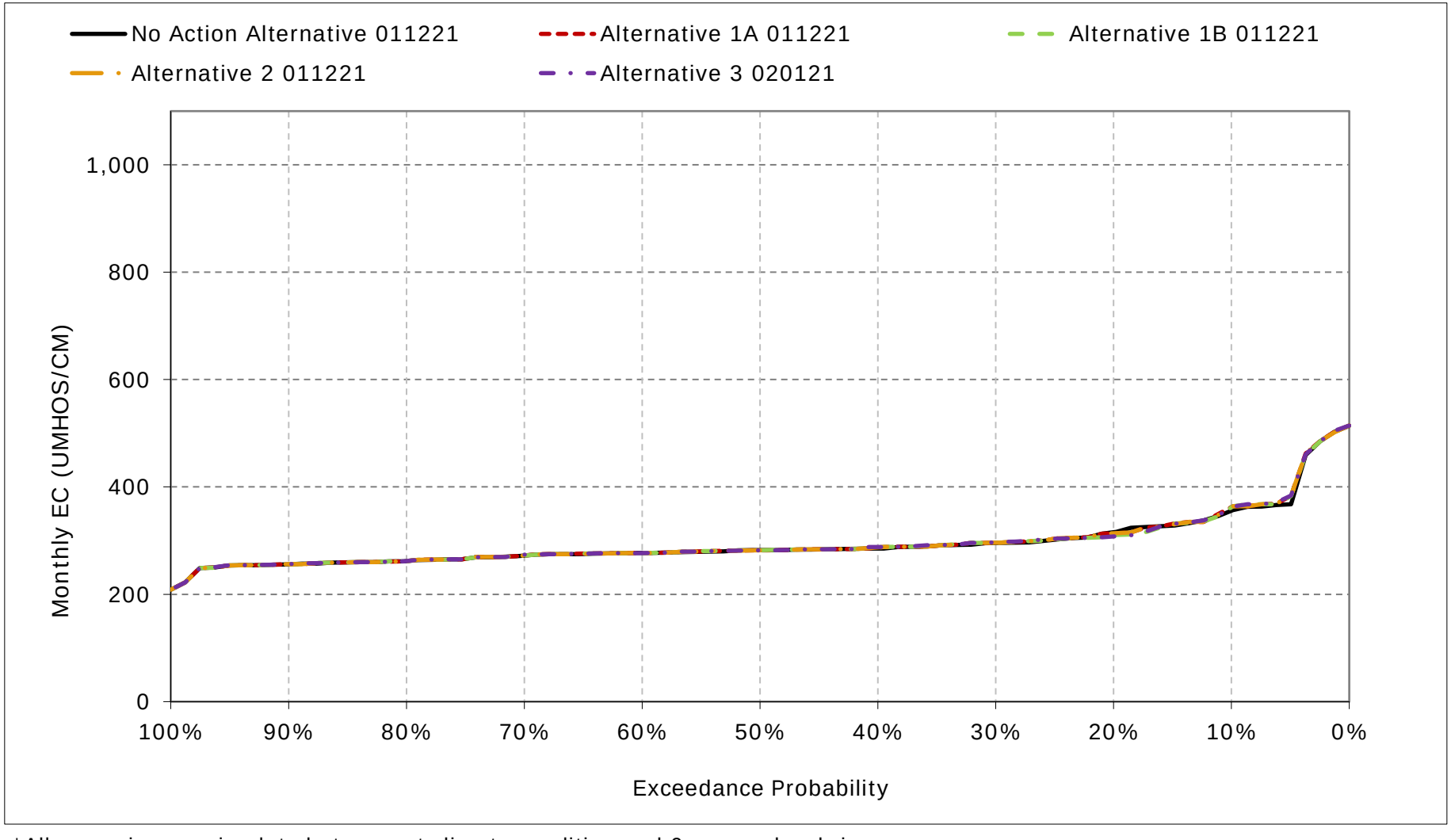
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-11. Old River at Highway 4, May EC



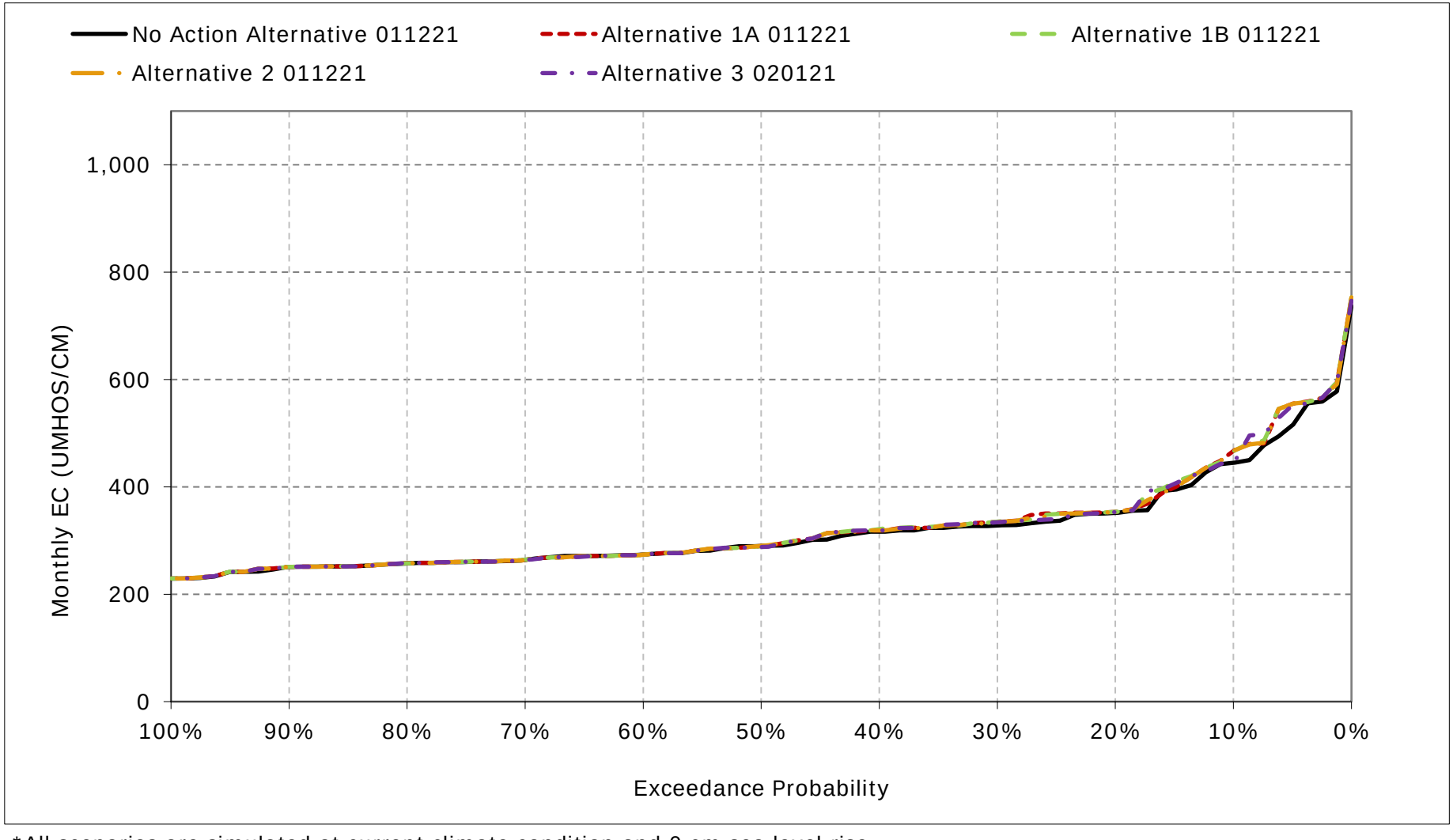
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-12. Old River at Highway 4, June EC



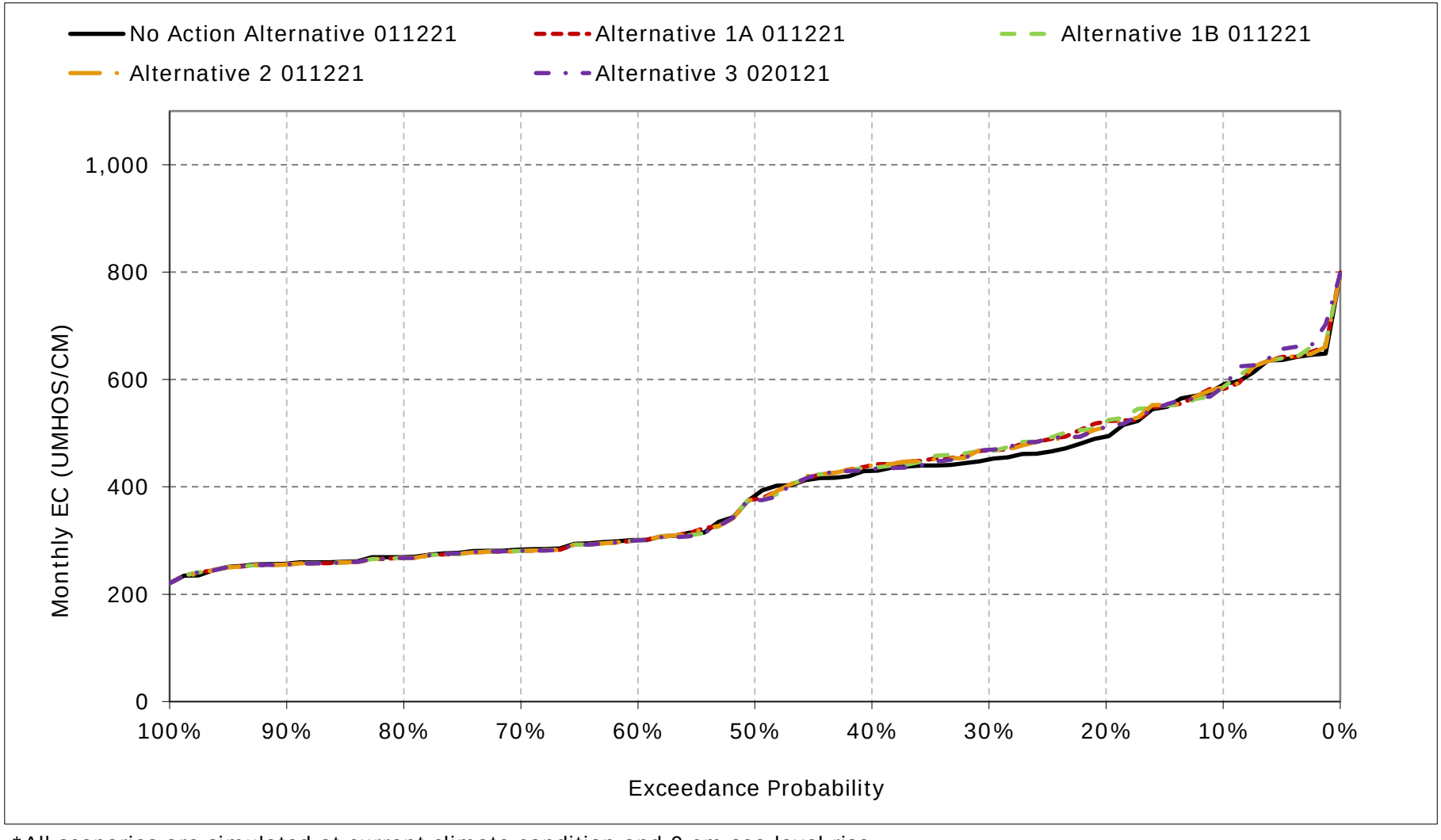
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-13. Old River at Highway 4, July EC



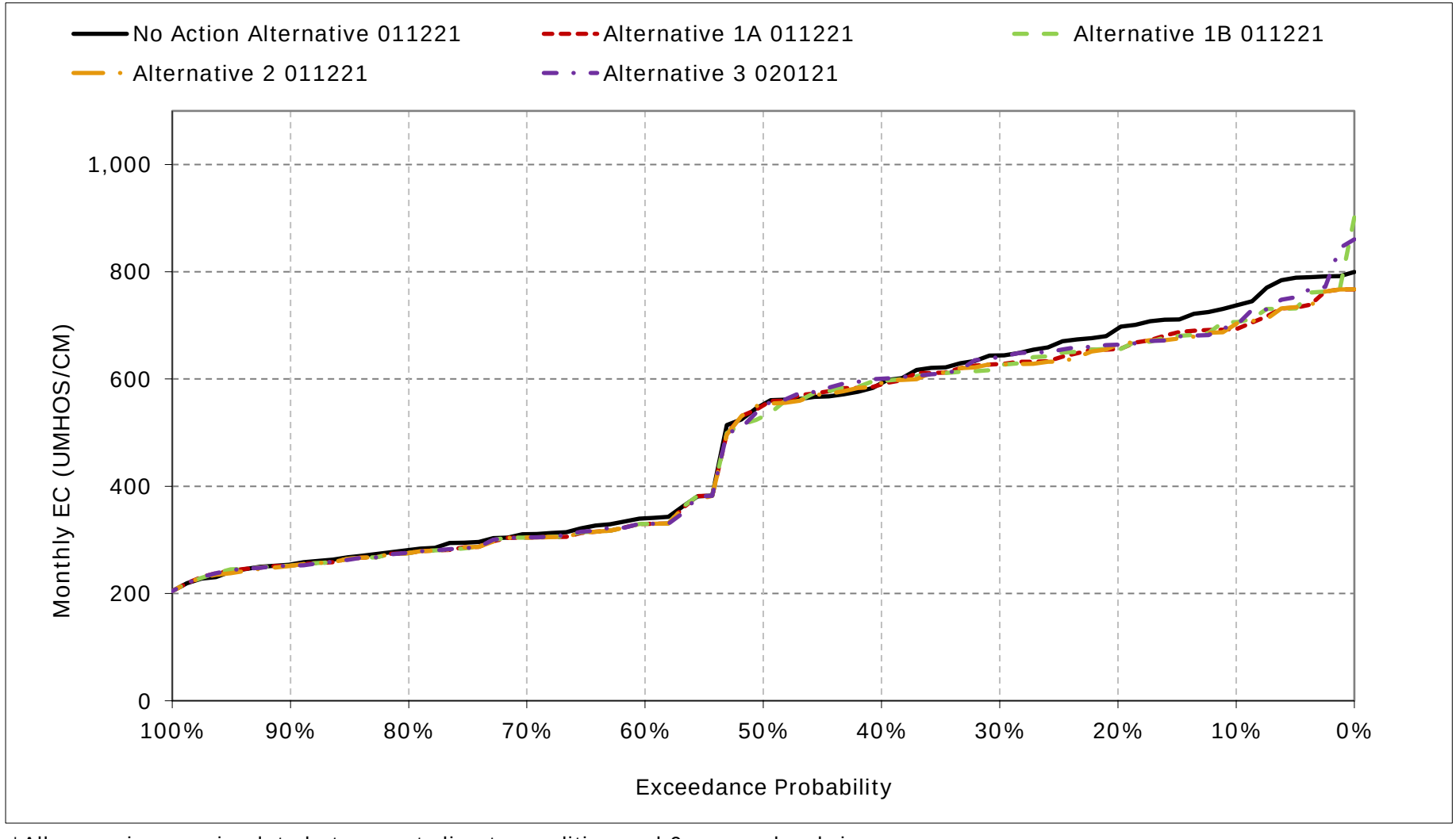
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-14. Old River at Highway 4, August EC



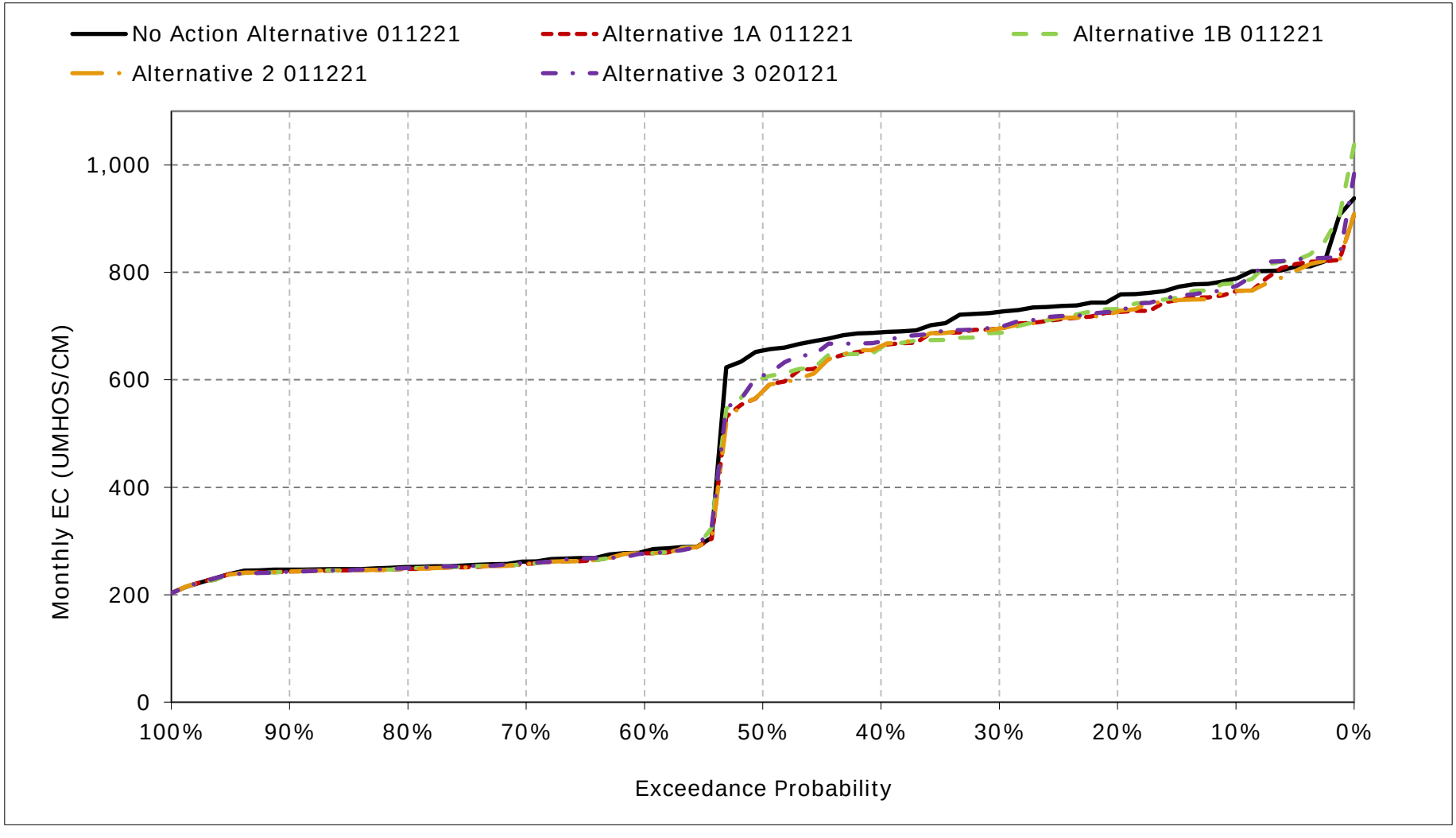
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-15. Old River at Highway 4, September EC



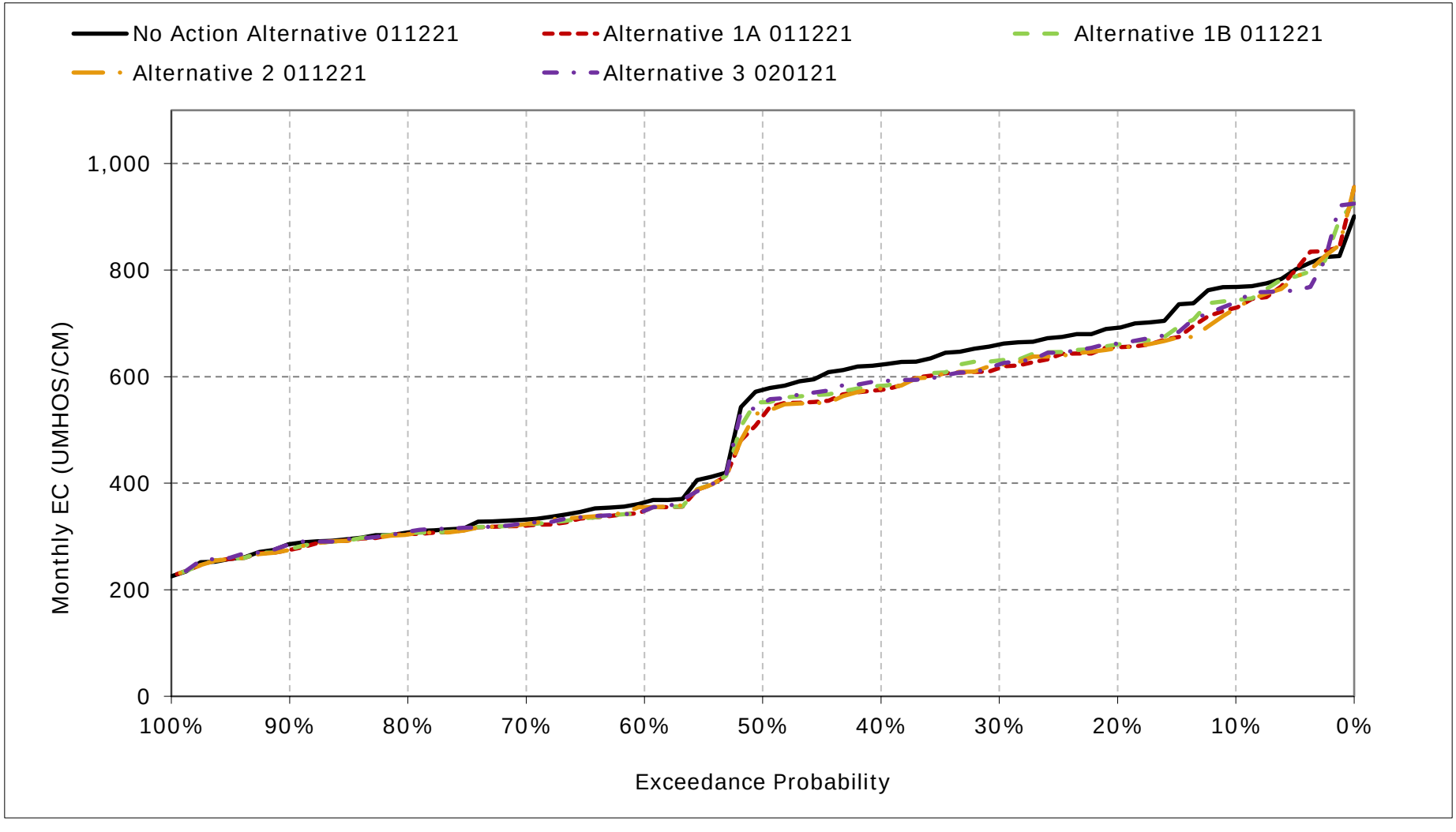
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-16. Old River at Highway 4, October EC



