RECLAMATION
Managing Water in the West

U.S. Department of the Interior
Bureau of Reclamation

Water Quality Data from the Intake

Summary of Percentiles by WEEK of YEAR (_ww)
Water Quality Multiprobe located in Intake Channel of the Tracy Fish Collection Facility, Tracy, California 37°48'54" N 121°33'30" W

Summaries Based on Period of Record April 1, 2000, through February 15, 2007 <> Measurements at 30-min limits <> 2,512 days, 120,552 observations

Bureau of Reclamation Validated Water Quality Data <> Contact: Doug Craft dcraft@do.usbr.gov 303-445-2182 <> TRACY FISH FACILITY IMPROVEMENT PROGRAM

Key to Variable Names: VARIABLE_PERCENTILE_SUMMARY - To export this data table to Microsoft Excel: 1. From this browser: File -> Save As -> "your file name.htm" 2. From Excel: Data -> Import External Data -> Import Data -> "your file name.htm"

Variables	T_	Channel Water Temperature(T), measured in Degrees Celsius, °C
	EC_	Electrical Conductivity (EC), measured in microSiemens per centimeter, µS/cm
	DOpct_	Percent Dissolved Oxygen Saturation in Water (DOpct), measured in percent, %
	DO_	Dissolved Oxygen (DO), measured in milligrams per liter, mg/L
	pH_	Hydrogen Ion Activity in Water (pH), measured in standard units, s.u.
	Eh_	Oxidation-Reduction Potential, Redox, (Eh), measured in millivolts, mV
	Turbidity_	Turbidity, measured in Nephelometric Turbidity Units, NTU <> Turbidity values > 195 NTU are beyond probe calibration range, Lower Detection Limit ~ 1 NTU
Percentiles	_05th_	5th Percentile - approximates the lower 95% confidence limit
	_16th_	16th Percentile - approximates the lower 68% confidence limit
	Median	50th Percentile - approximates the mean or average
	_84th_	84th Percentile - approximates the upper 68% confidence limit
	_95th_	95th Percentile - approximates the upper 95% confidence limit
Variable Summary Suffixes	_dyr	Summary by Day of Year
	_ww	Summary by Week of Year
	_mm	Summary by Month of Year
	_sd	Summary by continuous STUDY DAY (since April 1, 2000)
	_sw	Summary by continuous STUDY WEEK (since April 1, 2000)
	_sm	Summary by continuous STUDY MONTH (since April 1, 2000)

