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Suisun Marsh Program

Memorandum

STATE OF CALIFORNIA

THE RESOURCES AGENCY

Date: June 24,1986

To:

1. Peter Lee

2. Dick Kretsinger

3. James McDaniel

Kamyar Guivetchi

From: **Department of Water Resources**

Subject: **Salinity Unit Conversion Equations**

Historically, the salinity of waterways in the Sacramento-San Joaquin Delta has been expressed as chlorinity (CL-), total dissolved solids (TDS), and, more recently, electrical conductivity (EC). Since monitoring the EC of water is simple and less expensive than for the other parameters, a greater number of grab samples and continuously monitored salinity samples have been analyzed for EC alone. However, it is desirable to convert EC data to its representative CL or TDS value for many reasons, including: the current definition of water quality criteria in State Water Resources Control Board Decision 1485, the need to express salinity in mass units in water quality simulation models, and the need to compare salinity data and analytical results with past studies and reports.

Computerization of Decision 1485 water quality monitoring data on the National Computer Center (NCC) IBM mainframe computer has facilitated an independent comparative analysis of CL-, TDS, and EC grab sample data monitored at numerous sites in the Delta (relationships have been formulated previously by the U. S. Bureau of Reclamation). Resulting conversion equations and analytical methodology used are reported herein. These equations revise and update similar work completed in 1984 and reported in the Delta Impact Analysis Hydrology and Water Quality Staff Paper.

This report is the product of a group effort. Appreciation is extended to the following people for their technical, editorial, and graphical support: Alan Ng, Robert Plath, Sam Ito, Vera Padjen, Frances O´Hare, and Pamela Casselman.

Data Base Documentation

Grab sample data analyzed for CL-, TDS, and EC were collected from 1968 through 1981 by the Department of Water Resources and the U. S. Bureau of Reclamation. Detailed documentation of the Rource data and data screening editing, and computerization using the Statistical Analysis System (SAS) software are presented in DWR's Preliminary Data Base Development Documentation and User's Guide (completed by the Delta Impact Analysis Program (DIA) in October 1984). (Specifically, these data are stored on the MIN_SOL SAS data set.) Figure 1 (GIF, 36 kb) and Table 1 (GIF, 64 kb) from that report are presented here to assist readers in identifying the monitoring sites for which conversion equations were developed (or attempted).

Only surface water samples (depths 4 feet or less) were included, and data were grouped according to water year type (critical and dry = DRY, above and below normal = NORMAL, and wet = WET). All Decision 1485 salinity samples were taken during the slack water following daylight high tides. Therefore, the conversion equations are not biased by salinity variability caused by daily tidal dynamics. The State Water Resources Control Board water year type classification is based on the Sacramento Valley unimpaired runoff and is defined in Water Right Decision 1485 (August 1978).

Analytical Methods

Plots of CL versus EC, TDS versus EC, and CL versus TDS were made initially to determine their relational form. Good linear relationships were observed for most stations, the exceptions being stations with low salinity values and a narrow salinity range (e.g., Sacramento River at Greens Landing). The simple linear regression technique performed by the SAS procedure RSQUARE (see SAS User's Guide: Statistics, Version 5 Edition, 1985) was used to determine the intercept, slope, and relevant statistics for the linear regression equations.

The general form of the resultant equations is:

$$\text{Desired Salinity Variable} = \text{INTERCEPT} + \text{COEFF} \left(\text{Known Salinity Variable} \right) + \text{Error of Estimation}$$

where INTERCEPT and COEFF are determined using the regression analysis.

The SAS procedure MEANS was used to determine additional statistics required to express the model error expression (95 percent confidence interval for a predicted value). The general form of the model error expression used for determining the 95 percent confidence interval about a predicted salinity value is:

$$\text{Predicted Salinity Value} \pm (\text{T-STATISTIC}) \left(\text{ROOT MEAN SQUARE ERROR} \right) \left(1 + \frac{1}{\text{SAMPLE SIZE}} + \frac{(\text{Known Salinity} - \text{MEAN Value})^2}{\text{SUM OF SQUARES}} \right)^{0.5}$$

A separate regression was run between each pair of salinity variables for each station reported in Table I and for each water year type (ALL, DRY, NORMAL, and WET). In addition, a difference was observed in regression results when the independent and dependent salinity variables were switched (the direction of the conversion). This is attributed to the corresponding error of estimation for each of the two regression models. Therefore, a set of equations was developed for each of the following conversions: Table of Equations

Results

Results of the conversions are presented in Tables 2 through 7.

Each table is structured identically in the following columns:

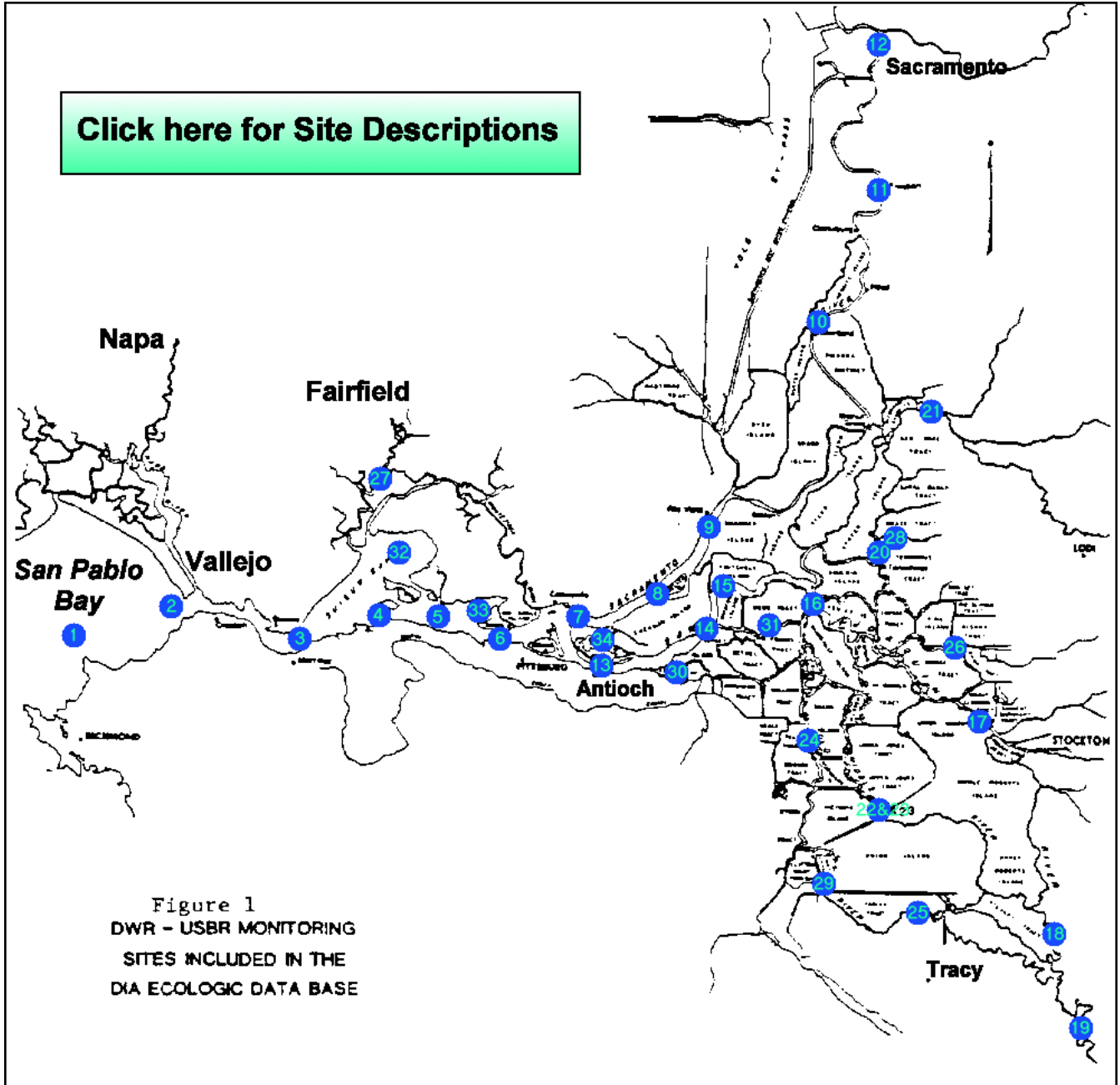| Table Headers	Description
RKI STATION	River Kilometer Index Station Name
YEAR TYPE	ALL, DRY, NORMAL, and WET
INTERCEPT	Equation Intercept
COEFF	Equation Slope
SAMPLE SIZE	Number of observations used in the linear regression
R SQUARE	Equation r2 - Statistic, indication of goodness of fit between estimated regression line and sample data
ROOT MEAN SQUARE ERROR	Standard Deviation of the random error in the estimated regression (statistic used in model error expression)
MEAN	Arithmetic Mean of independent variable (statistic used in model error expression)
RANGE MINIMUM	Lowest independent variable value used in linear regression
RANGE MAXIMUM	Highest independent variable value used in linear regression
SUM OF SQUARES	Independent variable 55 (Statistic used in model error expression)
T-STATISTIC 95% CONFIDENCE	T-Statistic table entry for 95 percent confidence (alpha/2=O.025) and applicable sample size

Table 1

MONITORING SITES INCLUDED IN DIA DATA BASE

Site ID	RKI Name	DWR Broad Water Number	USBR/DWR Number	SWRCB Site (D-1379)	Description	Record Begins
1	RSAC032	E0B 8018 2223	D41		San Pablo Bay N of Pinole Pt at Lt 7	1971
2	RSAC040	E0B 8035 2170	D42	29	E San Pablo Bay nr End Breakwater at Lt 15	1971
3	RSAC056	E0B 8027 2070	D06	2	Sacramento River Ship Channel at Benicia Br	1968
4	RSAC063	E0B 8040 2030	D02	30	Suisun Bay SW of Preston Pt nr Lt 14	1968
5	RSAC068	E0B 8036 1593	D08		Suisun Bay SW of Middle Ground at Lt 20	1968
6	RSAC075	E0B 8028 1550	D10	13	Sacramento R at Old Railroad Br S of Chipps Is	1968
7	RSAC084	B9D 8038 1492	D04	14	Sacramento River 1.5 km E of Pt Sacramento	1971
8	RSAC092	B9D 8051 1443	D22	15	Sacramento River NW of Emmaton at Lt 15	1968
9	RSAC101	B9D 8094 1410	D24	17	Sacramento River at Rio Vista Br at Lt 34	1968
10	RSAC139	B9D 8207 1327	C03	16	Sacramento R. at Greens Lndg 4 km SW of Hood	1969
11	RSAC155	B9D 8273 1300	11447650*		Sacramento River at Freeport	1979
12	RSAC175	A02 1000 0000	11447500*		Sacramento River at Sacramento, I-Street Br	1956
13	RSAN007	B9D 8012 1485	D12	20	San Joaquin R. at Antioch between Lts 7 and 8	1968
14	RSAN018	B9D 8031 1413	D15	22	San Joaquin River at Jersey Pt and Lt 24	1968
15	RSAN024	B9D 8058 1401	D16	28	San Joaquin R. at N Tip of Bradford Is, Lt 33	1968
16	RSAN035	B9D 8047 1340	D26	24	San Joaquin R. 0.5 km SE of Potato Pt & Lt 53	1971
17	RSAN056	B9D 7587 1229	P08	27	San Joaquin R. 1.5 km NW Rough/Ready Is, Lt 40	1972
18	RSAN087	B9D 7472 1184	C07		San Joaquin River at Mossdale at I-5 Br	1973
19	RSAN112	B07 0200 0000	C10	26	San Joaquin River at Airport Way Br, Vernalis	1968
20	RSMKL09	B9D 8076 1297	MD07		South Fork Mokelumne River below Sycamore Sl	1974
21	RMKL028	B9D 8153 1263	P02	6	Mokelumne River at Franklin Rd Br	1968
22	RMID23	B9D 7535 1293	P10	5	Middle River at Junction with Victoria Canal	1968
23	RMID23	B9D 7535 1292	P10A		Middle River at Union Point	1982
24	ROLD21	B9D 7582 1343	D28A	11	Old River 0.5 km S of North Tip of Palm Tract	1973
25	ROLD59	B9D 7483 1269	P12		Old River at Tracy Road Br	1970
26	SLDPT07	B9D 8026 1251	MD10		Disappointment Slough at Bishop Cut	1974
27	SLSUS12	E3S 8108 2028	S42	31	Suisun Slough at Volanti Slough on Joice Is	1968
28	SLSYC4	B9D 8085 1280	MD06		Sycamore Slough 4 km E of Mouth	1974
29	CHWST0	B9D 7498 1332	C09	8	West Canal at Mouth of Clifton Court Intake	1973
30	LBGB2	B9D 8011 1426	D14A	1	Center of East Half of Big Break	1968
31	LFKT3	B9D 8026 1368	D19		Franks Tract, Center of NW Quadrant	1968
32	LSBB11	E0B 8070 2023	D07		Grizzly Bay Dolphin 2.5 km N of Garnet Pt	1968
33	LSBB22	E0B 8044 1562	D09		Honker Bay 2 km NNW of Simmons Pt	1968
34	LSHL1	B9D 8026 1476	D11		Sherman Lake 3 km N of Antioch	1968

* USGS site.