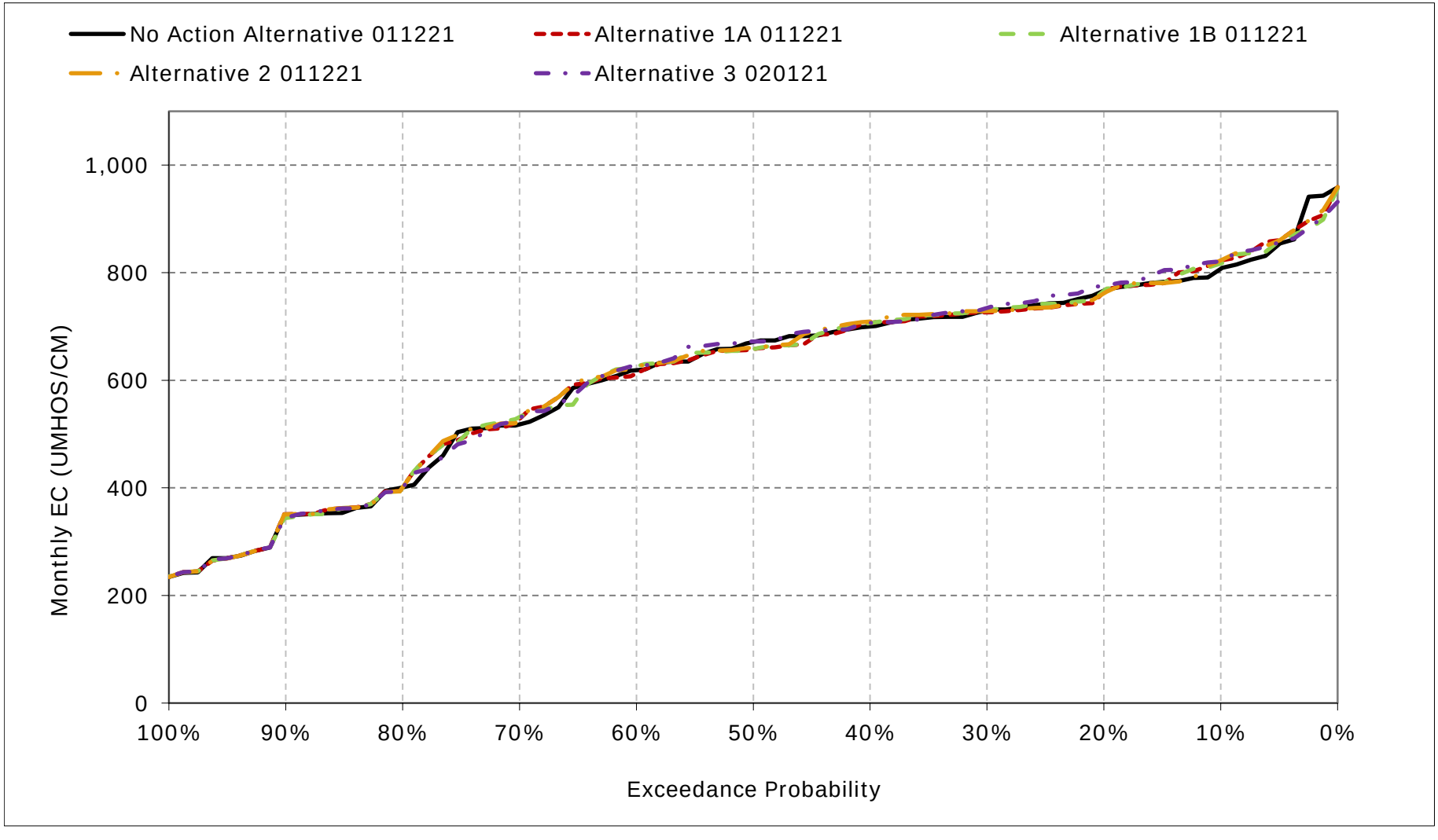
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-17. Old River at Highway 4, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-18-18. Old River at Highway 4, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-19-1a. Victoria Canal, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	539	546	593	748	652	557	496	429	373	374	427	477
20%	510	501	550	710	619	514	467	404	359	350	369	464
30%	498	472	536	677	582	498	451	388	346	324	350	444
40%	475	454	514	640	536	478	433	371	338	311	333	423
50%	447	433	489	550	505	448	415	359	331	301	321	399
60%	314	318	453	523	485	432	380	343	328	289	300	300
70%	298	305	435	503	466	390	347	333	321	279	287	293
80%	292	301	407	472	441	364	319	320	307	266	277	281
90%	281	296	340	429	372	332	283	243	287	256	261	276
Long Term												
Full Simulation Period[a]	407	403	479	580	514	444	395	350	334	311	331	372
Water Year Types[b]												
Wet (32%)	286	297	394	483	438	375	311	283	312	300	282	278
Above Normal (15%)	305	316	472	607	539	439	374	337	330	288	277	294
Below Normal (17%)	492	456	490	608	515	460	423	365	329	281	330	448
Dry (22%)	484	492	520	623	554	508	480	405	336	302	379	427
Critical (15%)	559	524	597	669	590	485	438	410	386	403	419	481

Table 6B1-19-1b. Victoria Canal, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	534	513	577	752	653	557	499	430	373	373	430	472
20%	494	480	552	714	618	519	467	406	360	350	384	446
30%	473	460	530	689	587	502	455	389	348	325	352	429
40%	452	434	510	643	543	483	435	372	338	311	333	406
50%	422	404	487	579	512	448	416	360	331	298	316	386
60%	313	315	456	533	488	432	380	343	328	290	299	297
70%	298	304	429	495	466	392	347	334	322	279	288	289
80%	291	299	404	470	439	364	319	320	307	266	276	280
90%	282	293	338	428	371	331	283	243	287	257	261	274
Long Term												
Full Simulation Period[a]	398	392	476	584	516	445	396	351	334	310	331	364
Water Year Types[b]												
Wet (32%)	286	294	395	483	438	375	312	284	312	301	282	277
Above Normal (15%)	303	315	470	629	542	440	374	337	330	287	276	292
Below Normal (17%)	463	449	494	608	520	462	424	365	329	282	323	422
Dry (22%)	467	479	519	625	555	509	481	406	336	302	388	419
Critical (15%)	554	482	574	669	595	489	442	412	387	399	415	476

Table 6B1-19-1c. Victoria Canal, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5	-33	-16	4	1	0	3	1	0	-1	3	-5
20%	-16	-22	3	4	-2	4	0	2	0	0	16	-18
30%	-26	-13	-6	13	4	4	4	1	2	1	2	-15
40%	-23	-20	-4	4	7	4	2	1	0	0	-1	-18
50%	-26	-29	-1	28	7	0	1	0	0	-2	-5	-14
60%	0	-4	3	10	4	1	0	0	0	0	-1	-3
70%	1	-2	-6	-8	0	1	0	0	1	0	0	-4
80%	-1	-3	-3	-2	-1	0	0	0	0	0	0	-1
90%	1	-3	-2	-1	-2	0	0	0	0	1	0	-2
Long Term												
Full Simulation Period[a]	-10	-11	-3	4	2	1	1	1	0	0	0	-8
Water Year Types[b]												
Wet (32%)	-1	-4	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-2	-2	-2	22	3	0	0	0	0	0	-1	-2
Below Normal (17%)	-29	-6	4	1	5	3	1	0	1	0	-7	-26
Dry (22%)	-16	-13	-1	1	2	1	1	1	0	0	9	-8
Critical (15%)	-5	-41	-23	0	5	5	3	2	1	-4	-4	-4

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-19-2a. Victoria Canal, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	539	546	593	748	652	557	496	429	373	374	427	477
20%	510	501	550	710	619	514	467	404	359	350	369	464
30%	498	472	536	677	582	498	451	388	346	324	350	444
40%	475	454	514	640	536	478	433	371	338	311	333	423
50%	447	433	489	550	505	448	415	359	331	301	321	399
60%	314	318	453	523	485	432	380	343	328	289	300	300
70%	298	305	435	503	466	390	347	333	321	279	287	293
80%	292	301	407	472	441	364	319	320	307	266	277	281
90%	281	296	340	429	372	332	283	243	287	256	261	276
Long Term												
Full Simulation Period[a]	407	403	479	580	514	444	395	350	334	311	331	372
Water Year Types[b]												
Wet (32%)	286	297	394	483	438	375	311	283	312	300	282	278
Above Normal (15%)	305	316	472	607	539	439	374	337	330	288	277	294
Below Normal (17%)	492	456	490	608	515	460	423	365	329	281	330	448
Dry (22%)	484	492	520	623	554	508	480	405	336	302	379	427
Critical (15%)	559	524	597	669	590	485	438	410	386	403	419	481

Table 6B1-19-2b. Victoria Canal, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	547	520	584	761	653	557	499	429	374	372	433	477
20%	494	488	552	712	618	519	465	405	359	350	381	446
30%	471	461	531	689	586	501	454	388	348	325	353	428
40%	452	438	513	643	542	479	435	372	338	311	334	407
50%	429	407	488	574	512	448	416	360	331	298	314	387
60%	314	315	456	532	486	429	380	343	327	289	298	297
70%	298	304	433	494	465	391	348	333	322	279	288	288
80%	291	299	404	468	440	364	320	320	307	266	276	281
90%	282	293	338	425	371	331	283	243	287	257	261	274
Long Term												
Full Simulation Period[a]	401	394	477	585	516	445	396	351	333	310	331	365
Water Year Types[b]												
Wet (32%)	285	294	395	484	438	375	312	284	312	301	282	277
Above Normal (15%)	304	317	470	629	542	439	377	337	330	287	276	292
Below Normal (17%)	463	449	491	610	520	462	424	365	329	282	322	421
Dry (22%)	472	483	521	623	554	509	481	405	334	302	390	421
Critical (15%)	573	490	575	673	595	487	439	410	386	399	415	482

Table 6B1-19-2c. Victoria Canal, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8	-26	-10	13	1	0	2	0	1	-2	6	-1
20%	-17	-13	3	3	-2	5	-2	1	-1	0	12	-18
30%	-27	-12	-4	12	4	2	3	0	2	0	3	-16
40%	-23	-16	-1	4	6	1	2	1	0	0	1	-17
50%	-18	-26	-1	24	7	0	0	0	0	-2	-7	-13
60%	0	-3	3	9	2	-2	0	0	0	0	-2	-3
70%	1	-2	-2	-9	-1	1	1	0	1	0	1	-5
80%	0	-3	-3	-4	-1	0	1	0	0	0	0	-1
90%	1	-3	-2	-4	-2	0	0	0	0	1	0	-2
Long Term												
Full Simulation Period[a]	-6	-9	-2	4	2	1	1	0	0	-1	0	-7
Water Year Types[b]												
Wet (32%)	-1	-3	2	1	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	1	-2	22	3	0	3	0	-1	0	-1	-2
Below Normal (17%)	-29	-6	1	2	5	3	1	0	0	0	-8	-28
Dry (22%)	-12	-8	1	0	1	0	1	0	-2	0	10	-7
Critical (15%)	14	-34	-21	3	5	3	0	0	1	-4	-4	1

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-19-3a. Victoria Canal, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	539	546	593	748	652	557	496	429	373	374	427	477
20%	510	501	550	710	619	514	467	404	359	350	369	464
30%	498	472	536	677	582	498	451	388	346	324	350	444
40%	475	454	514	640	536	478	433	371	338	311	333	423
50%	447	433	489	550	505	448	415	359	331	301	321	399
60%	314	318	453	523	485	432	380	343	328	289	300	300
70%	298	305	435	503	466	390	347	333	321	279	287	293
80%	292	301	407	472	441	364	319	320	307	266	277	281
90%	281	296	340	429	372	332	283	243	287	256	261	276
Long Term												
Full Simulation Period[a]	407	403	479	580	514	444	395	350	334	311	331	372
Water Year Types[b]												
Wet (32%)	286	297	394	483	438	375	311	283	312	300	282	278
Above Normal (15%)	305	316	472	607	539	439	374	337	330	288	277	294
Below Normal (17%)	492	456	490	608	515	460	423	365	329	281	330	448
Dry (22%)	484	492	520	623	554	508	480	405	336	302	379	427
Critical (15%)	559	524	597	669	590	485	438	410	386	403	419	481

Table 6B1-19-3b. Victoria Canal, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	532	509	577	752	653	557	499	430	373	373	430	473
20%	493	475	554	711	618	519	467	405	359	350	380	446
30%	476	461	531	690	586	501	455	389	348	325	350	427
40%	454	435	513	652	546	483	435	372	338	311	333	408
50%	418	402	493	579	512	449	416	360	331	298	316	386
60%	313	314	456	533	488	432	380	343	327	289	299	297
70%	298	304	429	495	466	392	347	333	322	279	287	288
80%	291	298	406	471	439	364	318	320	307	266	276	280
90%	280	294	338	430	371	331	283	243	287	257	261	274
Long Term												
Full Simulation Period[a]	397	391	477	586	516	445	396	351	334	310	331	364
Water Year Types[b]												
Wet (32%)	285	294	395	483	438	375	312	284	312	301	282	276
Above Normal (15%)	303	314	470	629	542	440	374	337	330	287	276	292
Below Normal (17%)	461	449	494	614	522	463	424	365	329	282	323	422
Dry (22%)	468	476	522	624	554	509	481	406	336	302	388	421
Critical (15%)	553	484	574	674	596	488	439	410	387	399	414	474

Table 6B1-19-3c. Victoria Canal, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-7	-36	-16	4	1	-1	2	1	0	-1	3	-5
20%	-17	-26	4	1	-2	4	0	1	0	0	12	-18
30%	-22	-12	-4	13	4	3	4	1	2	1	1	-17
40%	-22	-19	-1	12	10	4	2	1	0	0	-1	-15
50%	-29	-32	4	28	7	1	1	0	0	-2	-5	-13
60%	0	-4	3	10	3	1	0	0	0	0	-1	-3
70%	1	-2	-5	-9	0	1	0	0	1	-1	0	-4
80%	-1	-3	-1	-1	-1	0	-1	0	0	0	0	-1
90%	-1	-2	-3	1	-2	0	0	0	0	1	0	-2
Long Term												
Full Simulation Period[a]	-10	-12	-2	5	3	1	1	0	0	-1	0	-8
Water Year Types[b]												
Wet (32%)	-1	-3	2	0	0	0	0	0	0	0	0	-2
Above Normal (15%)	-2	-2	-2	22	3	0	0	0	-1	-1	-1	-3
Below Normal (17%)	-30	-7	4	7	7	3	1	0	0	0	-7	-27
Dry (22%)	-15	-16	2	0	1	0	1	1	0	0	9	-7
Critical (15%)	-6	-39	-23	4	6	3	1	1	1	-4	-5	-7

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-19-4a. Victoria Canal, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	539	546	593	748	652	557	496	429	373	374	427	477
20%	510	501	550	710	619	514	467	404	359	350	369	464
30%	498	472	536	677	582	498	451	388	346	324	350	444
40%	475	454	514	640	536	478	433	371	338	311	333	423
50%	447	433	489	550	505	448	415	359	331	301	321	399
60%	314	318	453	523	485	432	380	343	328	289	300	300
70%	298	305	435	503	466	390	347	333	321	279	287	293
80%	292	301	407	472	441	364	319	320	307	266	277	281
90%	281	296	340	429	372	332	283	243	287	256	261	276
Long Term												
Full Simulation Period[a]	407	403	479	580	514	444	395	350	334	311	331	372
Water Year Types[b]												
Wet (32%)	286	297	394	483	438	375	311	283	312	300	282	278
Above Normal (15%)	305	316	472	607	539	439	374	337	330	288	277	294
Below Normal (17%)	492	456	490	608	515	460	423	365	329	281	330	448
Dry (22%)	484	492	520	623	554	508	480	405	336	302	379	427
Critical (15%)	559	524	597	669	590	485	438	410	386	403	419	481

Table 6B1-19-4b. Victoria Canal, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	550	533	577	761	647	556	500	428	373	372	432	475
20%	494	493	561	718	618	520	466	405	359	350	375	451
30%	474	461	536	684	586	500	454	389	346	325	351	432
40%	455	441	513	656	541	476	436	372	337	312	331	413
50%	432	403	487	592	511	450	416	359	331	300	313	389
60%	311	315	462	535	501	432	380	343	326	288	299	295
70%	298	305	436	497	466	391	348	333	322	279	287	287
80%	290	300	403	467	441	364	320	320	307	266	276	281
90%	282	294	337	430	374	331	283	244	287	257	261	274
Long Term												
Full Simulation Period[a]	401	394	478	587	516	445	396	350	334	310	331	367
Water Year Types[b]												
Wet (32%)	286	294	396	483	438	375	312	284	312	301	282	277
Above Normal (15%)	299	318	466	627	547	440	376	337	330	287	276	291
Below Normal (17%)	466	459	489	627	522	462	424	365	329	282	322	423
Dry (22%)	471	468	526	625	552	507	480	404	334	302	388	424
Critical (15%)	576	499	579	669	591	488	441	411	387	398	416	487

Table 6B1-19-4c. Victoria Canal, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11	-13	-16	13	-5	-1	4	-1	0	-2	5	-2
20%	-16	-8	11	8	-2	6	-1	1	0	0	6	-13
30%	-24	-12	1	7	4	2	3	0	-1	1	1	-12
40%	-20	-13	-1	17	5	-2	3	1	-1	1	-2	-10
50%	-16	-30	-2	42	5	2	1	0	0	-1	-7	-11
60%	-3	-3	9	12	16	0	0	0	-1	-1	-1	-5
70%	0	-1	2	-6	0	0	1	0	1	-1	0	-5
80%	-2	-1	-4	-5	0	0	1	0	0	0	-1	-1
90%	1	-2	-3	1	2	0	0	1	0	1	0	-2
Long Term												
Full Simulation Period[a]	-6	-9	-2	7	2	1	1	0	0	-1	0	-5
Water Year Types[b]												
Wet (32%)	0	-3	2	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-6	2	-5	20	8	1	2	0	0	-1	-1	-4
Below Normal (17%)	-26	4	-2	19	7	2	1	1	0	0	-7	-26
Dry (22%)	-13	-24	7	2	-1	-1	0	-1	-2	0	8	-4
Critical (15%)	17	-25	-17	-1	1	3	3	1	1	-4	-3	7

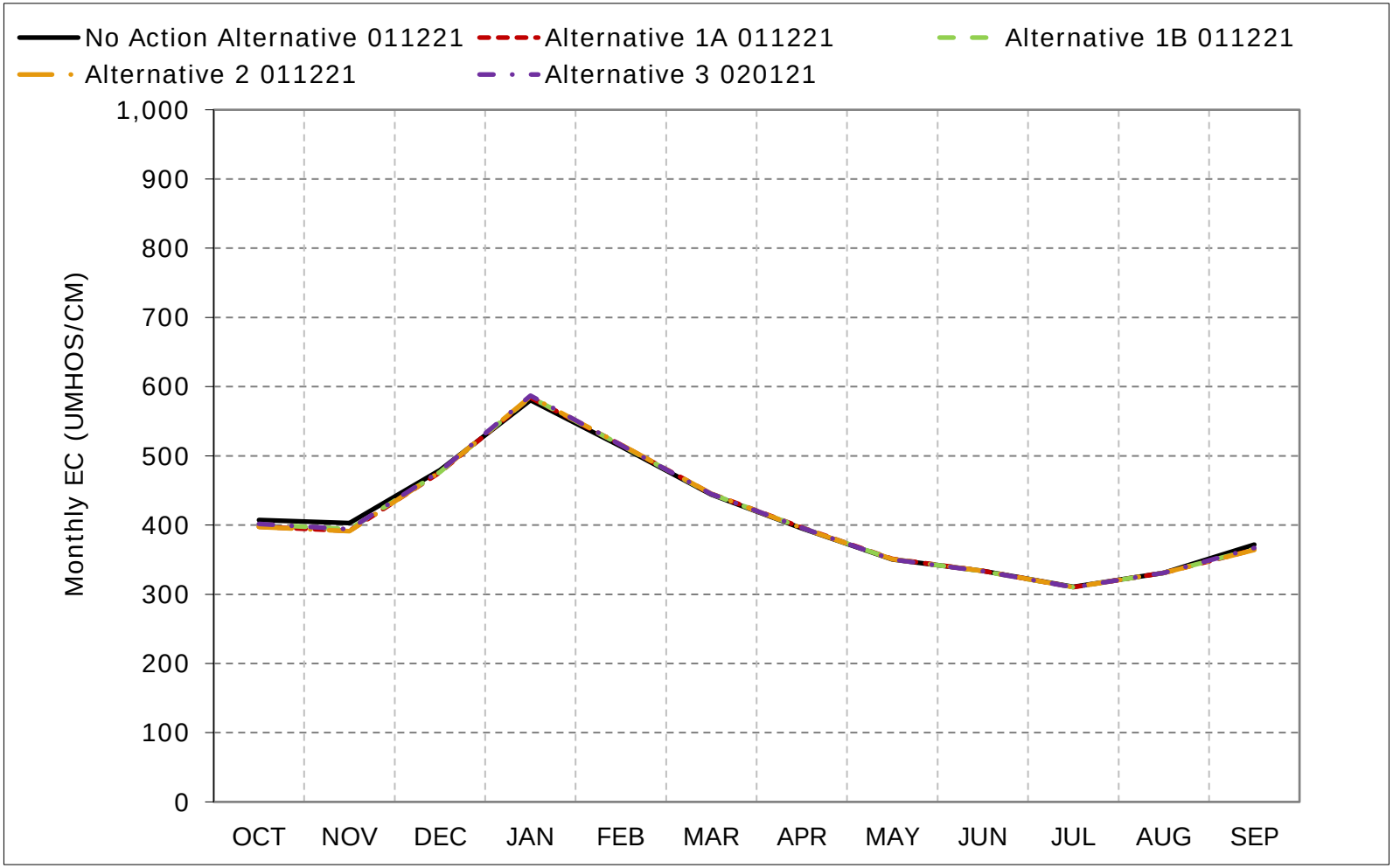
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-1. Victoria Canal, Long-Term Average EC

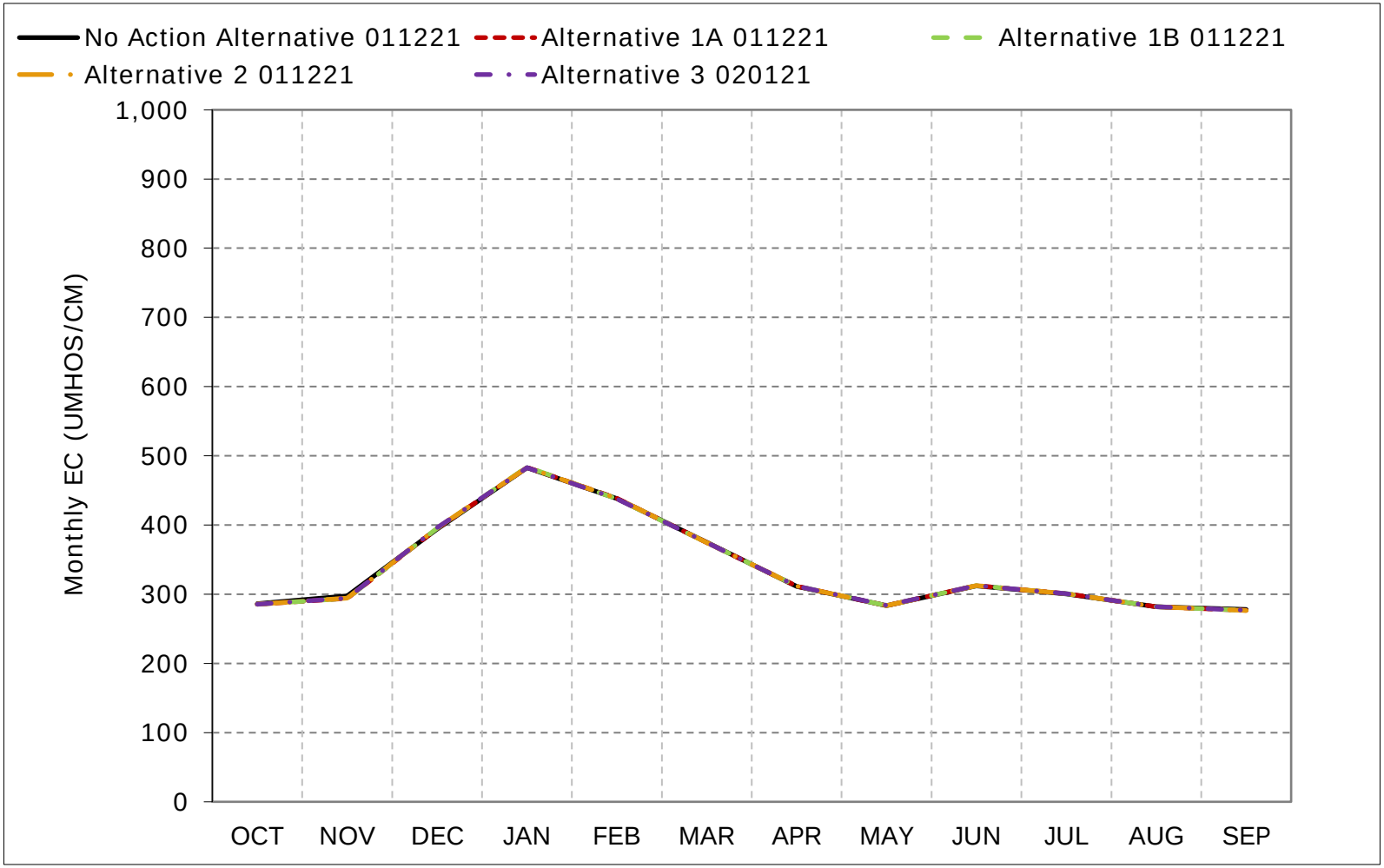


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-2. Victoria Canal, Wet Year Average EC

