

REPORT OF
ANALYTICAL EVALUATION PROGRAM
STANDARD REFERENCE WATER SAMPLES NUMBERS 36 AND 37

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
Lakewood, Colorado
July 1972

STANDARD REFERENCE WATER SAMPLES NUMBERS 36 AND 37

PURPOSE AND PLAN

As a means of providing an independent and objective evaluation of the water-quality data published by the U.S. Geological Survey and other cooperating laboratories, standard reference water samples are prepared and distributed at regular intervals. This report summarizes the analytical results submitted by 34 laboratories for Standard Reference Water Samples numbers 36 and 37 distributed on May 30, 1972.

The "Instructions for Analysis and Reporting Results" specified only that the pH and/or alkalinity determinations be performed first. No other required order of performing the determinations, nor restriction on methods and equipment was given. This program operates as a quality-control tool to enable each laboratory to detect deficiencies. Participating laboratories are identified in this report by a pre-assigned code number.

PREPARATION OF SAMPLES

Approximately 150 gallons of each sample was collected. Thymol was added to both samples and each sample was then filtered through a 0.45- μ m membrane filter into a large polyethylene drum. Each sample was mixed overnight with a motor-driven stirrer, pumped through an ultraviolet (2537A) sterilizer and packaged in sterile teflon bottles under ultraviolet radiation.

DETERMINATIONS

Silica (SiO ₂)	Fluoride (F)
Calcium (Ca)	Nitrate (as N)
Magnesium (Mg)	Boron (B)*
Sodium (Na)	Specific conductance (μ mhos/cm at 25°C)
Potassium (K)	pH
Bicarbonate (HCO ₃)	Strontium (Sr)
Carbonate (CO ₃)	Arsenic (As)*
Sulfate (SO ₄)	
Chloride (Cl)	

*Determined on Sample No. 36 only.

PARTICIPATING LABORATORIES

U.S. Geological Survey

ALABAMA, Tuscaloosa	NEW YORK, Albany
ALASKA, Anchorage	NORTH CAROLINA, Raleigh
ARKANSAS, Little Rock	OHIO, Columbus
CALIFORNIA, Menlo Park	OKLAHOMA, Oklahoma City
DISTRICT COLUMBIA, Washington	PUERTO RICO, San Juan
FLORIDA, Miami	TEXAS, Austin
FLORIDA, Ocala	TEXAS, Fort Worth
HAWAII, Honolulu	UTAH, Salt Lake City
LOUISIANA, Baton Rouge	VIRGINIA, Charlottesville

Other

- ALABAMA, Tuscaloosa: State Geological Survey
- ARIZONA, Tucson: University of Arizona, Agri. Science
- COLORADO, Denver: Board of Water Commissioners, WQ Lab
- GEORGIA, Athens: State University College of Agriculture
- GEORGIA, Atlanta: State Water-Quality Control Board
- KANSAS, Lawrence: State Geological Survey
- KANSAS, Topeka: State Department of Health
- MONTANA, Butte: State Bureau of Mines and Geology
- NEW ZEALAND, Petone: Department of Sci. & Indus. Research
- NORTH DAKOTA, Bismarck: State Water Conservation Commission
- PENNSYLVANIA, West Chester: County Health Department
- SOUTH CAROLINA, Columbia: State Pollution Control Authority
- SOUTH DAKOTA, Brookings: State University, WQ Laboratory
- TENNESSEE, Chattanooga: Tennessee Valley Authority
- WASHINGTON, Olympia: State Department of Ecology
- WYOMING, Laramie: State Department of Agriculture

STATISTICAL EVALUATION

A statistical analysis of the data has established the most reliable estimate of the true value for each of the various determinations reported. Mathematical calculations are the same as those used previously.

The mean, average deviation, percent deviation from the mean, standard deviation, and total range were calculated for each determination. Confidence limits about the mean were also calculated in order to define the concentration range within which the true value may be expected to fall with a confidence level of 95 percent. Outlying values were rejected on the basis of statistical tests as outlined in ASTM Recommended Practice for Dealing with Outlying Observations (1969 Book of ASTM Standards, Part 30, p. 429-445).

REPORTED VALUES

The following section shows the reported value for each determination by each participating laboratory, and a graphical presentation of each reported value and the frequency of its occurrence. Each reported value has been rounded off, when necessary, to conform to official USGS policy on reporting analytical data. A few extreme values are not shown on the scale.

A summary shows the number of laboratories reporting values for each determination and the percentage of values rejected. The percentages of unrejected values falling within the 95-percent confidence interval, within one standard deviation ($\bar{X} \pm \text{STD}$), and within two standard deviations ($\bar{X} \pm 2 \text{ STD}$) are also given.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	5.0	10.4	TECHNICON AUTOANALYZER, MOLYBDSILICATE
6-72	2	2.9	35.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	5.6	23.7	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	4	3.0	33.7	MOLYBDSILICATE, APHA STD METH, 13ED, 1971
7-72	5	4.7	3.8	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	6	4.9	8.2	TECHNICON AUTOANALYZER, MOLYBDSILICATE
7-72	7	4.4	2.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	8	4.8	6.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	9	4.7	3.8	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	10			NOT DETERMINED
6-72	11	4.2	7.2	HETEROPOLY BLUE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	5.0	10.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	15	5.0	10.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	16	4.9	6.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	17	4.4	2.8	TECHNICON AUTOANALYZER, MOLYBDSILICATE
7-72	18	5.5	21.5	OTHER
7-72	19	3.9	13.9	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	20	5.0	10.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	21	3.5	22.7	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	22	3.8	16.1	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	23	4.6	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	26			NOT DETERMINED
7-72	27	4.3	5.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	4.3	5.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	4.3	5.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	30	4.9	8.2	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	31	4.6	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	4.5	0.6	MOLYBDSILICATE, APHA STD METH, 13ED, 1971
6-72	34	5.2	14.9	MOLYBDSILICATE, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	4.9	8.2	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	37	4.6	1.6	TECHNICON AUTOANALYZER, AMINONAPHTHOLSULFONIC ACID

TOTAL RANGE 2.9000 - 5.6000 SAMPLE 36
 MEAN 4.5276 AVERAGE DEVIATION 0.4711
 STANDARD DEVIATION 0.6363 95 PCT.CONF.INTVL OF MEAN 4.5276 +OR- 0.2420 SIO2

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	69	11.7		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	59	4.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	120	94.3	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	58	6.1		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	63	2.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	62	0.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	61	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	8	58	6.1		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	58	6.1		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	60	2.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	64	3.6		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
6-72	12	62	0.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	62	0.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	63	2.0		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	16	64	3.6		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	60	2.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	55	10.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	63	2.0		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
7-72	20	62	0.4		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
7-72	21	64	3.6		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	22	64	3.6		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	23	61	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	60	2.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	64	3.6		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	28	62	0.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	62	0.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	30	66	6.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	63	2.0		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED	
6-72	33	62	0.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	34	62	0.4		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
6-72	35	57	7.7		OTHER
6-72	36	62	0.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	37	64	3.6		COMPLEXOMETRIC, USGS TWRI BK5 CH A1

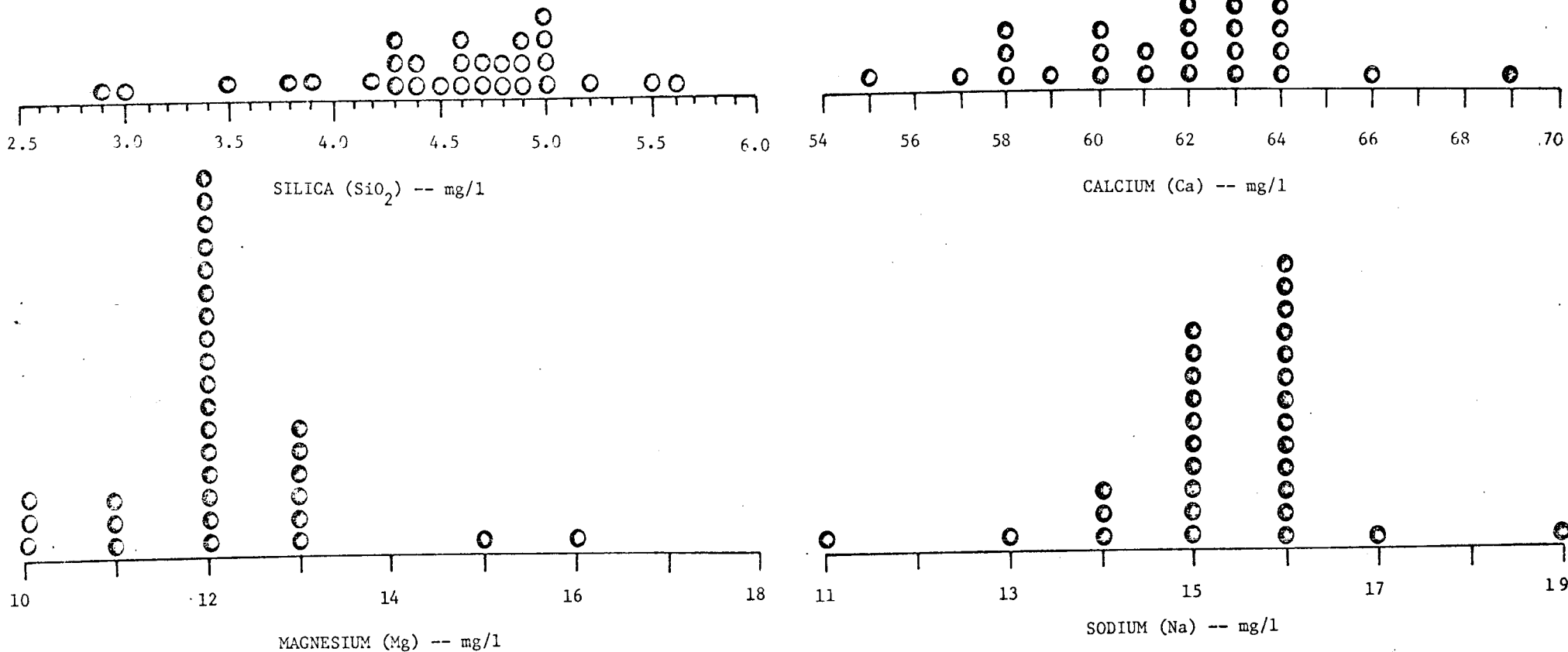
TOTAL RANGE	55.0000	-	120.0000			SAMPLE 36
MEAN	61.7498		AVERAGE DEVIATION	2.0157		
STANDARD DEVIATION	2.7591		95 PCT.CONF.INTVL OF MEAN	61.7498 +OR-	0.9901	CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	2.3 2	80.7	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	24 2	101.7	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	13 2	9.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	(16) 1	34.5	REJECT	CALCULATION, USGS TWRI BKS CH A1
6-72	8	15 2	26.1	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	13 2	9.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	11 2	7.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	12 1	0.9		CALCULATION, USGS TWRI BKS CH A1
6-72	12	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	12 1	0.9		CALCULATION, USGS TWRI BKS CH A1
6-72	16	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	10 2	15.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	12 1	0.9		CALCULATION, USGS TWRI BKS CH A1
7-72	20	13 1	9.3		CALCULATION, USGS TWRI BKS CH A1
7-72	21	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22	12 1	0.9		CALCULATION, USGS TWRI BKS CH A1
7-72	23	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	11 2	7.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	11 1	7.5		CALCULATION, USGS TWRI BKS CH A1
7-72	28	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	13 2	9.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	12 1	0.9		CALCULATION, USGS TWRI BKS CH A1
7-72	32			NOT DETERMINED	
6-72	33	13 1	9.3		CALCULATION, USGS TWRI BKS CH A1
6-72	34	10 1	15.9		CALCULATION, USGS TWRI BKS CH A1
6-72	35	10 20	15.9		OTHER
6-72	36	13 1	9.3		CALCULATION, USGS TWRI BKS CH A1
7-72	37	12 2	0.9		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE 2.3000 - 24.0000 SAMPLE 36
 MEAN 11.8965 AVERAGE DEVIATION 0.5779
 STANDARD DEVIATION 0.8596 95 PCT.CONF.INTVL OF MEAN 11.8965 +OR- 0.3269 MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	15.1	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	16.1	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	14.1	8.8	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
6-72	4	13.1	15.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8	14	8.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	28.5	82.3	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	12	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	16	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	15	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	19	23.7	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	16.2	4.2	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	20	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	17	10.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	16	4.2	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	14	8.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34	11	28.4	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	35			NOT DETERMINED
6-72	36	16	4.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	15	2.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE 11.0000 - 28.0000 SAMPLE 36
 MEAN 15.3570 AVERAGE DEVIATION 0.7143
 STANDARD DEVIATION 0.8698 95 PCT.CONF.INTVL OF MEAN 15.3570 +OR- 0.3373 NA