Site Map

Figure 1
DWR – USBR MONITORING
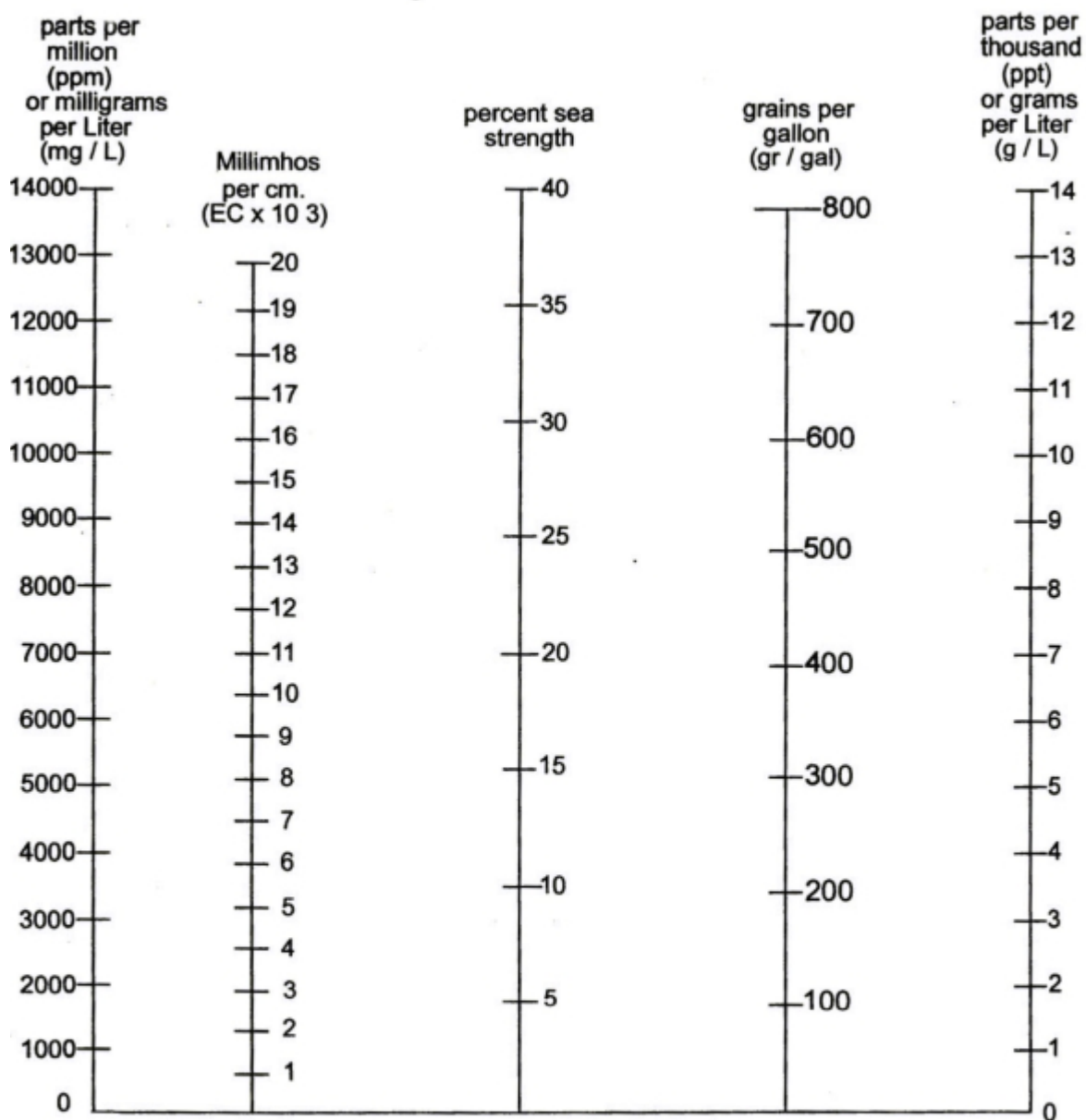SITES INCLUDED IN THE
DIA ECOLOGIC DATA BASE

CONVERSION FACTORS

Quantity	To Convert from Metric Unit	To Customary Unit	Multiply Metric Unit By	To Convert to Metric Unit Multiply Customary Unit By
Length	millimetres (mm)	inches (in)	0 03937	25 4
	centimetres (cm) for snow depth	inches (in)	0 3937	2 54
	metres (m)	feet (ft)	3 2808	0 3048
	kilometres (km)	miles (mi)	0 62139	1 6093
Area	square millimetres (mm²)	square inches (in²)	0 00155	645 16
	square metres (m²)	square feet (ft²)	10 764	0 092903
	hectares (ha)	acres (ac)	2 4710	0 40469
	square kilometres (km²)	square miles (mi²)	0 3861	2 590
Volume	litres (L)	gallons (gal)	0 26417	3 7854
	megalitres	million gallons (10⁶ gal)	0 26417	3 7854
	cubic metres (m³)	cubic feet (ft³)	35 315	0 028317
	cubic metres (m³)	cubic yards (yd³)	1 308	0 76455
	cubic dekametres (dam³)	acre-feet (ac-ft)	0 8107	1 2335
Flow	cubic metres per second (m³/s)	cubic feet per second (ft³/s)	35 315	0 028317
	litres per minute (L/min)	gallons per minute (gal/min)	0 26417	3 7854
	litres per day (L/day)	gallons per day (gal/day)	0 26417	3 7854
	megalitres per day (ML/day)	million gallons per day (mgd)	0 26417	3 7854
	cubic dekametres per day (dam³/day)	acre-feet per day (ac-ft/day)	0 8107	1 2335
Mass	kilograms (kg)	pounds (lb)	2 2046	0 45359
	megagrams (Mg)	tons (short, 2,000 lb)	1 1023	0 90718
Velocity	metres per second (m/s)	feet per second (ft/s)	3 2808	0 3048
Power	kilowatts (kW)	horsepower (hp)	1 3405	0 746
Pressure	kilopascals (kPa)	pounds per square inch (psi)	0 14505	6 8948
	kilopascals (kPa)	feet head of water	0 33456	2 989
Specific Capacity	litres per minute per metre drawdown	gallons per minute per foot drawdown	0 08052	12 419
Concentration	milligrams per litre (mg/L)	parts per million (ppm)	1 0	1 0
Electrical Conductivity	microsiemens per centimetre (uS/cm)	micromhos per centimetre	1 0	1 0
Temperature	degrees Celsius (°C)	degrees Fahrenheit (°F)	$(1.8 \times °C) + 32$	$(°F - 32)/1.8$

Salinity Conversion Table

parts per million (ppm) or milligrams per Liter (mg / L)

Millimhos per cm. (EC x 10 3)

percent sea strength

grains per gallon (gr / gal)

parts per thousand (ppt) or grams per Liter (g / L)

ppm	Millimhos	percent sea strength	grains per gallon	ppt
14000		40	800	14
13000	20			13
12000	19	35	700	12
	18			
11000	17			11
	16	30	600	
10000	15			10
9000	14			9
	13	25	500	
8000	12			8
7000	11	20	400	7
	10			
6000	9			6
5000	8	15	300	5
	7			
4000	6	10	200	4
3000	5			3
	4			
2000	3	5	100	2
	2			
1000	1			1
0				0

Millimhos and MilliSiemens are equivalent terms.

Sea water is approximately 35 parts per thousand, or 52 millimhos per cm.

1 cubic yard = 27 cubic feet
1 square yard = 9 square feet
1 acre = 43,560 square feet or 4,840 square yards
1 gallon = .133 cubic feet
1 acre foot = 327,518 gallons

TABLE 2
EC (UMHOS/CM) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLCRIDE = INTERCEPT + (EC COEFF * EC)

17:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTI 95% CONFID
CHWST0	ALL	-38.0	0.244883	139	0.966771	13.63	470.2	153	1480	12356815	1.960
CHWST0	DRY	-40.9	0.257207	61	0.980780	11.65	529.3	179	1480	6179262	1.960
CHWST0	NORMAL	-22.6	0.196642	24	0.973006	5.69	330.4	178	938	663648	2.069
CHWST0	WET	-36.1	0.232464	54	0.956478	15.11	465.4	153	1320	4830349	1.960
LBGB2	ALL	-40.9	0.282173	181	0.988590	27.40	675.2	133	4330	146227446	1.960
LBGB2	DRY	-39.6	0.280606	54	0.979793	44.60	1196.8	135	3770	63689239	1.960
LBGB2	NORMAL	-36.8	0.282677	37	0.997442	6.16	382.1	142	2150	6483430	1.960
LBGB2	WET	-43.6	0.284608	90	0.993683	17.92	482.8	133	4330	54851849	1.960
LFKT3	ALL	-42.1	0.284592	193	0.969227	23.51	452.9	121	2460	41063789	1.960
LFKT3	DRY	-47.8	0.293012	63	0.953026	37.13	699.9	121	2080	19867344	1.960
LFKT3	NORMAL	-35.4	0.275060	36	0.990776	7.70	315.4	137	1460	2861553	1.960
LFKT3	WET	-39.8	0.273362	94	0.993782	13.00	340.1	129	2460	12614678	1.960
LSBB11	ALL	-114.8	0.337623	200	0.940389	640.82	8880.8	145	27000	11252709287	1.960
LSBB11	DRY	149.6	0.331574	63	0.876954	879.39	14610.7	337	26000	3058024176	1.960
LSBB11	NORMAL	-134.2	0.324773	40	0.866341	669.35	6602.1	171	17900	1046204422	1.960
LSBB11	WET	-96.8	0.322985	97	0.970511	370.84	6099.0	145	27000	4121727004	1.960
LSBB22	ALL	-114.5	0.338702	187	0.940541	501.86	5413.9	126	21100	6424717403	1.960
LSBB22	DRY	-31.7	0.329922	63	0.903995	674.78	9462.8	218	19800	2402731677	1.960
LSBB22	NORMAL	-70.6	0.320354	37	0.939243	129.52	3355.8	143	11800	526115668	1.960
LSBB22	WET	-160.2	0.354617	87	0.933510	451.95	3357.3	126	21100	1933374837	1.960
LSHL1	ALL	-60.6	0.315881	182	0.992695	74.75	1823.1	110	12200	1369639670	1.960
LSHL1	DRY	-74.7	0.320266	56	0.992702	92.62	3753.5	152	10700	614311438	1.960
LSHL1	NORMAL	-43.2	0.292677	35	0.996942	18.66	852.2	140	4170	42007999	1.960
LSHL1	WET	-57.4	0.310250	91	0.987710	74.39	1008.6	110	12200	411271238	1.960
RMID23	ALL	-38.0	0.244047	127	0.946826	11.18	402.8	157	947	4667601	1.960
RMID23	DRY	-43.2	0.259561	56	0.968477	9.50	436.9	211	941	2224369	1.960
RMID23	NORMAL	-35.1	0.248671	13	0.908406	14.09	367.3	172	730	350251	2.179
RMID23	WET	-32.8	0.223407	58	0.939311	10.66	377.8	157	947	1974990	1.960
RMKL028	ALL	-0.5	0.055048	108	0.816175	1.70	106.7	35	273	449362	1.960
RMKL028	DRY	-1.1	0.059508	40	0.799479	1.96	150.8	45	273	164998	1.960
RMKL028	NORMAL	.	.	28	0.492559	1.51	76.9	35	152	38698	2.052
RMKL028	WET	-0.2	0.053998	40	0.807101	1.49	83.5	38	268	121392	1.960
ROLD21	ALL	-39.0	0.263119	130	0.990330	10.87	488.6	134	1730	22380038	1.960
ROLD21	DRY	-40.7	0.266397	62	0.990849	11.91	617.2	134	1650	12978626	1.960
ROLD21	NORMAL	-14.4	0.158010	18	0.948994	1.99	215.9	135	338	47284	2.110
ROLD21	WET	-38.0	0.258027	50	0.987827	10.78	427.3	136	1730	6802945	1.960
ROLD59	ALL	-30.4	0.193293	160	0.955850	19.16	861.0	180	2090	31948907	1.960
ROLD59	DRY	-34.9	0.201341	64	0.941378	25.02	1104.0	304	2090	15374152	1.960
ROLD59	NORMAL	-8.1	0.166891	30	0.947624	11.65	659.1	180	1330	2467289	2.045
ROLD59	WET	-35.7	0.205996	66	0.964108	13.82	717.1	181	1880	7737026	1.960
RSAC032	ALL	-1159.2	0.395149	46	0.934768	760.39	34708.7	11400	43200	2334776522	1.960
RSAC032	DRY	-3229.7	0.456334	10	0.869365	466.74	38480.0	33900	42800	55696000	2.262
RSAC032	NORMAL	.	.	8	0.607617	1450.43	37175.0	28600	43100	193455000	2.365
RSAC032	WET	-1100.0	0.388638	28	0.971386	551.42	32657.1	11400	43200	1776888571	2.052
RSAC040	ALL	-584.6	0.390305	86	0.898279	1154.24	31125.2	6020	43900	6814994145	1.960
RSAC040	DRY	1298.7	0.339260	43	0.780488	1216.74	34625.6	15400	42000	1875101860	1.960
RSAC040	NORMAL	405.5	0.333396	9	0.843376	1035.06	30411.1	17200	38000	363308389	2.306
RSAC040	WET	-725.7	0.369574	34	0.954300	833.05	26887.4	6020	43900	3434451462	1.960
RSAC056	ALL	-254.0	0.363876	210	0.916001	1034.04	18620.9	153	38000	18317106531	1.960
RSAC056	DRY	3.3	0.364578	63	0.864911	971.85	26017.9	7440	35800	2775220232	1.960