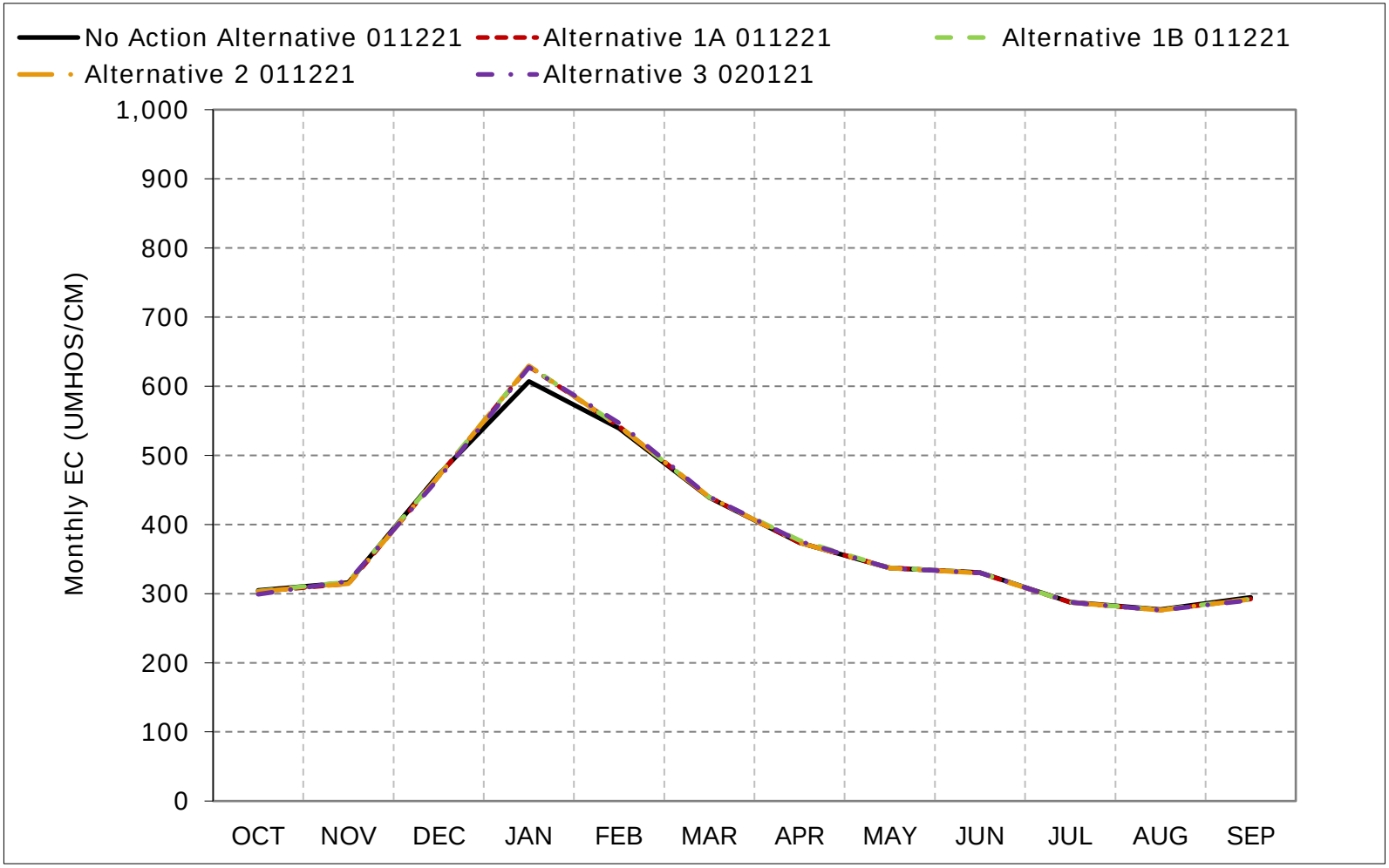


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-3. Victoria Canal, Above Normal Year Average EC

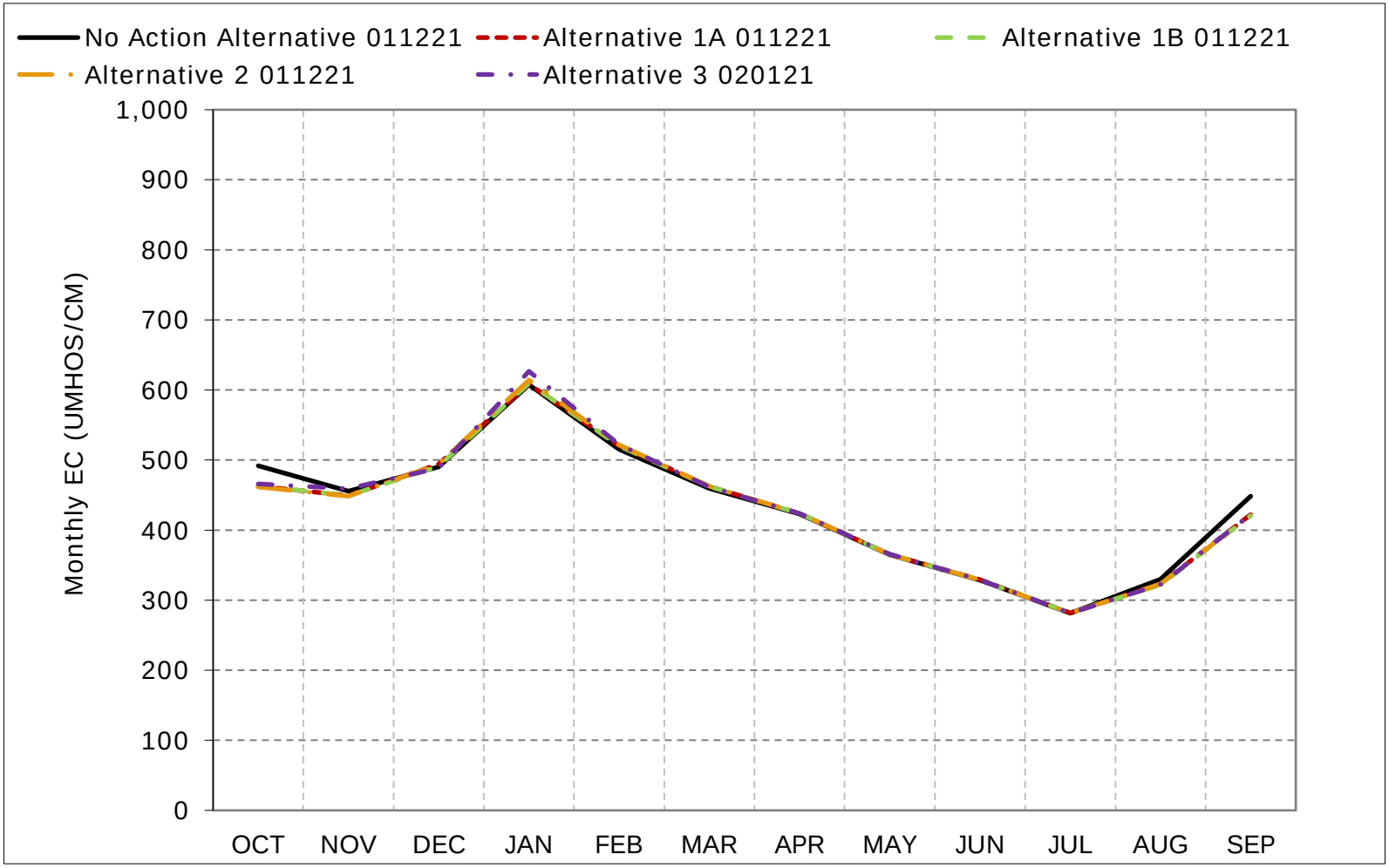


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-4. Victoria Canal, Below Normal Year Average EC

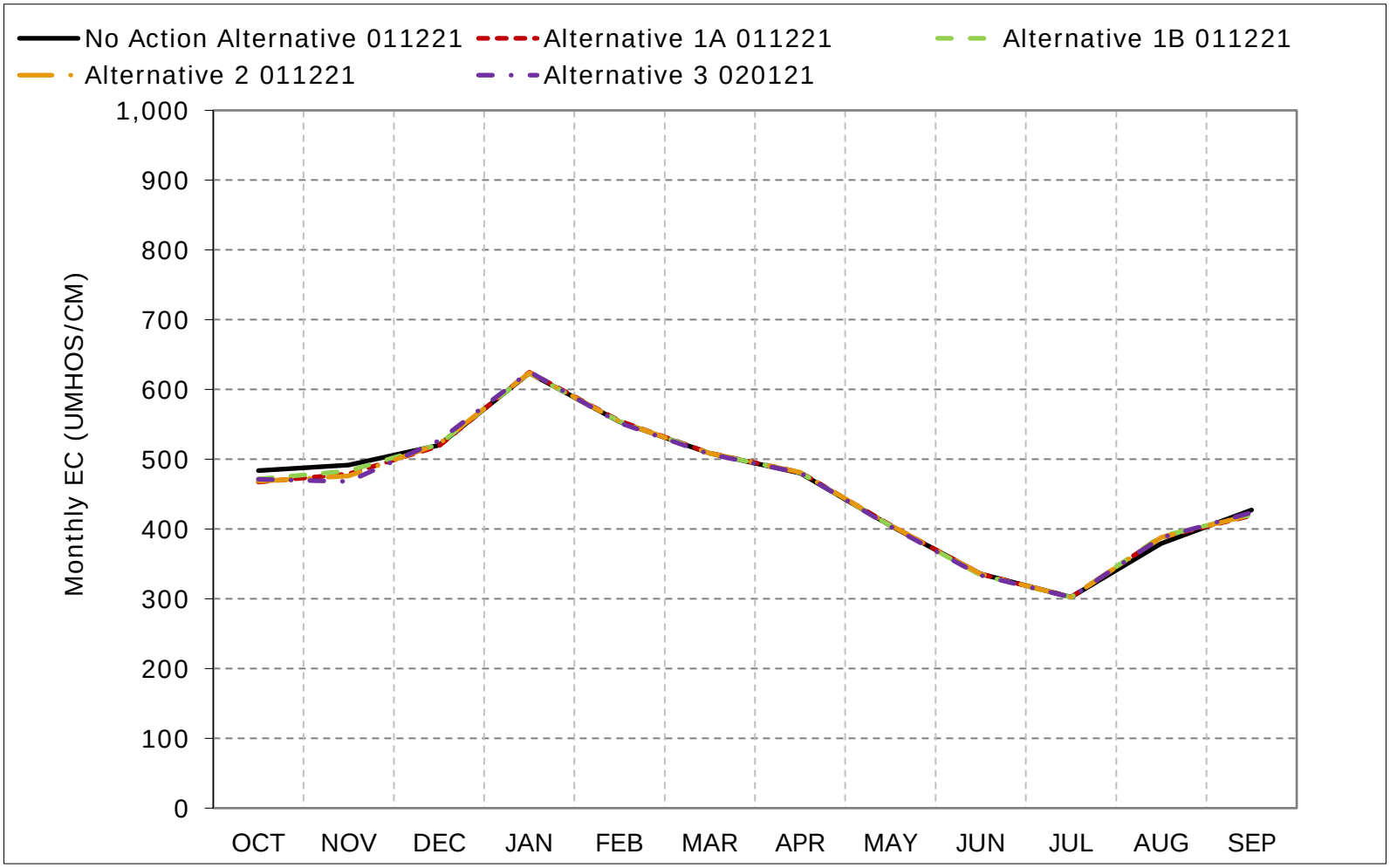


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-5. Victoria Canal, Dry Year Average EC

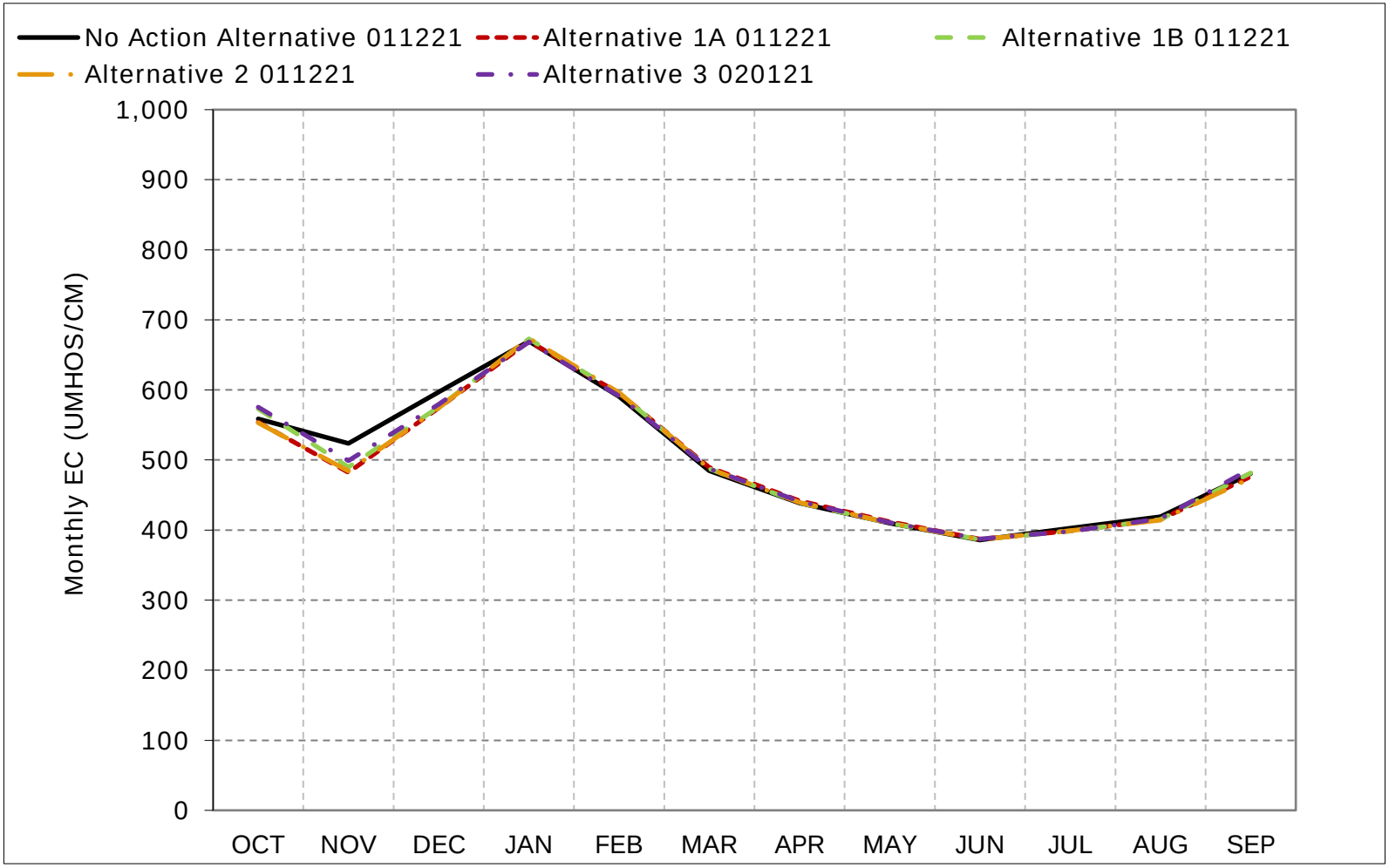


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-6. Victoria Canal, Critical Year Average EC

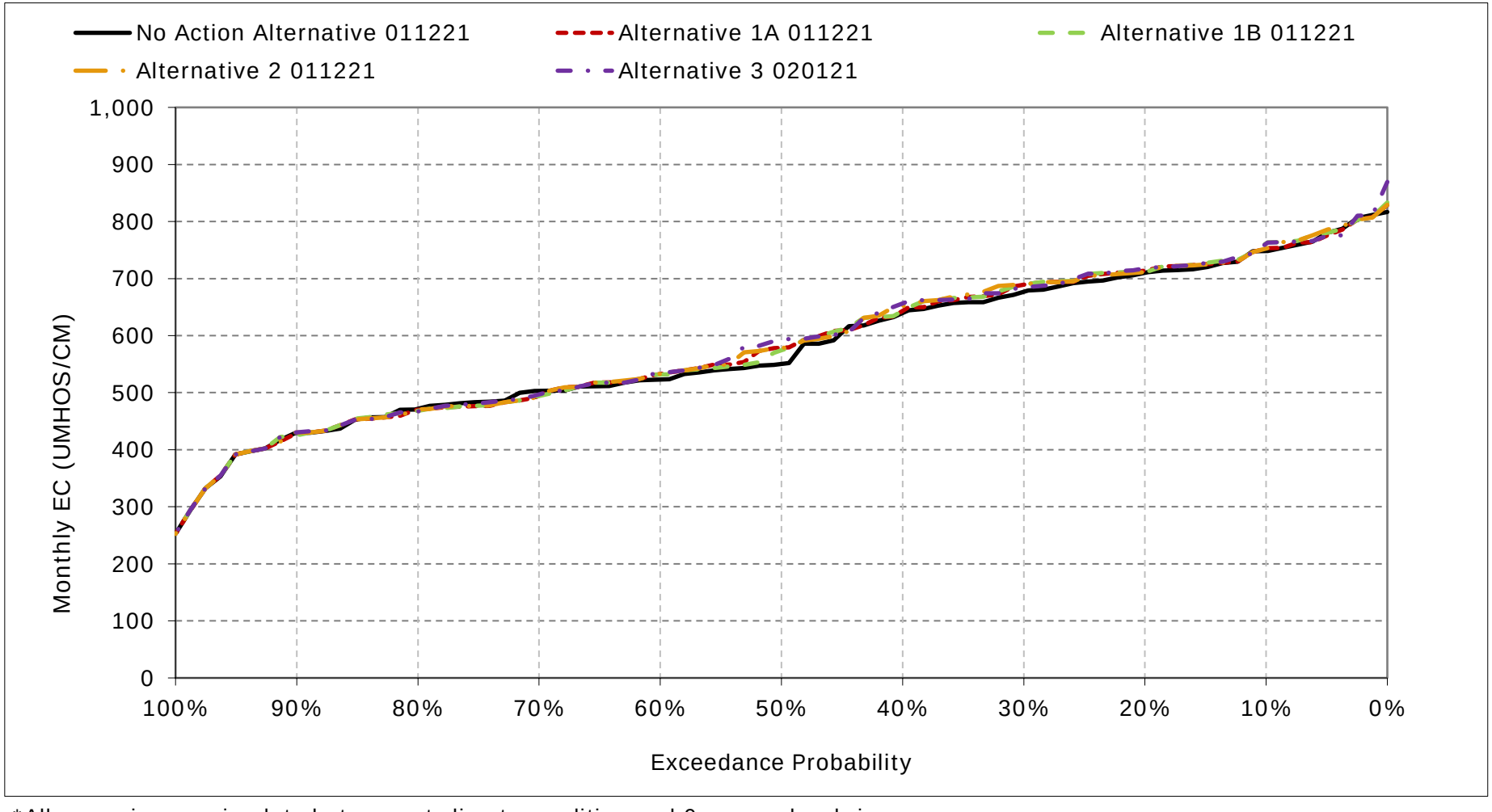


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

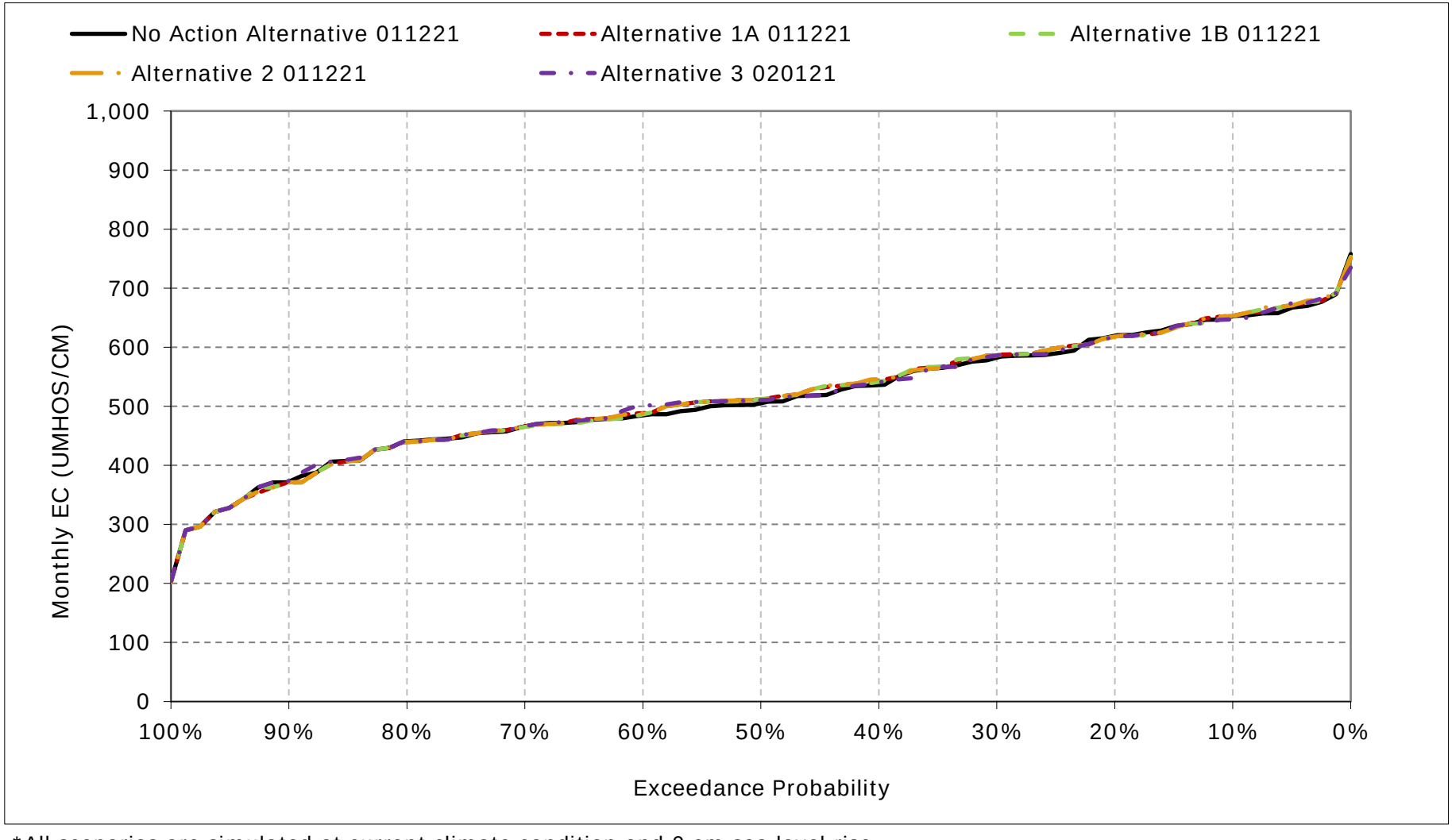
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-7. Victoria Canal, January EC



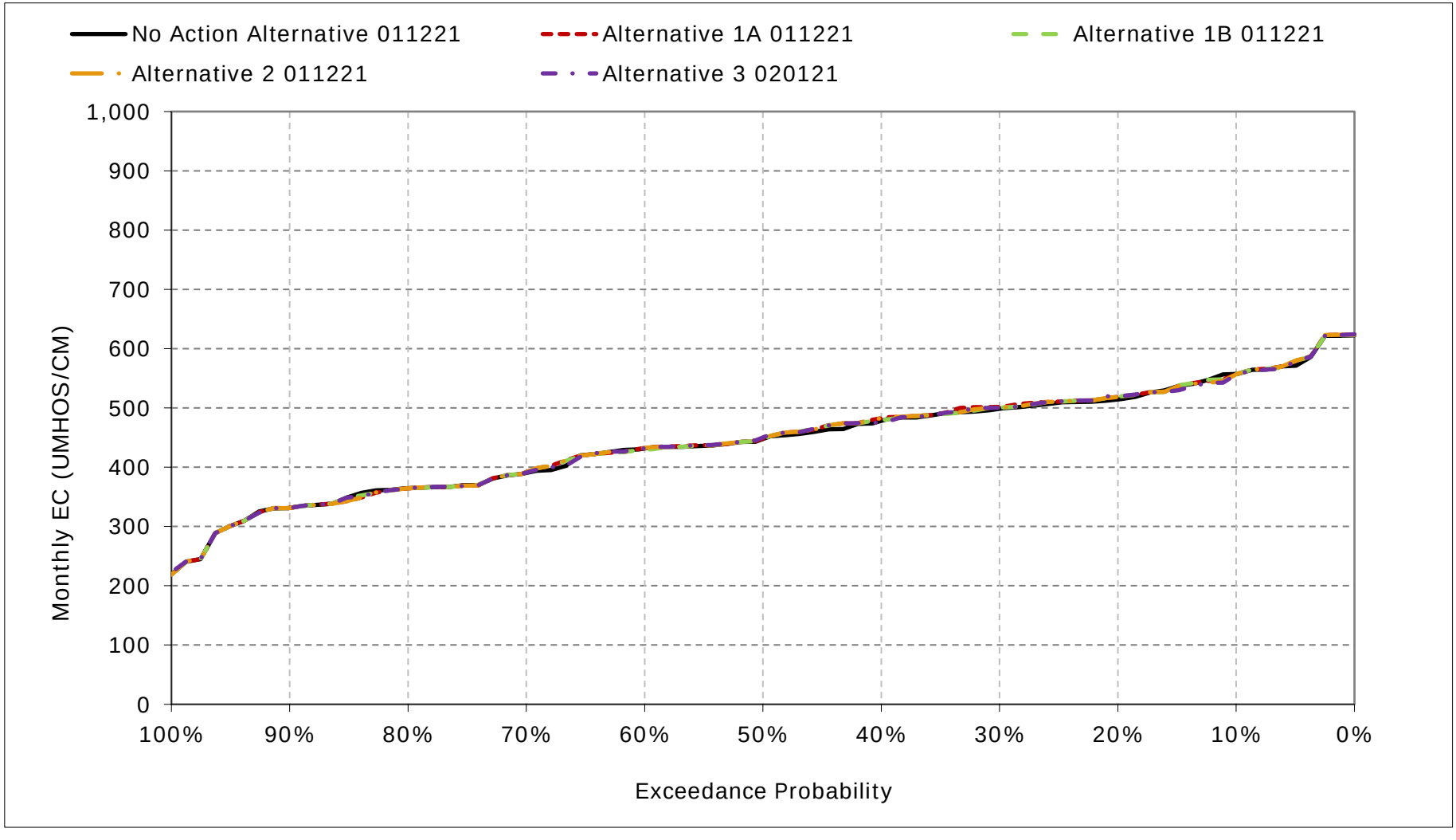
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-8. Victoria Canal, February EC