Week of Year	Begin_ Date	T_ 05th_ ww	T_ 16th_ ww	T_ Median_ ww	T_ 84th_ ww	T_ 95th_ ww	EC_ 05th_ ww	EC_ 16th_ ww	EC_ Median_ ww	EC_ 84th_ ww	EC_ 95th_ ww	DOpct_ 05th_ ww	DOpct_ 16th_ ww	DOpct_ Median_ ww	DOpct_ 84th_ ww	DOpct_ 95th_ ww	DO_ 05th_ ww	DO_ 16th_ ww	DO_ Median_ ww	DO_ 84th_ ww	DO_ 95th_ ww	pH_ 05th_ ww	pH_ 16th_ ww	pH_ Median_ ww	pH_ 84th_ ww	pH_ 95th_ ww	Eh_ 05th_ ww	Eh_ 16th_ ww	Eh_ Median_ ww	Eh_ 84th_ ww	Eh_ 95th_ ww	Tur-bidity_ 05th_ww	Tur-bidity_ 16th_ww	Tur-bidity_ Me-dian_ ww	Tur-bidity_ 84th_ww	Tur-bidity_ 95th_ww
1	1-Jan	7.9	8.2	9.4	11.0	11.5	197	353	469	581	671	64.6	69.4	77.1	87.5	91.9	6.83	7.55	8.58	10.09	10.84	6.99	7.09	7.31	7.51	7.72	271	291	342	468	477	2.8	4.5	12.0	23.8	40.2
2	8-Jan	7.0	8.3	10.0	10.9	11.4	188	267	426	631	799	54.9	60.7	69.1	89.8	111.7	6.09	6.76	7.70	10.46	11.08	6.95	7.00	7.15	7.52	7.63	236	255	290	406	466	2.4	3.0	11.6	26.3	57.8
3	15-Jan	5.8	7.3	9.1	10.3	10.7	200	253	350	600	765	54.2	58.9	69.7	88.5	92.8	6.20	6.66	7.76	10.92	11.19	7.04	7.07	7.33	7.60	7.64	261	269	295	507	534	1.5	3.0	16.1	57.9	125.6
4	22-Jan	6.8	7.9	8.7	9.9	10.4	214	246	345	627	866	50.5	58.5	79.0	87.4	90.1	5.80	6.71	9.13	10.34	10.90	7.11	7.16	7.36	7.67	7.94	166	186	297	508	534	0.9	1.2	15.0	24.0	36.4
5	29-Jan	7.9	8.2	9.8	11.4	12.1	248	264	377	572	872	49.5	66.4	80.1	88.3	90.2	5.60	7.53	8.95	10.30	10.67	6.96	7.16	7.25	7.43	7.81	174	242	295	381	568	0.9	2.5	9.7	22.5	31.7
6	5-Feb	8.4	9.2	10.4	11.5	12.0	212	258	370	473	871	46.0	71.0	82.9	88.3	90.6	5.08	7.85	9.18	10.10	10.40	7.08	7.15	7.22	7.37	7.42	200	239	308	418	554	0.8	1.5	7.0	25.3	32.7
7	12-Feb	8.6	9.8	11.3	12.6	13.2	235	251	330	445	710	56.6	60.4	81.0	88.5	91.4	6.20	6.56	8.74	9.97	10.46	7.19	7.23	7.33	7.68	8.09	207	241	329	402	409	1.2	2.3	6.2	24.0	33.4
8	19-Feb	9.9	10.8	12.1	13.4	13.7	226	241	349	496	791	48.3	54.7	81.3	85.9	88.7	5.06	5.78	8.83	9.46	9.81	7.04	7.14	7.22	7.32	7.34	199	235	298	380	559	1.6	3.0	6.6	24.9	32.1
9	26-Feb	10.9	11.8	12.5	13.9	14.3	207	306	349	455	848	51.5	56.1	83.4	87.7	89.6	5.47	5.96	8.98	9.44	9.69	7.14	7.24	7.35	7.46	7.59	218	252	365	467	510	0.1	2.2	8.5	29.7	41.0
10	5-Mar	11.1	11.6	13.4	14.9	16.2	221	251	417	621	928	49.9	59.5	82.5	88.1	90.6	5.13	6.11	8.72	9.34	9.62	7.07	7.22	7.34	7.51	7.82	196	250	304	480	565	0.1	1.8	9.9	27.2	39.8
11	12-Mar	11.0	11.7	14.9	16.6	17.3	223	227	466	712	868	53.9	62.0	79.4	89.5	92.9	5.24	6.13	8.34	9.19	9.74	6.94	7.28	7.41	8.22	8.39	232	267	322	507	536	1.3	2.1	9.7	24.2	30.9
12	19-Mar	11.6	12.4	14.5	17.3	18.6	226	237	478	911	1092	65.2	72.0	80.3	96.8	101.1	6.62	7.30	7.98	9.88	10.75	6.98	7.19	7.43	7.93	8.03	240	274	343	486	541	1.6	2.0	7.0	27.3	39.2
13	26-Mar	12.5	13.2	15.8	17.7	18.5	225	250	299	747	931	63.1	70.5	80.9	99.3	106.3	6.39	7.14	8.11	9.77	10.24	7.11	7.19	7.38	7.90	8.10	192	270	334	517	550	1.7	4.0	11.8	31.3	47.4