TABLE 2 (CONT)
EC (UMHOS/CM) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLORIDE = INTERCEPT + (EC COEFF * EC)

17:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC056	NORMAL	502.79	0.321962	45	0.788956	1178.08	16568.9	1050	27400	2152216844	1.960
RSAC056	WET	-258.55	0.350956	102	0.919033	953.83	14957.5	153	38000	8384184701	1.960
RSAC063	ALL	-42.70	0.342288	83	0.892831	662.29	7110.0	124	20100	2526403691	1.960
RSAC063	DRY	.	.	4	0.940733	329.23	9506.3	7340	12600	15282669	3.182
RSAC063	NORMAL	136.39	0.304088	27	0.747683	1019.22	7746.4	175	20100	832239432	2.056
RSAC063	WET	-120.94	0.361845	52	0.969725	365.18	6595.3	124	18300	1631204193	1.960
RSAC068	ALL	-109.61	0.341547	159	0.973571	416.29	8340.3	124	27000	8624908343	1.960
RSAC068	DRY	35.05	0.337941	63	0.947151	542.80	12970.3	327	24000	2820446355	1.960
RSAC068	NORMAL	-130.18	0.335122	29	0.980443	234.18	4973.2	175	15000	660941133	2.048
RSAC068	WET	-117.50	0.330261	67	0.980428	311.69	5442.2	124	27000	2900300241	1.960
RSAC075	ALL	-101.92	0.335216	201	0.979912	272.37	5097.3	125	21700	6408730010	1.960
RSAC075	DRY	-90.31	0.339264	62	0.957774	424.94	9330.5	228	19500	2135072025	1.960
RSAC075	NORMAL	-28.91	0.300914	41	0.979300	165.30	3429.0	171	12700	556772353	1.960
RSAC075	WET	-102.66	0.331421	98	0.991885	140.45	3117.1	125	21700	2107495141	1.960
RSAC084	ALL	-69.06	0.320539	154	0.993696	96.56	2914.3	129	13900	2174291756	1.960
RSAC084	DRY	-75.69	0.320484	63	0.991862	119.98	5007.0	159	13100	1042131258	1.960
RSAC084	NORMAL	-42.50	0.304466	26	0.990561	17.64	901.8	132	5560	55919968	2.060
RSAC084	WET	-74.67	0.324965	65	0.992166	88.95	1691.1	129	13900	597788457	1.960
RSAC092	ALL	-46.27	0.311208	185	0.960890	118.64	1065.2	92	10000	653380926	1.960
RSAC092	DRY	-41.24	0.310309	62	0.925339	204.64	2103.1	129	7100	323402417	1.960
RSAC092	NORMAL	-30.62	0.259152	40	0.981032	9.09	291.2	128	1190	2417666	1.960
RSAC092	WET	-49.28	0.311852	83	0.997620	25.29	662.9	92	10000	223375563	1.960
RSAC101	ALL	-37.35	0.274340	204	0.994274	10.97	334.6	108	3500	56053312	1.960
RSAC101	DRY	-38.42	0.267361	62	0.992712	13.26	537.3	125	2100	20100219	1.960
RSAC101	NORMAL	.	.	43	0.559810	3.33	160.5	110	270	52035	1.960
RSAC101	WET	-37.95	0.281978	99	0.997315	8.38	283.3	108	3500	31790050	1.960
RSAC139	ALL	.	.	176	0.153729	5.43	157.4	64	356	299513	1.960
RSAC139	DRY	.	.	63	0.631849	1.62	176.0	118	356	114778	1.960
RSAC139	NORMAL	.	.	40	0.282048	3.92	141.4	100	208	28670	1.960
RSAC139	WET	.	.	73	0.103396	7.77	150.1	64	308	120075	1.960
RSAN007	ALL	-70.06	0.318528	210	0.981884	118.88	1964.0	131	12600	1570152132	1.960
RSAN007	DRY	-87.79	0.321869	63	0.969296	189.21	3941.9	203	10800	665442508	1.960
RSAN007	NORMAL	-41.32	0.298450	43	0.998687	13.45	1010.5	138	4110	63321587	1.960
RSAN007	WET	-70.55	0.318329	104	0.985849	83.47	1160.1	131	12600	488634548	1.960
RSAN018	ALL	-43.11	0.284628	232	0.989826	30.61	731.8	128	6490	258490290	1.960
RSAN018	DRY	-40.95	0.283236	62	0.987895	42.56	1424.4	148	4540	110536505	1.960
RSAN018	NORMAL	-35.33	0.276378	50	0.990562	9.98	409.0	134	1540	6566919	1.960
RSAN018	WET	-46.17	0.287403	120	0.983163	29.02	509.5	128	6490	100449002	1.960
RSAN024	ALL	-40.18	0.277622	173	0.977217	32.36	594.5	122	4240	99670875	1.960
RSAN024	DRY	-35.43	0.266916	62	0.955240	48.55	940.6	122	2889	42370746	1.960
RSAN024	NORMAL	-29.68	0.251308	31	0.978344	7.78	273.6	132	863	1253810	1.960
RSAN024	WET	-44.21	0.292848	80	0.995413	14.89	450.6	125	4240	43769606	1.960
RSAN035	ALL	-28.90	0.236468	170	0.959229	7.90	256.9	120	922	4409993	1.960
RSAN035	DRY	-31.19	0.241837	62	0.948203	10.37	326.4	121	780	2021363	1.960
RSAN035	NORMAL	-31.69	0.263958	34	0.972713	4.27	197.8	122	572	297908	1.960
RSAN035	WET	-27.81	0.228266	74	0.968084	6.18	225.9	120	922	1601088	1.960
RSAN056	ALL	-17.07	0.182888	156	0.911356	11.68	519.7	180	1410	6452262	1.960
RSAN056	DRY	-8.38	0.172258	61	0.808628	15.72	594.9	242	1075	2076982	1.960
RSAN056	NORMAL	-17.79	0.185830	28	0.950563	5.02	442.4	187	669	364419	2.052
RSAN056	WET	-20.27	0.184516	67	0.960608	8.56	483.6	180	1410	3411309	1.960

TABLE 2 (CON'T)
EC (UMHOS/CM) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLORIDE = INTERCEPT + (EC COEFF * EC)

17:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTIC 95% CONFID
RSAN087	ALL	-21.80	0.184641	130	0.953895	16.115	750.76	153	1750	20172854	1.960
RSAN087	DRY	-24.85	0.189106	64	0.951761	17.131	918.92	242	1720	10038959	1.960
RSAN087	NORMAL	-19.20	0.181034	24	0.879605	17.645	560.42	153	1230	1526990	2.069
RSAN087	WET	-16.51	0.172689	42	0.955128	13.252	603.29	193	1750	5014109	1.960
RSAN112	ALL	-23.29	0.184503	183	0.933083	19.737	737.79	130	1850	28882352	1.960
RSAN112	DRY	-36.00	0.200146	64	0.947509	21.964	947.89	263	1850	13478432	1.960
RSAN112	NORMAL	5.05	0.130460	40	0.804754	23.306	670.22	140	1830	4437643	1.960
RSAN112	WET	-19.42	0.177360	79	0.969794	9.093	601.80	130	1740	6497547	1.960
RSMKL09	ALL	.	.	116	0.011838	495.914	172.38	83	292	230863	1.960
RSMKL09	DRY	.	.	60	0.688710	2.149	188.88	114	292	89222	1.960
RSMKL09	NORMAL	.	.	17	0.697005	1.155	133.35	83	182	13182	2.120
RSMKL09	WET	.	.	39	0.041642	850.008	164.00	92	288	83486	1.960
SLDPT07	ALL	-15.65	0.161550	124	0.891043	4.492	273.85	142	451	771396	1.960
SLDPT07	DRY	-21.06	0.179421	64	0.886644	4.608	292.08	146	447	319837	1.960
SLDPT07	NORMAL	-12.81	0.158376	20	0.961543	2.321	250.75	142	407	96672	2.093
SLDPT07	WET	-12.45	0.146258	40	0.896557	4.491	256.22	150	451	310525	1.960
SLSUS12	ALL	-165.43	0.337615	92	0.989280	161.246	6608.59	780	16400	1894525566	1.960
SLSUS12	DRY	-271.99	0.340584	22	0.990321	142.952	8288.18	2300	16400	344152327	2.080
SLSUS12	NORMAL	-170.50	0.339898	16	0.994139	145.250	7393.75	1400	15800	433669175	2.131
SLSUS12	WET	-138.67	0.333419	54	0.986095	173.573	5691.67	780	16300	999377400	1.960
SLSYC4	ALL	-7.23	0.116736	117	0.813455	3.895	190.38	81	407	558697	1.960
SLSYC4	DRY	-11.46	0.138704	60	0.830995	4.013	207.68	100	407	238763	1.960
SLSYC4	NORMAL	-1.68	0.076583	18	0.960489	1.038	148.28	85	337	71486	2.110
SLSYC4	WET	-4.65	0.100775	39	0.800055	3.672	183.18	81	334	196556	1.960

TABLE 3
CL (MG/L) TO EC (UMHOS/CM) CONVERSION
DNR D1485 GRAB SAMPLE DATA (1968 - 81)
EC = INTERCEPT + (CL COEFF * CL)

19:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
CHWST0	ALL	165.6	3.9479	139	0.966771	54.75	77.1	13.0	321	766478	1.960
CHWST0	DRY	166.0	3.8132	61	0.980780	44.87	95.3	17.0	321	416804	1.960
CHWST0	NORMAL	120.5	4.9481	24	0.973006	28.54	42.4	13.0	175	26374	2.069
CHWST0	WET	168.9	4.1145	54	0.956478	63.58	72.1	13.0	300	272908	1.960
LBGB2	ALL	151.1	3.5035	181	0.988590	96.55	149.6	4.0	1280	11777272	1.960
LBGB2	DRY	162.4	3.4917	54	0.979793	157.32	296.2	8.9	1100	5118301	1.960
LBGB2	NORMAL	130.8	3.5286	37	0.997442	21.77	71.2	6.7	585	519394	1.960
LBGB2	WET	155.1	3.4914	90	0.993683	62.75	93.8	4.0	1280	4471352	1.960
LFKT3	ALL	157.2	3.4057	193	0.969227	81.34	86.8	4.0	700	3431460	1.960
LFKT3	DRY	188.2	3.2525	63	0.953026	123.69	157.3	7.4	634	1789801	1.960
LFKT3	NORMAL	130.5	3.6020	36	0.990776	27.86	51.3	6.0	378	218514	1.960
LFKT3	WET	148.8	3.5988	94	0.983782	47.16	53.2	4.0	700	958196	1.960
LSBB11	ALL	849.1	2.7853	200	0.940389	1840.60	2883.6	5.0	9200	1363998346	1.960
LSBB11	DRY	1402.1	2.6443	63	0.876954	2483.64	4994.1	46.0	8780	383375503	1.960
LSBB11	NORMAL	1240.4	2.6675	40	0.866341	1918.30	2010.0	9.4	6100	127376379	1.960
LSBB11	WET	470.8	3.0048	97	0.970511	1131.12	1873.1	5.0	9200	443041804	1.960
LSBB22	ALL	639.9	2.7769	187	0.940541	1435.98	1719.2	3.0	9400	783629661	1.960
LSBB22	DRY	995.3	2.7400	63	0.903995	1944.62	3090.3	20.0	7340	289308080	1.960
LSBB22	NORMAL	254.2	3.0800	37	0.999243	402.12	1004.4	8.0	3870	54580730	1.960
LSBB22	WET	645.0	2.6304	87	0.933510	1231.37	1030.3	3.0	9400	261118898	1.960
LSHL1	ALL	203.7	3.1426	182	0.992695	235.76	515.3	3.0	3480	137669222	1.960
LSHL1	DRY	259.0	3.0996	56	0.992702	288.13	1127.4	15.0	3480	63473428	1.960
LSHL1	NORMAL	146.9	3.3379	35	0.996942	62.39	211.3	6.6	1210	3758936	1.960
LSHL1	WET	195.1	3.1836	91	0.987710	238.31	255.5	3.0	3440	40079569	1.960
RMID23	ALL	168.9	3.8797	127	0.946826	44.56	60.3	10.0	227	293610	1.960
RMID23	DRY	175.0	3.7312	56	0.968477	36.03	70.2	20.0	227	154737	1.960
RMID23	NORMAL	161.9	3.6530	13	0.908406	54.00	56.2	15.0	173	23842	2.179
RMID23	WET	160.7	4.2045	58	0.939311	46.26	51.6	10.0	215	104942	1.960
RMKL028	ALL	26.6	14.8265	108	0.816175	27.92	5.4	0.3	18	1668	1.960
RMKL028	DRY	45.7	13.4348	40	0.799479	29.51	7.8	0.4	18	731	1.960
RMKL028	NORMAL	.	.	28	0.492559	27.48	3.6	0.3	10	118	2.052
RMKL028	WET	19.6	14.9468	40	0.807101	24.82	4.3	1.8	16	439	1.960
ROLD21	ALL	151.7	3.7638	130	0.990330	41.12	89.5	7.0	428	1564536	1.960
ROLD21	DRY	157.0	3.7194	62	0.990849	44.49	123.7	9.4	410	929564	1.960
ROLD21	NORMAL	97.8	6.0059	18	0.948994	12.28	19.7	7.0	42	1244	2.110
ROLD21	WET	150.8	3.8284	50	0.987827	41.54	72.2	9.0	428	458507	1.960
ROLD59	ALL	184.8	4.8204	160	0.955850	94.49	140.3	19.0	382	1314258	1.960
ROLD59	DRY	227.7	4.6755	64	0.941378	120.57	187.4	35.0	382	662054	1.960
ROLD59	NORMAL	80.5	5.6781	30	0.947624	67.94	101.9	22.0	213	72519	2.045
ROLD59	WET	192.8	4.6802	66	0.964108	65.87	112.0	19.0	350	340537	1.960
RSAC032	ALL	5006.4	2.3556	46	0.934768	1860.46	12555.9	3420.0	16200	389998915	1.960
RSAC032	DRY	11179.9	1.9051	10	0.869365	953.67	14330.0	11800.0	16200	13341000	2.262
RSAC032	NORMAL	.	.	8	0.607617	3556.88	13712.5	10400.0	16200	32168750	2.365
RSAC032	WET	3683.9	2.4995	28	0.971386	1398.41	11591.8	3420.0	16100	276286611	2.052
RSAC040	ALL	4545.1	2.3539	86	0.898279	2872.76	11268.0	1560.0	16300	1100167564	1.960
RSAC040	DRY	4612.9	2.3006	43	0.780488	3168.47	13045.8	5040.0	15800	276518647	1.960
RSAC040	NORMAL	3737.3	2.5297	9	0.843376	2851.14	10544.4	6100.0	13300	47382222	2.306
PSAC040	WET	3090.2	2.5835	34	0.954800	2202.55	9211.2	1560.0	16300	491310353	1.960
RSAC056	ALL	2203.7	2.5173	210	0.916001	2719.78	6521.7	12.0	14700	2647693413	1.960
RSAC056	DRY	3506.8	2.3724	63	0.864911	2479.09	9488.9	2190.0	13100	426488022	1.960