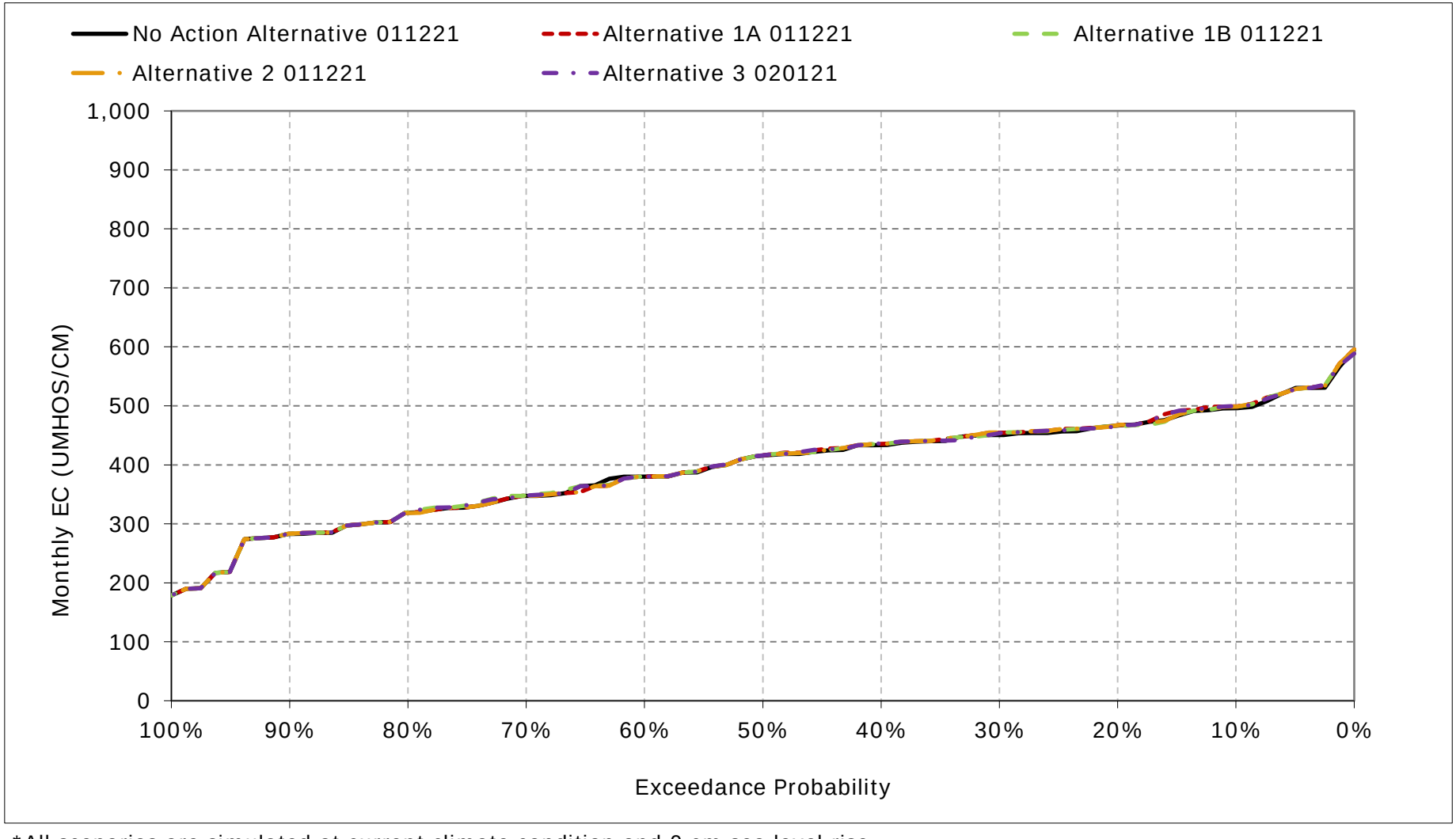
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-9. Victoria Canal, March EC



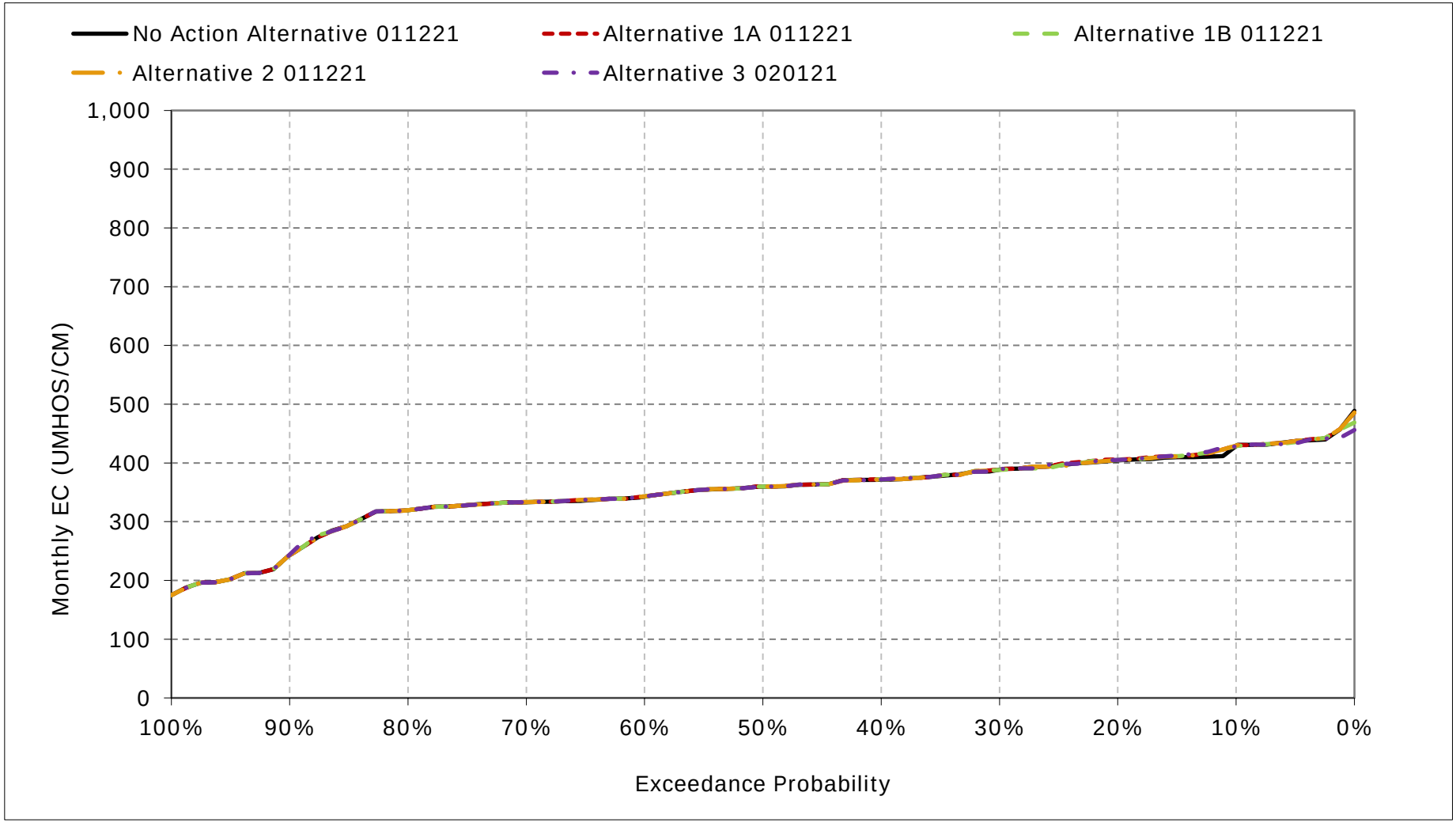
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-10. Victoria Canal, April EC



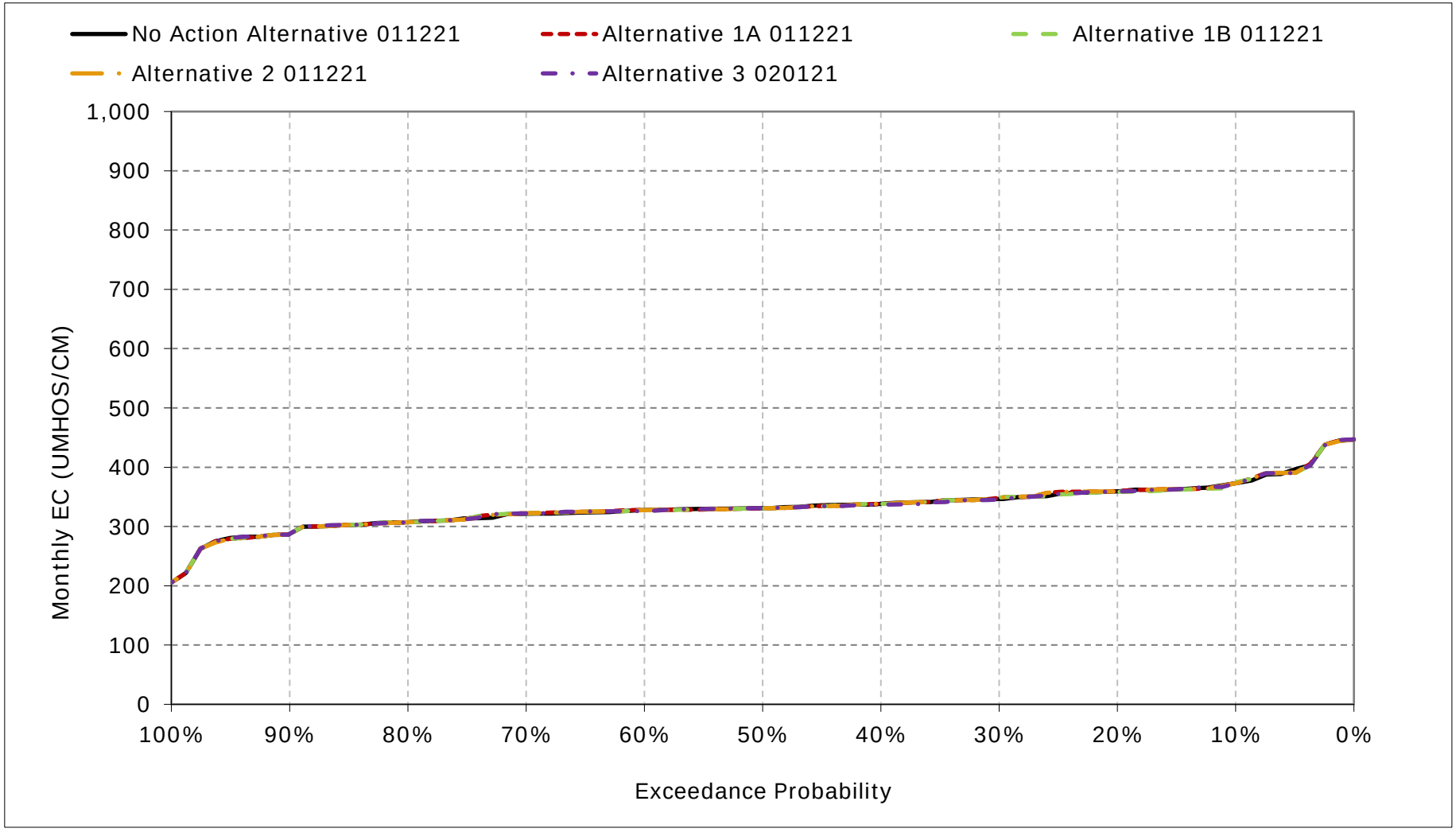
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-11. Victoria Canal, May EC



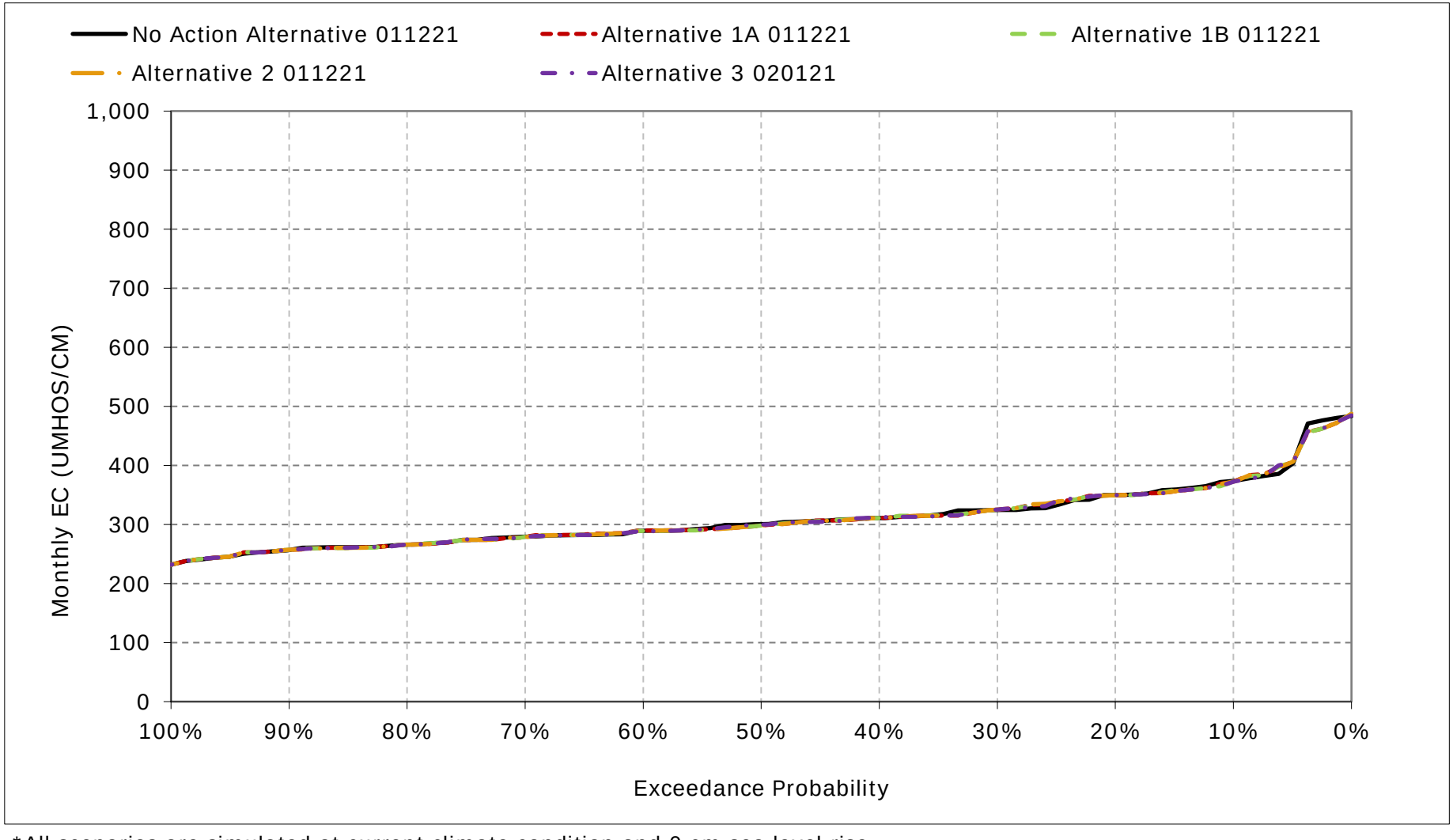
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-12. Victoria Canal, June EC



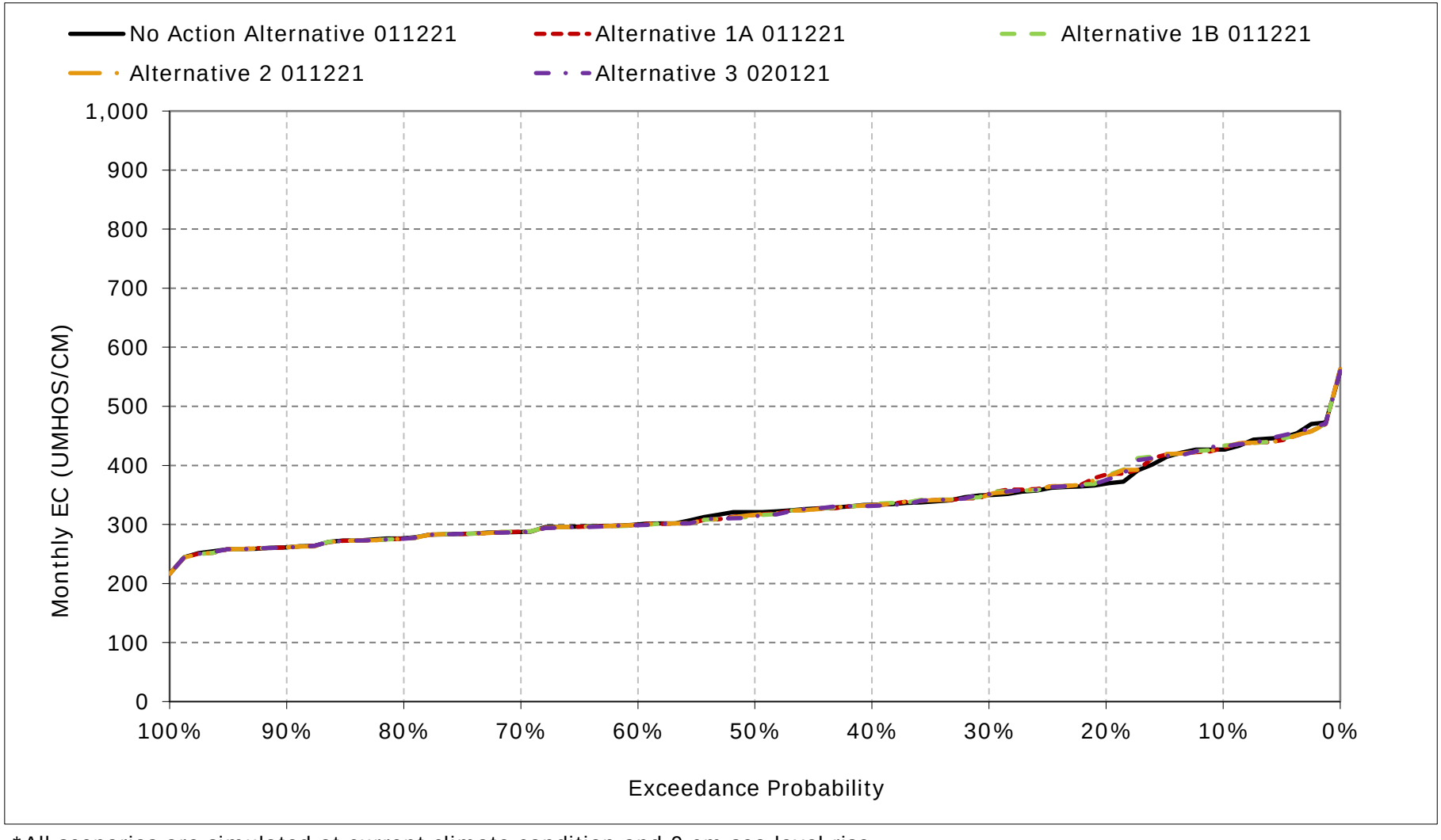
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-13. Victoria Canal, July EC



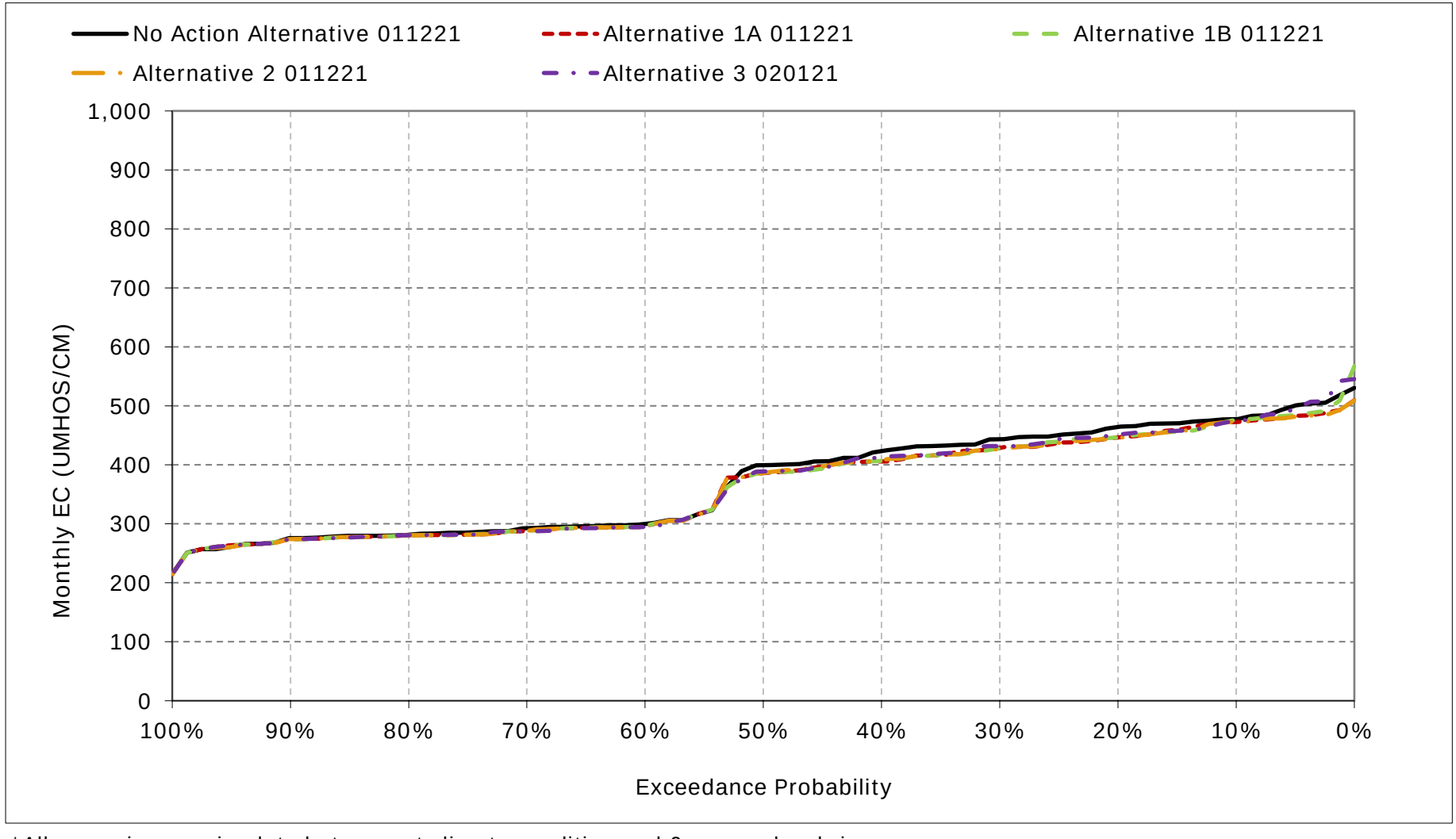
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-14. Victoria Canal, August EC