SAMPLE NO. 36

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	9.1	29.4	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	8.1	15.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	6.7	4.7		FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
6-72	4	6.8	3.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	7.1	1.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	6.8	3.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	7.1	1.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8	7.7	9.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	7.4	5.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	6.3	10.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	6.5	7.6		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	12	7.4	5.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	6.4	9.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	7.0	0.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	16	6.5	7.6		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	7.1	1.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	7.7	9.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	6.5	7.6		FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	20	7.3	3.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	7.2	2.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED	
7-72	23	8.4	19.5		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	7.1	1.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	6.4	9.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	7.2	2.4		FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	6.4	9.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	6.8	3.3		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	6.3	10.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED	
6-72	33	7.2	2.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34			NOT DETERMINED	
6-72	35	3.6	48.8	REJECT	OTHER
6-72	36	7.4	5.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	7.1	1.0		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE	3.6000	-	9.1000					SAMPLE 36
MEAN	7.0310		AVERAGE DEVIATION	0.4140				
STANDARD DEVIATION	0.5306		95 PCT.CONF.INTVL OF MEAN	7.0310	+OR-	0.2018		K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	44.4	5.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	2	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	3	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	4	44	5.8		POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	5	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	6	51	9.2		FISHER TITRALIZER, ELECTROMETRIC TITRATION, USGS
7-72	7	47	0.6		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	8	46	1.5		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	9	47	0.6		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	10	42	10.1		INDICATOR, APHA STD METH, 13ED, 1971
6-72	11	98	109.9	REJECT	INDICATOR, APHA STD METH, 13ED, 1971
6-72	12	46	1.5		OTHER
6-72	13	50	7.1		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	15	45	3.6		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	16	46	1.5		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	17	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	18	78	67.0	REJECT	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	19	50	7.1		FISHER TITRALIZER, ELECTROMETRIC TITRATION, USGS
7-72	20	49	4.9		INDICATOR, APHA STD METH, 13ED, 1971
7-72	21	46	1.5		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	22	50	7.1		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	23	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	26	46	1.5		POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	27	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	28	37	20.8	REJECT	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	30	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	31	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	32	40	14.3		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	33	46	1.5		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	34	40	14.3		INDICATOR, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED	
6-72	36	46	1.5		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	37	48	2.8		ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1

TOTAL RANGE	37.0000	-	98.0000				SAMPLE 36
MEAN	46.6998		AVERAGE DEVIATION	2.0067			
STANDARD DEVIATION	2.6672		95 PCT.CONF.INTVL OF MEAN	46.6998	+OR-	0.9958	HCO3

DATE
MO-YR

8
CODE

REPORTED
VALUE

PCT.DEV.
FROM MEAN

METHOD

6-72	1	64 2	7.4		TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	2			NOT DETERMINED	
6-72	3	60 4	0.7		GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	4	61 1	2.4		THORIN, USGS TWRI BK5 CH A1
7-72	5	61 1	2.4		THORIN, USGS TWRI BK5 CH A1
6-72	6	68 20	14.2		OTHER
7-72	7	58 1	2.6		THORIN, USGS TWRI BK5 CH A1
6-72	8	62 1	4.1		THORIN, USGS TWRI BK5 CH A1
7-72	9	59 1	1.0		THORIN, USGS TWRI BK5 CH A1
7-72	10	60 4	0.7		GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	11	55 2	7.7		TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	12	50 20	16.1		OTHER
6-72	13	55 1	7.7		THORIN, USGS TWRI BK5 CH A1
6-72	15	61 1	2.4		THORIN, USGS TWRI BK5 CH A1
6-72	16	64 1	7.4		THORIN, USGS TWRI BK5 CH A1
6-72	17	60 1	0.7		THORIN, USGS TWRI BK5 CH A1
7-72	18	66 20	10.8		OTHER
7-72	19	60 3	0.7		FISHER TITRALIZER, THORIN, USGS
7-72	20	75 1	25.9	REJECT	THORIN, USGS TWRI BK5 CH A1
7-72	21	60 1	0.7		THORIN, USGS TWRI BK5 CH A1
7-72	22	61 1	2.4		THORIN, USGS TWRI BK5 CH A1
7-72	23	57 1	4.3		THORIN, USGS TWRI BK5 CH A1
6-72	26	59 2	1.0		TURBIDIMETRIC, APHA STD METH, 13ED, 1971
7-72	27	52 20	12.7		OTHER
7-72	28	60 4	0.7		GRAVIMETRIC, APHA STD METH, 13ED, 1971
7-72	29	59 1	1.0		THORIN, USGS TWRI BK5 CH A1
7-72	30	60 1	0.7		THORIN, USGS TWRI BK5 CH A1
6-72	31	62 1	4.1		THORIN, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED	
6-72	33	60 4	0.7		GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	34	50 2	16.1		TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED	
6-72	36	61 1	2.4		THORIN, USGS TWRI BK5 CH A1
7-72	37	62 5	4.1		TECHNICON AUTOANALYZER, TURBIDIMETRIC-BARIUM CHLORIDE

TOTAL RANGE 50.0000 - 75.0000
 MEAN 59.5665 AVERAGE DEVIATION 2.7778
 STANDARD DEVIATION 4.0402 95 PCT.CONF.INTVL OF MEAN 59.5665 +OR- 1.5084