TABLE 3 (CON'T)
CL (MG/L) TO EC (UMHOS/CM) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
EC = INTERCEPT + (CL COEFF * CL)

19:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC056	NORMAL	2264.71	2.45047	45	0.788956	3250.09	5837.33	246.0	9950	282775450	1.960
RSAC056	WET	1899.11	2.61865	102	0.919033	2605.46	4990.88	12.0	14700	1123661547	1.960
RSAC063	ALL	873.36	2.60842	83	0.892831	1828.28	2390.97	8.0	7670	331524691	1.960
RSAC063	DRY	.	.	4	0.940733	672.96	3340.00	2620.0	4950	3657800	3.182
RSAC063	NORMAL	1619.19	2.45878	27	0.747683	2898.19	2491.96	11.0	7670	102926711	2.056
RSAC063	WET	523.79	2.67995	52	0.969725	993.83	2265.53	8.0	7100	220243990	1.960
RSAC068	ALL	532.08	2.85077	159	0.973371	1202.67	2738.93	6.0	9900	1033339791	1.960
RSAC068	DRY	587.33	2.80272	63	0.947151	1563.19	4418.92	39.0	8160	340078533	1.960
RSAC068	NORMAL	478.12	2.92563	29	0.980443	691.92	1536.45	12.0	5020	75708675	2.048
RSAC068	WET	455.33	2.96865	67	0.980428	934.50	1679.83	6.0	9900	322657656	1.960
RSAC075	ALL	400.32	2.92323	201	0.979912	804.31	1606.78	3.0	7700	734909413	1.960
RSAC075	DRY	648.95	2.82309	62	0.957774	1225.80	3075.18	21.0	6650	256581821	1.960
RSAC075	NORMAL	165.07	3.25441	41	0.979300	543.61	1002.93	9.2	3470	51481095	1.960
RSAC075	WET	332.54	2.99282	98	0.991835	422.07	930.42	3.0	7700	233381137	1.960
RSAC084	ALL	232.45	3.10008	154	0.993696	300.30	865.10	6.5	4400	224815499	1.960
RSAC084	DRY	274.98	3.09489	63	0.991862	372.86	1528.97	18.0	4100	107915594	1.960
RSAC084	NORMAL	140.69	3.27971	26	0.998561	57.90	232.07	6.5	1700	5191235	2.060
RSAC084	WET	241.23	3.05314	65	0.992166	272.64	474.88	6.9	4400	63626425	1.960
RSAC092	ALL	184.54	3.08761	185	0.960390	373.68	285.22	1.0	3200	65855923	1.960
RSAC092	DRY	280.01	2.98199	62	0.925339	634.37	611.36	8.4	2720	33653556	1.960
RSAC092	NORMAL	121.45	3.78555	40	0.981032	34.74	44.83	4.3	301	165509	1.960
RSAC092	WET	159.23	3.19902	83	0.997620	81.01	157.44	1.0	3200	21775443	1.960
RSAC101	ALL	137.27	3.62424	204	0.994274	39.86	54.45	1.0	950	4242998	1.960
RSAC101	DRY	146.59	3.71300	62	0.992712	49.41	105.23	6.9	519	1447349	1.960
RSAC101	NORMAL	.	.	43	0.559810	23.64	10.04	3.6	29	1033	1.960
RSAC101	WET	134.98	3.53686	99	0.997315	29.66	41.94	1.0	950	2534476	1.960
RSAC139	ALL	.	.	176	0.153729	39.17	7.62	1.5	69	6053	1.960
RSAC139	DRY	.	.	63	0.631849	26.32	7.98	4.1	18	433	1.960
RSAC139	NORMAL	.	.	40	0.282048	23.27	6.96	2.0	31	812	1.960
RSAC139	WET	.	.	73	0.103396	38.94	7.66	1.5	69	4782	1.960
RSAN007	ALL	251.54	3.08257	210	0.901834	369.81	555.53	6.0	4400	162246987	1.960
RSAN007	DRY	385.41	3.01147	63	0.969296	578.74	1180.97	15.0	3610	71123156	1.960
RSAN007	NORMAL	139.59	3.34624	43	0.990607	45.03	260.27	8.5	1200	5647636	1.960
RSAN007	WET	234.92	3.09695	104	0.985849	260.37	298.74	6.0	4400	50225805	1.960
RSAN018	ALL	157.27	3.47517	232	0.989826	106.93	165.33	5.0	2000	21186068	1.960
RSAN018	DRY	160.06	3.48789	62	0.987895	149.34	362.50	11.0	1310	8976191	1.960
RSAN018	NORMAL	130.49	3.58409	50	0.990562	35.93	77.71	7.0	410	506390	1.960
RSAN018	WET	164.78	3.43825	120	0.988163	100.38	99.96	5.0	2000	8396514	1.960
RSAN024	ALL	154.99	3.51995	173	0.977217	115.24	124.87	5.0	1200	7861139	1.960
RSAN024	DRY	168.92	3.57891	62	0.955240	177.79	215.64	6.9	798	3160104	1.960
RSAN024	NORMAL	121.45	3.89177	31	0.978344	30.60	39.09	5.9	198	80989	1.960
RSAN024	WET	152.34	3.39908	80	0.995413	50.73	87.76	5.0	1200	3770970	1.960
RSAN035	ALL	127.69	4.05649	170	0.959229	32.71	31.86	2.0	192	257075	1.960
RSAN035	DRY	139.21	3.92084	62	0.948203	41.77	47.75	5.4	180	124677	1.960
RSAN035	NORMAL	122.16	3.68510	34	0.972713	15.94	20.52	4.5	128	21339	1.960
RSAN035	WET	125.14	4.24104	74	0.968084	26.64	23.75	2.0	192	86176	1.960
RSAN056	ALL	131.15	4.98315	156	0.911356	60.94	77.97	10.0	260	236806	1.960
RSAN056	DRY	153.16	4.69428	61	0.808628	82.08	94.10	23.0	198	76215	1.960
RSAN056	NORMAL	112.86	5.11523	28	0.950563	26.32	64.43	25.0	112	13239	2.052
RSAN056	WET	124.57	5.20609	67	0.960608	45.47	68.96	10.0	260	120905	1.960

TABLE 3 (CON'T)
CL (MG/L) TO EC (UMHOS/CM) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
EC = INTERCEPT + (CL COEFF * CL)

19:42 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
RSAN087	ALL	147.228	5.1662	130	0.953895	85.242	116.82	15.0	312	720979	1.960
RSAN087	DRY	169.404	5.0330	64	0.951761	88.379	148.92	22.0	312	377199	1.960
RSAN087	NORMAL	160.783	4.8588	24	0.879605	91.414	82.25	16.0	235	56894	2.069
RSAN087	WET	118.409	5.5309	42	0.955128	74.999	87.67	15.0	306	156553	1.960
RSAN112	ALL	167.123	5.0573	183	0.933083	103.334	112.84	6.0	383	1053710	1.960
RSAN112	DRY	220.173	4.7341	64	0.947509	106.823	153.72	26.0	383	569837	1.960
RSAN112	NORMAL	101.503	5.8122	40	0.804754	151.000	97.85	15.0	210	105715	1.960
RSAN112	WET	124.357	5.4679	79	0.969794	50.487	87.32	6.0	295	210757	1.960
RSMKL09	ALL	.	.	116	0.011838	44.734	56.65	3.6	5360	28371934	1.960
RSMKL09	DRY	.	.	60	0.688710	21.883	12.05	6.4	23	860	1.960
RSMKL09	NORMAL	.	.	17	0.697005	16.318	7.53	3.6	11	66	2.120
RSMKL09	WET	.	.	39	0.041642	46.502	146.68	4.5	5360	27894565	1.960
SLDPT07	ALL	116.163	5.5156	124	0.891043	26.247	28.59	8.0	73	22594	1.960
SLDPT07	DRY	137.186	4.9417	64	0.886644	24.182	31.34	14.0	73	11612	1.960
SLDPT07	NORMAL	87.433	6.0713	20	0.961543	14.372	26.90	11.0	55	2522	2.093
SLDPT07	WET	102.823	6.1300	40	0.896557	29.074	25.02	8.0	65	7409	1.960
SLSUS12	ALL	555.587	2.9302	92	0.989280	475.038	2065.73	188.0	5250	218285378	1.960
SLSUS12	DRY	852.951	2.8410	22	0.990321	403.103	2617.14	552.0	5250	42227037	2.080
SLSUS12	NORMAL	542.007	2.9248	16	0.994139	426.081	2342.63	400.0	5149	50397516	2.131
SLSUS12	WET	489.274	2.9575	54	0.986095	516.953	1759.04	188.0	5190	112665744	1.960
SLSYC4	ALL	85.926	6.9701	117	0.813455	30.104	14.99	3.9	52	9355	1.960
SLSYC4	DRY	103.767	5.9911	60	0.830995	26.377	17.34	6.9	52	5528	1.960
SLSYC4	NORMAL	26.902	12.5417	18	0.960489	13.286	9.68	3.9	23	437	2.110
SLSYC4	WET	73.581	7.9390	39	0.800055	32.591	13.81	4.0	32	2495	1.960

TABLE 4
EC (UMHOS/CM) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (EC COEFF * EC)