14	1-Apr	13.0	13.9	15.8	17.4	18.1	210	214	276	463	766	61.5	69.2	80.5	98.7	105.4	6.23	7.10	8.11	9.49	10.03	7.01	7.11	7.48	8.08	8.43	150	194	331	502	553	3.2	5.8	11.3	33.5	46.4
15	8-Apr	14.2	14.5	16.8	18.5	19.1	192	210	282	433	681	38.3	50.7	82.7	96.6	101.4	3.76	4.97	8.09	9.26	9.75	6.89	7.20	7.50	8.09	8.48	158	207	332	478	515	4.8	5.9	12.0	32.5	43.5
16	15-Apr	14.9	15.4	16.5	17.4	18.1	195	234	288	430	633	29.6	49.6	76.7	90.0	94.2	2.98	4.88	7.53	8.74	9.13	7.15	7.19	7.56	7.80	8.08	245	256	321	416	503	2.9	6.1	12.5	26.3	33.1
17	22-Apr	15.5	15.9	17.3	18.7	20.2	150	273	334	433	516	48.4	65.8	78.6	88.0	92.9	4.67	6.36	7.47	8.43	8.82	7.14	7.23	7.55	7.76	7.86	244	255	338	394	435	2.4	6.2	13.4	28.3	34.0
18	29-Apr	16.6	17.3	18.7	20.2	21.6	139	144	345	412	474	52.4	59.4	74.2	85.0	89.0	4.88	5.44	6.89	8.00	8.49	7.00	7.07	7.54	7.72	7.79	228	257	308	421	533	3.1	3.7	20.8	36.5	45.6
19	6-May	16.2	17.1	18.3	21.1	22.4	137	260	348	428	473	51.7	56.4	69.7	77.8	82.6	4.79	5.23	6.49	7.34	7.79	6.93	7.22	7.42	7.60	7.74	206	254	318	506	549	3.9	5.8	19.7	35.0	43.6
20	13-May	17.4	18.1	19.5	20.9	22.2	128	238	346	381	426	50.0	54.3	66.4	75.2	82.0	4.54	4.98	6.09	7.09	7.69	6.90	7.13	7.48	7.66	7.80	247	296	354	496	531	3.6	5.6	16.3	28.1	37.9
21	20-May	17.5	18.1	20.2	23.3	24.2	124	159	354	476	537	51.8	62.1	74.8	87.0	93.2	4.67	5.59	6.66	7.86	8.35	7.10	7.17	7.36	7.56	7.83	208	265	383	519	562	3.6	5.7	13.0	24.1	33.2
22	27-May	18.1	19.0	21.6	23.4	24.1	128	145	363	560	664	60.2	68.2	79.5	88.5	97.0	5.38	6.07	7.06	7.86	8.49	7.15	7.21	7.33	7.58	7.90	227	274	372	456	542	4.1	5.9	18.9	41.7	71.5
23	3-Jun	18.7	19.9	21.8	22.8	23.6	138	145	246	422	525	49.8	62.3	78.8	90.0	100.8	4.31	5.39	6.93	7.89	8.85	6.93	7.05	7.28	7.72	7.95	260	276	367	403	423	2.9	4.5	26.3	44.3	59.5
24	10-Jun	19.4	20.2	21.6	22.9	24.4	135	144	255	362	487	44.7	60.3	80.6	93.1	97.6	4.02	5.46	6.96	8.19	8.61	6.88	7.17	7.37	7.69	7.79	252	269	381	450	538	3.8	5.6	26.1	51.2	109.6
25	17-Jun	19.5	21.1	22.5	24.7	25.6	148	159	285	347	485	50.1	66.8	81.3	94.4	100.1	4.41	5.72	6.84	8.35	8.97	6.79	7.23	7.50	7.78	7.85	253	274	405	468	560	4.8	7.3	25.9	52.2	88.0
26	24-Jun	21.0	22.1	23.5	24.7	25.2	132	142	260	342	406	67.1	70.6	80.1	90.8	101.4	5.67	6.00	6.76	7.74	8.94	6.88	6.96	7.47	7.78	7.88	237	286	410	478	565	7.0	8.2	23.9	36.6	46.7
27	1-Jul	21.9	22.9	24.1	25.7	26.2	163	173	237	287	336	62.0	70.5	83.1	91.8	102.2	5.28	5.99	6.89	7.70	8.88	6.83	6.91	7.42	7.62	7.70	247	335	459	513	546	7.9	11.6	22.2	39.8	58.1
28	8-Jul	22.6	23.5	24.6	25.7	26.2	153	174	226	309	351	63.7	72.2	82.1	92.0	96.1	5.25	5.97	6.79	7.73	8.05	6.88	7.04	7.43	7.67	7.89	306	320	454	508	556	6.9	10.2	18.0	32.5	43.3