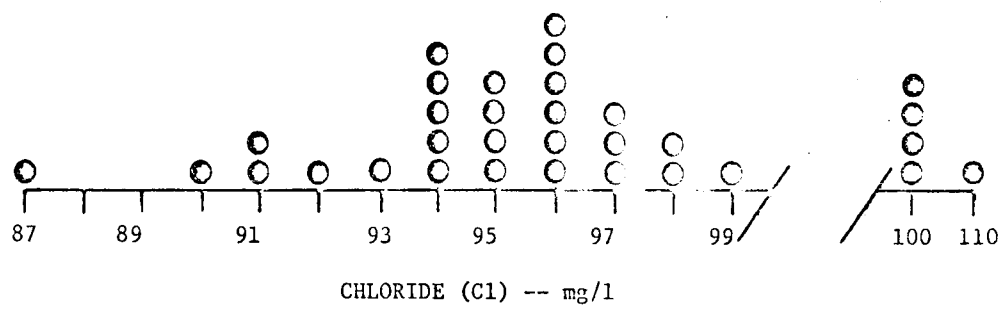
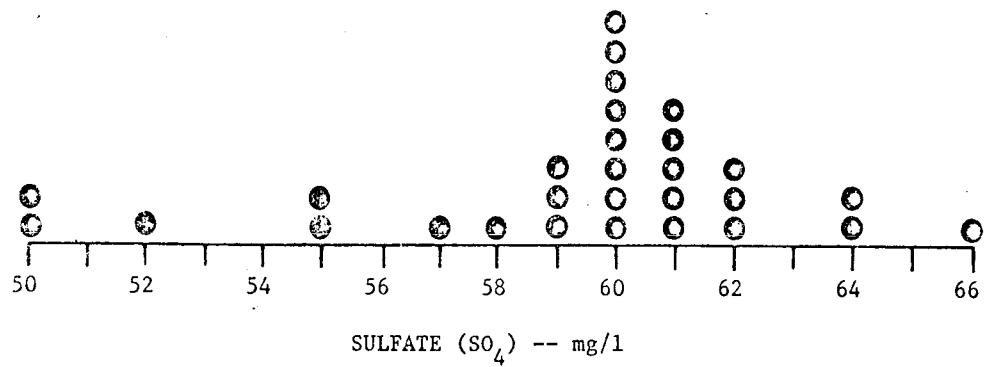
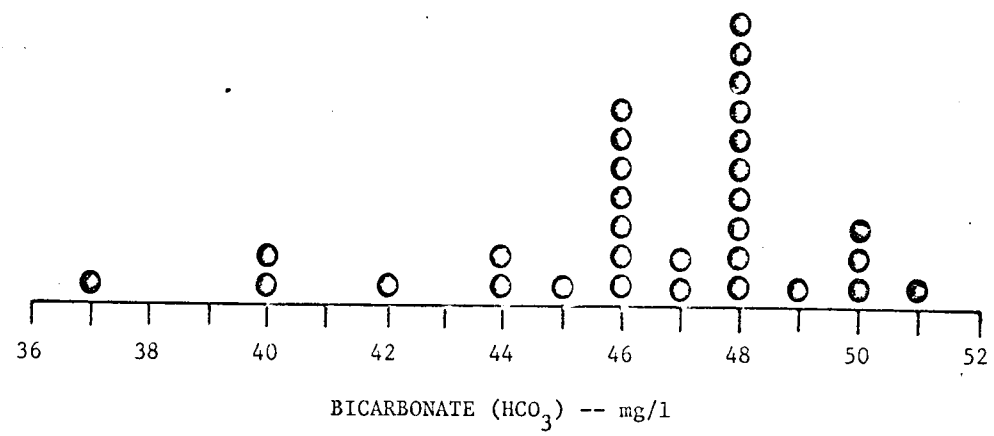
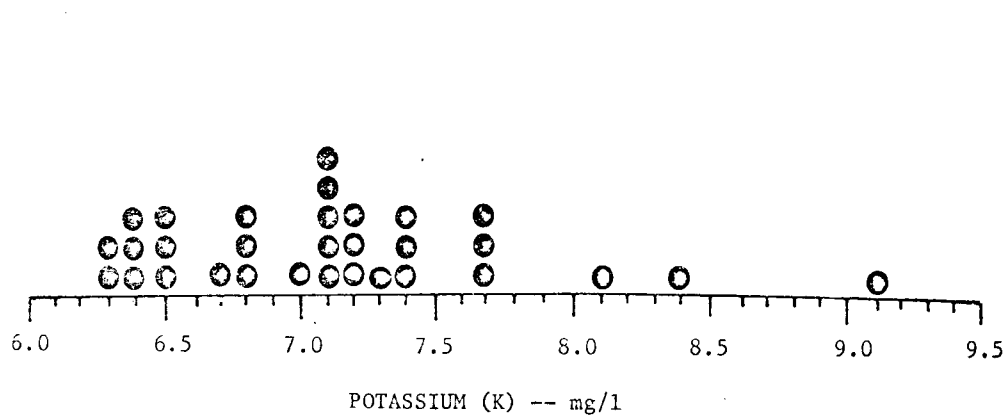
SAMPLE 36

S04

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	96 3	0.7	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	2	90 2	5.6	✓ MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	3	87 3	8.8	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	4	98 3	2.8	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	5	98 1	2.8	MOHR, USGS TWRI BK5 CH A1
6-72	6	96 4	0.7	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
7-72	7	94 2	1.4	✓ MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	8	100 1	4.9	MOHR, USGS TWRI BK5 CH A1
7-72	9	91 1	4.6	MOHR, USGS TWRI BK5 CH A1
7-72	10	93 3	2.5	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	11	94 3	1.4	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	94 1	1.4	MOHR, USGS TWRI BK5 CH A1
6-72	15	95 1	0.4	MOHR, USGS TWRI BK5 CH A1
6-72	16	96 2	0.7	✓ MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	17	96 2	0.7	✓ MERCURIMETRIC, USGS TWRI BK5 CH A1
7-72	18	100 20	4.9	OTHER
7-72	19	96 20	0.7	OTHER
7-72	20	100 1	4.9	MOHR, USGS TWRI BK5 CH A1
7-72	21	99 1	3.8	MOHR, USGS TWRI BK5 CH A1
7-72	22	97 1	1.7	MOHR, USGS TWRI BK5 CH A1
7-72	23	96 2	0.7	MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	26	97 3	1.7	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	27	95 3	0.4	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	28	110 20	15.4	REJECT OTHER
7-72	29	94 1	1.4	MOHR, USGS TWRI BK5 CH A1
7-72	30	100 2	4.9	✓ MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	31	97 1	1.7	MOHR, USGS TWRI BK5 CH A1
7-72	32	92 1	3.5	MOHR, USGS TWRI BK5 CH A1
6-72	33	95 1	0.4	MOHR, USGS TWRI BK5 CH A1
6-72	34	91 3	4.6	✓ MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	94 1	1.4	MOHR, USGS TWRI BK5 CH A1
7-72	37	95 4	0.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE

TOTAL RANGE 87.0000 - 110.0000
 MEAN 95.3546 AVERAGE DEVIATION 2.3434
 STANDARD DEVIATION 3.0935 95 PCT.CONF.INTVL OF MEAN 95.3546 +OR- 1.1346

8 94.4 ± 3.38
 12 94.25 ± 3.08
 13 94.7 ± 3.35
 SAMPLE 36



SAMPLE NO. 36

1.6
0.8
0.8

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	1.0 ²⁰	7.4	OTHER
6-72	2	0.8 ²	14.0	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
6-72	3	0.9 ⁴	3.3	SPADNS, APHA STD METH, 13ED, 1971
6-72	4	0.2 ³	78.5	REJECT ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	5	0.8 ¹	14.0	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	6	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	7	1.1 ¹	18.2	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	8	1.0 ⁵	7.4	SPADNS, USGS
7-72	9	1.0 ⁵	7.4	SPADNS, USGS
7-72	10			NOT DETERMINED
6-72	11	1.0 ⁴	7.4	SPADNS, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	1.0 ²	7.4	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
6-72	15	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	16	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	17	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	18	0.4 ³	57.0	REJECT ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	19			NOT DETERMINED
7-72	20	0.8 ²	14.0	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	21	0.7 ⁵	24.8	SPADNS, USGS
7-72	22	0.9 ²	3.3	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	23	0.9 ¹	3.3	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	26	1.0 ⁶	7.4	TECHNICON AUTOANALYZER, SPADNS WITH DISTILLATION
7-72	27	0.6 ²	35.5	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	28	0.9 ³	3.3	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	29	1.6 ²	71.9	REJECT ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	30	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	31	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	1.0 ³	7.4	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
6-72	34	0.7 ⁴	24.8	SPADNS, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	1.0 ¹	7.4	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	37	1.1 ⁷	18.2	TECHNICON AUTOANALYZER, ZIRCONIUM-XYLENOL ORANGE

TOTAL RANGE 0.2000 - 1.6000
 MEAN 0.9308 AVERAGE DEVIATION 0.1006
 STANDARD DEVIATION 0.1258 95 PCT.CONF.INTVL OF MEAN 0.9308 +OR- 0.0508

SAMPLE 36

F

0.85 ± 0.21
 0.85 ± 0.14
 215.7
 1.0
 0.2

18

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	3.1 5	5.7	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
6-72	2			NOT DETERMINED
6-72	3	0.8 2	72.7	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	4	2.9 20	1.1	OTHER
7-72	5	2.5 1	14.7	BRUCINE, USGS TWRI, BK5 CH A1
6-72	6	2.9 6	1.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	7	8.9 1	203.5	REJECT BRUCINE, USGS TWRI, BK5 CH A1
6-72	8	3.8 1	29.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	9	1.9 2	35.2	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	10	3.4 3	16.0	BRUCINE, APHA STD METH, 13ED, 1971
6-72	11	5.4 3	84.2	BRUCINE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	3.2 1	9.1	BRUCINE, USGS TWRI, BK5 CH A1
6-72	15	2.5 1	14.7	BRUCINE, USGS TWRI, BK5 CH A1
6-72	16	2.5 2	14.7	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	17	3.0 6	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	18	2.9 6	1.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	19	3.2 2	9.1	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	20	2.6 2	11.3	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	21	2.3 1	21.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	22	3.1 3	5.7	BRUCINE, APHA STD METH, 13ED, 1971
7-72	23	2.9 1	1.1	BRUCINE, USGS TWRI, BK5 CH A1
6-72	26	2.9 6	1.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	27	3.1 3	5.7	BRUCINE, APHA STD METH, 13ED, 1971
7-72	28	10 20	241.0	REJECT OTHER
7-72	29	1.7 1	42.0	BRUCINE, USGS TWRI, BK5 CH A1
7-72	30	3.2 1	9.1	BRUCINE, USGS TWRI, BK5 CH A1
6-72	31	3.3 1	12.5	BRUCINE, USGS TWRI, BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	2.3 2	21.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	34	5.0 3	70.5	BRUCINE, APHA STD METH, 13ED, 1971
6-72	35	34 20	*****	REJECT OTHER
6-72	36	2.8 1	4.5	BRUCINE, USGS TWRI, BK5 CH A1
7-72	37	2.9 5	1.1	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION

TOTAL RANGE 0.8000 - 34.0000
 MEAN 2.9321 AVERAGE DEVIATION 0.5439
 STANDARD DEVIATION 0.8692 95 PCT.CONF.INTVL OF MEAN 2.9321 +OR- 0.3371

