

REPORT OF

ANALYTICAL EVALUATION PROGRAM

STANDARD REFERENCE WATER SAMPLES NUMBERS 50, 51, 52 and 53

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

December 1975

STANDARD REFERENCE WATER SAMPLES NUMBERS 50, 51, 52 AND 53

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 42 laboratories for Standard Reference Water Samples numbers 50, 51, 52, and 53 distributed on October 24, 1975.

The "Instructions for Analysis and Reporting Results" did not specify any particular order for performing the determinations, nor were any restrictions placed on methods or instruments. Presumably, each laboratory made only those determinations which it routinely makes in the course of its normal operations. This program operates as a quality-control tool to enable the participating laboratories to detect deficiencies in their analytical programs. Laboratories are identified in this report only by a preassigned code number.

PREPARATION OF SAMPLES

Approximately 150 gallons of each sample was collected. Sample Nos. 52 and 53 were acidified to a pH of about 1.5 with nitric acid and then the minor elements were added. Thymol was added to all the samples and each sample was then filtered through a 0.45- μm 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 - NOS. 50 and 51

Silica (SiO_2)	Flouride (F)
Calcium (Ca)	Nitrate Nitrogen ($\text{NO}_3\text{-N}$)
Magnesium (Mg)	Dissolved Solids (residue)
Sodium (Na)	Specific Conductance
Potassium (K)	pH
Bicarbonate (HCO_3)	Boron (B)
Sulfate (SO_4)	Strontium (Sr)
Chloride (Cl)	

DETERMINATIONS - NOS. 52 and 53

Aluminum (Al)	Cadmium (Cd)	Mercury (Hg)
Iron (Fe)	Chromium, total (Cr)	Molybdenum (Mo)
Manganese (Mn)	Cobalt (Co)	Nickel (Ni)
Arsenic (As)	Copper (Cu)	Selenium (Se)
Barium (Ba)	Lead (Pb)	Silver (Ag)
Beryllium (Be)	Lithium (Li)	Zinc (Zn)

STATISTICAL EVALUATION

A statistical evaluation of the data has established the most reliable estimate of the true value for each of the various constituents determined. Reported values of "less than" and "zero" were considered as "not determined" and hence do not enter into the computation of the means, standard deviations, etc. Mathematical computations are the same as those used previously for similar Standard Reference Water Samples of this type.

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 ($X \pm \text{STD}$), and within two standard deviations ($X \pm 2 \text{ STD}$) are also given.

PARTICIPATING LABORATORIES

U.S. Geological Survey

ARIZONA, Yuma: Livesay
CALIFORNIA, Menlo Park: Hem
CALIFORNIA, Menlo Park: Presser
CALIFORNIA, Menlo Park: Kennedy
COLORADO, Lakewood: Barnett

FLORIDA, Ocala: Kirkland
GEORGIA, Doraville: Leifeste
NEW YORK, Albany: Malo
UTAH, Salt Lake City: McAvoy

Other

ALABAMA, University: Geological Survey of Alabama, Lloyd
ALABAMA, University: Geological Survey of Alabama, Malatino
~~ARKANSAS~~, Little Rock: Department of Pollution Control & Ecology
CALIFORNIA, Oakland: East Bay Municipal Utility District
FLORIDA, West Palm Beach: Florida Flood Control District
GEORGIA, Athens: Department of Horticulture
GEORGIA, Atlanta: Department of Natural Resources
GEORGIA, Atlanta: Environmental Protection Division
KANSAS, Lawrence: Kansas Geological Survey
KANSAS, Topeka: Department of Health
MASSACHUSETTS, Wellesley Hills: Department of Public Works
MISSOURI, Columbia: Environmental Trace Substances Center
MISSOURI, Jefferson City: Bureau of Environmental Health
MONTANA, Butte: Montana Bureau of Mines & Geology