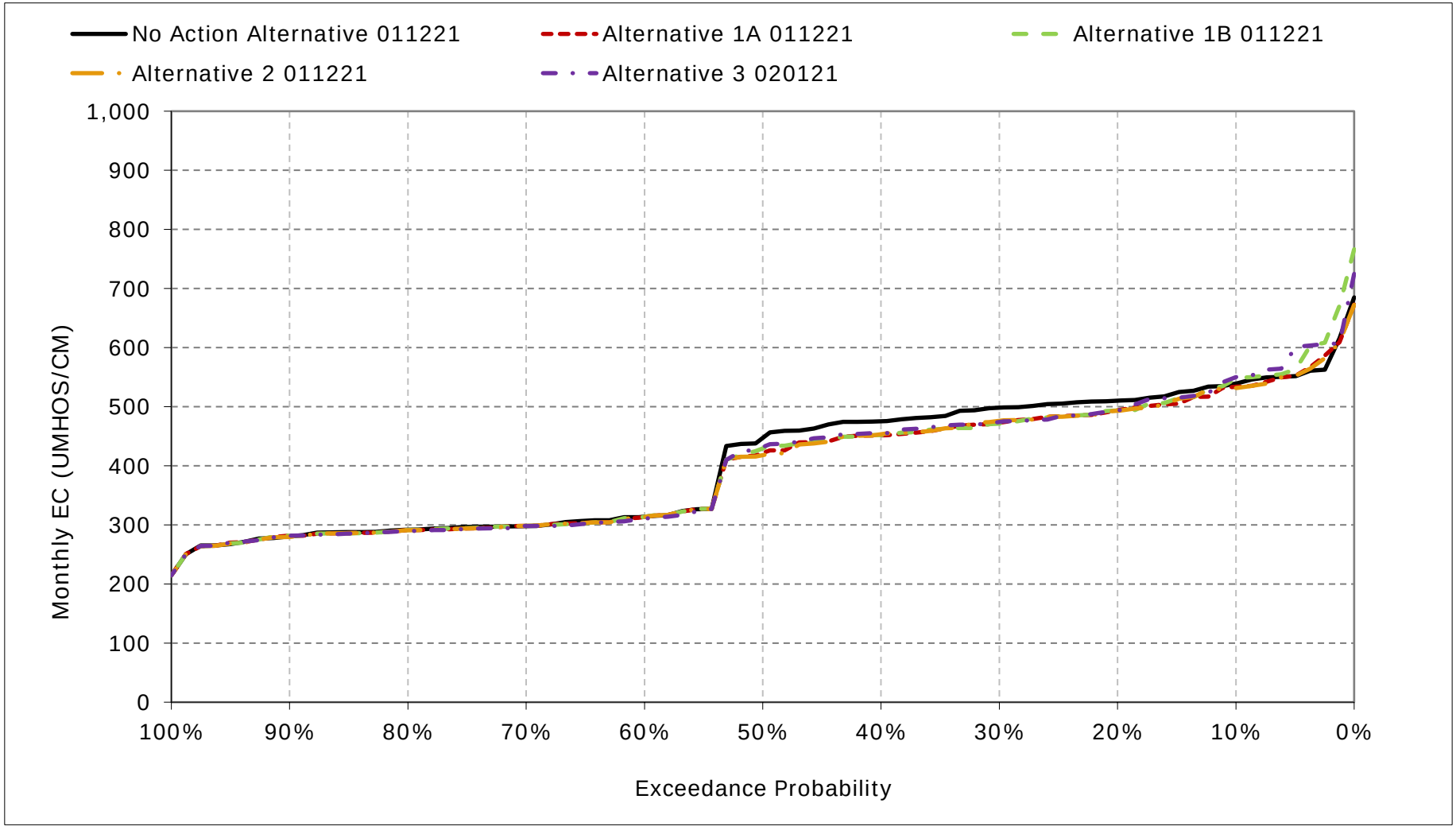
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-15. Victoria Canal, September EC



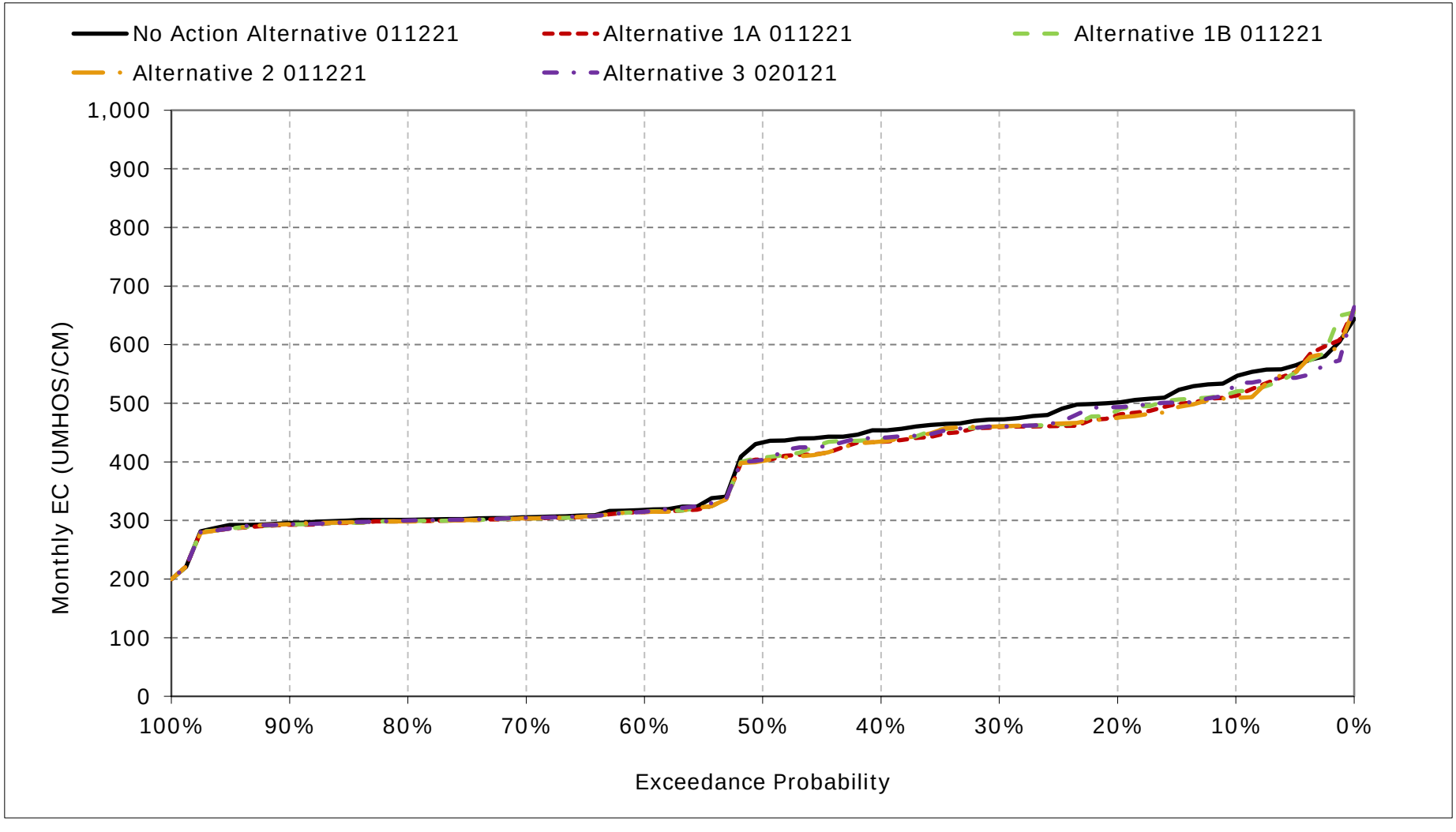
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-16. Victoria Canal, October EC



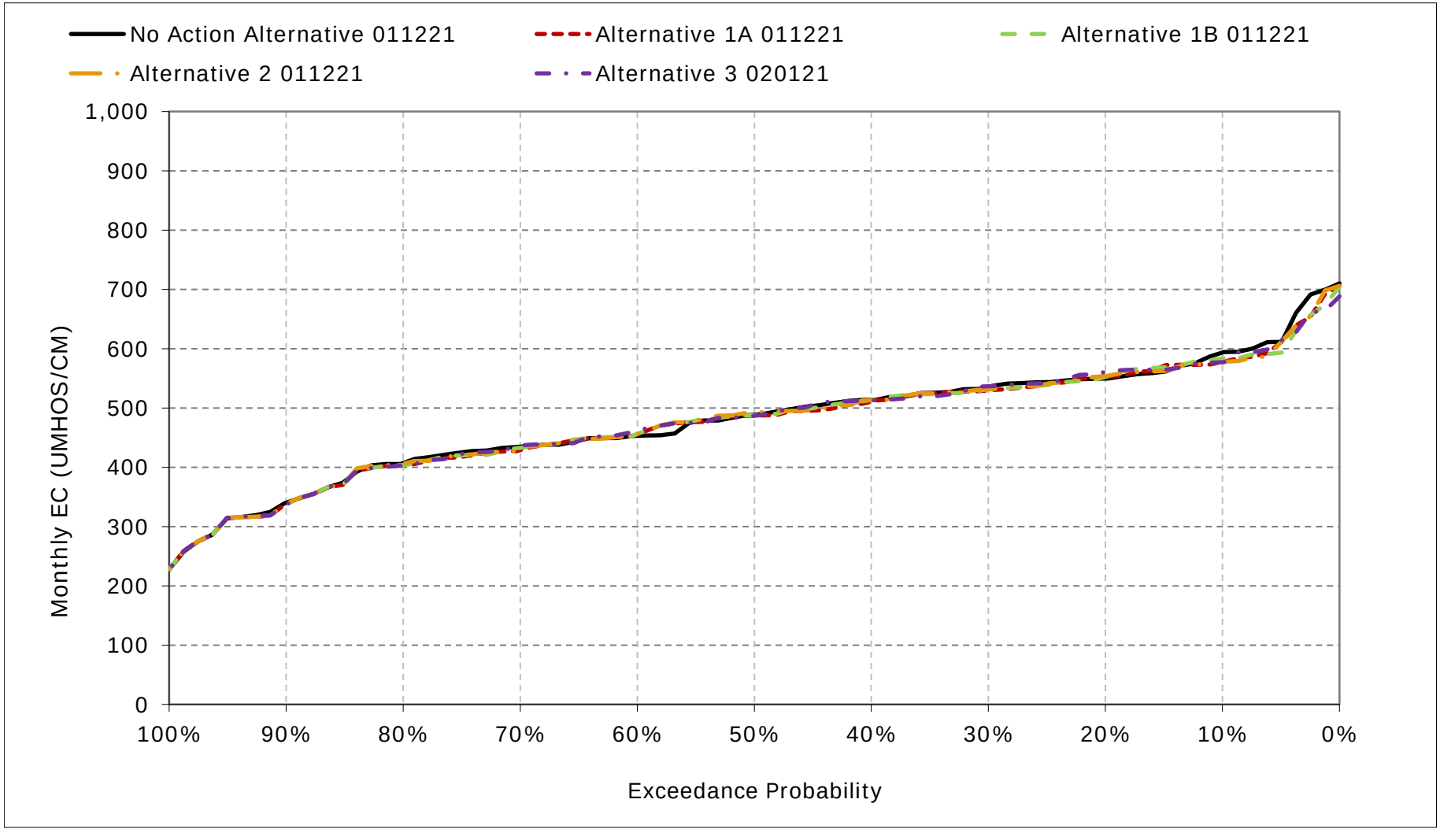
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-17. Victoria Canal, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-19-18. Victoria Canal, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-20-1a. Montezuma Slough at Beldons Landing, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,192	9,629	8,484	5,764	2,288	2,388	2,928	5,541	8,189	10,821	13,850	16,153
20%	9,726	9,466	7,828	4,727	1,570	1,482	2,253	3,928	6,576	9,452	12,558	15,104
30%	9,383	9,111	6,538	4,030	1,191	1,185	1,772	2,972	4,591	6,690	10,447	14,525
40%	9,180	8,843	5,766	2,760	754	888	1,599	2,245	3,934	5,596	5,707	11,563
50%	7,937	8,576	5,195	1,920	504	573	978	1,725	3,704	4,392	4,758	7,635
60%	7,450	8,399	4,383	1,232	332	370	555	1,173	3,147	4,011	3,720	6,799
70%	5,546	8,066	2,805	619	260	239	388	680	2,634	3,194	3,433	2,796
80%	5,226	6,777	1,587	365	219	212	246	409	1,247	2,410	3,108	2,544
90%	4,921	4,364	840	218	206	198	200	199	290	2,003	2,831	2,223
Long Term												
Full Simulation Period[a]	7,623	7,927	4,884	2,548	976	947	1,279	2,215	4,031	5,637	7,053	8,941
Water Year Types[b]												
Wet (32%)	5,186	7,726	4,459	696	289	299	387	735	1,680	3,164	3,069	3,019
Above Normal (15%)	6,539	9,000	4,440	2,087	421	346	532	1,128	2,959	3,307	3,248	4,672
Below Normal (17%)	8,295	6,167	4,312	2,563	824	1,141	1,459	2,631	4,084	4,596	5,463	9,814
Dry (22%)	9,633	7,819	4,894	3,845	1,461	1,286	2,096	3,393	4,488	6,864	11,431	14,756
Critical (15%)	10,186	9,505	6,899	5,056	2,468	2,219	2,520	4,254	9,444	12,697	14,781	16,298

Table 6B1-20-1b. Montezuma Slough at Beldons Landing, Alternative 1A 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,444	9,499	8,173	5,648	2,302	2,218	2,993	5,522	8,086	10,770	13,813	16,092
20%	8,983	9,075	7,150	4,891	1,585	1,545	2,271	3,994	6,658	9,433	12,339	14,498
30%	8,753	8,803	6,256	4,335	1,223	1,250	1,856	2,907	5,001	6,217	10,022	14,112
40%	8,465	8,570	5,795	2,890	860	945	1,621	2,271	3,991	5,241	5,265	11,008
50%	7,608	8,344	5,177	1,809	560	635	1,039	1,734	3,773	4,387	4,595	7,689
60%	7,271	8,067	3,952	1,277	323	399	631	1,199	3,168	3,719	3,667	6,515
70%	5,384	7,654	2,765	594	253	241	398	723	2,645	3,204	3,380	2,613
80%	5,067	6,602	1,502	317	223	211	249	420	1,266	2,421	3,027	2,362
90%	4,792	4,543	777	222	206	198	200	201	293	2,017	2,726	2,097
Long Term												
Full Simulation Period[a]	7,259	7,661	4,684	2,637	1,009	947	1,319	2,226	4,115	5,548	6,841	8,702
Water Year Types[b]												
Wet (32%)	5,182	7,764	3,924	684	293	307	395	740	1,702	3,199	2,930	2,900
Above Normal (15%)	6,405	8,931	4,490	2,122	434	376	565	1,141	3,002	3,355	3,160	4,527
Below Normal (17%)	7,854	5,921	4,144	2,868	874	1,242	1,539	2,656	4,143	4,303	5,099	9,512
Dry (22%)	8,957	7,292	4,748	3,939	1,496	1,356	2,177	3,389	4,739	6,613	11,076	14,264
Critical (15%)	9,369	8,749	7,062	5,159	2,564	1,947	2,532	4,287	9,485	12,684	14,678	16,160

Table 6B1-20-1c. Montezuma Slough at Beldons Landing, Alternative 1A 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-748	-131	-311	-116	14	-170	65	-19	-103	-51	-37	-61
20%	-743	-391	-678	165	15	63	18	66	82	-19	-219	-606
30%	-630	-308	-282	305	32	65	83	-66	410	-473	-426	-413
40%	-716	-272	29	130	106	57	22	25	58	-355	-442	-555
50%	-329	-232	-18	-111	56	62	62	9	69	-4	-162	53
60%	-179	-332	-430	45	-9	29	75	27	21	-292	-54	-284
70%	-162	-413	-40	-25	-7	2	10	42	11	10	-53	-183
80%	-159	-175	-85	-48	4	-1	4	11	19	12	-81	-183
90%	-129	179	-63	4	0	0	0	2	3	14	-105	-126
Long Term												
Full Simulation Period[a]	-364	-266	-199	89	33	0	40	12	84	-89	-212	-239
Water Year Types[b]												
Wet (32%)	-4	38	-535	-11	4	8	8	5	22	35	-139	-120
Above Normal (15%)	-134	-69	50	35	13	30	33	13	43	48	-87	-145
Below Normal (17%)	-441	-246	-168	305	50	102	79	25	59	-293	-365	-302
Dry (22%)	-676	-527	-146	94	35	70	81	-3	251	-251	-355	-492
Critical (15%)	-817	-756	163	103	96	-272	12	33	40	-13	-103	-138

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-20-2a. Montezuma Slough at Beldons Landing, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,192	9,629	8,484	5,764	2,288	2,388	2,928	5,541	8,189	10,821	13,850	16,153
20%	9,726	9,466	7,828	4,727	1,570	1,482	2,253	3,928	6,576	9,452	12,558	15,104
30%	9,383	9,111	6,538	4,030	1,191	1,185	1,772	2,972	4,591	6,690	10,447	14,525
40%	9,180	8,843	5,766	2,760	754	888	1,599	2,245	3,934	5,596	5,707	11,563
50%	7,937	8,576	5,195	1,920	504	573	978	1,725	3,704	4,392	4,758	7,635
60%	7,450	8,399	4,383	1,232	332	370	555	1,173	3,147	4,011	3,720	6,799
70%	5,546	8,066	2,805	619	260	239	388	680	2,634	3,194	3,433	2,796
80%	5,226	6,777	1,587	365	219	212	246	409	1,247	2,410	3,108	2,544
90%	4,921	4,364	840	218	206	198	200	199	290	2,003	2,831	2,223
Long Term												
Full Simulation Period[a]	7,623	7,927	4,884	2,548	976	947	1,279	2,215	4,031	5,637	7,053	8,941
Water Year Types[b]												
Wet (32%)	5,186	7,726	4,459	696	289	299	387	735	1,680	3,164	3,069	3,019
Above Normal (15%)	6,539	9,000	4,440	2,087	421	346	532	1,128	2,959	3,307	3,248	4,672
Below Normal (17%)	8,295	6,167	4,312	2,563	824	1,141	1,459	2,631	4,084	4,596	5,463	9,814
Dry (22%)	9,633	7,819	4,894	3,845	1,461	1,286	2,096	3,393	4,488	6,864	11,431	14,756
Critical (15%)	10,186	9,505	6,899	5,056	2,468	2,219	2,520	4,254	9,444	12,697	14,781	16,298

Table 6B1-20-2b. Montezuma Slough at Beldons Landing, Alternative 1B 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,480	9,526	8,171	5,606	2,298	2,299	2,993	5,508	8,090	10,771	13,819	15,941
20%	9,077	9,077	7,230	4,896	1,586	1,613	2,271	3,984	6,629	9,435	12,328	14,525
30%	8,818	8,822	6,251	4,333	1,212	1,283	1,870	2,910	5,001	6,219	10,019	14,139
40%	8,430	8,642	5,762	2,835	831	976	1,647	2,272	4,033	5,233	5,265	11,008
50%	7,609	8,383	5,196	1,843	559	636	1,039	1,735	3,774	4,386	4,599	7,538
60%	7,313	8,061	4,003	1,286	343	399	631	1,199	3,182	3,717	3,667	6,495
70%	5,388	7,720	2,877	620	263	247	398	722	2,646	3,204	3,379	2,609
80%	5,067	6,557	1,566	329	223	213	249	420	1,265	2,421	3,027	2,361
90%	4,834	4,616	762	221	206	198	200	204	292	2,016	2,726	2,097
Long Term												
Full Simulation Period[a]	7,280	7,677	4,706	2,635	1,007	972	1,323	2,228	4,120	5,549	6,837	8,701
Water Year Types[b]												
Wet (32%)	5,182	7,773	3,919	703	294	307	395	740	1,703	3,199	2,931	2,899
Above Normal (15%)	6,428	8,944	4,469	2,150	432	374	564	1,142	3,005	3,353	3,163	4,543
Below Normal (17%)	7,837	5,840	4,277	2,857	887	1,246	1,539	2,654	4,142	4,298	5,076	9,486
Dry (22%)	9,025	7,378	4,779	3,906	1,489	1,352	2,179	3,396	4,754	6,619	11,073	14,286
Critical (15%)	9,413	8,793	7,038	5,141	2,547	2,118	2,555	4,291	9,494	12,690	14,676	16,141

Table 6B1-20-2c. Montezuma Slough at Beldons Landing, Alternative 1B 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-712	-104	-313	-158	10	-89	65	-33	-99	-50	-32	-212
20%	-650	-390	-598	169	16	131	18	56	54	-17	-230	-580
30%	-565	-289	-288	303	21	97	98	-62	410	-472	-428	-386
40%	-751	-200	-4	74	77	88	48	26	99	-363	-441	-555
50%	-328	-193	1	-77	56	62	62	9	70	-6	-158	-97
60%	-137	-338	-379	54	11	29	75	27	35	-294	-54	-304
70%	-158	-347	72	1	3	9	10	42	12	10	-54	-187
80%	-159	-219	-21	-36	4	1	3	12	19	12	-81	-183
90%	-86	252	-78	3	0	0	0	4	2	14	-105	-126
Long Term												
Full Simulation Period[a]	-342	-250	-178	88	31	24	44	14	89	-88	-216	-240
Water Year Types[b]												
Wet (32%)	-4	47	-540	7	5	9	8	5	22	35	-139	-121
Above Normal (15%)	-111	-56	29	63	11	28	31	14	45	45	-85	-129
Below Normal (17%)	-458	-326	-34	294	63	105	79	23	58	-298	-387	-329
Dry (22%)	-608	-441	-115	61	27	66	83	3	266	-245	-357	-471
Critical (15%)	-773	-712	139	85	79	-101	35	37	50	-7	-105	-157

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-20-3a. Montezuma Slough at Beldons Landing, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,192	9,629	8,484	5,764	2,288	2,388	2,928	5,541	8,189	10,821	13,850	16,153
20%	9,726	9,466	7,828	4,727	1,570	1,482	2,253	3,928	6,576	9,452	12,558	15,104
30%	9,383	9,111	6,538	4,030	1,191	1,185	1,772	2,972	4,591	6,690	10,447	14,525
40%	9,180	8,843	5,766	2,760	754	888	1,599	2,245	3,934	5,596	5,707	11,563
50%	7,937	8,576	5,195	1,920	504	573	978	1,725	3,704	4,392	4,758	7,635
60%	7,450	8,399	4,383	1,232	332	370	555	1,173	3,147	4,011	3,720	6,799
70%	5,546	8,066	2,805	619	260	239	388	680	2,634	3,194	3,433	2,796
80%	5,226	6,777	1,587	365	219	212	246	409	1,247	2,410	3,108	2,544
90%	4,921	4,364	840	218	206	198	200	199	290	2,003	2,831	2,223
Long Term												
Full Simulation Period[a]	7,623	7,927	4,884	2,548	976	947	1,279	2,215	4,031	5,637	7,053	8,941
Water Year Types[b]												
Wet (32%)	5,186	7,726	4,459	696	289	299	387	735	1,680	3,164	3,069	3,019
Above Normal (15%)	6,539	9,000	4,440	2,087	421	346	532	1,128	2,959	3,307	3,248	4,672
Below Normal (17%)	8,295	6,167	4,312	2,563	824	1,141	1,459	2,631	4,084	4,596	5,463	9,814
Dry (22%)	9,633	7,819	4,894	3,845	1,461	1,286	2,096	3,393	4,488	6,864	11,431	14,756
Critical (15%)	10,186	9,505	6,899	5,056	2,468	2,219	2,520	4,254	9,444	12,697	14,781	16,298

Table 6B1-20-3b. Montezuma Slough at Beldons Landing, Alternative 2 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,515	9,500	8,177	5,645	2,305	2,299	2,993	5,522	8,087	10,782	13,826	15,999
20%	9,055	9,099	7,375	4,978	1,586	1,614	2,271	3,985	6,629	9,434	12,368	14,549
30%	8,825	8,885	6,256	4,337	1,223	1,283	1,856	2,909	5,001	6,217	10,021	14,171
40%	8,531	8,660	5,795	2,978	860	942	1,649	2,271	3,991	5,244	5,272	11,008
50%	7,600	8,372	5,279	1,809	559	634	1,039	1,736	3,775	4,399	4,518	7,686
60%	7,271	8,083	3,951	1,274	323	399	630	1,199	3,168	3,718	3,667	6,515
70%	5,375	7,662	2,764	590	253	241	398	723	2,645	3,204	3,338	2,592
80%	5,047	6,598	1,561	319	223	211	249	420	1,265	2,421	3,031	2,362
90%	4,763	4,542	775	221	206	197	200	200	292	2,017	2,757	2,064
Long Term												
Full Simulation Period[a]	7,238	7,689	4,705	2,638	1,006	970	1,321	2,226	4,115	5,549	6,858	8,700
Water Year Types[b]												
Wet (32%)	5,069	7,723	3,923	683	293	307	395	740	1,702	3,199	2,985	2,883
Above Normal (15%)	6,400	8,927	4,489	2,123	434	375	565	1,141	3,003	3,355	3,155	4,520
Below Normal (17%)	7,801	5,895	4,138	2,890	876	1,243	1,539	2,655	4,140	4,302	5,092	9,495
Dry (22%)	9,012	7,464	4,866	3,937	1,494	1,352	2,171	3,388	4,740	6,616	11,082	14,292
Critical (15%)	9,461	8,806	7,032	5,149	2,546	2,114	2,555	4,289	9,488	12,687	14,679	16,166

Table 6B1-20-3c. Montezuma Slough at Beldons Landing, Alternative 2 011221 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-677	-129	-307	-119	17	-89	65	-19	-103	-39	-24	-154
20%	-671	-367	-453	251	16	131	18	56	54	-18	-190	-555
30%	-558	-227	-282	307	32	98	83	-63	410	-473	-427	-355
40%	-649	-183	29	217	106	54	50	25	58	-352	-435	-555
50%	-338	-204	84	-111	56	61	62	11	71	7	-240	51
60%	-179	-316	-432	41	-9	29	75	27	21	-293	-53	-284
70%	-171	-404	-40	-29	-7	2	10	42	11	10	-95	-204
80%	-179	-178	-26	-46	4	-1	4	11	18	12	-77	-183
90%	-158	178	-64	3	0	-1	0	1	3	14	-74	-159
Long Term												
Full Simulation Period[a]	-384	-238	-179	91	30	23	43	12	85	-88	-195	-241
Water Year Types[b]												
Wet (32%)	-117	-3	-536	-13	4	8	8	5	22	34	-84	-136
Above Normal (15%)	-139	-73	49	36	13	29	32	13	44	48	-92	-152
Below Normal (17%)	-494	-272	-174	327	51	102	79	24	56	-295	-371	-319
Dry (22%)	-621	-355	-28	92	33	66	76	-5	252	-248	-348	-464
Critical (15%)	-725	-699	133	93	78	-105	35	36	43	-10	-102	-132