SAMPLE 36

NO3

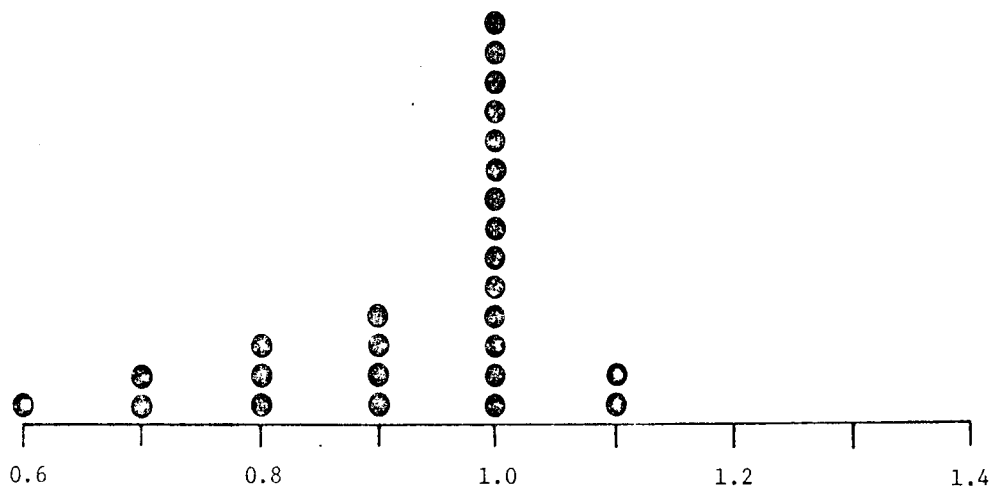
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1			NOT DETERMINED
6-72	2			NOT DETERMINED
6-72	3	220 ⁴	14.8	CARMINE, APHA STD METH, 13ED, 1971
6-72	4	300 ³	16.2	CURCUMIN, APHA STD METH, 13ED, 1971
7-72	5			NOT DETERMINED
6-72	6			NOT DETERMINED
7-72	7	350 ²	35.6	CARMINE, USGS BK5 CH A1
6-72	8	350 ¹	35.6	DIANTHRIMIDE, USGS BK5 CH A1
7-72	9			NOT DETERMINED
7-72	10			NOT DETERMINED
6-72	11			NOT DETERMINED
6-72	12			NOT DETERMINED
6-72	13	250 ¹	3.1	DIANTHRIMIDE, USGS BK5 CH A1
6-72	15			NOT DETERMINED
6-72	16			NOT DETERMINED
6-72	17	1500 ²	481.1	REJECT CARMINE, USGS BK5 CH A1
7-72	18			NOT DETERMINED
7-72	19	140 ²	45.8	CARMINE, USGS BK5 CH A1
7-72	20	230 ³	10.9	CURCUMIN, APHA STD METH, 13ED, 1971
7-72	21	270 ¹	4.6	DIANTHRIMIDE, USGS BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	240 ¹	7.0	DIANTHRIMIDE, USGS BK5 CH A1
6-72	26			NOT DETERMINED
7-72	27	120 ⁴	53.5	CARMINE, APHA STD METH, 13ED, 1971
7-72	28			NOT DETERMINED
7-72	29	370 ¹	43.3	DIANTHRIMIDE, USGS BK5 CH A1
7-72	30			NOT DETERMINED
6-72	31	280 ¹	8.5	DIANTHRIMIDE, USGS BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	320 ³	24.0	CURCUMIN, APHA STD METH, 13ED, 1971
6-72	34			NOT DETERMINED
6-72	35	190 ²⁰	26.4	OTHER
6-72	36	200 ²	22.5	CARMINE, USGS BK5 CH A1
7-72	37	300 ³	16.2	CURCUMIN, APHA STD METH, 13ED, 1971

TOTAL RANGE 120.0000 - 1500.0000 SAMPLE 36
 MEAN 258.1248 AVERAGE DEVIATION 59.3749
 STANDARD DEVIATION 73.5044 95 PCT.CONF.INTVL OF MEAN 258.1248 +OR- 39.1594 B

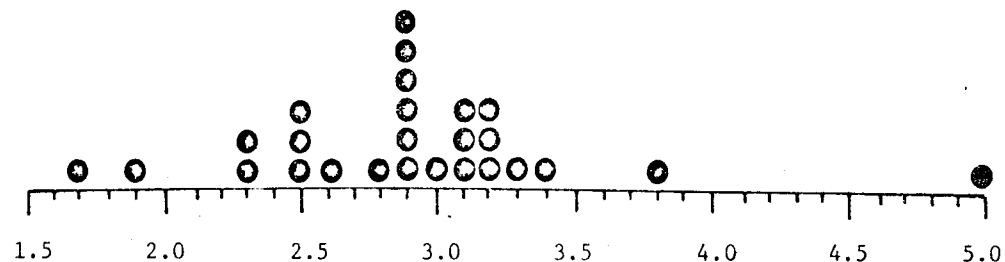
4 288 ± 39

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	560	0.6		OTHER
6-72	2	551	1.0		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	3	554	0.5		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	4	531	4.6		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	5	550	1.2		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	6	558	0.2		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	7	539	3.2		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	8	585	5.1		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	9	544	2.3		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	10	433	22.2	REJECT	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	11	579	2.4		WHEATSTONE BRIDGE, APHA STD METH, 13ED, 1971
6-72	12	598	7.4		WHEATSTONE BRIDGE, APHA STD METH, 13ED, 1971
6-72	13	560	0.6		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	15	549	1.4		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	16	554	0.5		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	17	550	1.2		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	18	600	7.8		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	19	552	0.8		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	20	540	3.0		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	21	538	3.3		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	22	556	0.1		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	23	549	1.4		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	26	555	0.3		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	27	540	3.0		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	28			NOT DETERMINED	
7-72	29	561	0.8		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	30	549	1.4		DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	31	485	12.9	REJECT	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	32	548	1.6		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	33	550	1.2		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	34	610	9.6		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	35			NOT DETERMINED	
6-72	36	548	1.6		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	37	550	1.2		WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1

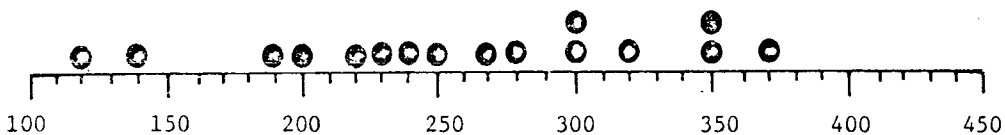
TOTAL RANGE	433.0000	-	610.0000					SAMPLE 36
MEAN	556.6301		AVERAGE DEVIATION	12.8188				
STANDARD DEVIATION	18.6297		95 PCT.CONF.INTVL OF MEAN	556.6301	+OR-	6.9557		SP.COND



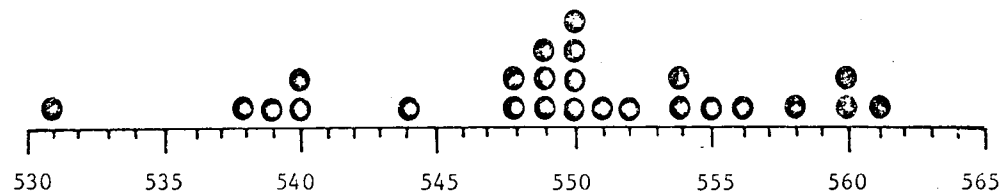
FLUORIDE (F) -- mg/l



NITRATE (as N) -- mg/l



BORON (B) -- µg/l



SPECIFIC CONDUCTANCE -- micromhos/cm at 25°C

SAMPLE NO. 36

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	7.7	0.1		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	2	7.2	6.4		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	3	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	4	8.0	4.0		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	5	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	6	7.5	2.5		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	7	7.5	2.5		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	8	7.5	2.5		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	9	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	10	6.1	20.7	REJECT	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	11	7.7	0.1		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	12	7.8	1.4		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	13	7.9	2.7		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	15	7.5	2.5		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	16	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	17	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	18	7.0	9.0	REJECT	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	19	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	20	7.6	1.2		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	21	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	22	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	23	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	25	7.8	1.4		GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	27	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	28	8.0	4.0		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	29	7.4	3.8		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	30	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	31	7.4	3.8		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	32	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	33	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	34	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
6-72	35	6.9	10.3	REJECT	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	36	7.7	0.1		INSTRUMENT, USGS TWRI BK5 CH A1
7-72	37	7.8	1.4		INSTRUMENT, USGS TWRI BK5 CH A1

TOTAL RANGE	6.1000	-	8.0000				SAMPLE 36
MEAN	7.6935		AVERAGE DEVIATION	0.1257			
STANDARD DEVIATION	0.1750		95 PCT.CONF.INTVL OF MEAN	7.6935 +OR-	0.0642		PH

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1			NOT DETERMINED
6-72	2	160	13.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	180	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	200	8.1	OTHER
7-72	5			NOT DETERMINED
6-72	6	170	8.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	220	18.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8			NOT DETERMINED
7-72	9	180	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10			NOT DETERMINED
6-72	11			NOT DETERMINED
6-72	12			NOT DETERMINED
6-72	13	150	18.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15			NOT DETERMINED
6-72	16	200	8.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17			NOT DETERMINED
7-72	18			NOT DETERMINED
7-72	19			NOT DETERMINED
7-72	20	70	62.2	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	180	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	200	8.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26			NOT DETERMINED
7-72	27	150	18.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	10	94.6	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	160	13.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30			NOT DETERMINED
6-72	31	170	8.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	200	8.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34			NOT DETERMINED
6-72	35			NOT DETERMINED
6-72	36	250	35.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	190	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