19:18 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTIC 95% CONFID
CHWST0	ALL	19.2	0.528851	131	0.965307	30.49	469.3	153	1480	11929179	1.960
CHWST0	DRY	23.1	0.525874	61	0.967669	31.11	529.3	179	1480	6179262	1.960
CHWST0	NORMAL	.	.	19	0.393995	53.19	289.1	178	520	151495	2.101
CHWST0	WET	8.5	0.539136	51	0.992964	14.14	464.7	153	1320	4760119	1.960
LBGB2	ALL	11.7	0.528474	126	0.991513	50.22	817.9	135	4330	130798951	1.960
LBGB2	DRY	21.3	0.520074	54	0.991526	53.21	1196.8	135	3770	63689239	1.960
LBGB2	NORMAL	20.1	0.501728	19	0.820105	14.56	204.8	142	350	65263	2.101
LBGB2	WET	3.7	0.539799	53	0.989904	54.34	651.6	135	4330	50684209	1.960
LFKT3	ALL	15.8	0.516952	47	0.992763	15.06	402.1	164	1740	5237612	1.960
LFKT3	DRY	11.3	0.524087	26	0.995571	15.09	456.7	177	1740	4473826	2.060
LFKT3	WET	33.2	0.469280	21	0.976849	12.74	334.7	164	779	590915	2.086
LSEB11	ALL	12.4	0.622551	137	0.968966	899.86	9830.5	146	27000	8806487550	1.960
LSEB11	DRY	135.3	0.627707	62	0.932497	1192.52	14480.3	337	26000	2991532466	1.960
LSEB11	NORMAL	-143.6	0.686891	19	0.951358	378.75	2918.2	171	8130	101091739	2.101
LSEB11	WET	40.0	0.585943	56	0.983952	463.58	7027.8	146	27000	3025676024	1.960
LSBB22	ALL	-289.1	0.641331	48	0.937074	857.17	5404.0	192	17800	1223692170	1.960
LSBB22	DRY	-334.1	0.670419	27	0.972208	660.69	6469.4	218	17800	849342561	2.056
LSBB22	WET	-20.9	0.529201	21	0.833075	948.01	4034.2	192	12400	304298159	2.086
LSHL1	ALL	-50.3	0.595100	43	0.995391	86.02	1601.0	163	8680	184978246	1.960
LSHL1	DRY	-69.5	0.604955	22	0.998325	64.46	2111.5	213	8680	135338399	2.080
LSHL1	WET	-13.6	0.559426	21	0.986788	91.43	1066.3	163	5660	37904205	2.086
RHID23	ALL	18.3	0.523394	92	0.981026	15.04	426.2	200	947	3840506	1.960
RHID23	DRY	21.3	0.523698	53	0.981587	14.71	445.8	211	941	2144963	1.960
RHID23	WET	16.1	0.518350	39	0.982132	14.75	399.5	200	947	1647408	1.960
RMKL028	ALL	15.9	0.511038	90	0.915543	10.69	108.8	35	273	417260	1.960
RMKL028	DRY	15.4	0.524562	40	0.864331	13.69	150.8	45	273	164998	1.960
RMKL028	NORMAL	11.8	0.556525	20	0.874100	6.58	64.1	35	148	17463	2.093
RMKL028	WET	20.7	0.430403	30	0.935539	7.00	82.6	38	268	103743	2.045
ROLD21	ALL	16.2	0.525194	130	0.993795	17.35	489.6	134	1730	22380038	1.960
ROLD21	DRY	17.8	0.525804	62	0.992733	20.92	617.2	134	1650	12978626	1.960
ROLD21	NORMAL	8.1	0.564826	18	0.830098	13.50	215.9	135	338	47284	2.110
ROLD21	WET	15.6	0.520688	50	0.995362	13.38	427.3	136	1730	6802945	1.960
ROLD59	ALL	-12.2	0.593205	45	0.976433	30.68	682.5	211	1670	4765039	1.960
ROLD59	DRY	-21.4	0.610705	25	0.977707	32.83	769.4	315	1670	2915536	2.064
ROLD59	WET	11.4	0.542767	20	0.976431	23.72	573.8	211	973	1424617	2.093
RSAC032	ALL	-2468.9	0.759355	20	0.964241	1098.63	35585.0	11400	43200	1014745500	2.093
RSAC032	DRY	-2230.4	0.766123	10	0.713065	1282.31	38480.0	33900	42800	55696000	2.262
RSAC032	WET	-1786.9	0.724318	10	0.992900	609.19	32690.0	11400	43200	791429000	2.262
RSAC040	ALL	-106.8	0.700708	64	0.903563	2215.37	32105.8	6020	43900	5806646761	1.960
RSAC040	DRY	1840.7	0.655699	40	0.770278	2495.64	34732.5	15400	42000	1845807750	1.960
RSAC040	WET	-556.5	0.606140	24	0.974201	1351.88	27727.9	6020	43900	3224876196	2.069
RSAC056	ALL	-164.6	0.678122	140	0.966509	1249.45	19793.6	153	38000	13520088460	1.960
RSAC056	DRY	-124.1	0.683869	63	0.901995	1520.47	26017.9	7440	35800	2775220232	1.960
RSAC056	NORMAL	-298.3	0.726931	19	0.963239	749.04	11747.4	1050	19500	472947768	2.101
RSAC056	WET	-151.8	0.654935	58	0.980631	921.61	15668.6	153	38000	5614160103	1.960
RSAC063	ALL	-169.6	0.665309	54	0.978563	503.76	6356.5	124	18300	1360901919	1.960
RSAC063	DRY	.	.	4	0.953073	453.86	9506.3	7340	12600	15282669	3.182
RSAC063	NORMAL	-402.6	0.721855	19	0.981999	420.07	5341.2	175	16800	314056003	2.101
RSAC063	WET	-73.2	0.652794	31	0.981773	514.65	6572.4	124	18300	970847251	1.960
RSAC068	ALL	-199.5	0.625346	47	0.990446	377.62	7948.6	195	23500	1700961183	1.960

TABLE 4 (CON'T)
EC (UMHOS/CM) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (EC COEFF * EC)

19:18 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC068	DRY	-268.01	0.642721	26	0.990494	404.99	9505.58	327	23500	992932980	2.060
RSAC068	WET	-43.00	0.579469	21	0.997676	152.77	6020.86	195	17000	566959555	2.086
RSAC075	ALL	-60.06	0.614206	138	0.993415	312.87	5929.36	125	21700	5323500446	1.960
RSAC075	DRY	-89.05	0.624258	62	0.988173	407.40	9330.45	228	19500	2135072025	1.960
RSAC075	NORMAL	-17.67	0.587066	19	0.990990	56.59	893.21	171	3760	17323363	2.101
RSAC075	WET	-43.10	0.593224	57	0.997582	163.40	3900.65	125	21700	1739293001	1.960
RSAC084	ALL	-10.78	0.537844	139	0.990956	219.38	3075.94	129	13900	2090688384	1.960
RSAC084	DRY	-12.33	0.593233	63	0.983960	313.06	5006.97	159	13100	1042131258	1.960
RSAC084	NORMAL	7.42	0.580763	19	0.994641	17.22	330.42	132	1750	2773665	2.101
RSAC084	WET	-11.71	0.570394	57	0.998456	73.02	1856.81	129	13900	582926775	1.960
RSAC092	ALL	-1.71	0.559661	140	0.995524	79.29	1307.95	117	10000	616037925	1.960
RSAC092	DRY	2.18	0.554062	62	0.993166	106.70	2103.08	129	7100	323402417	1.960
RSAC092	NORMAL	2.27	0.524246	20	0.914719	7.84	175.15	128	248	34743	2.093
RSAC092	WET	-6.12	0.571423	58	0.998066	49.35	848.60	117	10000	215499662	1.960
RSAC101	ALL	12.16	0.528973	139	0.996419	19.75	415.33	108	3500	53141345	1.960
RSAC101	DRY	14.48	0.523341	62	0.991878	27.41	537.29	125	2100	20100219	1.960
RSAC101	NORMAL	21.13	0.470326	19	0.835985	5.37	151.47	117	198	11279	2.101
RSAC101	WET	11.41	0.532934	58	0.999236	10.90	371.40	108	3500	30672908	1.960
RSAC139	ALL	38.97	0.375404	135	0.703077	10.69	160.90	64	356	263419	1.960
RSAC139	DRY	.	.	63	0.587404	11.97	176.03	118	356	114778	1.960
RSAC139	NORMAL	.	.	21	0.428096	11.00	137.00	100	202	16916	2.086
RSAC139	WET	35.58	0.385575	52	0.831855	7.81	152.21	64	308	101379	1.960
RSAN007	ALL	-11.28	0.569226	140	0.993820	140.89	2482.83	131	12600	1359531186	1.960
RSAN007	DRY	-6.08	0.575395	63	0.991493	176.03	3941.86	203	10800	665442508	1.960
RSAN007	NORMAL	0.25	0.567893	19	0.991536	13.71	311.79	138	1150	1161511	2.101
RSAN007	WET	-16.06	0.550011	58	0.995876	97.50	1609.22	131	12600	424995494	1.960
RSAN018	ALL	14.53	0.524482	138	0.991711	62.08	983.86	128	6490	227969731	1.960
RSAN018	DRY	23.18	0.519732	62	0.987811	78.36	1424.42	148	4540	110536505	1.960
RSAN018	NORMAL	13.70	0.527911	19	0.972621	7.73	219.89	134	516	166660	2.101
RSAN018	WET	8.79	0.529366	57	0.994186	52.15	759.30	128	6490	91269218	1.960
RSAN024	ALL	7.92	0.535695	137	0.986593	52.17	672.94	122	4240	94210168	1.960
RSAN024	DRY	17.14	0.520033	62	0.974285	71.00	940.65	122	2880	42370746	1.960
RSAN024	NORMAL	22.56	0.472408	19	0.841859	7.43	172.00	132	233	21814	2.101
RSAN024	WET	1.47	0.555677	56	0.997408	24.89	546.52	125	4240	41711412	1.960
RSAN035	ALL	21.28	0.496184	138	0.980265	12.03	270.46	121	922	3969784	1.960
RSAN035	DRY	20.95	0.503111	62	0.974243	15.01	326.42	121	780	2021363	1.960
RSAN035	NORMAL	12.21	0.531734	19	0.889997	4.97	160.84	122	232	12005	2.101
RSAN035	WET	25.19	0.476264	57	0.986689	9.07	246.14	121	922	1480249	1.960
RSAN056	ALL	11.52	0.543031	132	0.973304	18.87	526.64	187	1410	5724956	1.960
RSAN056	DRY	3.35	0.562937	61	0.968873	18.93	594.89	242	1075	2076982	1.960
RSAN056	NORMAL	23.76	0.532903	18	0.969409	10.94	432.78	187	620	213507	2.110
RSAN056	WET	14.35	0.522799	53	0.979102	18.14	479.98	204	1410	2876399	1.960
RSAN087	ALL	5.12	0.575156	123	0.979696	33.37	748.04	153	1750	19651223	1.960
RSAN087	DRY	1.59	0.586728	64	0.979478	34.17	918.92	242	1720	10038959	1.960
RSAN087	NORMAL	5.44	0.563139	20	0.985000	13.82	495.15	153	843	699139	2.093
RSAN087	WET	27.39	0.521039	39	0.973655	31.12	597.31	193	1750	4879130	1.960
RSAN112	ALL	-2.67	0.583793	138	0.980632	34.78	742.49	140	1850	24445160	1.960
RSAN112	DRY	5.52	0.583542	64	0.981214	37.65	947.89	263	1850	13478432	1.960
RSAN112	NORMAL	2.53	0.576392	21	0.956527	22.82	495.76	140	778	655182	2.086
RSAN112	WET	6.69	0.550722	53	0.968005	31.77	592.21	217	1740	5136059	1.960

TABLE 4 (CONT)
EC (UMHOS/CM) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (EC COEFF * EC)

19:18 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	EC COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	EC MEAN	EC RANGE MINIMUM	EC RANGE MAXIMUM	EC SUM OF SQRS	T-STATISTIC 95% CONFID
RSMKL09	ALL	.	.	44	0.04095	1537.91	176.34	103	245	56592	1.960
RSMKL09	DRY	4.26	0.581103	22	0.86662	8.46	182.27	137	245	27566	2.080
RSMKL09	WET	.	.	22	0.10245	2131.56	170.41	103	238	27477	2.080
SLDPT07	ALL	9.03	0.566379	46	0.93925	10.47	268.74	188	447	232641	1.960
SLDPT07	DRY	12.35	0.555271	25	0.94025	11.10	272.96	188	447	144749	2.064
SLDPT07	WET	4.01	0.584106	21	0.93857	10.11	263.71	195	433	86916	2.086
SLSUS12	ALL	-208.89	0.635844	62	0.98664	343.19	6592.18	815	16400	1290948831	1.960
SLSUS12	DRY	-366.38	0.662391	22	0.98409	349.40	8288.18	2300	16400	344152327	2.080
SLSUS12	NORMAL	.	.	2	1.00000	.	1500.00	1400	1600	20000	12.706
SLSUS12	WET	-192.94	0.624062	38	0.98812	325.08	5878.29	815	16300	812268314	1.960
SLSYC4	ALL	3.45	0.578339	43	0.95442	9.57	198.91	81	407	235096	1.960
SLSYC4	DRY	6.63	0.566091	22	0.96419	9.06	206.36	125	407	137867	2.080
SLSYC4	WET	-0.20	0.593847	21	0.94214	10.39	191.10	81	334	94724	2.086

TABLE 5
TDS (MG/L) TO EC (UMHOS/CM) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
EC = INTERCEPT + (TDS COEFF * TDS)