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B1-20-4a. Montezuma Slough at Beldons Landing, No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,192	9,629	8,484	5,764	2,288	2,388	2,928	5,541	8,189	10,821	13,850	16,153
20%	9,726	9,466	7,828	4,727	1,570	1,482	2,253	3,928	6,576	9,452	12,558	15,104
30%	9,383	9,111	6,538	4,030	1,191	1,185	1,772	2,972	4,591	6,690	10,447	14,525
40%	9,180	8,843	5,766	2,760	754	888	1,599	2,245	3,934	5,596	5,707	11,563
50%	7,937	8,576	5,195	1,920	504	573	978	1,725	3,704	4,392	4,758	7,635
60%	7,450	8,399	4,383	1,232	332	370	555	1,173	3,147	4,011	3,720	6,799
70%	5,546	8,066	2,805	619	260	239	388	680	2,634	3,194	3,433	2,796
80%	5,226	6,777	1,587	365	219	212	246	409	1,247	2,410	3,108	2,544
90%	4,921	4,364	840	218	206	198	200	199	290	2,003	2,831	2,223
Long Term												
Full Simulation Period[a]	7,623	7,927	4,884	2,548	976	947	1,279	2,215	4,031	5,637	7,053	8,941
Water Year Types[b]												
Wet (32%)	5,186	7,726	4,459	696	289	299	387	735	1,680	3,164	3,069	3,019
Above Normal (15%)	6,539	9,000	4,440	2,087	421	346	532	1,128	2,959	3,307	3,248	4,672
Below Normal (17%)	8,295	6,167	4,312	2,563	824	1,141	1,459	2,631	4,084	4,596	5,463	9,814
Dry (22%)	9,633	7,819	4,894	3,845	1,461	1,286	2,096	3,393	4,488	6,864	11,431	14,756
Critical (15%)	10,186	9,505	6,899	5,056	2,468	2,219	2,520	4,254	9,444	12,697	14,781	16,298

Table 6B1-20-4b. Montezuma Slough at Beldons Landing, Alternative 3 020121, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,785	9,474	8,258	5,466	2,787	2,295	2,993	5,495	8,093	10,782	13,830	15,999
20%	9,303	9,142	7,474	4,906	1,585	1,543	2,273	3,996	6,659	9,378	12,338	14,545
30%	9,102	8,917	6,223	4,195	1,212	1,259	1,864	2,895	5,003	6,229	10,007	14,155
40%	8,593	8,706	5,760	2,953	839	976	1,624	2,267	4,073	5,192	5,272	11,032
50%	7,572	8,495	5,292	1,844	559	610	1,039	1,738	3,776	4,403	4,635	7,448
60%	7,304	8,250	3,923	1,460	336	399	631	1,200	3,174	3,691	3,663	6,502
70%	5,416	7,858	2,532	605	264	245	399	723	2,656	3,204	3,384	2,627
80%	5,068	6,509	1,615	322	224	212	249	420	1,263	2,421	3,024	2,361
90%	4,845	4,618	725	220	206	198	200	204	292	2,015	2,718	2,097
Long Term												
Full Simulation Period[a]	7,413	7,718	4,712	2,617	1,033	947	1,316	2,234	4,129	5,547	6,846	8,738
Water Year Types[b]												
Wet (32%)	5,196	7,772	3,918	779	297	307	395	740	1,702	3,199	2,928	2,905
Above Normal (15%)	6,403	8,924	4,414	2,147	431	374	564	1,142	3,006	3,340	3,160	4,523
Below Normal (17%)	8,193	5,790	4,173	2,717	868	1,244	1,538	2,647	4,138	4,294	5,081	9,498
Dry (22%)	9,184	7,534	4,926	3,831	1,603	1,356	2,170	3,422	4,784	6,607	11,085	14,389
Critical (15%)	9,657	8,923	7,039	5,132	2,567	1,946	2,524	4,299	9,518	12,710	14,721	16,226

Table 6B1-20-4c. Montezuma Slough at Beldons Landing, Alternative 3 020121 minus No Action Alternative 011221, Monthly EC (UMHOS/CM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-408	-155	-226	-298	500	-92	65	-46	-96	-38	-20	-154
20%	-424	-324	-354	180	15	61	20	67	84	-74	-220	-559
30%	-282	-195	-315	165	21	74	92	-77	412	-461	-440	-371
40%	-587	-136	-6	193	85	88	25	21	140	-404	-434	-531
50%	-365	-81	97	-76	55	37	61	13	72	11	-123	-187
60%	-146	-149	-459	227	3	29	76	27	27	-320	-58	-297
70%	-130	-208	-273	-14	4	7	11	43	22	10	-49	-169
80%	-158	-268	28	-43	4	0	4	11	17	12	-83	-183
90%	-75	254	-115	2	0	1	0	4	2	13	-113	-126
Long Term												
Full Simulation Period[a]	-210	-209	-171	70	57	0	38	19	98	-90	-207	-203
Water Year Types[b]												
Wet (32%)	10	45	-541	84	8	8	9	5	22	35	-141	-114
Above Normal (15%)	-136	-76	-26	60	10	28	31	13	46	33	-88	-149
Below Normal (17%)	-101	-376	-138	154	44	103	78	16	54	-302	-382	-316
Dry (22%)	-449	-285	32	-14	142	70	75	29	295	-257	-346	-367
Critical (15%)	-528	-582	140	75	100	-273	4	45	73	13	-59	-72

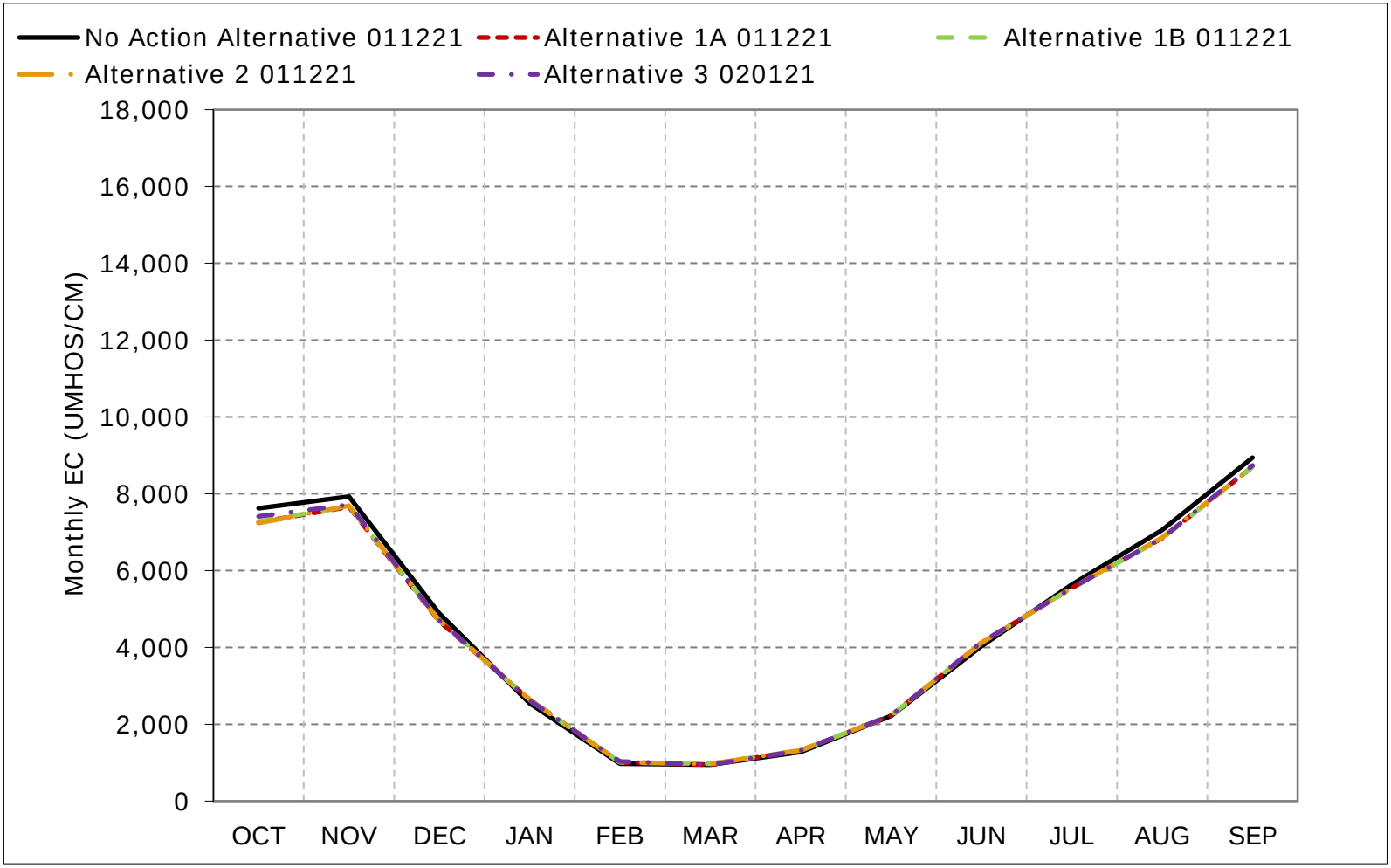
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-1. Montezuma Slough at Beldons Landing, Long-Term Average EC

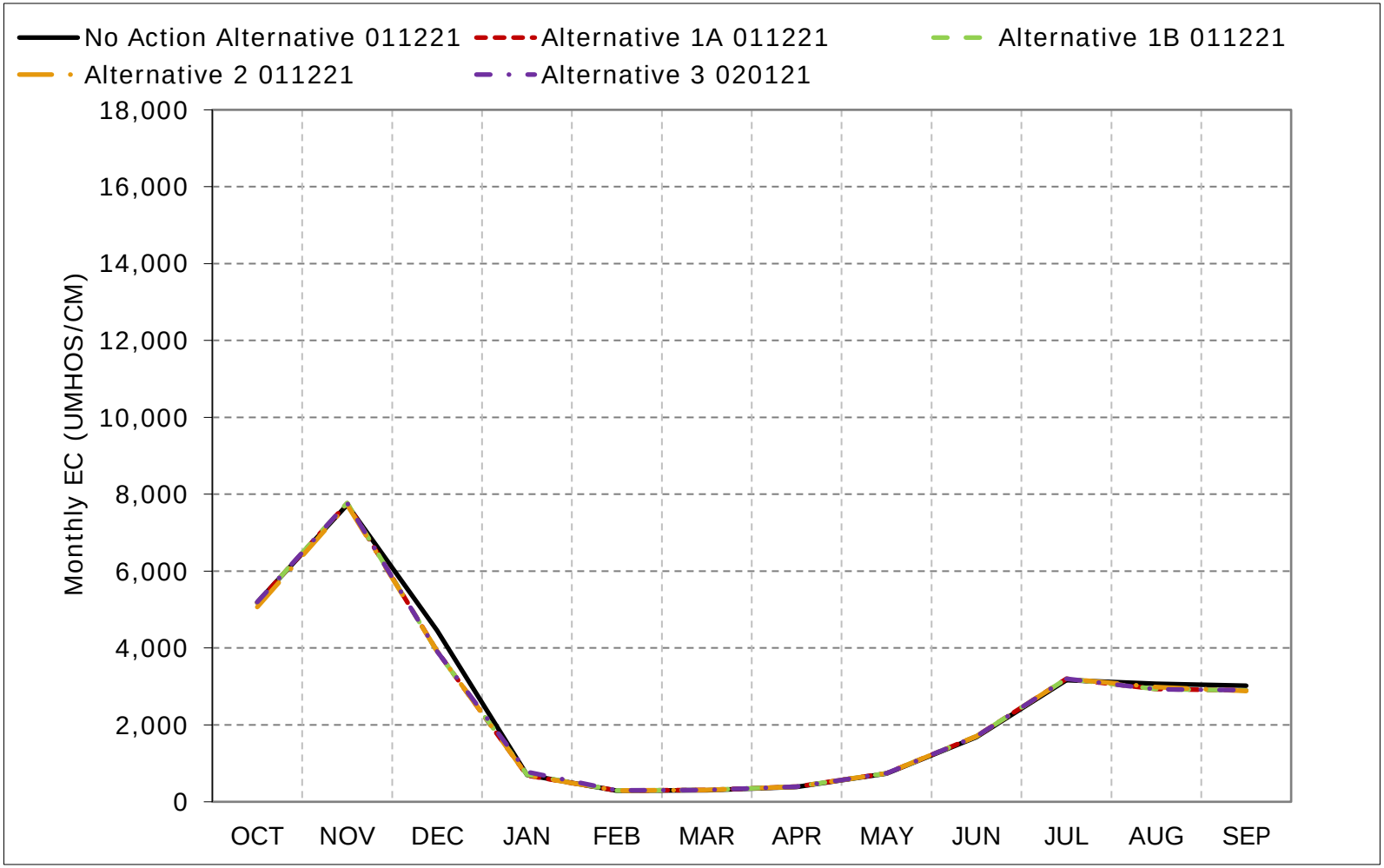


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-2. Montezuma Slough at Beldons Landing, Wet Year Average EC

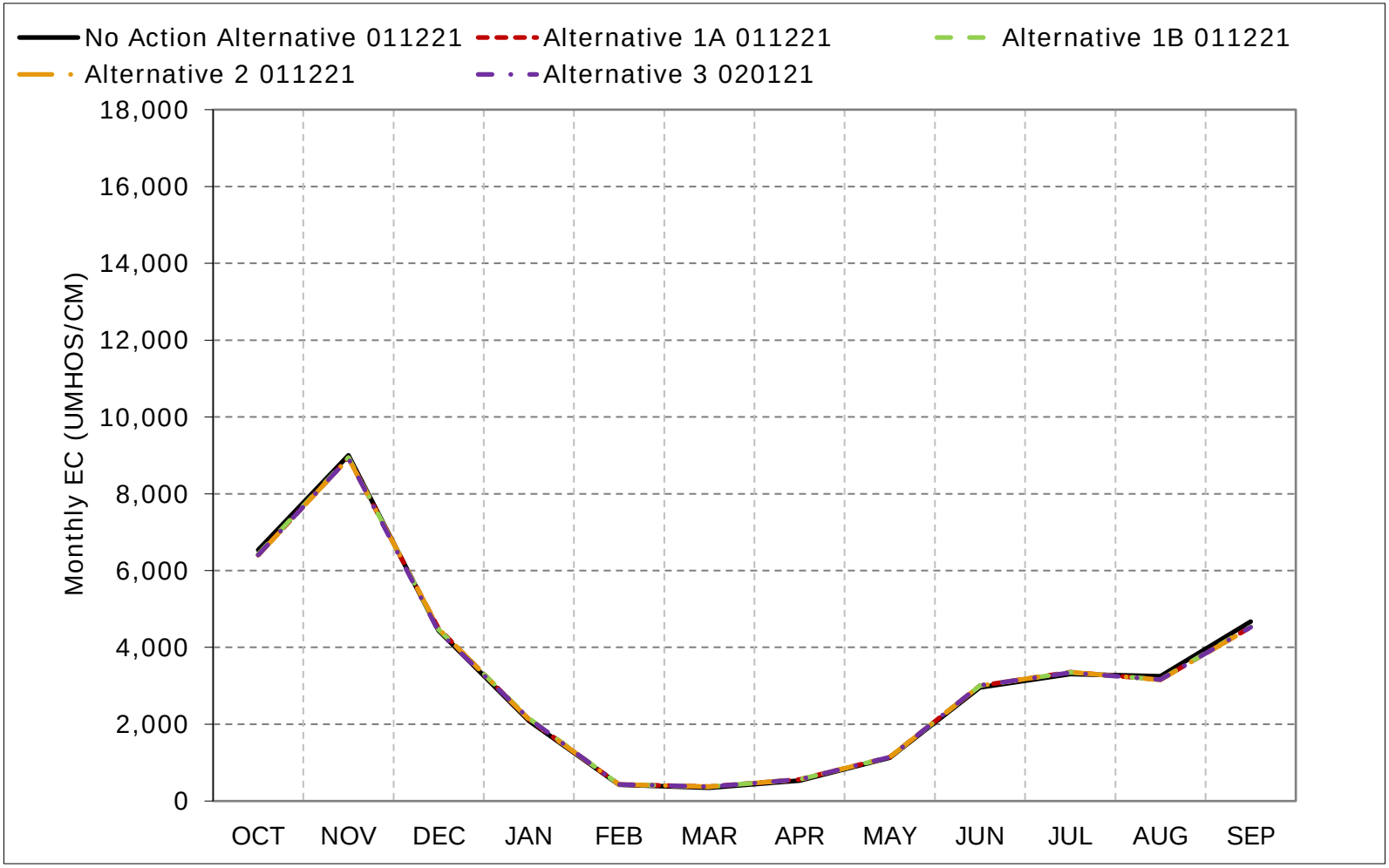


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-3. Montezuma Slough at Beldons Landing, Above Normal Year Average EC

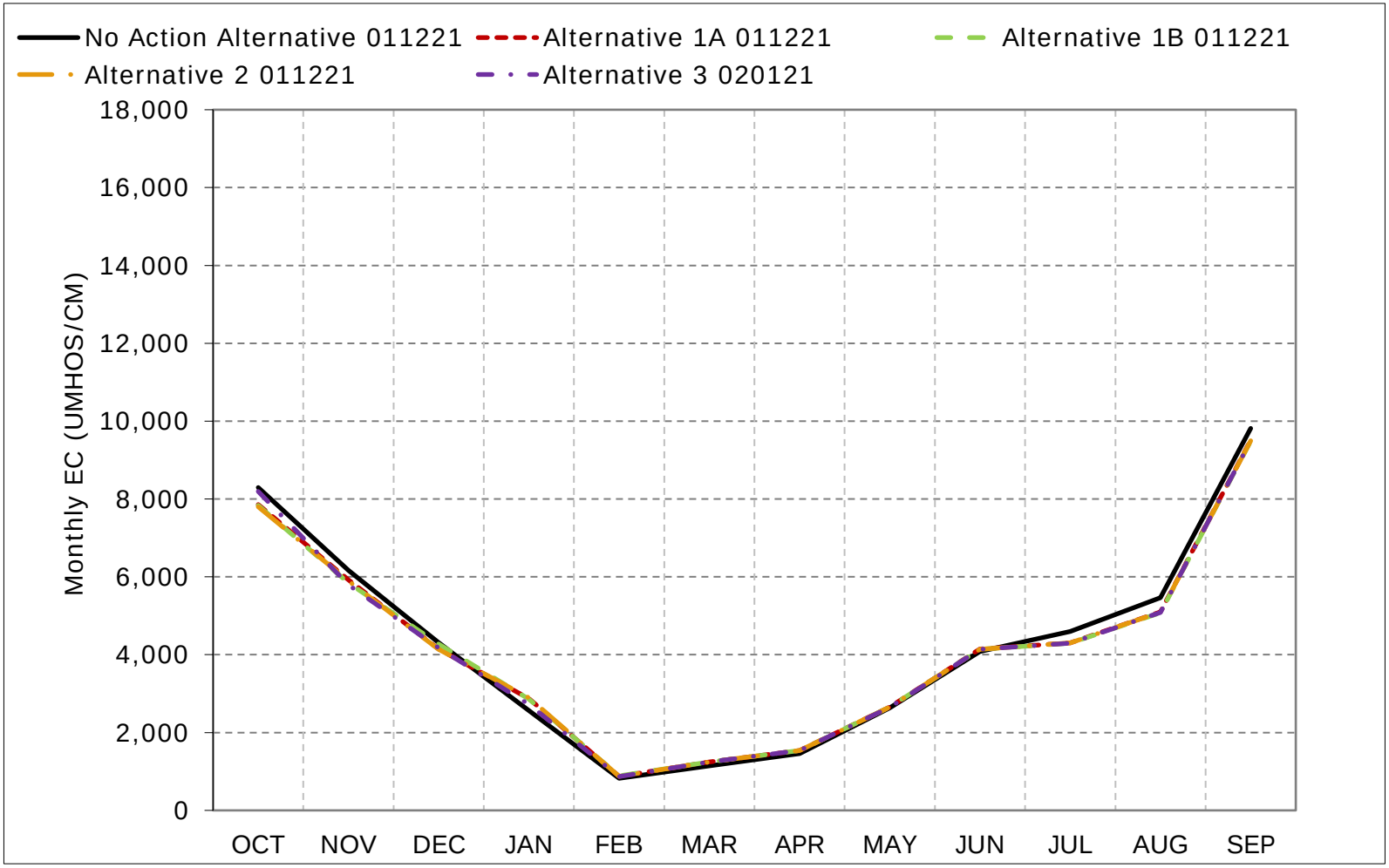


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-4. Montezuma Slough at Beldons Landing, Below Normal Year Average EC

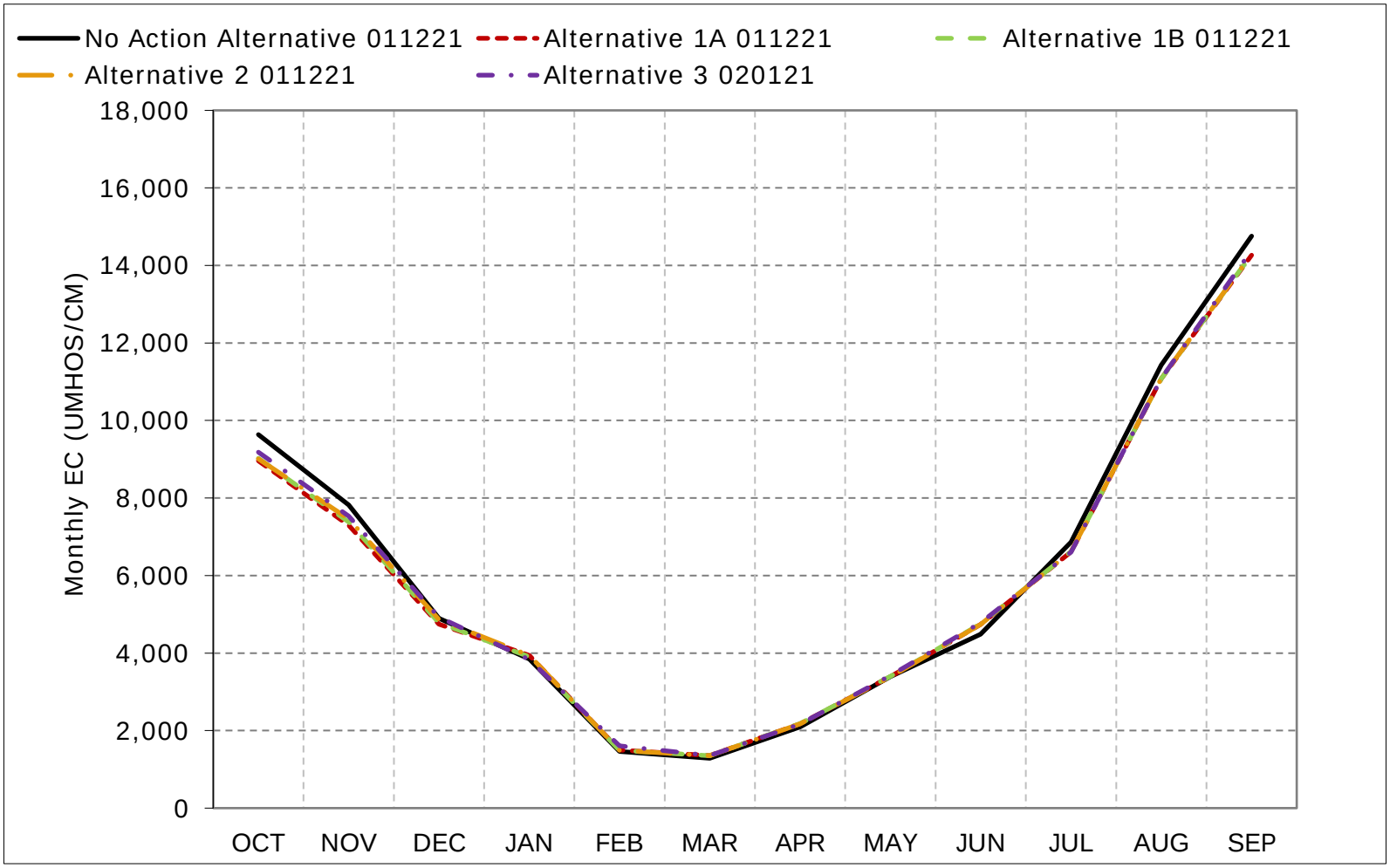


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-5. Montezuma Slough at Beldons Landing, Dry Year Average EC