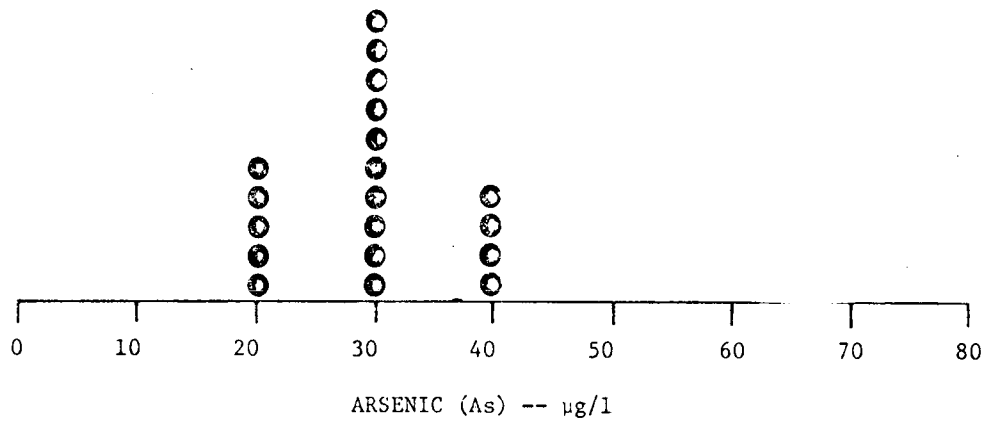
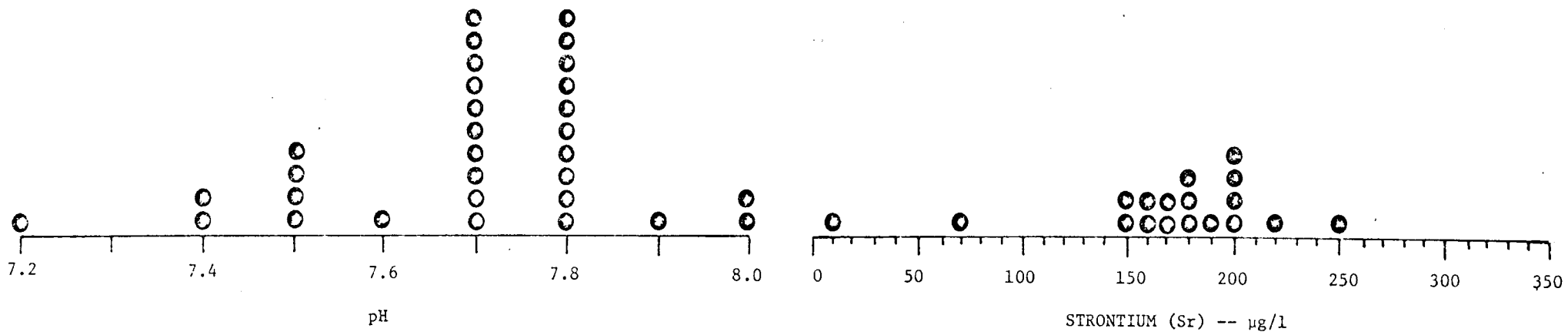
TOTAL RANGE	10.0000	-	250.0000			SAMPLE 36
MEAN	184.9998		AVERAGE DEVIATION	20.6249		
STANDARD DEVIATION	26.5832		95 PCT.CONF.INTVL OF MEAN	184.9998	+OR-	14.1622
						SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	31 1	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	2			NOT DETERMINED
6-72	3			NOT DETERMINED
6-72	4	30 20	1.8	OTHER
7-72	5			NOT DETERMINED
6-72	6	40	35.7	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	7	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	8	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	9	40	35.7	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	10			NOT DETERMINED
6-72	11			NOT DETERMINED
6-72	12			NOT DETERMINED
6-72	13	40	35.7	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	15	20	32.1	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	16	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	17	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	18	20	32.1	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 13ED, 1971
7-72	19			NOT DETERMINED
7-72	20			NOT DETERMINED
7-72	21	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	22			NOT DETERMINED
7-72	23	20	32.1	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
6-72	26	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 13ED, 1971
7-72	27	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	28			NOT DETERMINED
7-72	29	20	32.1	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	30			NOT DETERMINED
6-72	31	20	32.1	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1
7-72	32			NOT DETERMINED
6-72	33	30	1.8	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 13ED, 1971
6-72	34			NOT DETERMINED
6-72	35			NOT DETERMINED
6-72	36			NOT DETERMINED
7-72	37	40	35.7	SILVER DIETHYLDITHIOCARBAMATE, USGS TWRI BK5, CH A1

TOTAL RANGE 20.0000 - 40.0000
 MEAN 29.4735 AVERAGE DEVIATION 4.9662
 STANDARD DEVIATION 7.0504 95 PCT.CONF.INTVL OF MEAN 29.4735 +OR- 3.3983

SAMPLE 36

AS



SAMPLE NO. 36

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
SIG2	29	0	38	76	93
CA	33	3	34	78	94
MG	35	12	59	59	90
NA	31	10	0	32	96
K	31	6	31	59	93
HCO3	33	9	30	70	93
SO4	31	3	53	70	90
CL	32	3	32	68	97
F	29	10	15	69	96
NO3	31	10	54	62	89
F	17	6	38	69	100
IP.CDND	32	6	47	80	90
PH	34	9	32	68	97
SR	18	11	25	75	94
AS	19	0	53	53	100

SAMPLE NO. 36

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	7.0 ⁶	3.0	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
6-72	2	4.5 ²	33.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	7.6 ¹	11.9	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	4	4.0 ⁴	41.1	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
7-72	5	6.8 ¹	0.1	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	6	7.4 ⁶	8.9	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
7-72	7	6.7 ¹	1.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	8	6.8 ¹	0.1	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	9	6.9 ¹	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	10			NOT DETERMINED
6-72	11	6.8 ³	0.1	HETEROPOLY BLUE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	7.2 ¹	6.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	15	6.9 ¹	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	16	6.9 ¹	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	17	6.8 ⁶	0.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
7-72	18	9.2 ²⁰	35.4	OTHER
7-72	19	6.3 ¹	7.3	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	20	7.6 ¹	11.9	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	21	5.1 ¹	24.9	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	22	6.0 ¹	11.7	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	23	7.0 ¹	3.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	26			NOT DETERMINED
7-72	27	7.1 ²	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	6.0 ²	11.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	6.7 ¹	1.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	30	7.3 ¹	7.5	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
6-72	31	6.9 ¹	1.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	6.7 ⁴	1.4	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
6-72	34	9.0 ⁷	32.5	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	7.2 ¹	6.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
7-72	37	6.6 ⁵	2.8	TECHNICON AUTOANALYZER, AMINONAPHTHOLSULFONIC ACID

TOTAL RANGE 4.0000 - 9.2000
 MEAN 6.7931 AVERAGE DEVIATION 0.6435
 STANDARD DEVIATION 1.0461 95 PCT.CONF.INTVL OF MEAN 6.7931 +OR- 0.3978

SAMPLE 37

SI02

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
6-72	1	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	10 2	24.0	REJECT	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	14 2	6.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	14 2	6.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	13 1	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	8	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	12 2	8.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	12 2	8.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	14 3	6.4		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
6-72	12	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	14 2	6.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	13 1	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	16	14 2	6.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	12 2	8.8		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	14 3	6.4		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
7-72	20	13 3	1.2		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
7-72	21	13 1	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	22	11 1	16.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	23	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	13 1	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	28	13 2	1.2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	13 1	1.2		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	30	14 2	6.4		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	13 1	1.2 2		ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED	
6-72	33	12 1	8.8		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
6-72	34	13 2	1.2		EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
6-72	35	15 20	14.0		OTHER
6-72	36	14 1	6.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1
7-72	37	14 1	6.4		COMPLEXOMETRIC, USGS TWRI BK5 CH A1

TOTAL RANGE 10.0000 - 15.0000

MEAN 13.1561 AVERAGE DEVIATION 0.5898
STANDARD DEVIATION 0.8076 95 PCT.CONF.INTVL OF MEAN 13.1561 +OR- 0.2898

SAMPLE 37

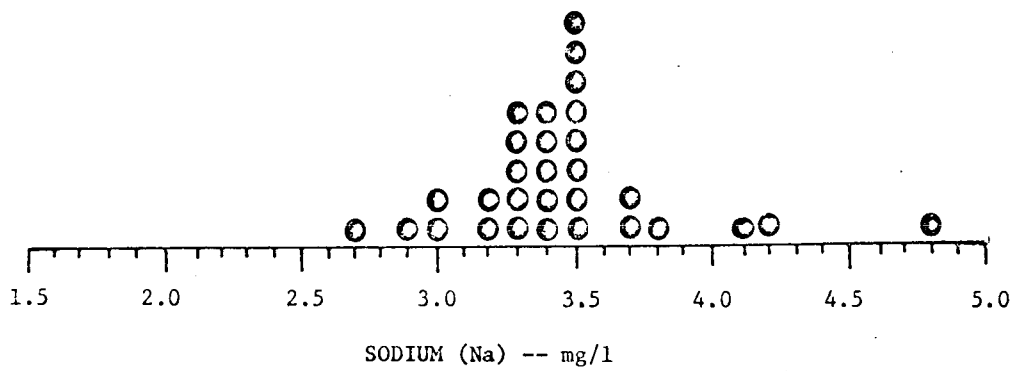
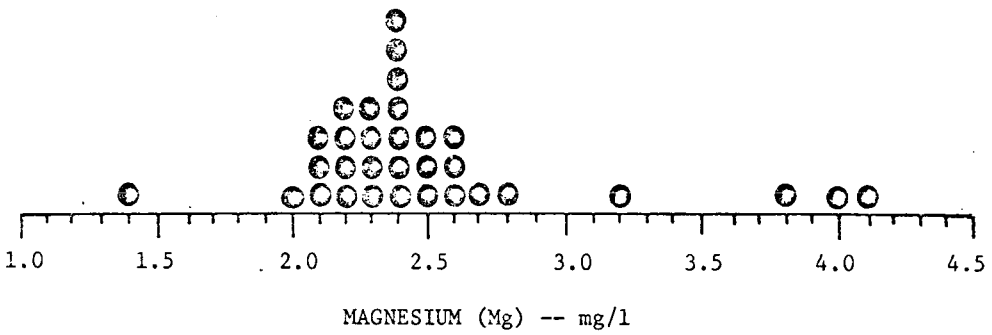
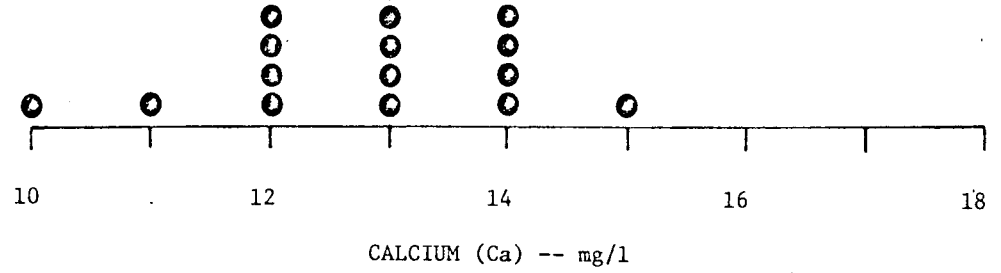
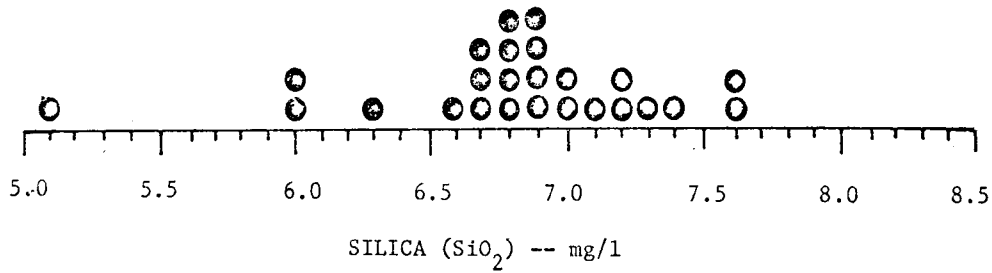
CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	2.6 2	3.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	13 2	417.4	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	2.2 2	12.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	2.5 2	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	2.3 2	8.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	2.2 2	12.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	2.5 1	0.5	CALCULATION, USGS TWRI BKS CH A1
6-72	8	2.4 2	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	2.4 2	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	2.2 2	12.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	1.4 2	44.3	CALCULATION, USGS TWRI BKS CH A1
6-72	12	2.3 2	8.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	2.3 2	8.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	2.3 1	8.5	CALCULATION, USGS TWRI BKS CH A1
6-72	16	2.7 2	7.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	2.4 2	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	2.1 2	16.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	2.4 1	4.5	CALCULATION, USGS TWRI BKS CH A1
7-72	20	4.0 1	59.2	CALCULATION, USGS TWRI BKS CH A1
7-72	21	2.5 2	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22	3.8 1	51.2	CALCULATION, USGS TWRI BKS CH A1
7-72	23	2.6 2	3.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	2.2 2	12.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	2.1 1	16.4	CALCULATION, USGS TWRI BKS CH A1
7-72	28	2.4 2	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	2.8 2	11.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	2.6 2	3.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	2.4 2	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	3.2 1	27.4	CALCULATION, USGS TWRI BKS CH A1
6-72	34	4.1 1	63.2	CALCULATION, USGS TWRI BKS CH A1
6-72	35	2.0 2	20.4	OTHER
6-72	36	2.4 1	4.5	CALCULATION, USGS TWRI BKS CH A1
7-72	37	2.1 2	16.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE	1.4000 - 13.0000				SAMPLE 37
MEAN	2.5125	AVERAGE DEVIATION	0.3617		
STANDARD DEVIATION	0.5587	95 PCT.CONF.INTVL OF MEAN	2.5125 +OR-	0.2005	MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	3.3	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	2.9	15.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	2.7	20.9	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
6-72	4	4.8	40.6	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	3.3	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	3.2	6.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8	3.3	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	3.4	0.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	7.5	119.7	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	12	3.8	11.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	3.3	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	16	4.1	20.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	3.4	0.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	4.2	23.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	3.4	0.4	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	20	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	3.7	8.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	3.4	0.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	3.5	2.5	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	3.4	0.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	3.2	6.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	3.0	12.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	3.7	8.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34	3.0	12.1	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	35			NOT DETERMINED
6-72	36	3.5	2.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	3.3	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE 2.7000 - 7.5000 SAMPLE 37
 MEAN 3.4138 AVERAGE DEVIATION 0.2152
 STANDARD DEVIATION 0.3125 95 PCT.CONF.INTVL OF MEAN 3.4138 +OR- 0.1188 NA