29	15-Jul	22.5	22.9	25.1	26.4	27.0	146	196	247	322	414	55.1	68.7	81.7	88.9	93.3	4.41	5.60	6.75	7.56	7.96	6.85	7.06	7.45	7.89	8.13	238	333	476	527	551	4.8	7.7	16.8	27.3	37.6
30	22-Jul	23.3	23.8	24.9	26.9	28.4	188	204	269	368	423	52.4	63.5	80.3	90.5	95.2	4.19	5.06	6.71	7.55	7.91	6.82	7.19	7.56	7.79	7.92	264	324	462	517	561	5.6	7.5	18.3	31.7	42.1
31	29-Jul	23.0	23.5	24.4	25.8	26.3	217	231	290	403	448	51.1	63.6	84.0	93.4	96.9	4.19	5.29	7.02	7.84	8.14	7.16	7.35	7.52	8.09	8.22	241	312	409	529	568	3.6	6.8	16.7	36.7	47.4
32	5-Aug	23.0	23.5	24.3	25.2	25.8	199	236	290	399	444	56.6	67.3	79.7	89.8	94.3	4.69	5.66	6.64	7.50	7.91	7.21	7.37	7.66	8.10	8.19	216	242	427	492	570	5.4	8.8	18.1	43.8	60.7
33	12-Aug	23.1	23.5	24.2	24.8	25.1	235	254	298	464	520	51.6	57.7	83.7	91.4	95.3	4.33	4.86	7.02	7.63	7.93	7.11	7.27	7.63	8.08	8.17	258	280	431	486	559	3.2	5.0	13.0	26.5	54.5
34	19-Aug	22.5	22.9	23.6	24.2	24.7	249	268	340	491	528	62.4	76.6	85.4	91.2	94.1	5.32	6.46	7.25	7.82	8.13	7.14	7.31	7.66	7.95	8.15	245	298	421	536	565	3.9	6.8	13.9	23.0	32.6
35	26-Aug	22.0	23.1	23.7	24.3	24.6	276	287	342	482	513	59.8	72.7	89.0	95.3	102.2	5.08	6.14	7.58	8.06	8.73	6.98	7.14	7.61	8.00	8.25	255	287	396	511	557	2.3	6.1	14.2	33.7	53.0
36	2-Sep	20.7	21.5	22.9	23.8	24.3	258	278	360	519	569	51.7	63.1	87.0	95.1	119.3	4.49	5.41	7.43	8.18	10.64	7.07	7.20	7.67	7.95	8.06	156	209	355	505	566	3.8	6.4	13.1	36.2	50.7
37	9-Sep	20.9	21.4	22.1	22.9	23.2	279	292	364	490	592	64.8	76.4	89.2	119.3	133.0	5.56	6.67	7.74	10.48	11.61	7.19	7.34	7.70	7.93	8.13	163	207	309	379	554	2.9	4.6	11.6	39.4	49.4
38	16-Sep	20.1	20.8	22.1	22.9	23.4	276	294	367	536	565	64.4	75.1	87.4	98.7	106.8	5.68	6.67	7.60	8.63	9.36	7.09	7.16	7.60	7.93	8.04	213	230	291	436	548	2.1	3.1	10.1	27.6	38.9
39	23-Sep	18.9	20.2	21.1	22.5	23.1	269	281	384	572	615	68.1	75.7	88.4	95.3	101.0	6.27	6.93	7.76	8.51	9.05	7.08	7.12	7.48	7.91	7.98	222	228	370	444	464	1.4	2.3	10.8	27.8	52.3
40	30-Sep	18.7	19.3	20.8	21.6	22.0	316	344	477	528	544	64.1	73.8	86.8	96.9	104.8	5.72	6.65	7.76	8.64	9.44	7.20	7.40	7.55	7.66	7.74	170	235	298	393	456	1.2	2.9	10.6	20.9	46.2
41	7-Oct	18.5	18.9	19.7	20.5	20.9	324	343	485	535	562	76.3	78.5	83.6	93.0	97.3	6.94	7.13	7.64	8.50	8.91	7.02	7.43	7.57	7.70	7.76	188	238	297	410	514	1.7	3.5	11.5	21.6	35.6
42	14-Oct	16.8	17.7	18.7	19.4	19.7	258	263	436	502	579	71.4	76.7	83.3	89.5	94.4	6.61	7.18	7.79	8.36	8.81	7.25	7.37	7.51	7.62	7.74	215	230	264	333	508	1.5	2.2	8.0	29.3	69.5
43	21-Oct	15.5	16.3	17.4	18.7	19.4	263	351	462	565	625	66.6	73.5	83.8	88.9	93.0	6.24	6.83	8.02	8.60	9.14	7.27	7.41	7.55	7.74	7.83	205	272	332	462	544	0.8	1.8	12.8	43.3	196.0
44	28-Oct	14.4	14.9	15.9	17.4	17.9	266	283	423	508	579	62.3	69.3	83.5	88.8	90.9	5.99	6.75	8.11	8.70	8.98	7.30	7.37	7.46	7.65	7.82	161	231	318	358	377	0.9	2.1	14.9	196.0	196.0