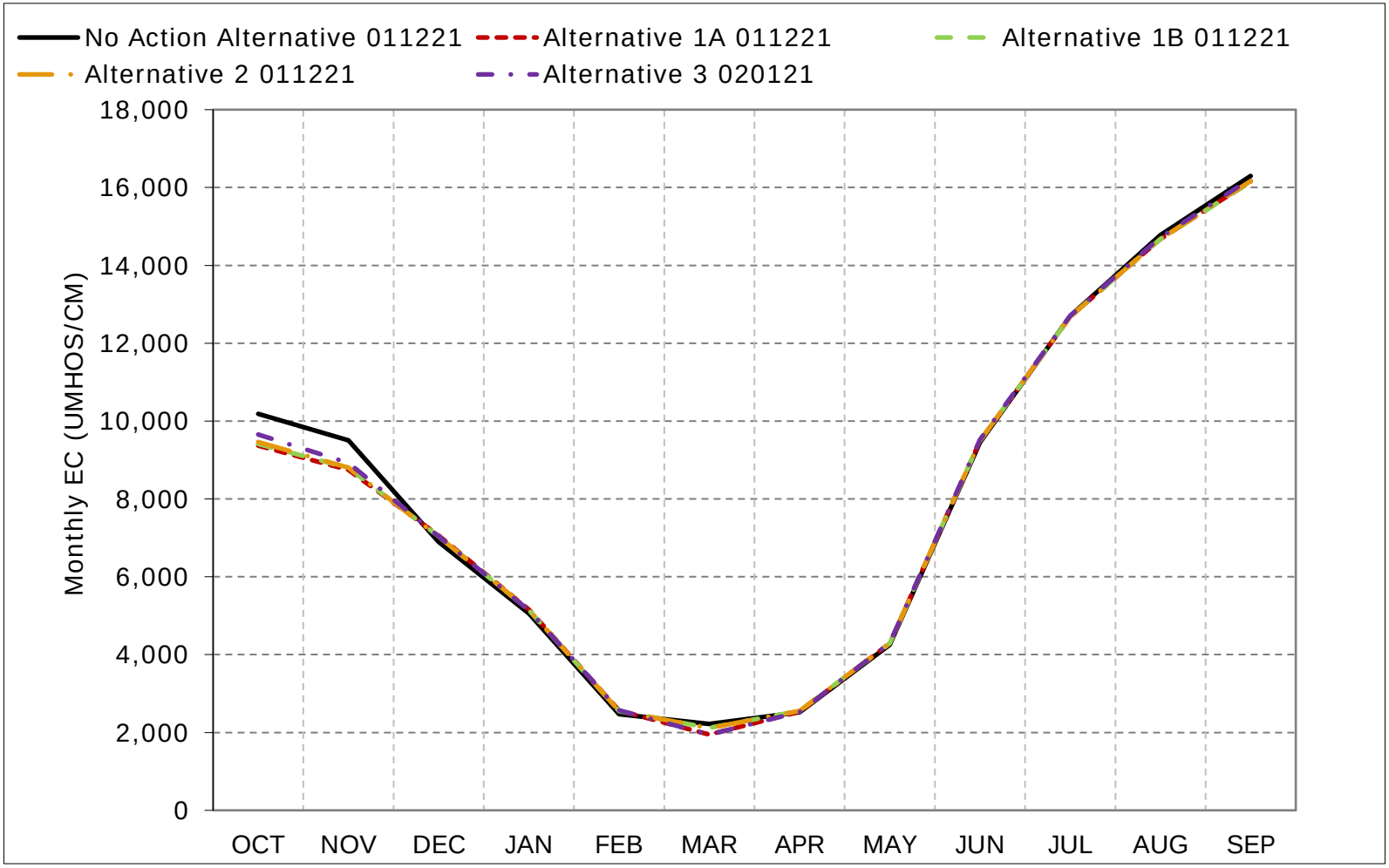


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-6. Montezuma Slough at Beldons Landing, Critical Year Average EC

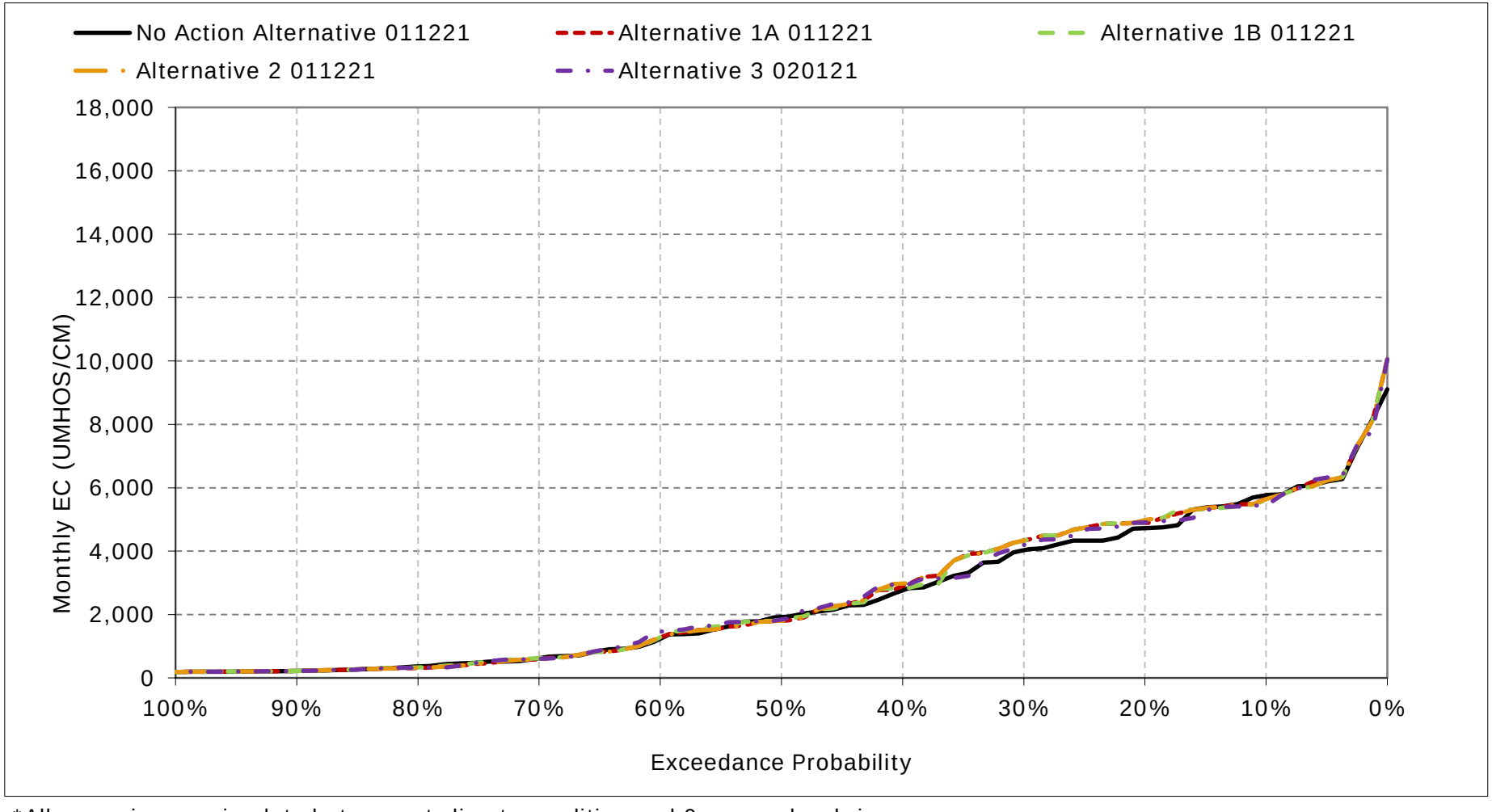


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

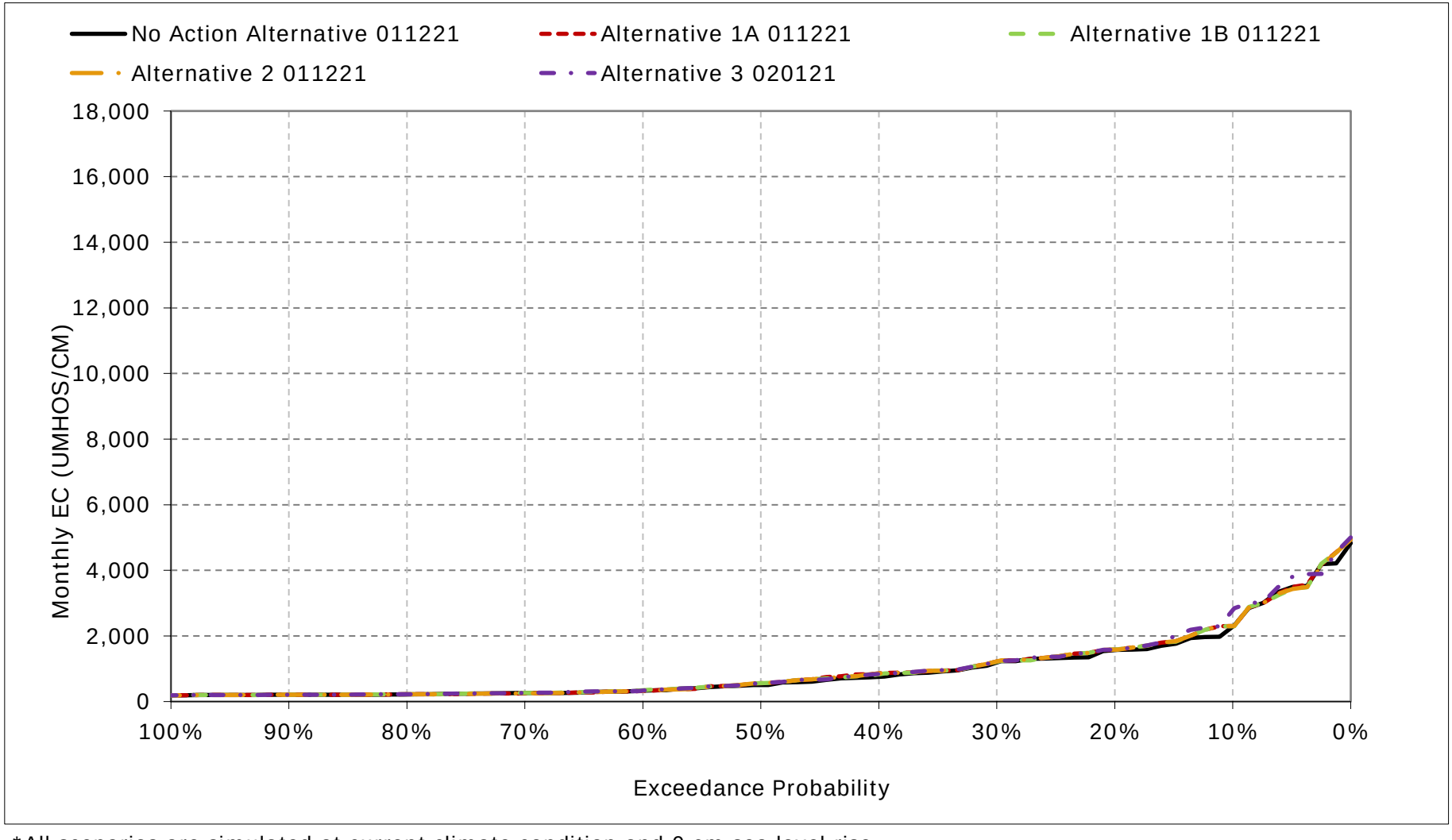
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-7. Montezuma Slough at Beldons Landing, January EC



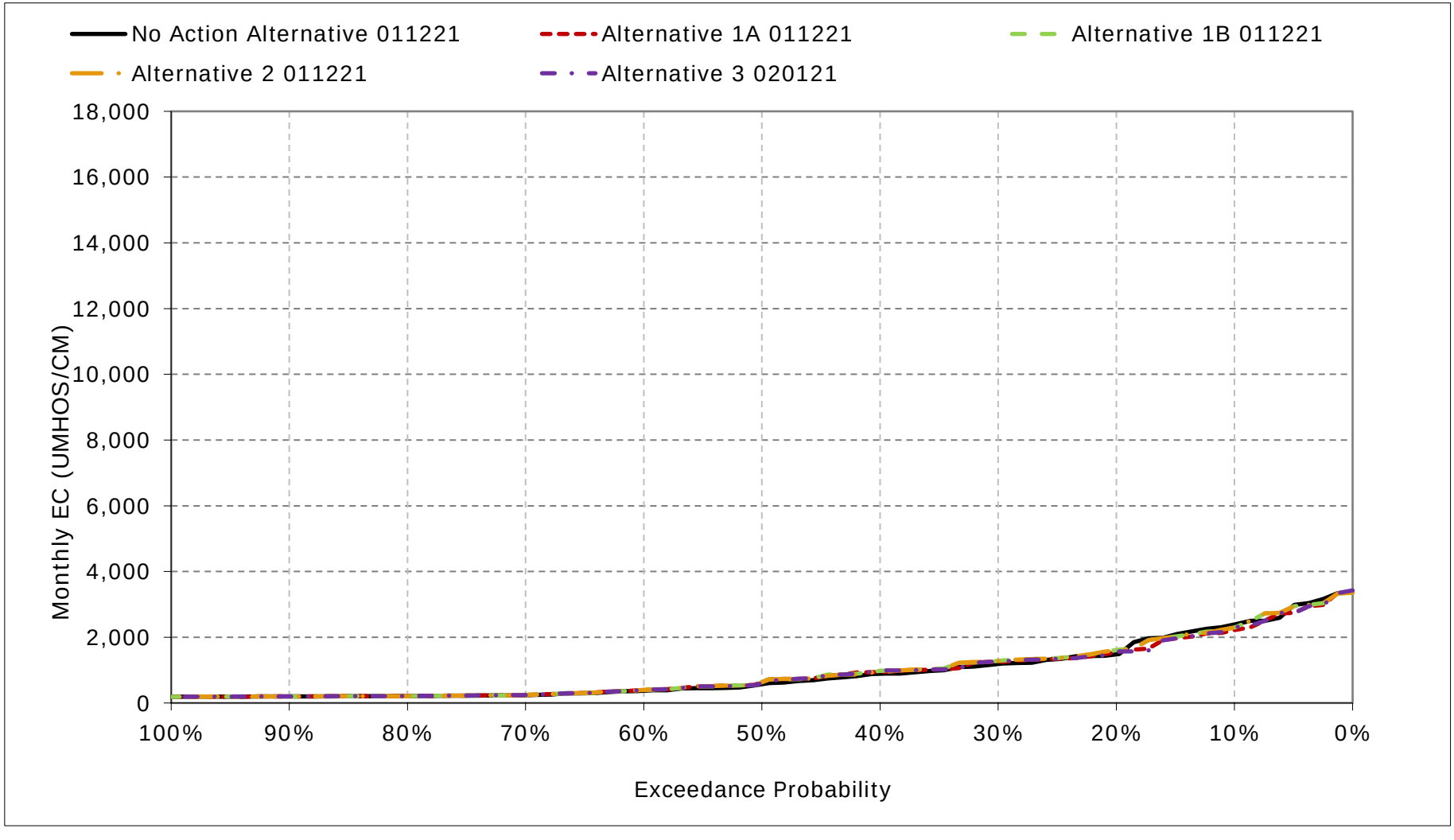
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-8. Montezuma Slough at Beldons Landing, February EC



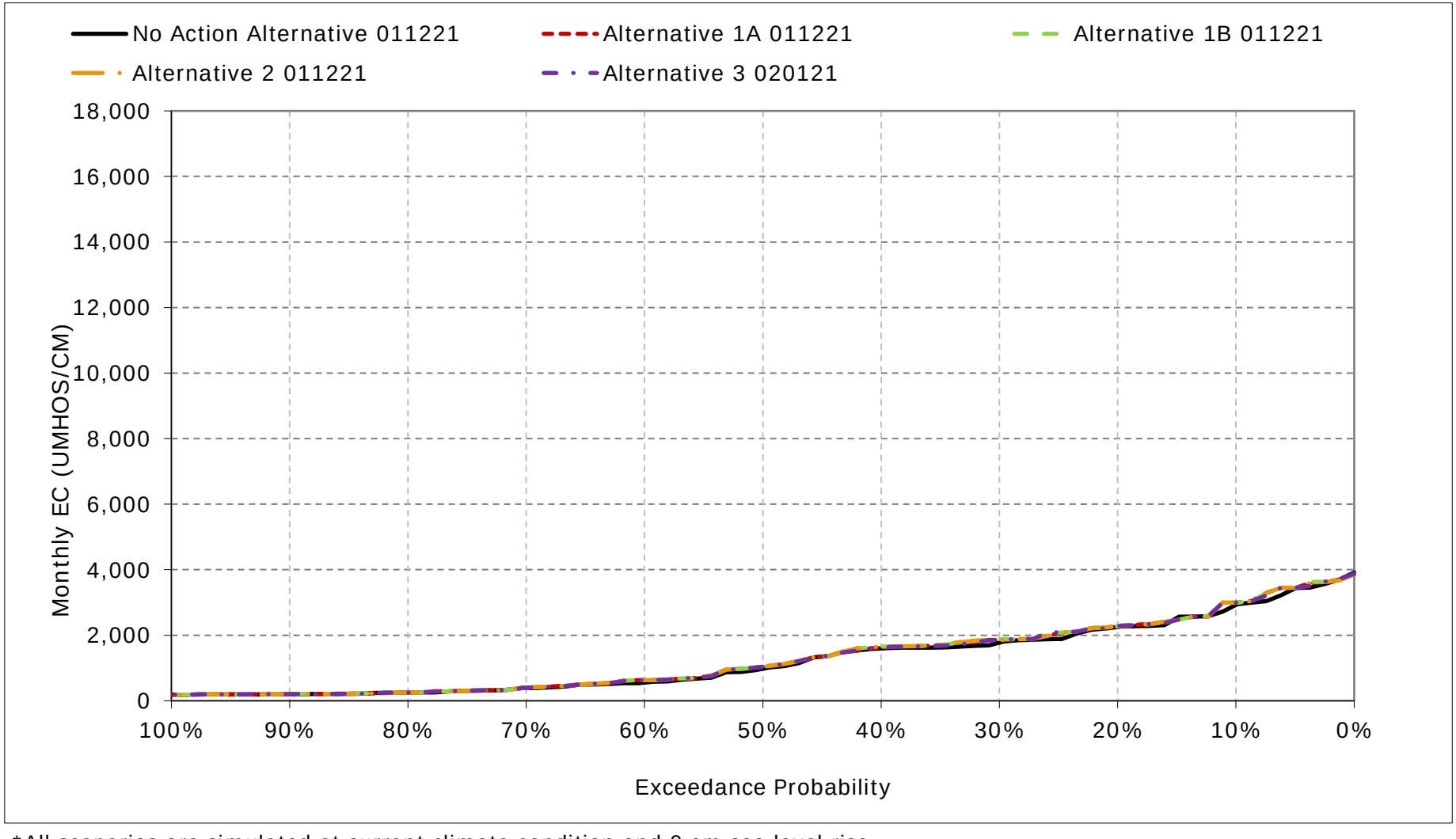
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-9. Montezuma Slough at Beldons Landing, March EC



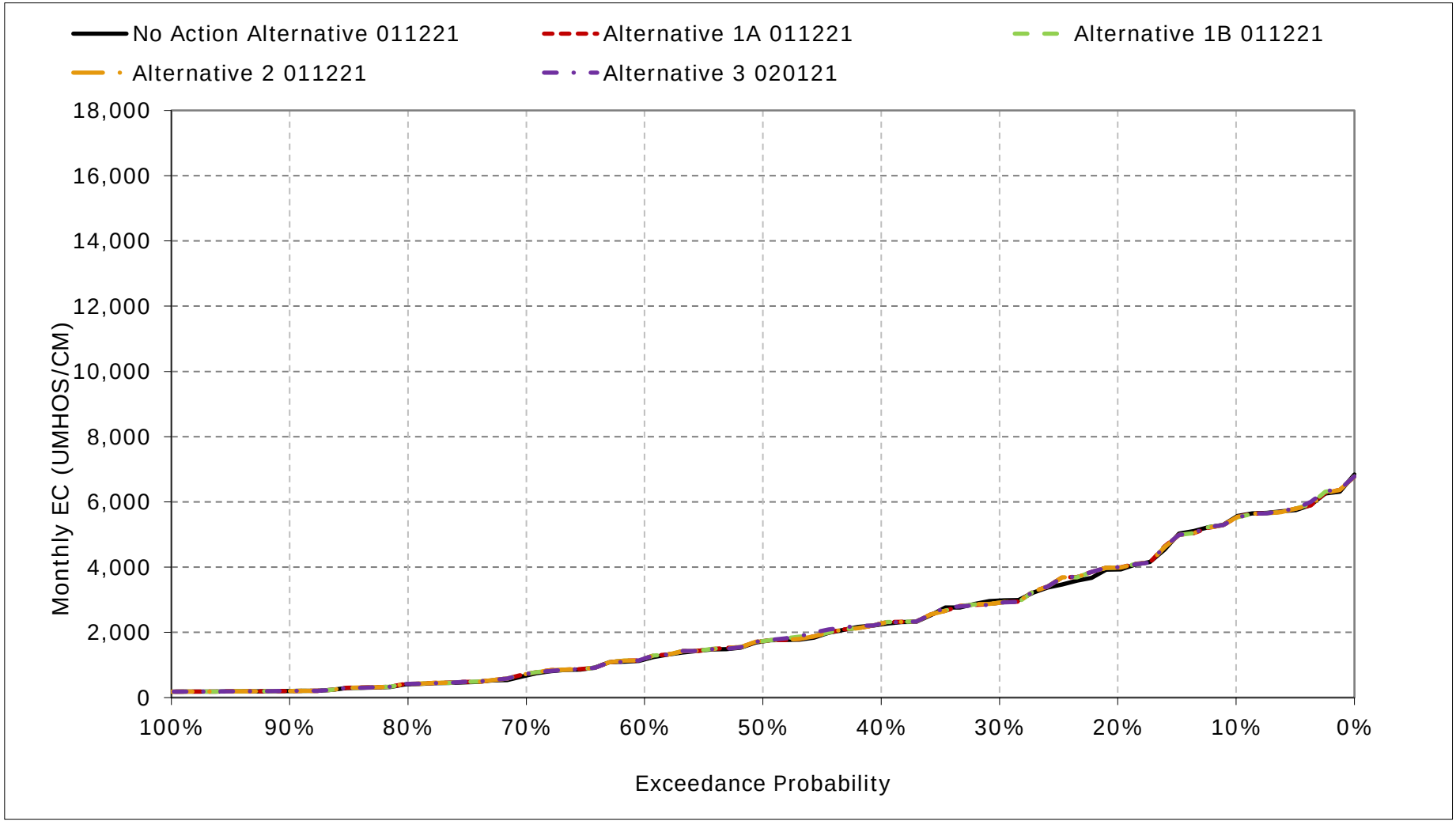
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-10. Montezuma Slough at Beldons Landing, April EC



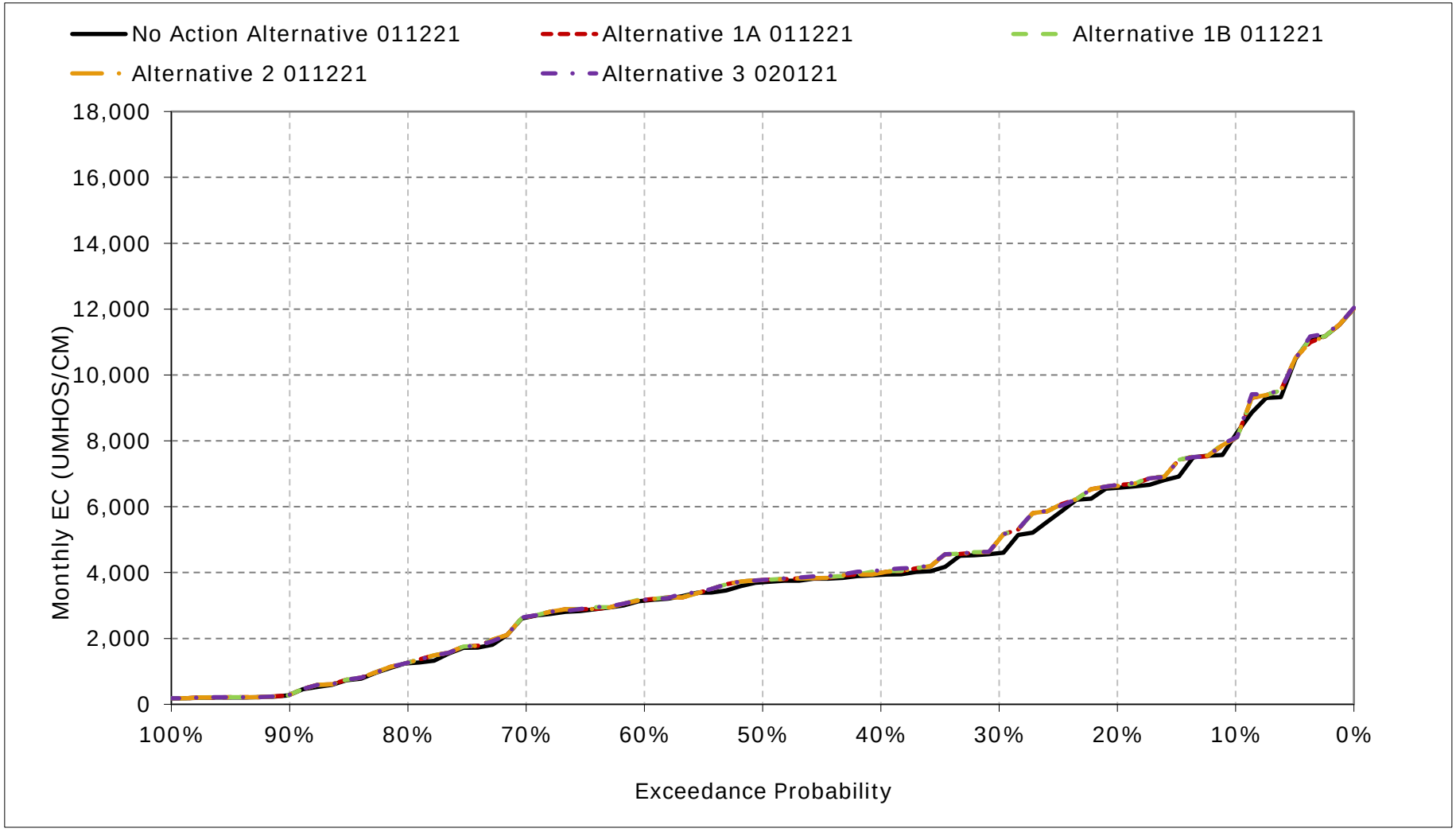
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-11. Montezuma Slough at Beldons Landing, May EC