SAMPLE NO. 37

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	1.2	38.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	2	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	0.7	19.3	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
6-72	4	1.0	15.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	5	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	6	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	9	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	11	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	12	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	13	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	16	0.6	30.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	18	1.0	15.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	19	0.8	7.8	FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	20	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	1.0	15.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	27	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	2.1	142.0	REJECT FLAME PHOTOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	1.0	15.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	31	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	0.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34	0.6	30.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	35	1.1	26.8	OTHER
6-72	36	1.0	15.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	0.8	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

TOTAL RANGE	0.6000	-	2.1000					SAMPLE 37
MEAN	0.8677		AVERAGE DEVIATION	0.0978				
STANDARD DEVIATION	0.1275		95 PCT.CONF.INTVL OF MEAN	0.8677 +DR-	0.0468			K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	30	4.1	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	2	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	3	33	5.5	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	4	30	4.1	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	5	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	6	32	2.3	FISHER TITRALIZER, ELECTROMETRIC TITRATION, USGS
7-72	7	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	8	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	9	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	10	32	2.3	INDICATOR, APHA STD METH, 13ED, 1971
6-72	11	57	82.2	REJECT INDICATOR, APHA STD METH, 13ED, 1971
6-72	12	34	8.7	OTHER
6-72	13	35	11.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	15	30	4.1	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	16	34	8.7	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	17	30	4.1	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	18	50	59.8	REJECT POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	19	33	5.5	FISHER TITRALIZER, ELECTROMETRIC TITRATION, USGS
7-72	20	34	8.7	INDICATOR, APHA STD METH, 13ED, 1971
7-72	21	30	4.1	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	22	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	23	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	26	32	2.3	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	27	33	5.5	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	28	26	16.9	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
7-72	29	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	30	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	31	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	32	26	16.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	33	31	0.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
6-72	34	26	16.9	INDICATOR, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
7-72	37	32	2.3	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1

TOTAL RANGE	26.0000	-	57.0000				SAMPLE 37
MEAN	31.2901		AVERAGE DEVIATION	1.5526			
STANDARD DEVIATION	2.1786		95 PCT.CONF.INTVL OF MEAN	31.2901	+0R-	0.7990	HC03

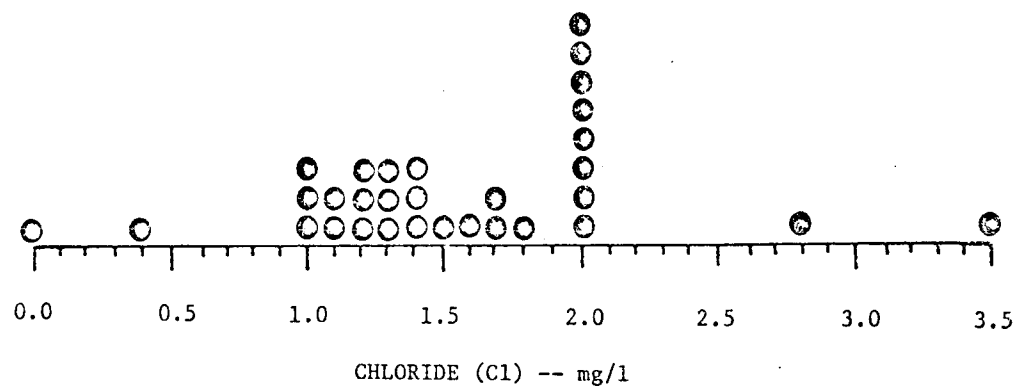
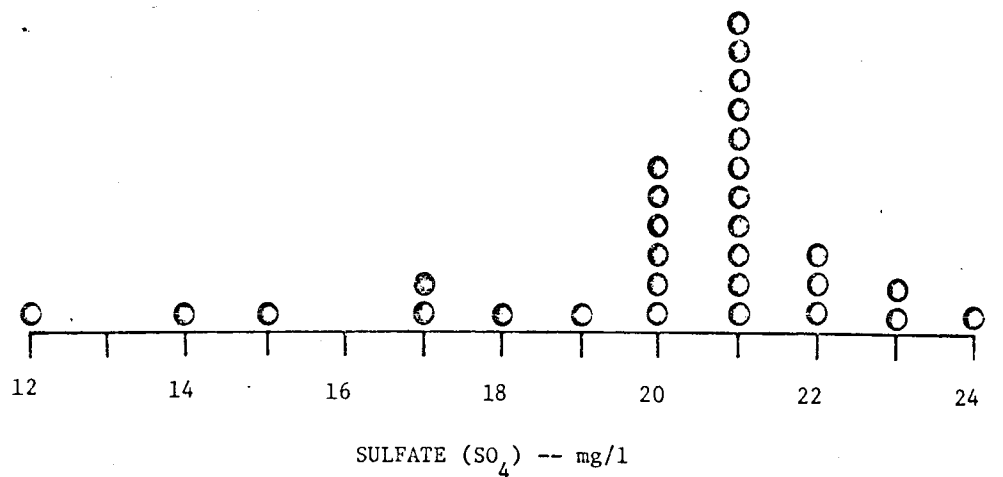
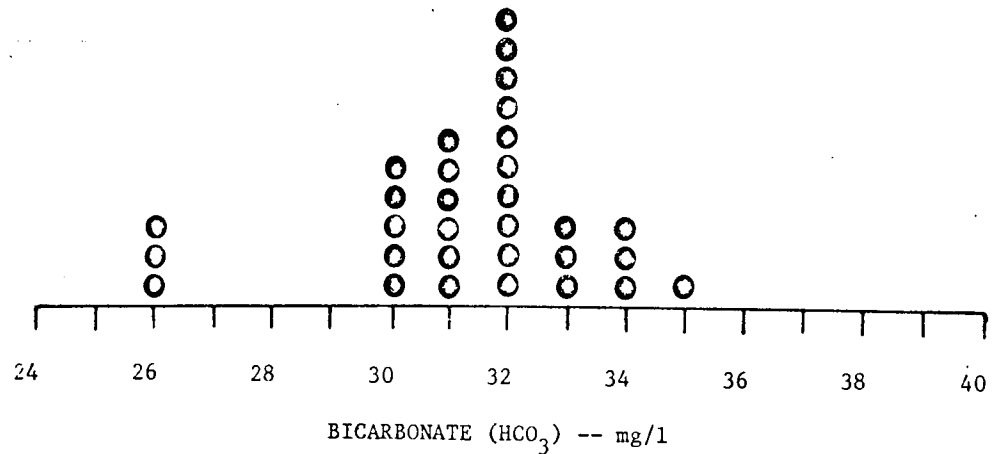
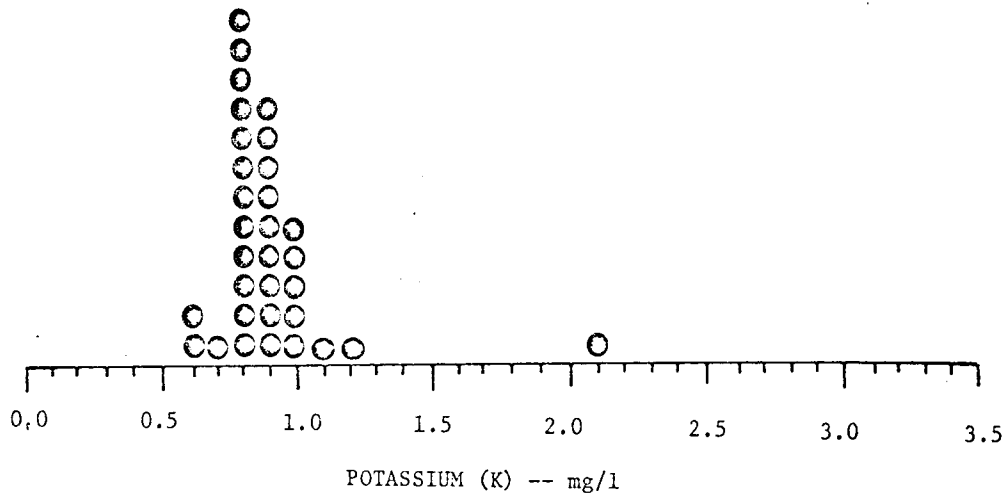
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	22.2	8.7	TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	2			NOT DETERMINED
6-72	3	19.4 ✓	6.1	GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	4	23.1	13.6	THORIN, USGS TWRI BK5 CH A1
7-72	5	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
6-72	6	23.20	13.6	OTHER
7-72	7	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
6-72	8	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
7-72	9	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
7-72	10	21.4 ✓	3.7	GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	11	12.2	40.7	REJECT TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	12	15.20	25.9	OTHER
6-72	13	18.1	11.1	THORIN, USGS TWRI BK5 CH A1
6-72	15	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
6-72	16	24.1	18.6	THORIN, USGS TWRI BK5 CH A1
6-72	17	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
7-72	18	17.20	16.0	OTHER
7-72	19	20.3	1.2	FISHER TITRALIZER, THORIN, USGS
7-72	20	1.8	91.1	REJECT THORIN, USGS TWRI BK5 CH A1
7-72	21	20.1	1.2	THORIN, USGS TWRI BK5 CH A1
7-72	22	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
7-72	23	20.1	1.2	THORIN, USGS TWRI BK5 CH A1
6-72	26	20.2	1.2	TURBIDIMETRIC, APHA STD METH, 13ED, 1971
7-72	27	21.20	3.7	OTHER
7-72	28	22.4 ✓	8.7	GRAVIMETRIC, APHA STD METH, 13ED, 1971
7-72	29	20.1	1.2	THORIN, USGS TWRI BK5 CH A1
7-72	30	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
6-72	31	21.1	3.7	THORIN, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	17.4 ✓	16.0	GRAVIMETRIC, APHA STD METH, 13ED, 1971
6-72	34	14.2	30.8	TURBIDIMETRIC, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	22.1	8.7	THORIN, USGS TWRI BK5 CH A1
7-72	37	20.5	1.2	TECHNICON AUTOANALYZER, TURBIDIMETRIC-BARIUM CHLORIDE