19:38 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATISTIC 95% CONFID
CHWST0	ALL	-18.7	1.82529	131	0.965307	56.64	267.4	96	730	3456297	1.960
CHWST0	DRY	-25.4	1.84012	61	0.967669	58.19	301.5	124	730	1765929	1.960
CHWST0	NORMAL	.	.	19	0.393995	73.49	180.6	104	365	79357	2.101
CHWST0	WET	-12.3	1.84177	51	0.992964	26.14	259.0	96	713	1393415	1.960
LBGB2	ALL	-15.0	1.87618	126	0.991513	94.61	443.9	80	2630	36842869	1.960
LBGB2	DRY	-30.5	1.90651	54	0.991526	101.87	643.8	85	2040	17373660	1.960
LBGB2	NORMAL	4.0	1.63456	19	0.820105	26.28	122.8	80	209	20033	2.101
LBGB2	WET	-0.2	1.83384	53	0.989904	100.17	355.5	84	2630	14919117	1.960
LFKT3	ALL	-27.4	1.92042	47	0.992763	29.02	223.7	96	939	1409899	1.960
LFKT3	DRY	-19.5	1.89963	26	0.995571	28.73	250.7	100	939	1234278	2.060
LFKT3	WET	-61.3	2.03159	21	0.976849	26.83	190.2	96	407	133218	2.086
LSBB11	ALL	285.8	1.55644	137	0.968966	1422.83	6132.3	72	16700	3522444736	1.960
LSBB11	DRY	776.4	1.48556	62	0.932497	1834.56	9224.7	188	16500	1264036807	1.960
LSBB11	NORMAL	340.9	1.38502	19	0.951358	537.82	1860.8	116	5800	50135777	2.101
LSBB11	WET	10.1	1.68730	56	0.988952	786.79	4157.9	72	16700	1050406907	1.960
LSBB22	ALL	762.5	1.46114	48	0.937074	1293.82	3176.6	110	14300	537109433	1.960
LSBB22	DRY	664.3	1.45015	27	0.972208	971.69	4003.1	139	14300	392660107	2.056
LSBB22	WET	706.2	1.57421	21	0.833075	1635.06	2114.0	110	7080	102295701	2.086
LSHL1	ALL	91.5	1.67242	43	0.995391	144.20	902.6	104	5290	65829932	1.960
LSHL1	DRY	118.3	1.65925	22	0.998325	106.46	1207.8	131	5290	49612985	2.080
LSHL1	WET	38.1	1.76393	21	0.986788	162.35	582.9	104	3330	12021212	2.086
RMID23	ALL	-26.2	1.87435	92	0.981026	28.45	241.3	114	544	1072422	1.960
RMID23	DRY	-31.7	1.87434	53	0.981507	27.83	254.7	114	544	599313	1.960
RMID23	WET	-23.3	1.89473	39	0.982132	28.21	223.1	121	510	450690	1.960
RMKL028	ALL	-19.3	1.79153	90	0.915543	20.01	71.5	26	190	119024	1.960
RMKL028	DRY	-4.9	1.64772	40	0.864331	24.27	94.5	32	190	52528	1.960
RMKL028	NORMAL	-10.5	1.57078	20	0.874180	11.05	47.5	26	98	6187	2.093
RMKL028	WET	-38.9	2.13408	30	0.935589	15.45	56.9	30	136	21312	2.045
ROLD21	ALL	-27.7	1.89224	130	0.993795	32.94	272.8	88	932	6211598	1.960
ROLD21	DRY	-29.1	1.88803	62	0.992733	39.65	342.3	93	860	3614464	1.960
ROLD21	NORMAL	22.9	1.48392	18	0.838098	21.87	130.1	88	199	17999	2.110
ROLD21	WET	-27.9	1.91163	50	0.995362	25.64	238.1	92	932	1852979	1.960
ROLD59	ALL	36.2	1.64604	45	0.976433	51.10	392.6	126	970	1717243	1.960
ROLD59	DRY	51.5	1.60095	25	0.977707	53.16	448.4	174	970	1112172	2.064
ROLD59	WET	-7.0	1.79899	20	0.976431	43.19	322.8	126	553	429817	2.093
RSAC032	ALL	4405.5	1.26898	20	0.964241	1419.82	24570.5	6510	29800	607620695	2.093
RSAC032	DRY	13117.2	0.93074	10	0.713065	1413.38	27250.0	22200	29800	45845000	2.262
RSAC032	WET	2681.7	1.37031	10	0.992900	838.07	21891.0	6510	29600	418181290	2.262
RSAC040	ALL	3337.0	1.28950	64	0.903563	3005.30	22310.0	2990	30000	3155299200	1.960
RSAC040	DRY	5816.5	1.17474	40	0.770278	3340.43	24614.8	9090	29900	1030261397	1.960
RSAC040	WET	1505.5	1.41983	24	0.974201	1944.68	18468.8	2990	30000	1553438062	2.069
RSAC056	ALL	897.6	1.42527	140	0.966509	1811.40	13257.9	106	24900	6432640883	1.960
RSAC056	DRY	2713.6	1.31896	63	0.901995	2111.58	17668.7	4280	24300	1438926098	1.960
RSAC056	NORMAL	827.1	1.32508	19	0.963239	1011.30	8241.3	580	13800	259456986	2.101
RSAC056	WET	530.8	1.49730	58	0.980631	1393.48	10110.1	106	24900	2455699769	1.960
RSAC063	ALL	385.7	1.47084	54	0.978563	749.03	4059.4	94	12600	615580817	1.960
RSAC063	DRY	.	.	4	0.953073	598.82	5717.5	4540	8200	8779275	3.182
RSAC063	NORMAL	643.8	1.36038	19	0.981999	576.67	3452.9	107	12600	166646325	2.101
RSAC063	WET	229.9	1.50395	31	0.981773	781.16	4217.2	94	12200	421397945	1.960
RSAC068	ALL	392.0	1.58384	47	0.990446	600.96	4771.1	118	15400	671591284	1.960

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC068	DRY	503.386	1.54110	26	0.990494	627.121	5841.42	176	15400	414107128	2.060
RSAC068	WET	88.020	1.72171	21	0.997676	263.324	3445.90	118	10000	190819786	2.086
RSAC075	ALL	136.183	1.61740	138	0.993415	507.707	3581.79	81	13400	2021598179	1.960
RSAC075	DRY	251.309	1.58296	62	0.988173	648.742	5735.56	120	12200	841992203	1.960
RSAC075	NORMAL	37.830	1.68574	19	0.990990	95.821	507.42	81	2340	6041157	2.101
RSAC075	WET	82.300	1.69018	57	0.997532	276.510	2263.88	84	13400	607376538	1.960
RSAC084	ALL	45.983	1.68575	139	0.990956	371.498	1797.40	78	7990	729053877	1.960
RSAC084	DRY	100.837	1.65364	63	0.983960	523.473	2957.92	98	7990	372730353	1.960
RSAC084	NORMAL	-10.937	1.71265	19	0.994641	29.569	199.32	78	1040	940556	2.101
RSAC084	WET	23.362	1.75047	57	0.993456	127.912	1047.40	82	7940	189948266	1.960
RSAC092	ALL	8.895	1.77080	140	0.995524	141.358	730.30	62	5930	193823437	1.960
RSAC092	DRY	10.462	1.79252	62	0.993166	191.921	1167.42	82	4390	99962865	1.960
RSAC092	NORMAL	11.394	1.56564	20	0.914719	12.830	104.60	62	160	12965	2.093
RSAC092	WET	12.328	1.74663	58	0.998066	86.273	478.79	73	5930	70502220	1.960
RSAC101	ALL	-21.413	1.88369	139	0.996419	37.272	231.86	68	1870	14923053	1.960
RSAC101	DRY	-23.070	1.89528	62	0.991878	52.163	295.66	82	1130	5550252	1.960
RSAC101	NORMAL	-12.707	1.77746	19	0.835935	10.432	92.37	70	116	2984	2.101
RSAC101	WET	-21.119	1.87497	58	0.999236	20.450	209.34	68	1870	8718337	1.960
RSAC139	ALL	-26.542	1.89618	136	0.708077	23.955	99.38	62	153	52428	1.960
RSAC139	DRY	.	.	63	0.507404	27.863	107.73	76	146	21171	1.960
RSAC139	NORMAL	.	.	21	0.428096	22.555	86.81	62	120	4019	2.086
RSAC139	WET	-51.169	2.15744	52	0.831855	18.464	94.27	64	153	18118	1.960
RSAN007	ALL	35.032	1.74591	140	0.993320	246.740	1402.01	77	7120	443252696	1.960
RSAN007	DRY	44.001	1.72315	63	0.991493	304.628	2262.05	94	6230	222204221	1.960
RSAN007	NORMAL	2.198	1.74599	19	0.991536	24.048	177.32	77	674	377788	2.101
RSAN007	WET	35.708	1.81065	58	0.995876	176.904	869.03	83	7120	129098520	1.960
RSAN018	ALL	-19.318	1.89084	138	0.991711	117.874	530.54	79	3690	63234292	1.960
RSAN018	DRY	-26.700	1.90062	62	0.987811	149.853	763.50	88	2520	30226729	1.960
RSAN018	NORMAL	-20.704	1.85376	19	0.978621	14.477	129.79	79	291	47461	2.101
RSAN018	WET	-12.094	1.87807	57	0.994186	98.222	410.74	86	3690	25725811	1.960
RSAN024	ALL	-5.560	1.84171	137	0.986590	96.729	368.41	74	2450	27402763	1.960
RSAN024	DRY	-7.922	1.87350	62	0.974285	134.758	506.31	80	1530	11760959	1.960
RSAN024	NORMAL	-12.492	1.75971	19	0.841859	14.245	104.84	74	136	5931	2.101
RSAN024	WET	-1.228	1.79494	56	0.997408	44.743	305.16	79	2450	12912998	1.960
RSAN035	ALL	-36.700	1.97561	138	0.980265	24.001	155.48	70	464	997030	1.960
RSAN035	DRY	-32.165	1.93644	62	0.974243	29.457	185.18	81	435	525175	1.960
RSAN035	NORMAL	-2.746	1.67376	19	0.889997	8.814	97.74	70	138	3814	2.101
RSAN035	WET	-48.918	2.07173	57	0.986689	18.927	142.42	79	464	340290	1.960
RSAN056	ALL	-6.595	1.79235	132	0.973304	34.287	297.51	116	735	1734495	1.960
RSAN056	DRY	12.757	1.72110	61	0.963873	33.102	333.23	146	633	679337	1.960
RSAN056	NORMAL	-29.984	1.81911	18	0.969409	20.204	254.39	116	347	62546	2.110
RSAN056	WET	-16.843	1.87281	53	0.979102	34.331	265.28	124	735	802955	1.960
RSAN087	ALL	6.471	1.70336	123	0.979695	57.424	435.36	79	1020	6635432	1.960
RSAN087	DRY	16.200	1.66939	64	0.979478	57.645	540.75	134	1020	3528320	1.960
RSAN087	NORMAL	-1.997	1.73373	20	0.985000	24.138	286.75	79	474	229106	2.093
RSAN087	WET	-35.456	1.86868	39	0.973655	53.941	338.62	112	963	1360435	1.960
RSAN112	ALL	18.874	1.67976	138	0.980632	59.003	430.78	81	1150	8495793	1.960
RSAN112	DRY	8.522	1.68148	64	0.981214	63.906	558.66	150	1150	4677568	1.960
RSAN112	NORMAL	17.349	1.65951	21	0.956527	38.718	289.29	81	472	227562	2.086
RSAN112	WET	7.191	1.75770	53	0.968005	56.764	332.83	128	975	1609225	1.960

TABLE 5 (CON'T)
TDS (MG/L) TO EC (UMHOS/CM) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
EC = INTERCEPT + (TDS COEFF * TDS)

19:38 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATISTIC 95% CONFID
RSMKL09	ALL	.	.	44	0.04095	35.948	339.95	66	10400	103577960	1.960
RSMKL09	DRY	17.954	1.49134	22	0.86662	13.559	110.18	81	156	10741	2.080
RSMKL09	WET	.	.	22	0.10245	35.116	569.73	66	10400	101244216	2.080
SLDPT07	ALL	1.349	1.65835	46	0.93925	17.922	161.24	111	268	79454	1.960
SLDPT07	DRY	-4.609	1.69332	25	0.94025	19.391	163.92	111	268	47466	2.064
SLDPT07	WET	9.756	1.60685	21	0.93857	16.764	158.05	122	250	31595	2.086
SLSUS12	ALL	412.195	1.55170	62	0.98664	536.126	3982.71	621	10100	528994293	1.960
SLSUS12	DRY	676.199	1.43566	22	0.98409	523.263	5123.64	1220	9970	153442509	2.080
SLSUS12	NORMAL	.	.	2	1.00000	.	1070.00	960	1180	24200	12.706
SLSUS12	WET	375.354	1.58336	38	0.98312	517.802	3475.47	621	10100	320145169	1.960
SLSYC4	ALL	3.367	1.65029	43	0.95442	16.166	118.49	57	239	82389	1.960
SLSYC4	DRY	-3.910	1.70325	22	0.96419	15.710	123.45	76	239	45821	2.080
SLSYC4	WET	11.367	1.58650	21	0.94214	16.984	113.29	57	206	35456	2.086

TABLE 6
CHLORIDE (MG/L) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (CL COEFF * CHLORIDE)