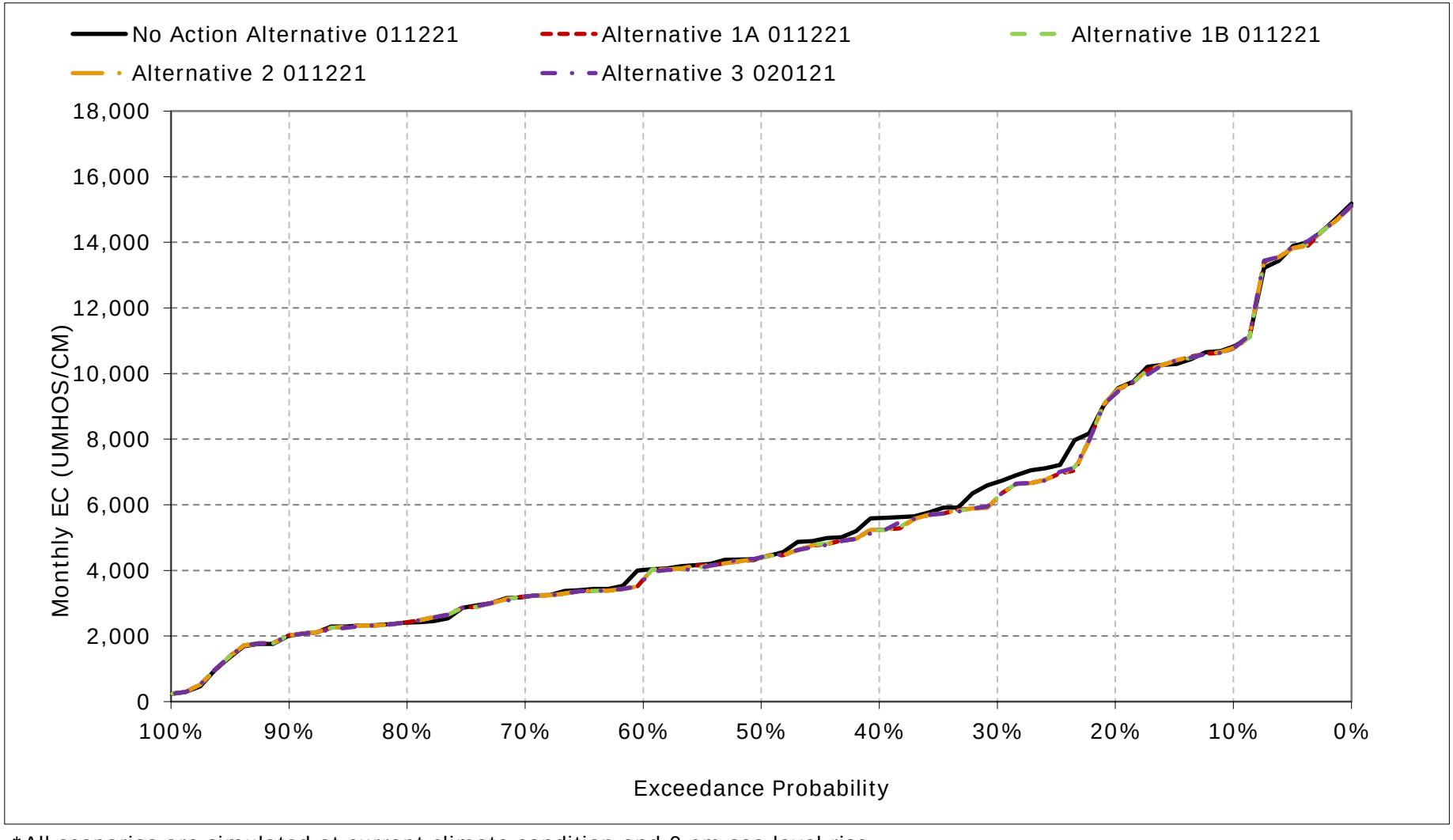
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-12. Montezuma Slough at Beldons Landing, June EC



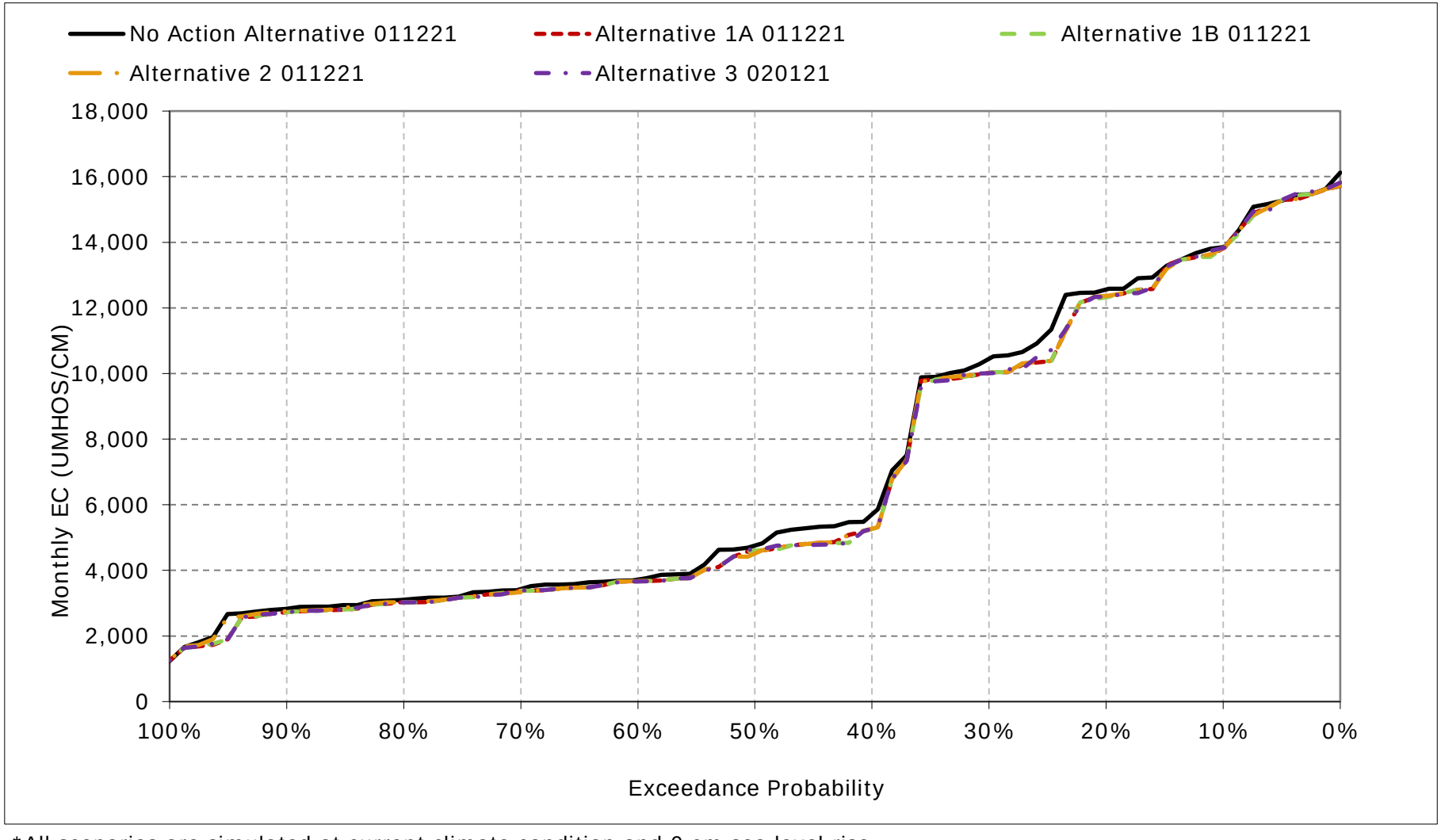
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-13. Montezuma Slough at Beldons Landing, July EC



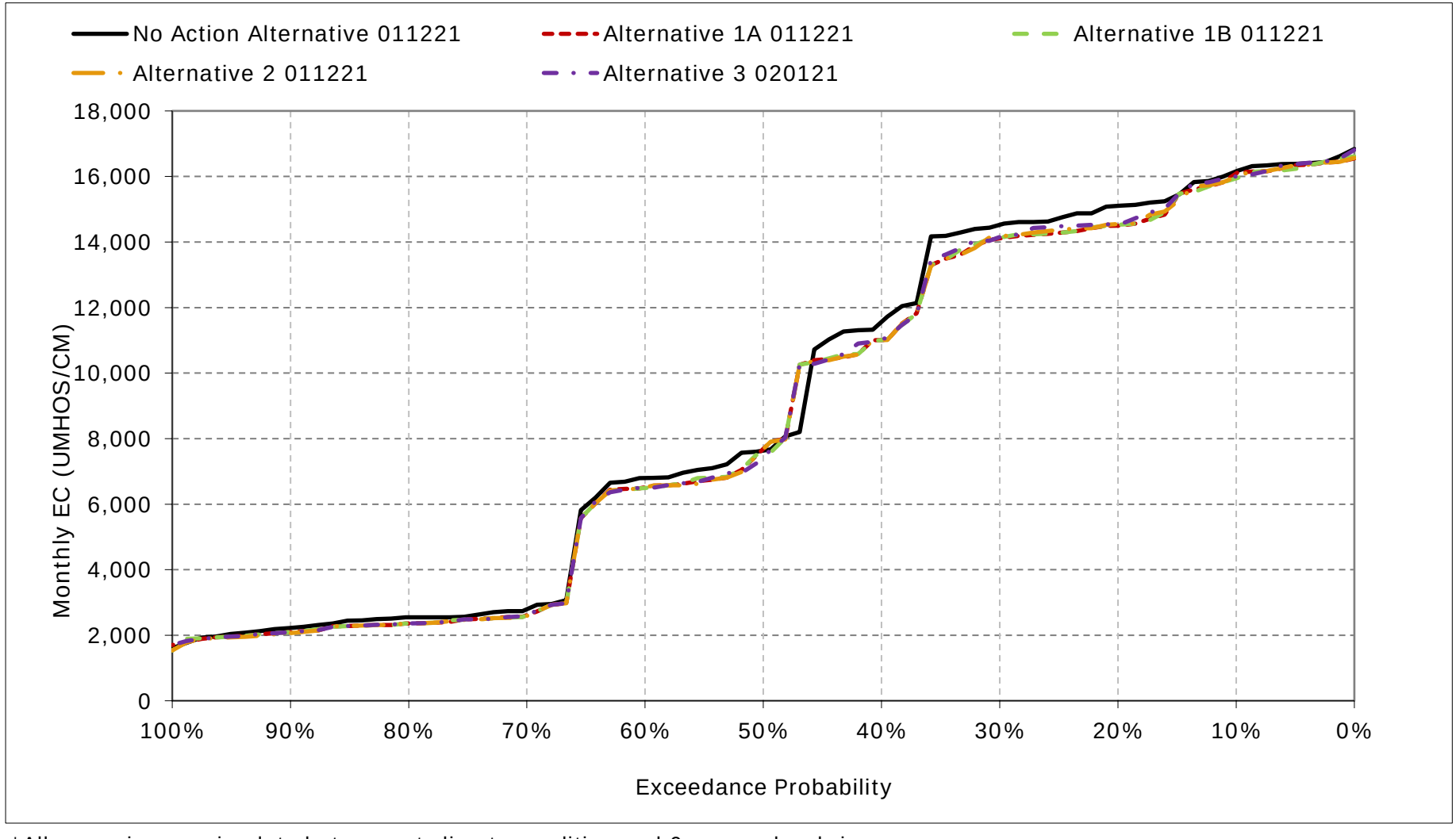
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-14. Montezuma Slough at Beldons Landing, August EC



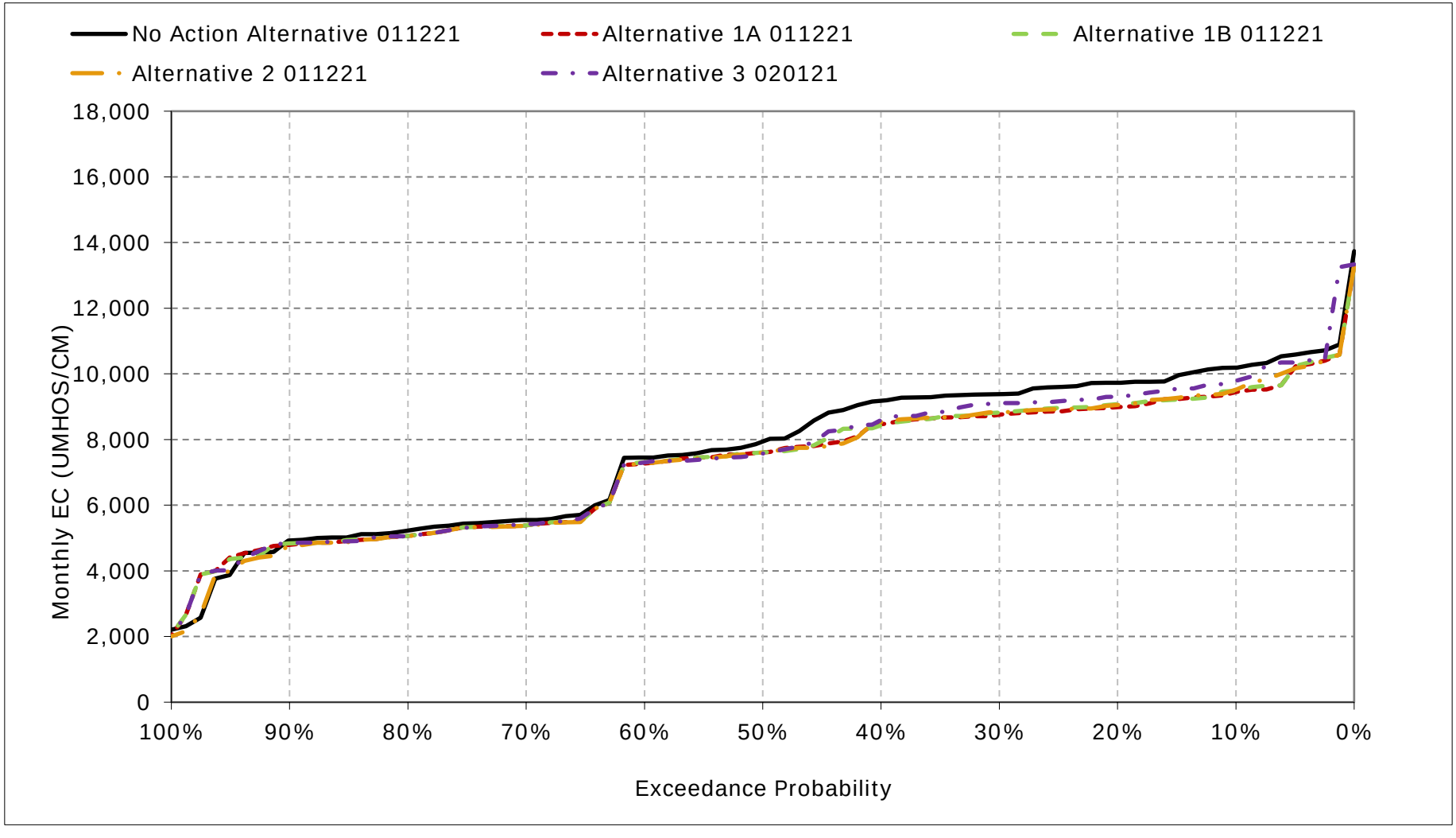
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-15. Montezuma Slough at Beldons Landing, September EC



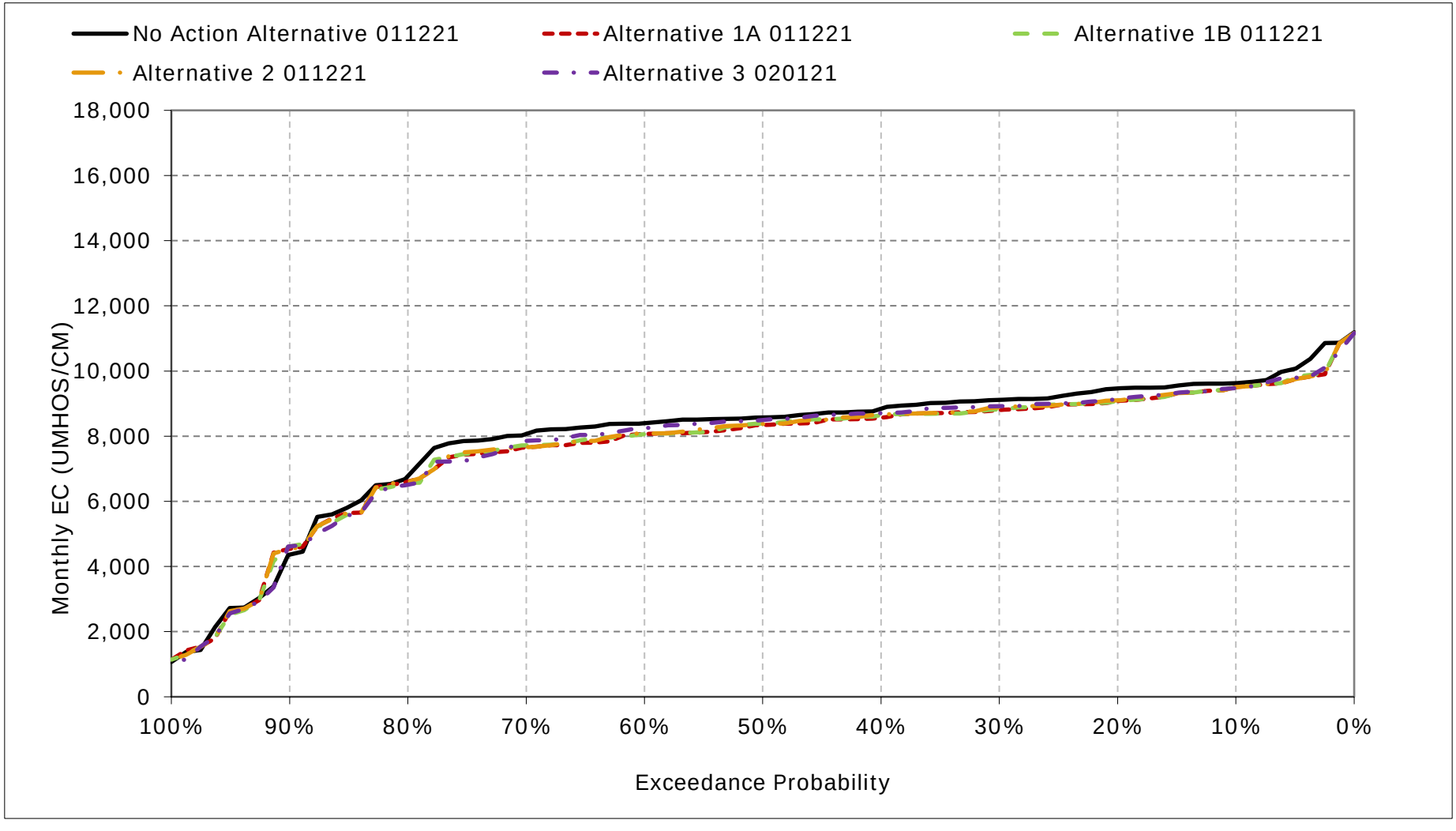
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-16. Montezuma Slough at Beldons Landing, October EC



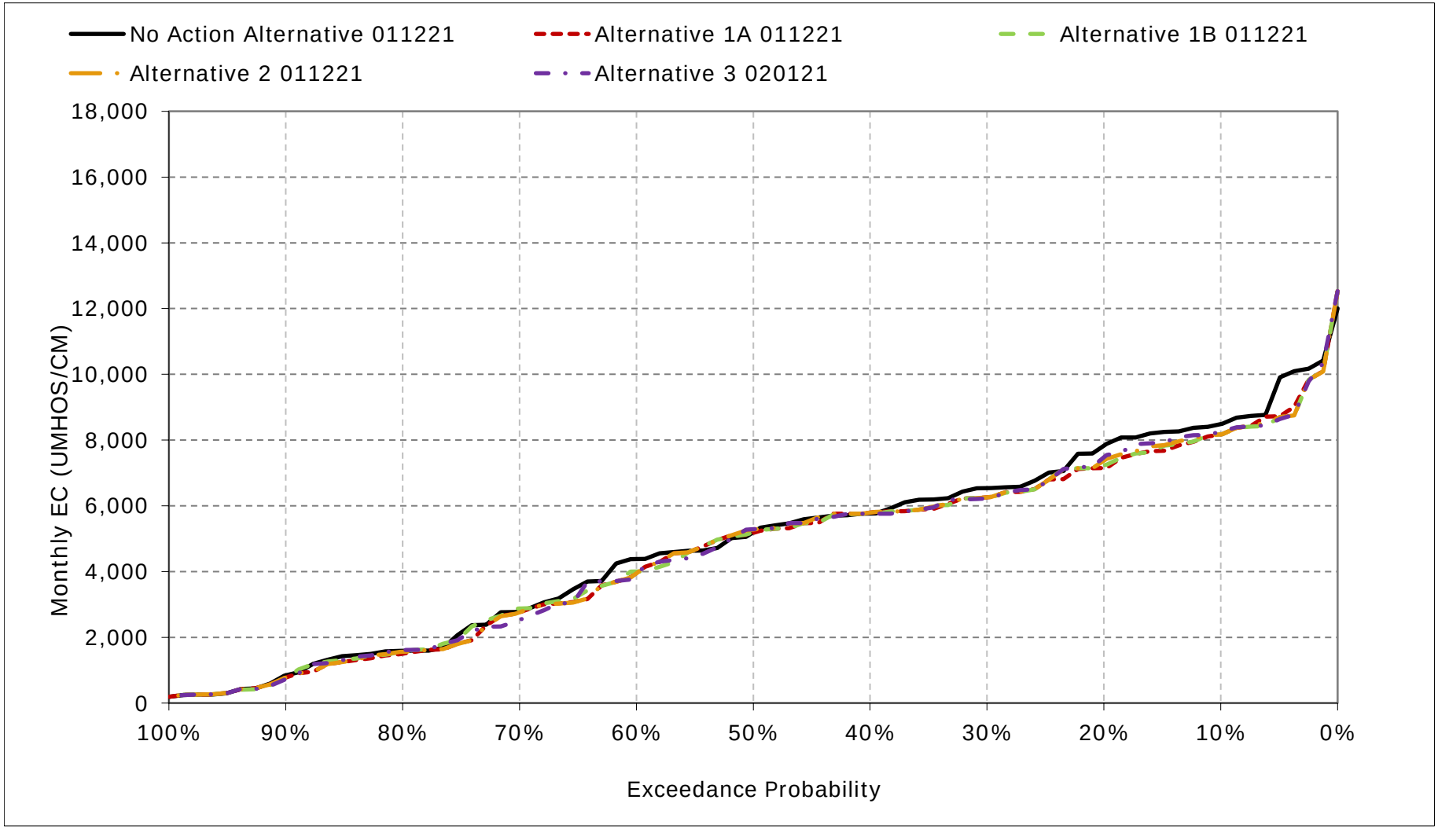
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-17. Montezuma Slough at Beldons Landing, November EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B1-20-18. Montezuma Slough at Beldons Landing, December EC



*All scenarios are simulated at current climate condition and 0 cm sea level rise.