TOTAL RANGE 1.8000 - 24.0000 SAMPLE 37
 MEAN 20.2412 AVERAGE DEVIATION 1.5791
 STANDARD DEVIATION 2.2306 95 PCT.CONF.INTVL OF MEAN 20.2412 +OR- 0.8483 S04

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DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
6-72	1	2.0 3	35.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	2	3.5 2	136.5	REJECT MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	3	1.7 3	14.9	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	4	2.0 3	35.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	5	2.0 1	35.1	MOHR, USGS TWRI BK5 CH A1
6-72	6	2.8 4	89.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
7-72	7	1.0 2	32.4	MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	8	1.6 1	8.1	MOHR, USGS TWRI BK5 CH A1
7-72	9	1.2 1	18.9	MOHR, USGS TWRI BK5 CH A1
7-72	10	1.0 3	32.4	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	11	1.8 3	21.6	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	1.2 1	18.9	OTHER
6-72	15	1.1 1	25.7	MOHR, USGS TWRI BK5 CH A1
6-72	16	1.1 2	25.7	MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	17	1.5 2	1.4	MERCURIMETRIC, USGS TWRI BK5 CH A1
7-72	18	2.0 20	35.1	OTHER
7-72	19	0.0 20	100.0	OTHER
7-72	20	0.0 1	440.5	REJECT MOHR, USGS TWRI BK5 CH A1
7-72	21	2.0 1	35.1	MOHR, USGS TWRI BK5 CH A1
7-72	22	1.2 2	18.9	MERCURIMETRIC, USGS TWRI BK5 CH A1
7-72	23	1.7 2	14.9	MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	26	1.4 3	5.4	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	27	1.4 3	5.4	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
7-72	28	0.4 20	73.0	OTHER
7-72	29	1.3 1	12.2	MOHR, USGS TWRI BK5 CH A1
7-72	30	1.3 2	12.2	MERCURIMETRIC, USGS TWRI BK5 CH A1
6-72	31	1.4 1	5.4	MOHR, USGS TWRI BK5 CH A1
7-72	32	1.0 1	32.4	MOHR, USGS TWRI BK5 CH A1
6-72	33	2.0 1	35.1	MOHR, USGS TWRI BK5 CH A1
6-72	34	2.0 3	35.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	2.0 1	35.1	MOHR, USGS TWRI BK5 CH A1
7-72	37	1.3 4	12.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE

TOTAL RANGE	0.0	-	8.0000				SAMPLE 37
MEAN	1.4800		AVERAGE DEVIATION	0.4253			
STANDARD DEVIATION	0.5511		95 PCT.CONF.INTVL OF MEAN	1.4800 +OR-	0.2058		CL



SAMPLE NO. 37

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DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	0.4 20	58.1	OTHER
6-72	2	0.9 2	5.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
6-72	3	1.0 4	4.7	SPADNS, APHA STD METH, 13ED, 1971
6-72	4	1.0 3	4.7	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	5	1.0 1	4.7	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	6	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	7	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	8	1.0 5	4.7	SPADNS, USGS
7-72	9	1.0 5	4.7	SPADNS, USGS
7-72	10			NOT DETERMINED
6-72	11	1.0 4	4.7	SPADNS, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	1.0 2	4.7	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
6-72	15	1.0 1	4.7	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	16	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	17	1.0 1	4.7	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	18	0.4 3	58.1	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	19			NOT DETERMINED
7-72	20	0.9 2	5.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	21	0.8 5	16.3	SPADNS, USGS
7-72	22	10 2	946.5	REJECT ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	23	1.0 1	4.7	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	26	1.1 6	15.1	TECHNICON AUTOANALYZER, SPADNS WITH DISTILLATION
7-72	27	0.6 2	37.2	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	28	1.0 3	4.7	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
7-72	29	1.7 2	77.9	REJECT ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
7-72	30	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
6-72	31	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	1.0 3	4.7	ION-SELECTIVE ELECTRODE, APHA STD METH, 13ED, 1971
6-72	34	0.8 4	16.3	SPADNS, APHA STD METH, 13ED, 1971
6-72	35			NOT DETERMINED
6-72	36	1.1 1	15.1	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
7-72	37	1.3 1	36.0	TECHNICON AUTOANALYZER, ZIRCONIUM-XYLENOL ORANGE

TOTAL RANGE 0.4000 - 10.0000
 MEAN 0.9556 AVERAGE DEVIATION 0.1399
 STANDARD DEVIATION 0.2044 95 PCT.CONF.INTVL OF MEAN 0.9556 +DR- 0.0809

SAMPLE 37

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0.85 ± .23 8

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DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	3.8 5	575.0	REJECT TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
6-72	2			NOT DETERMINED
6-72	3	0.1 2	15.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	4	0.1 20	15.6	OTHER
7-72	5	0.0 1	100.0	BRUCINE, USGS TWRI, BK5 CH A1
6-72	6	0.2 6	68.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	7	0.0 1	100.0	BRUCINE, USGS TWRI, BK5 CH A1
6-72	8	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	9	0.1 2	15.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	10	0.0 3	100.0	BRUCINE, APHA STD METH, 13ED, 1971
6-72	11	0.2 3	68.8	BRUCINE, APHA STD METH, 13ED, 1971
6-72	12			NOT DETERMINED
6-72	13	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
6-72	15	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
6-72	16	0.1 2	15.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	17	0.1 6	15.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	18	0.2 6	68.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	19	0.1 2	15.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	20	0.1 2	15.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
7-72	21	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	22	0.1 3	15.6	BRUCINE, APHA STD METH, 13ED, 1971
7-72	23	1.0 1	743.8	REJECT BRUCINE, USGS TWRI, BK5 CH A1
6-72	26	0.1 6	15.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
7-72	27	0.1 3	15.6	BRUCINE, APHA STD METH, 13ED, 1971
7-72	28	0.5 20	321.9	REJECT OTHER
7-72	29	0.1 10	15.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	30	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
6-72	31	0.2 1	68.8	BRUCINE, USGS TWRI, BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	0.4 2	237.5	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
6-72	34	0.3 3	153.1	BRUCINE, APHA STD METH, 13ED, 1971
6-72	35	0.2 20	68.8	OTHER
6-72	36	0.1 1	15.6	BRUCINE, USGS TWRI, BK5 CH A1
7-72	37	0.2 5	68.8	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION

TOTAL RANGE 0.0 - 1.0000
 MEAN 0.1185 AVERAGE DEVIATION 0.0497
 STANDARD DEVIATION 0.0681 95 PCT.CONF.INTVL OF MEAN 0.1185 +OR- 0.0270