Week of Year	Begin_ Date	T_ 05th_ ww	T_ 16th_ ww	T_ Median_ ww	T_ 84th_ ww	T_ 95th_ ww	EC_ 05th_ ww	EC_ 16th_ ww	EC_ Median_ ww	EC_ 84th_ ww	EC_ 95th_ ww	DOpct_ 05th_ ww	DOpct_ 16th_ ww	DOpct_ Median_ ww	DOpct_ 84th_ ww	DOpct_ 95th_ ww	DO_ 05th_ ww	DO_ 16th_ ww	DO_ Median_ ww	DO_ 84th_ ww	DO_ 95th_ ww	pH_ 05th_ ww	pH_ 16th_ ww	pH_ Median_ ww	pH_ 84th_ ww	pH_ 95th_ ww	Eh_ 05th_ ww	Eh_ 16th_ ww	Eh_ Median_ ww	Eh_ 84th_ ww	Eh_ 95th_ ww	Tur-bidity_ 05th_ww	Tur-bidity_ 16th_ww	Tur-bidity_ Me-dian_ ww	Tur-bidity_ 84th_ww	Tur-bidity_ 95th_ww
45	4-Nov	13.8	14.3	15.0	16.2	16.7	249	309	400	495	520	64.4	71.4	79.0	88.0	90.7	6.56	7.20	7.98	8.72	9.60	7.31	7.34	7.46	7.58	7.84	234	258	336	468	548	1.0	2.0	10.0	83.3	196.0
46	11-Nov	11.8	13.6	14.4	15.1	15.9	321	404	476	557	682	67.9	72.6	80.9	88.7	94.9	6.97	7.49	8.31	9.45	9.93	7.30	7.39	7.53	7.62	7.69	261	289	358	436	511	0.1	4.0	11.3	44.0	196.0
47	18-Nov	10.9	11.5	13.6	14.4	15.4	360	431	496	602	744	70.4	75.7	81.9	87.0	93.0	7.29	7.95	8.60	9.50	9.89	7.34	7.42	7.52	7.65	7.73	232	287	307	436	463	3.2	5.9	10.9	26.8	54.9
48	25-Nov	9.8	10.3	11.2	12.4	13.0	374	442	533	695	833	57.5	60.9	85.4	90.1	94.9	6.36	8.58	9.39	9.92	10.20	7.16	7.40	7.57	7.71	7.84	204	219	280	464	522	1.0	5.2	9.8	19.0	29.8
49	2-Dec	9.3	9.8	10.4	11.4	11.9	402	428	513	679	753	75.0	82.0	87.7	92.4	93.9	8.68	9.24	9.76	10.31	10.54	7.18	7.33	7.55	7.83	7.88	241	286	369	459	565	0.9	1.2	8.5	25.7	42.9
50	9-Dec	9.5	9.8	10.5	11.2	11.5	402	415	519	626	769	62.4	72.6	84.9	90.6	92.8	7.01	8.28	9.56	10.34	10.63	7.24	7.28	7.36	7.69	7.89	219	239	304	442	492	0.6	1.0	5.9	21.2	89.0
51	16-Dec	8.7	9.1	10.0	10.9	11.6	395	438	555	643	739	72.3	76.0	81.9	89.1	93.6	8.20	8.65	9.35	10.36	10.95	7.28	7.34	7.47	7.60	7.65	258	311	360	454	480	1.4	2.4	7.9	31.3	87.7
52	23-Dec	8.0	8.5	9.3	10.6	12.3	299	413	504	603	751	69.4	73.7	77.9	85.5	91.2	7.65	8.16	8.89	9.92	10.74	7.21	7.25	7.48	7.72	8.09	240	260	312	471	484	1.1	2.7	10.1	29.6	89.8