19:47 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
CHWST0	ALL	105.82	2.08475	132	0.940943	39.68	77.1	13.0	321.0	750452	1.960
CHWST0	DRY	109.53	2.01358	62	0.956665	35.89	94.2	17.0	321.0	420869	1.960
CHWST0	NORMAL	.	.	19	0.332677	55.81	34.1	13.0	75.0	4738	2.101
CHWST0	WET	98.63	2.21558	51	0.952450	36.77	72.4	13.0	300.0	270364	1.960
LBGB2	ALL	93.25	1.85815	127	0.990021	54.75	192.3	6.7	1280.0	10767862	1.960
LBGB2	DRY	102.66	1.82878	55	0.983126	75.25	302.3	8.9	1100.0	5227673	1.960
LBGB2	NORMAL	80.72	1.96131	19	0.765522	16.62	21.5	6.7	62.0	3987	2.101
LBGB2	WET	92.21	1.88819	53	0.996039	34.04	139.4	10.0	1280.0	4167989	1.960
LFKT3	ALL	99.23	1.88473	47	0.986405	20.64	66.0	10.0	444.0	391511	1.960
LFKT3	DRY	97.69	1.88936	26	0.991331	21.11	81.0	10.0	444.0	342769	2.060
LFKT3	WET	101.43	1.86865	21	0.937152	20.99	47.5	11.0	158.0	35753	2.086
LSBB11	ALL	249.72	1.78730	138	0.975190	805.91	3315.4	6.9	9200.0	1086245491	1.950
LSBB11	DRY	443.58	1.75795	63	0.941222	1107.68	5022.9	46.0	8780.0	387815462	1.960
LSBB11	NORMAL	259.48	1.75240	19	0.935001	437.83	913.8	9.4	2920.0	15264799	2.101
LSCB11	WET	132.03	1.79353	56	0.990871	421.40	2209.4	6.9	9200.0	321406634	1.960
LSBB22	ALL	280.30	1.79195	48	0.913908	1002.61	1616.3	12.0	7340.0	152867180	1.960
LSBB22	DRY	403.78	1.75806	27	0.884183	1348.73	2047.3	20.0	7340.0	112328960	2.056
LSBB22	WET	124.24	1.87339	21	0.997442	117.36	1062.1	12.0	3840.0	29073005	2.086
LSHL1	ALL	100.20	1.87010	43	0.998710	45.51	427.3	9.0	2850.0	18639210	1.960
LSHL1	DRY	105.15	1.87023	22	0.993887	52.55	589.6	16.0	2850.0	14168427	2.080
LSHL1	WET	91.32	1.91135	21	0.997905	36.40	257.2	9.0	1660.0	3283657	2.086
RMID23	ALL	110.12	1.99752	92	0.930883	28.70	65.7	16.0	227.0	250194	1.960
RMID23	DRY	114.03	1.94579	53	0.949867	24.27	72.3	20.0	227.0	150357	1.960
RMID23	WET	105.30	2.07844	39	0.904474	34.11	56.7	16.0	215.0	94362	1.960
RMKL028	ALL	27.77	7.72388	89	0.771616	17.67	5.7	0.3	18.0	1539	1.960
RMKL028	DRY	38.62	7.13830	40	0.703958	20.06	7.8	0.4	18.0	731	1.960
RMKL028	NORMAL	.	.	20	0.357277	14.86	2.9	0.3	7.1	43	2.093
RMKL028	WET	26.13	6.57754	29	0.806189	12.26	4.6	1.8	16.0	390	2.048
ROLD21	ALL	96.06	1.97678	131	0.982648	29.07	90.4	7.0	428.0	1579426	1.960
ROLD21	DRY	100.60	1.95642	63	0.982353	32.50	105.1	9.4	410.0	937236	1.960
ROLD21	NORMAL	64.08	3.35477	18	0.777355	15.81	19.7	7.0	42.0	1244	2.110
ROLD21	WET	94.35	1.99013	50	0.980030	27.77	72.2	9.0	428.0	458507	1.960
ROLD59	ALL	89.23	3.15449	45	0.954349	42.70	96.2	20.0	338.0	164695	1.960
ROLD59	DRY	106.57	3.03612	25	0.930949	54.38	112.6	35.0	338.0	113274	2.064
ROLD59	WET	63.97	3.42210	20	0.987680	17.15	75.6	20.0	147.0	36251	2.093
RSAC032	ALL	366.43	1.86479	20	0.970396	999.67	12979.5	3420.0	16200.0	169558895	2.093
RSAC032	DRY	2818.86	1.70489	10	0.845846	939.89	14330.0	11800.0	16200.0	13341000	2.262
RSAC032	WET	420.75	1.84627	10	0.976040	1119.14	11629.0	3420.0	16100.0	119740890	2.262
RSAC040	ALL	470.47	1.85760	65	0.967863	1274.64	11802.3	1560.0	16300.0	893335154	1.960
RSAC040	DRY	355.58	1.86692	41	0.926252	1402.47	13035.9	5040.0	15800.0	276426195	1.960
RSAC040	WET	534.41	1.84905	24	0.983579	1078.54	9695.0	1560.0	16300.0	447944000	2.069
RSAC056	ALL	881.94	1.74789	141	0.928989	1827.71	7122.4	12.0	14700.0	1988300275	1.960
RSAC056	DRY	706.15	1.78970	64	0.941630	1177.83	9529.7	2190.0	13100.0	433199394	1.960
RSAC056	NORMAL	.	.	19	0.477991	2822.59	4300.7	274.0	7170.0	84669644	2.101
RSAC056	WET	930.49	1.70291	58	0.914379	1937.69	5390.5	12.0	14700.0	774312468	1.960
RSAC063	ALL	518.95	1.67413	54	0.794126	1561.14	2114.8	8.8	7100.0	174420224	1.960
RSAC063	DRY	.	.	4	0.999217	58.62	3340.0	2620.0	4950.0	3657800	3.182
RSAC063	NORMAL	.	.	19	0.296410	2626.23	1567.0	11.0	4060.0	25870264	2.101
RSAC063	WET	137.36	1.77965	31	0.993645	303.89	2292.5	8.8	7100.0	132207085	1.960
RSAC068	ALL	225.47	1.79412	47	0.954799	821.33	2533.6	15.0	7640.0	199211393	1.960

TABLE 6 (CON'T)
CHLORIDE (MG/L) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (CL COEFF * CHLORIDE)

19:47 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC068	DRY	255.775	1.77800	26	0.930506	1095.03	3141.54	39.0	7640	121890360	2.060
RSAC068	WET	164.994	1.84222	21	0.992698	270.81	1780.95	15.0	5380	55815667	2.086
RSAC075	ALL	170.699	1.79535	145	0.983439	491.36	1947.73	7.5	7700	636062820	1.960
RSAC075	DRY	264.897	1.78536	69	0.964694	682.90	3042.77	21.0	6650	267843914	1.960
RSAC075	NORMAL	80.795	1.84133	19	0.999334	15.38	231.69	9.2	1220	1780609	2.101
RSAC075	WET	162.625	1.75958	57	0.995971	210.94	1194.18	7.5	7700	195381914	1.960
RSAC084	ALL	111.645	1.83660	140	0.992204	205.64	935.10	6.5	4400	220191200	1.960
RSAC084	DRY	130.256	1.85532	64	0.987824	274.35	1551.64	18.0	4100	109988189	1.960
RSAC084	NORMAL	78.055	2.02136	19	0.997542	11.66	59.99	6.5	472	229629	2.101
RSAC084	WET	112.288	1.74932	57	0.998037	82.34	534.56	6.9	4400	61950345	1.960
RSAC092	ALL	109.520	1.73085	141	0.954648	254.49	367.55	4.3	3200	63252645	1.960
RSAC092	DRY	159.884	1.66200	63	0.916893	374.48	622.77	8.4	2720	34161802	1.960
RSAC092	NORMAL	67.904	2.63622	20	0.849106	10.43	13.92	4.3	32	1584	2.093
RSAC092	WET	90.839	1.82770	58	0.999084	33.97	212.26	4.7	3200	21086035	1.960
RSAC101	ALL	86.401	1.92167	139	0.997034	18.26	78.79	3.0	950	4160200	1.960
RSAC101	DRY	89.866	1.95791	63	0.995640	18.12	110.35	6.9	519	1549878	1.960
RSAC101	NORMAL	.	.	19	0.536606	9.02	7.88	3.6	13	87	2.101
RSAC101	WET	83.609	1.88612	57	0.993619	14.79	67.55	3.0	950	2444748	1.960
RSAC139	ALL	.	.	139	0.463452	14.37	7.31	1.5	18	1105	1.960
RSAC139	DRY	.	.	64	0.349952	14.96	7.96	4.1	18	434	1.960
RSAC139	NORMAL	.	.	21	0.366760	11.57	6.12	2.9	12	107	2.086
RSAC139	WET	.	.	54	0.554251	12.50	6.99	1.5	16	501	1.960
RSAN007	ALL	147.801	1.74783	141	0.979235	260.75	731.61	8.4	4400	145888152	1.960
RSAN007	DRY	211.660	1.73997	64	0.963909	364.99	1201.73	15.0	3610	72861882	1.960
RSAN007	NORMAL	74.879	1.92797	19	0.994837	10.71	53.13	8.5	307	101111	2.101
RSAN007	WET	133.446	1.69053	58	0.994741	110.11	435.12	8.4	4400	44935325	1.960
RSAN018	ALL	99.541	1.83441	140	0.994160	52.29	237.50	7.4	2000	19087210	1.960
RSAN018	DRY	100.775	1.83743	63	0.992465	61.83	358.08	11.0	1310	9097783	1.960
RSAN018	NORMAL	76.790	2.03774	20	0.942212	12.48	25.18	7.4	104	11015	2.093
RSAN018	WET	105.514	1.82023	57	0.994872	48.98	167.68	8.5	2000	7724773	1.960
RSAN024	ALL	88.716	1.91139	138	0.987519	50.90	149.79	5.9	1200	7629953	1.960
RSAN024	DRY	94.541	1.91703	63	0.976294	69.28	221.20	6.9	798	3280909	1.960
RSAN024	NORMAL	.	.	19	0.635149	11.28	13.52	5.9	28	837	2.101
RSAN024	WET	86.762	1.88797	56	0.996197	30.16	115.68	8.0	1200	3608942	1.960
RSAN035	ALL	85.232	2.03808	139	0.955622	18.01	34.71	4.5	192	230419	1.960
RSAN035	DRY	89.421	2.00916	63	0.957083	19.25	47.96	5.4	180	124850	1.960
RSAN035	NORMAL	.	.	19	0.699224	8.21	10.94	4.5	21	209	2.101
RSAN035	WET	86.574	1.99605	57	0.943142	17.91	27.98	7.5	192	80981	1.960
RSAN056	ALL	82.719	2.71135	133	0.883635	40.22	80.04	19.0	260	218901	1.960
RSAN056	DRY	84.181	2.71376	62	0.795046	50.39	95.13	23.0	198	80233	1.960
RSAN056	NORMAL	84.069	2.68925	18	0.892416	20.51	63.33	25.0	97	7718	2.110
RSAN056	WET	82.629	2.68385	53	0.934735	32.06	68.06	19.0	260	104199	1.960
RSAN087	ALL	87.323	3.00543	124	0.945520	54.44	115.72	15.0	312	694687	1.960
RSAN087	DRY	100.042	2.95933	64	0.936241	60.24	148.92	22.0	312	377199	1.960
RSAN087	NORMAL	64.041	3.28238	20	0.765333	54.65	67.85	16.0	123	16275	2.093
RSAN087	WET	87.187	2.92474	40	0.944912	44.48	86.52	15.0	306	150738	1.960
RSAN112	ALL	95.496	2.93659	139	0.954787	52.95	114.25	15.0	383	940746	1.960
RSAN112	DRY	130.396	2.78600	64	0.945567	64.08	153.72	26.0	383	569837	1.960
RSAN112	NORMAL	64.241	3.24702	21	0.847576	42.73	69.00	15.0	121	18294	2.086
RSAN112	WET	72.322	3.09025	54	0.963137	33.95	85.07	19.0	295	163952	1.960

TABLE 6 (CON'T)
CHLORIDE (MG/L) TO TDS (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
TDS = INTERCEPT + (CL COEFF * CHLORIDE)

19:47 THURSDAY, MARCH 20, 1986

RKI STATION	YEAR TYPE	INTERCEPT	CL COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	CL MEAN	CL RANGE MINIMUM	CL RANGE MAXIMUM	CL SUM OF SQRS	T-STATISTIC 95% CONFID
RSMKL09	ALL	86.370	1.92424	44	0.99989	16.332	131.78	5	5360	27970587	1.960
RSMKL09	DRY	.	.	22	0.63713	13.960	10.93	7	23	359	2.080
RSMKL09	WET	83.457	1.92475	22	0.99995	15.516	252.64	5	5360	27327548	2.080
SLDPT07	ALL	78.289	3.17977	46	0.84314	16.830	26.09	12	68	6626	1.960
SLDPT07	DRY	84.205	2.93069	25	0.82911	18.780	27.20	14	68	4582	2.064
SLDPT07	WET	64.351	3.78339	21	0.89537	13.190	24.76	12	50	1976	2.086
SLSUS12	ALL	89.684	1.87905	61	0.98010	422.115	2079.51	206	5250	146620111	1.960
SLSUS12	DRY	156.683	1.89736	22	0.99123	259.463	2617.14	552	5250	42227037	2.080
SLSUS12	NORMAL	.	.	2	1.00000	.	440.00	400	480	3200	12.706
SLSUS12	WET	59.774	1.85335	37	0.97337	493.471	1848.46	206	5190	90679741	1.960
SLSYC4	ALL	60.996	3.53266	43	0.84724	17.521	16.27	4	52	5593	1.960
SLSYC4	DRY	62.329	3.23492	22	0.92084	13.467	18.90	8	52	4032	2.080
SLSYC4	WET	47.041	4.89664	21	0.84651	16.924	13.53	4	30	1252	2.086

TABLE 7
TDS (MG/L) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLORIDE = INTERCEPT + (TDS COEFF * TDS)