SAMPLE 37

NO3

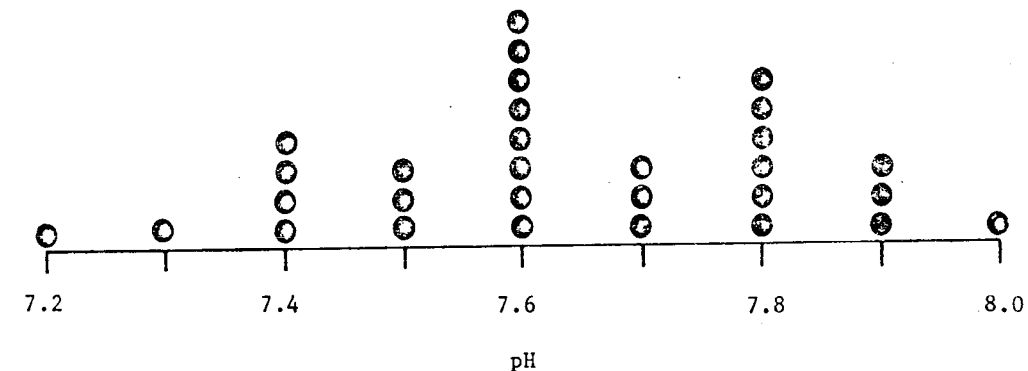
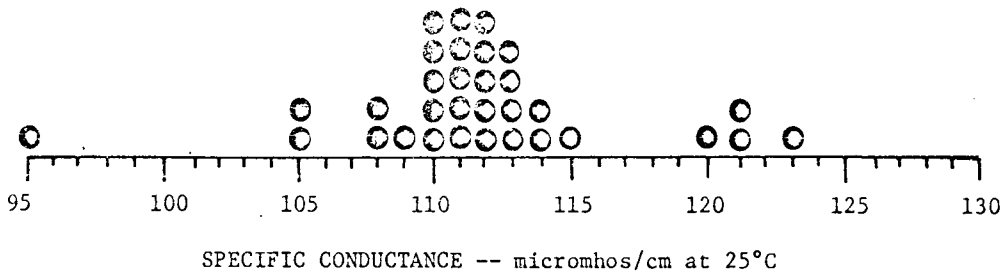
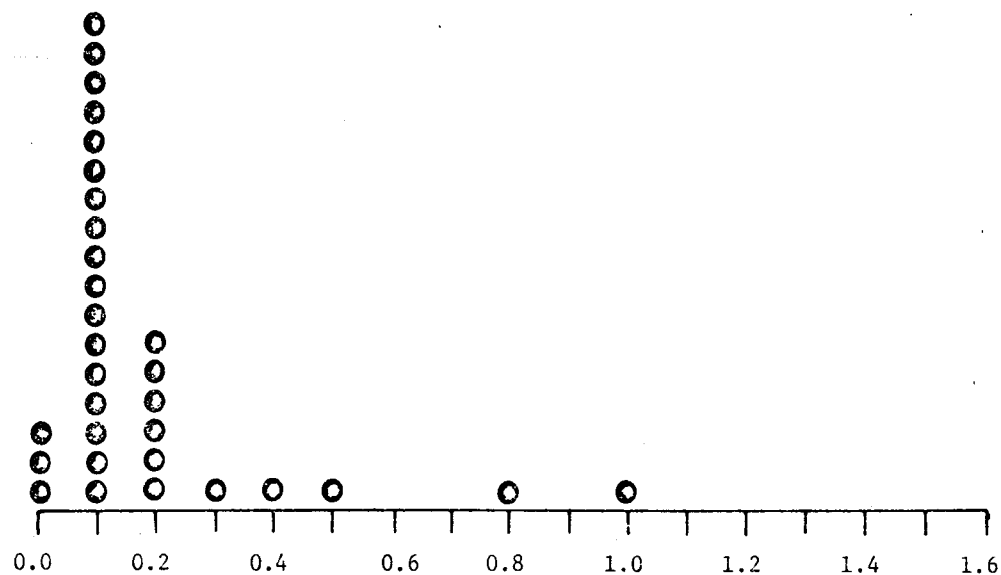
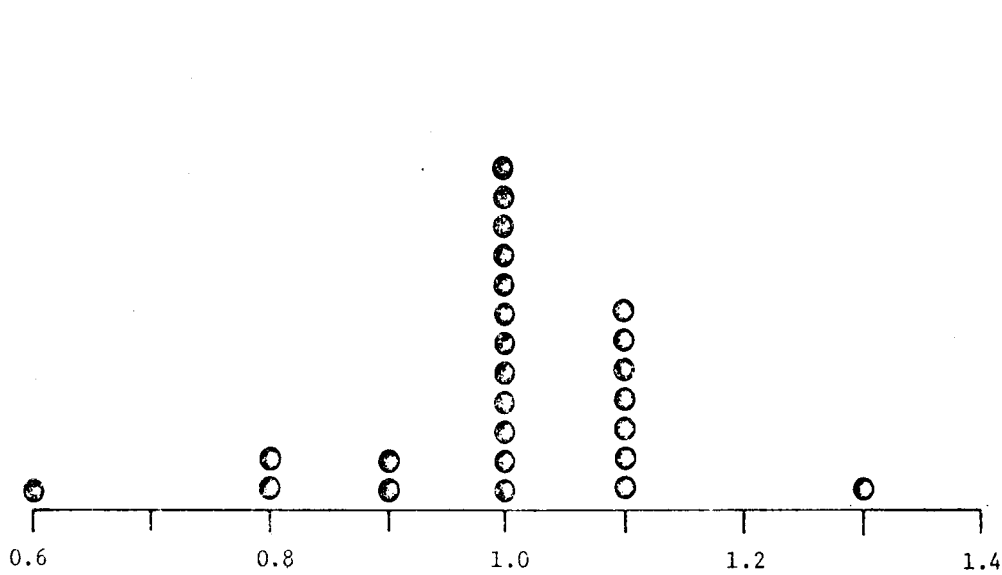
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	120	6.9	OTHER
6-72	2	111	1.1	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	3	112 ✓	0.2	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	4	115	2.4	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	5	110	2.0	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	6	113	0.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	7	109	2.9	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	8	113	0.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	9	111	1.1	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	10	95	15.4	REJECT DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	11	123	9.6	WHEATSTONE BRIDGE, APHA STD METH, 13ED, 1971
6-72	12	121	7.8	WHEATSTONE BRIDGE, APHA STD METH, 13ED, 1971
6-72	13	113	0.7	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	15	111	1.1	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	16	114	1.6	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	17	112	0.2	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	18	112	0.2	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	19	112	0.2	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	20	110	2.0	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	21	108	3.8	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	22	113	0.7	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	23	121	7.8	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	26	110	2.0	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	27	108	3.8	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	28			NOT DETERMINED
7-72	29	114	1.6	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	30	112	0.2	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
6-72	31	105	6.5	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
7-72	32	110	2.0	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	33	110	2.0	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	34	105	6.5	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
6-72	35			NOT DETERMINED
6-72	36	111	1.1	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
7-72	37	111	1.1	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1

TOTAL RANGE	95.0000	-	123.0000						
MEAN	112.2578		AVERAGE DEVIATION	2.9136					SAMPLE 37
STANDARD DEVIATION	4.2029		95 PCT.CONF.INTVL OF MEAN	112.2578 +OR-	1.5414				SP.COND

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1	7.4	2.3	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	2	7.1	6.3	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	3	7.8	3.0	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	4	8.0	5.6	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	5	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	6	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	7	7.3	3.6	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	8	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	9	7.5	1.0	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	10	5.1	32.7	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	11	7.9	4.3	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	12	7.8	3.0	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	13	7.8	3.0	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	15	7.4	2.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	16	7.5	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	17	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	18	6.8	10.2	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	19	7.5	1.0	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	20	7.9	4.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	21	7.7	1.6	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	22	7.5	1.0	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	23	7.4	2.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	26	7.8	3.0	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
7-72	27	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	28	7.8	3.0	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	29	7.1	6.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	30	7.7	1.6	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	31	7.4	2.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	32	7.9	4.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	33	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	34	7.8	3.0	INSTRUMENT, USGS TWRI BK5 CH A1
6-72	35	7.2	5.0	GLASS ELECTRODE, APHA STD METH, 13ED, 1971
6-72	36	7.6	0.3	INSTRUMENT, USGS TWRI BK5 CH A1
7-72	37	7.7	1.6	INSTRUMENT, USGS TWRI BK5 CH A1

REJECT

TOTAL RANGE	5.1000 -	8.0000					
MEAN	7.5757	AVERAGE DEVIATION	0.2006				SAMPLE 37
STANDARD DEVIATION	0.2658	95 PCT.CONF.INTVL OF MEAN	7.5757 +OR-	0.0939			PH



SAMPLE NO. 37

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
6-72	1			NOT DETERMINED
6-72	2	OK 40	50.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	3	120	50.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	4	50	37.5	OTHER
7-72	5			NOT DETERMINED
6-72	6	90	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	7	110	37.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	8			NOT DETERMINED
7-72	9	80	0.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	10			NOT DETERMINED
6-72	11			NOT DETERMINED
6-72	12			NOT DETERMINED
6-72	13	60	25.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	15			NOT DETERMINED
6-72	16	110	37.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	17			NOT DETERMINED
7-72	18			NOT DETERMINED
7-72	19			NOT DETERMINED
7-72	20	10	87.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	21	190	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	22			NOT DETERMINED
7-72	23	100	25.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	26			NOT DETERMINED
7-72	27	70	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	28	60	25.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	29	80	0.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	30			NOT DETERMINED
6-72	31	90	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	32			NOT DETERMINED
6-72	33	100	25.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
6-72	34			NOT DETERMINED
6-72	35			NOT DETERMINED
6-72	36	0/90	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
7-72	37	90	12.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1

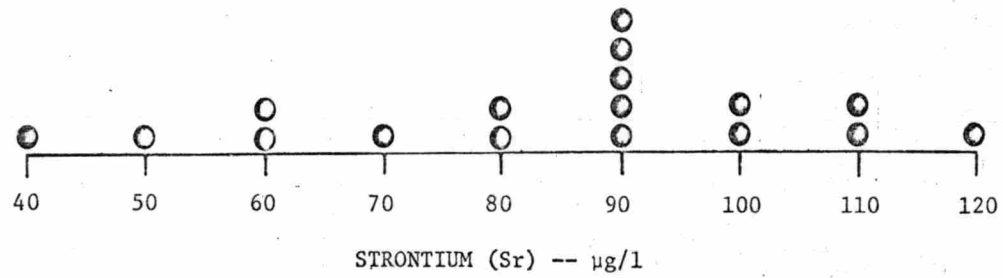
TOTAL RANGE 10.0000 - 120.0000

MEAN 79.9998 AVERAGE DEVIATION 21.1111

STANDARD DEVIATION 27.6533 95 PCT.CONF.INTVL OF MEAN 79.9998 +OR- 13.7529

SAMPLE 37

SR



SAMPLE NO. 37

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
SI02	29	0	52	83	86
CA	33	3	53	53	94
MG	33	3	44	84	91
NA	31	6	62	76	90
K	32	3	29	68	90
HCO3	33	6	52	77	90
SO4	31	6	59	72	93
CL	32	6	27	90	93
F	29	7	52	85	93
NO3	31	13	63	63	96
SP. COND	32	3	45	74	90
PH	34	3	33	73	97
SR	18	0	44	67	94

SAMPLE NO. 37