

# Water Quality Data from the Intake Channel of the TFCF, Byron, California

## Summary of Percentiles by MONTH of YEAR (\_mm)

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, [http://www.usbr.gov/pmts/tech\\_services/tracy\\_research/](http://www.usbr.gov/pmts/tech_services/tracy_research/)

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
	_25th_	25th Percentile – LOWER value on Interquartile Range
	_Median_	50th Percentile - approximates the mean or average
	_75th_	75th Percentile – UPPER value on Interquartile Range
	_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)

Month	Month_Num	T_05th_mm	T_16th_mm	T_25th_mm	T_Median_mm	T_75th_mm	T_84th_mm	T_95th_mm	EC_05th_mm	EC_16th_mm	EC_25th_mm	EC_Median_mm	EC_75th_mm	EC_84th_mm	EC_95th_mm	DOpct_05th_mm	DOpct_16th_mm	DOpct_25th_mm	DOpct_Median_mm	DOpct_75th_mm	DOpct_84th_mm	DO_95th_mm	DO_05th_mm	DO_16 th_mm	DO_25th_mm	DO_Median_mm	DO_75th_mm	DO_84th_mm	DO_95th_mm
Jan	1	6.7	8.0	8.3	9.4	10.3	10.7	11.4	198	257	286	437	539	596	794	53.4	61.4	65.6	74.3	85.4	88.2	92.7	6.05	6.87	7.33	8.30	9.91	10.39	11.04
Feb	2	8.4	9.5	10.1	11.2	12.2	12.7	13.5	222	263	289	348	445	463	806	50.6	59.9	69.1	81.5	86.0	87.9	90.5	5.36	6.48	7.60	8.86	9.56	9.89	10.40
Mar	3	11.2	12.1	12.7	14.0	15.7	16.6	17.7	223	248	292	390	524	692	956	53.9	63.8	71.1	81.1	87.3	90.1	99.4	5.47	6.47	7.23	8.36	9.15	9.43	10.07
Apr	4	13.9	14.9	15.5	16.6	17.8	18.3	19.2	188	215	248	291	368	442	643	41.1	63.3	69.5	79.5	88.5	92.2	101.2	4.04	6.11	6.80	7.79	8.61	8.99	9.70
May	5	16.9	17.8	18.2	19.3	21.1	21.9	23.5	129	152	274	348	400	445	541	51.4	58.7	63.6	71.2	79.5	83.0	89.4	4.71	5.37	5.83	6.52	7.33	7.66	8.17
Jun	6	19.3	20.6	21.2	22.2	23.3	24.0	24.9	134	146	158	268	340	377	502	50.8	67.2	72.2	80.2	87.5	91.7	99.1	4.47	5.80	6.23	6.88	7.62	8.05	8.81
Jul	7	22.6	23.3	23.7	24.6	25.6	26.1	26.9	156	186	205	246	305	330	407	57.3	68.3	74.2	81.8	88.3	91.1	97.0	4.64	5.61	6.12	6.80	7.41	7.66	8.19
Aug	8	22.8	23.2	23.5	24.0	24.5	24.9	25.7	225	248	268	315	403	447	507	54.8	66.9	74.4	84.5	90.2	92.3	96.2	4.59	5.64	6.24	7.11	7.60	7.79	8.12
Sep	9	20.2	20.8	21.3	22.2	23.0	23.3	24.0	268	288	301	367	490	534	582	59.5	74.9	80.6	88.0	93.5	97.4	119.2	5.13	6.65	7.04	7.63	8.11	8.54	10.49
Oct	10	15.5	16.8	17.4	18.8	19.8	20.5	21.3	263	341	370	462	507	529	594	66.4	75.3	78.7	84.0	88.5	90.9	97.2	6.16	7.00	7.28	7.81	8.37	8.55	9.06
Nov	11	10.6	11.8	12.9	14.3	15.1	15.7	16.5	296	376	401	463	528	564	718	62.9	72.9	76.1	81.9	86.4	88.6	92.5	6.62	7.43	7.77	8.38	9.07	9.44	9.92
Dec	12	8.5	9.1	9.4	10.1	10.8	11.2	11.9	395	422	467	522	591	633	756	69.0	74.9	77.0	81.7	87.8	90.1	93.0	7.73	8.46	8.78	9.37	10.01	10.28	10.69

Month	Month_Num	pH_05 <sup>th</sup> _mm	pH_16 <sup>th</sup> _mm	pH_25 <sup>th</sup> _mm	pH_Median_mm	pH_75 <sup>th</sup> _mm	pH_84 <sup>th</sup> _mm	pH_95 <sup>th</sup> _mm	Eh_05 <sup>th</sup> _mm	Eh_16 <sup>th</sup> _mm	Eh_25 <sup>th</sup> _mm	Eh_Median_mm	Eh_75 <sup>th</sup> _mm	Eh_84 <sup>th</sup> _mm	Eh_95 <sup>th</sup> _mm	Turbidity_05 <sup>th</sup> _mm	Turbidity_16 <sup>th</sup> _mm	Turbidity_25 <sup>th</sup> _mm	Turbidity_Median_mm	Turbidity_75 <sup>th</sup> _mm	Turbidity_84 <sup>th</sup> _mm	Turbidity_95 <sup>th</sup> _mm
Jan	1	6.99	7.08	7.13	7.32	7.49	7.58	7.76	194	256	268	310	366	421	530	1.3	3.1	4.2	13.1	21.1	25.5	69.2
Feb	2	7.07	7.17	7.20	7.25	7.34	7.40	7.65	201	240	256	309	381	404	554	1.0	2.3	3.5	7.4	19.3	24.8	33.2
Mar	3	7.03	7.23	7.29	7.39	7.50	7.71	8.13	216	262	273	330	441	488	546	1.1	2.0	2.7	9.2	21.9	27.7	40.3
Apr	4	7.07	7.21	7.27	7.54	7.76	7.85	8.22	178	249	258	333	400	457	526	3.2	5.9	7.3	12.5	25.7	30.1	39.7
May	5	6.96	7.19	7.28	7.42	7.56	7.65	7.79	223	260	282	347	437	493	548	3.6	5.5	7.3	16.0	27.2	32.3	44.8
Jun	6	6.87	7.07	7.19	7.40	7.63	7.73	7.86	252	277	309	382	421	446	521	3.9	7.3	12.1	25.3	38.0	45.3	70.0
Jul	7	6.85	7.10	7.23	7.47	7.63	7.72	7.98	255	324	352	453	501	516	556	5.7	8.9	11.4	18.6	27.3	32.8	45.3
Aug	8	7.11	7.32	7.43	7.62	7.92	8.08	8.20	240	277	309	418	479	498	565	3.4	6.5	9.2	15.5	24.7	33.0	53.4
Sep	9	7.09	7.19	7.33	7.63	7.85	7.93	8.04	177	226	238	331	420	485	556	2.3	4.0	5.9	11.7	25.2	34.3	48.3
Oct	10	7.23	7.40	7.45	7.54	7.62	7.67	7.79	197	236	253	301	348	390	511	1.0	2.4	3.8	11.3	20.9	29.0	196.0
Nov	11	7.30	7.37	7.42	7.51	7.59	7.64	7.77	209	254	284	319	388	439	506	1.2	3.8	5.9	10.9	21.6	36.5	196.0
Dec	12	7.22	7.30	7.33	7.46	7.59	7.67	7.88	234	261	276	328	424	461	488	0.9	1.7	2.8	8.1	19.2	26.4	83.3