18:30 FRIDAY, MARCH 28, 1986

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATIST 95% CONFI
CHWST0	ALL	-43.21	0.451346	132	0.940943	18.46	266.6	96	730	3466299	1.960
CHWST0	DRY	-47.95	0.475106	62	0.956665	17.43	299.3	124	730	1783717	1.960
CHWST0	NORMAL	.	.	19	0.332677	13.64	180.6	104	365	79357	2.101
CHWST0	WET	-38.96	0.429888	51	0.952450	16.20	259.0	96	713	1393415	1.960
LBGB2	ALL	-47.76	0.532800	127	0.990021	29.32	450.6	80	2630	37553057	1.960
LBGB2	DRY	-50.09	0.537596	55	0.983126	40.80	655.5	85	2040	17783694	1.960
LBGB2	NORMAL	-26.47	0.390312	19	0.765522	7.42	122.8	80	209	20033	2.101
LBGB2	WET	-48.09	0.527509	53	0.996039	17.99	355.5	84	2630	14919117	1.960
LFKT3	ALL	-51.03	0.523366	47	0.986405	10.88	223.7	96	939	1409899	1.960
LFKT3	DRY	-50.55	0.524691	26	0.991331	11.13	250.7	100	939	1234278	2.060
LFKT3	WET	-47.88	0.501512	21	0.937152	10.87	190.2	96	407	133218	2.086
LSBB11	ALL	-53.96	0.545470	138	0.975190	445.16	6177.0	72	16700	3560209255	1.960
LSBB11	DRY	57.74	0.535409	63	0.941222	611.30	9273.5	188	16500	1273344198	1.960
LSBB11	NORMAL	-79.05	0.533553	19	0.935001	241.59	1860.8	116	5800	50135777	2.101
LSBB11	WET	-80.06	0.550627	56	0.990871	233.10	4157.9	72	16700	1050406907	1.960
LSBB22	ALL	-3.80	0.510008	48	0.913908	534.88	3176.6	110	14300	537109433	1.960
LSBB22	DRY	34.04	0.502931	27	0.884183	721.38	4003.1	139	14300	392660107	2.056
LSBB22	WET	-63.43	0.532427	21	0.997442	62.56	2114.0	110	7080	102295701	2.086
LSHL1	ALL	-52.73	0.531767	43	0.998710	24.22	902.6	104	5290	65829982	1.960
LSHL1	DRY	-55.50	0.534098	22	0.993887	28.08	1207.8	131	5290	49612985	2.080
LSHL1	WET	-47.14	0.522095	21	0.997905	19.03	592.9	104	3330	12021212	2.086
RMID23	ALL	-46.78	0.466018	92	0.930883	13.86	241.3	114	544	1072422	1.960
RMID23	DRY	-52.04	0.488165	53	0.949867	12.16	254.7	114	544	599313	1.960
RMID23	WET	-40.41	0.435169	39	0.904474	15.61	223.1	121	510	450690	1.960
RMKL028	ALL	-1.48	0.099900	89	0.771616	2.01	71.5	26	190	119004	1.960
RMKL028	DRY	-1.56	0.099318	40	0.708958	2.37	94.5	32	190	52528	1.960
RMKL028	NORMAL	.	.	20	0.357277	1.24	47.5	26	98	6187	2.093
RMKL028	WET	-2.31	0.122567	29	0.806109	1.67	56.3	30	136	20936	2.048
ROLD21	ALL	-46.18	0.497095	131	0.982648	14.58	274.8	88	932	6280851	1.960
ROLD21	DRY	-48.31	0.502118	63	0.982353	16.47	345.4	93	860	3651781	1.960
ROLD21	NORMAL	-10.49	0.231865	18	0.777855	4.16	130.1	88	199	17999	2.110
ROLD21	WET	-45.02	0.492445	50	0.980030	13.81	238.1	92	932	1852979	1.960
ROLD59	ALL	-22.60	0.302536	45	0.954349	13.22	392.6	126	970	1717243	1.960
ROLD59	DRY	-26.07	0.309227	25	0.938849	17.35	448.4	174	970	1112172	2.064
ROLD59	WET	-17.53	0.288618	20	0.987680	4.98	322.8	126	553	429817	2.093
RSAC032	ALL	193.57	0.520377	20	0.970396	528.08	24570.5	6510	29800	607620695	2.093
RSAC032	DRY	810.50	0.496128	10	0.845846	507.02	27250.0	22200	29800	45845000	2.262
RSAC032	WET	56.20	0.528655	10	0.976040	598.86	21891.0	6510	29600	418181290	2.262
RSAC040	ALL	134.17	0.521028	65	0.967863	675.06	22394.5	2990	30000	3184975606	1.960
RSAC040	DRY	784.95	0.496140	41	0.926252	722.99	24692.4	9090	29900	1040159756	1.960
RSAC040	WET	-124.95	0.531706	24	0.983579	578.23	18468.8	2990	30000	1558438062	2.069
RSAC056	ALL	37.03	0.531491	141	0.928989	1007.85	13331.2	106	24900	6538842207	1.960
RSAC056	DRY	184.71	0.526139	64	0.941630	638.62	17761.4	4280	24300	1473556373	1.960
RSAC056	NORMAL	.	.	19	0.477991	1612.42	8241.3	580	13800	259456986	2.101
RSAC056	WET	-38.08	0.536950	58	0.914379	1088.06	10110.1	106	24900	2455699769	1.960
RSAC063	ALL	189.23	0.474352	54	0.794126	830.99	4059.4	94	12600	615580817	1.960
RSAC063	DRY	.	.	4	0.999217	37.84	5717.5	4540	8200	8779275	3.182
RSAC063	NORMAL	.	.	19	0.296410	1034.75	3452.9	107	12600	166646325	2.101
RSAC063	WET	-62.13	0.558337	31	0.993645	170.21	4217.2	94	12200	421397945	1.960
RSAC068	ALL	-5.47	0.532182	47	0.954799	447.33	4771.1	118	15400	671591284	1.960

TABLE 7 (CON'T)
TDS (MG/L) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLORIDE = INTERCEPT + (TDS COEFF * TDS)

18:30 FRIDAY, MARCH 28, 1986

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATISTIC 95% CONFID
RSAC068	DRY	84.461	0.523345	26	0.930506	594.092	5841.42	176	15400	414107128	2.060
RSAC068	WET	-75.903	0.538859	21	0.992698	146.464	3445.90	118	10000	190819786	2.086
RSAC075	ALL	-61.248	0.547769	145	0.983439	271.407	3667.57	81	13400	2084740502	1.960
RSAC075	DRY	-35.705	0.540337	69	0.964694	375.690	5697.32	120	12200	884996627	1.960
RSAC075	NORMAL	-43.695	0.542725	19	0.999334	8.351	507.42	81	2340	6041157	2.101
RSAC075	WET	-87.238	0.566026	57	0.995971	119.638	2263.88	84	13400	607376538	1.960
RSAC084	ALL	-53.025	0.540240	140	0.992204	111.532	1829.06	78	7990	748561516	1.960
RSAC084	DRY	-50.459	0.532428	64	0.987824	146.970	3009.05	98	7990	383269567	1.960
RSAC084	NORMAL	-38.373	0.493499	19	0.997542	5.763	199.32	78	1040	940556	2.101
RSAC084	WET	-63.014	0.570529	57	0.998037	47.022	1047.40	82	7940	189948266	1.960
RSAC092	ALL	-43.737	0.551548	141	0.954648	143.659	745.69	62	5930	198497648	1.960
RSAC092	DRY	-36.442	0.551675	63	0.916883	215.750	1194.92	82	4390	102917053	1.960
RSAC092	NORMAL	-19.771	0.322092	20	0.849106	3.644	104.60	62	160	12965	2.093
RSAC092	WET	-49.461	0.546634	58	0.999084	18.576	478.79	73	5930	70502220	1.960
RSAC101	ALL	-44.594	0.518838	139	0.997034	9.490	237.81	68	1870	15408535	1.960
RSAC101	DRY	-45.374	0.509032	63	0.996640	9.239	305.92	82	1130	5961375	1.960
RSAC101	NORMAL	.	.	19	0.536606	1.542	92.37	70	116	2984	2.101
RSAC101	WET	-44.174	0.529457	57	0.998619	7.834	211.02	68	1870	8709087	1.960
RSAC139	ALL	.	.	139	0.463452	2.081	99.18	62	153	52733	1.960
RSAC139	DRY	.	.	64	0.349952	2.134	107.58	76	146	21332	1.960
RSAC139	NORMAL	.	.	21	0.366760	1.889	86.81	62	120	4019	2.086
RSAC139	WET	.	.	54	0.554251	2.073	94.04	64	153	18226	1.960
RSAN007	ALL	-67.614	0.560258	141	0.979235	147.629	1426.54	77	7120	455125555	1.960
RSAN007	DRY	-73.884	0.553981	64	0.963909	205.947	2302.64	94	6230	228884119	1.960
RSAN007	NORMAL	-38.364	0.516001	19	0.994837	5.541	177.32	77	674	377788	2.101
RSAN007	WET	-76.234	0.588421	58	0.994741	64.959	869.03	83	7120	129098520	1.960
RSAN018	ALL	-52.559	0.541950	140	0.994160	28.422	535.22	79	3690	64606972	1.960
RSAN018	DRY	-51.523	0.540138	63	0.992465	33.523	777.10	88	2520	30948677	1.960
RSAN018	NORMAL	-34.051	0.462381	20	0.942212	5.947	128.10	79	291	48546	2.093
RSAN018	WET	-56.810	0.546565	57	0.994872	26.838	410.74	86	3690	25725811	1.960
RSAN024	ALL	-43.965	0.516649	138	0.987519	26.462	375.01	74	2450	28227740	1.960
RSAN024	DRY	-42.904	0.509276	63	0.976294	35.708	518.59	80	1530	12350059	1.960
RSAN024	NORMAL	.	.	19	0.635149	4.239	104.84	74	136	5931	2.101
RSAN024	WET	-45.341	0.527654	56	0.996197	15.943	305.16	79	2450	12912998	1.960
RSAN035	ALL	-38.424	0.468883	139	0.955622	8.639	155.96	70	464	1001557	1.960
RSAN035	DRY	-40.538	0.476361	63	0.957083	9.372	185.78	81	435	526583	1.960
RSAN035	NORMAL	.	.	19	0.699224	1.924	97.74	70	138	3814	2.101
RSAN035	WET	-39.672	0.475010	57	0.948142	8.738	142.42	79	464	340290	1.960
RSAN056	ALL	-17.645	0.325902	133	0.883635	13.944	299.73	116	735	1821154	1.960
RSAN056	DRY	-5.165	0.292968	62	0.795046	16.555	342.34	146	633	743198	1.960
RSAN056	NORMAL	-21.084	0.331845	18	0.892416	7.204	254.39	116	347	62546	2.110
RSAN056	WET	-24.337	0.348281	53	0.934735	11.547	265.28	124	735	802955	1.960
RSAN087	ALL	-21.168	0.314603	124	0.945520	17.613	435.10	79	1020	6636408	1.960
RSAN087	DRY	-22.155	0.316370	64	0.936241	19.695	540.75	134	1020	3528320	1.960
RSAN087	NORMAL	0.990	0.233164	20	0.765333	14.566	286.75	79	474	229106	2.093
RSAN087	WET	-23.401	0.323075	40	0.944912	14.782	340.25	112	963	1364603	1.960
RSAN112	ALL	-25.883	0.325134	139	0.954787	17.620	431.01	81	1150	8496761	1.960
RSAN112	DRY	-35.889	0.339400	64	0.945567	22.367	558.66	150	1150	4677568	1.960
RSAN112	NORMAL	-6.252	0.261032	21	0.847576	12.114	288.29	81	472	227562	2.086
RSAN112	WET	-19.405	0.311670	54	0.963137	10.781	335.22	128	975	1625601	1.960

TABLE 7 (CON'T)
TDS (MG/L) TO CHLORIDE (MG/L) CONVERSION
DWR D1485 GRAB SAMPLE DATA (1968 - 81)
CHLORIDE = INTERCEPT + (TDS COEFF * TDS)

18:30 FRIDAY, MARCH 28, 1986

RKI STATION	YEAR TYPE	INTERCEPT	TDS COEFF	SAMPLE SIZE	R SQUARE	ROOT MEAN SQR ERROR	TDS MEAN	TDS RANGE MINIMUM	TDS RANGE MAXIMUM	TDS SUM OF SQRS	T-STATISTIC 95% CONFID
RSMKL09	ALL	-44.866	0.519629	44	0.99989	8.487	339.95	66	10400	103577960	1.960
RSMKL09	DRY	.	.	22	0.63713	2.552	110.18	81	156	10741	2.080
RSMKL09	WET	-43.346	0.519523	22	0.99995	8.061	569.73	66	10400	101244216	2.080
SLDPT07	ALL	-16.667	0.265159	46	0.84314	4.860	161.24	111	268	79454	1.960
SLDPT07	DRY	-19.174	0.282907	25	0.82911	5.835	163.92	111	268	47466	2.064
SLDPT07	WET	-12.637	0.236628	21	0.89537	3.299	158.05	122	250	31595	2.086
SLSUS12	ALL	-5.390	0.521592	61	0.98010	222.396	3997.18	621	10100	528202343	1.960
SLSUS12	DRY	-58.869	0.522286	22	0.99123	136.113	5123.64	1220	9970	153442509	2.080
SLSUS12	NORMAL	.	.	2	1.00000	.	1070.00	960	1180	24200	12.706
SLSUS12	WET	17.840	0.525192	37	0.97337	262.689	3485.62	621	10100	320000379	1.960
SLSYC4	ALL	-12.143	0.239829	43	0.84724	4.565	118.49	57	239	82389	1.960
SLSYC4	DRY	-16.247	0.284656	22	0.92084	3.995	123.45	76	239	45821	2.080
SLSYC4	WET	-6.056	0.172876	21	0.84651	3.180	113.29	57	206	35456	2.086