Other--continued

NEVADA, Carson City: Bureau of Environmental Health
NEW MEXICO, Gallup: Soil & Water Materials
NEW YORK, Hauppauge: Department of Environmental Control
NEW YORK, Long Island: County Water Authority
NORTH DAKOTA, Bismarck: North Dakota State Labs
OHIO, Dayton: Miami Conservancy District
OKLAHOMA, Oklahoma City: Oklahoma Water Resources Board
PENNSYLVANIA, West Chester: Chester County Health Department
SOUTH CAROLINA, Columbia: Division of Analytical Services
SOUTH DAKOTA, Brookings: Water Quality Laboratory
TENNESSEE, Chattanooga: Laboratory Branch
TENNESSEE, Knoxville: Environmental Engineering Lab
VIRGINIA, Manassas: Occoquan Watershed Monitoring Laboratory
VIRGINIA, Richmond: Consolidated Laboratories
WASHINGTON, Olympia: Washington Department of Ecology
WEST VIRGINIA, Morgantown: Geological & Economic Survey
WISCONSIN, Delafield: Department of Natural Resources
WYOMING, Laramie: Wyoming Department of Agriculture

Foreign

BRAZIL, Minas Gerais, Belo Horizonte: Cia De Pesquisa De Recursos
Minerais

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	2	8.0	0.1	
11-75	3	5.9	26.3	REJECT: MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
11-75	4			MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	5	7.6	5.1	NOT DETERMINED
11-75	6			ATOMIC ABS-DIRECT
11-75	7	8.0	0.1	NOT DETERMINED
11-75	8	8.0	0.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	9			MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	11			NOT DETERMINED
11-75	12	8.2	2.4	NOT DETERMINED
11-75	13	7.4	7.6	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	14			ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	15			NOT DETERMINED
11-75	16	8.2	2.4	NOT DETERMINED
11-75	17	8.5	6.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	18			MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	19	8.3	3.6	NOT DETERMINED
11-75	20	8.7	8.6	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	7.0	12.6	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	22			MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	23	8.4	4.9	NOT DETERMINED
11-75	24			MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	25	8.1	1.1	NOT DETERMINED
11-75	27			ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	28	7.1	11.4	NOT DETERMINED
11-75	29	7.6	5.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	30			TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	7.5	6.4	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	8.2	2.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	39	9.2	14.8	OTHER <i>not given</i>
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43	13	62.3	REJECT: MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
11-75	44			NOT DETERMINED
11-75	45	8.2	2.4	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971

TOTAL RANGE 5.9 - 13 SAMPLE 50
 MEAN 8.0105
 STANDARD DEVIATION 0.5446 AVERAGE DEVIATION 0.4100
 95 PCT.CONF.INTVL OF MEAN 8.0105 +OR- 0.2625 SI02

M-50

SiO₂

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	88	96.5	REJECT
11-75	3	46	2.7	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	4	68	51.8	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	5	45	0.5	ATOMIC ABS-DIRECT
11-75	6	43	4.0	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	7	43	4.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	46	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	35	21.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	11	40	10.7	ATOMIC ABS-DIRECT
11-75	12	48	7.2	ATOMIC ABS-DIRECT
11-75	13	47	4.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	14	44	1.8	ATOMIC ABS-DIRECT
11-75	15			NOT DETERMINED
11-75	16	46	2.7	ATOMIC ABS-DIRECT
11-75	17	42	6.2	ATOMIC ABS-DIRECT
11-75	18	51	13.9	ATOMIC ABS-DIRECT
11-75	19	47	4.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	41	8.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	46	2.7	COMPLEXOMETRIC, USGS TWRI BK5 CH A1
11-75	22	34	24.1	ATOMIC ABS-DIRECT
11-75	23	44	1.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25	51	13.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27	40	10.7	ATOMIC ABS-DIRECT
11-75	28	46	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	47	4.9	EMISSION-FLAME
11-75	31	42	6.2	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	32	48	7.2	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	36	19.6	ATOMIC ABS-DIRECT
11-75	35	50	11.6	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	37	51	13.9	ATOMIC ABS-DIRECT
11-75	38	45	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	43	7.2	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	40	46	2.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	45	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	42	47	4.9	ATOMIC ABS-DIRECT
11-75	43	44	1.8	COMPLEXOMETRIC, USGS TWRI BK5 CH A1
11-75	44	49	9.4	ATOMIC ABS-DIRECT
11-75	45	93	107.6	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971

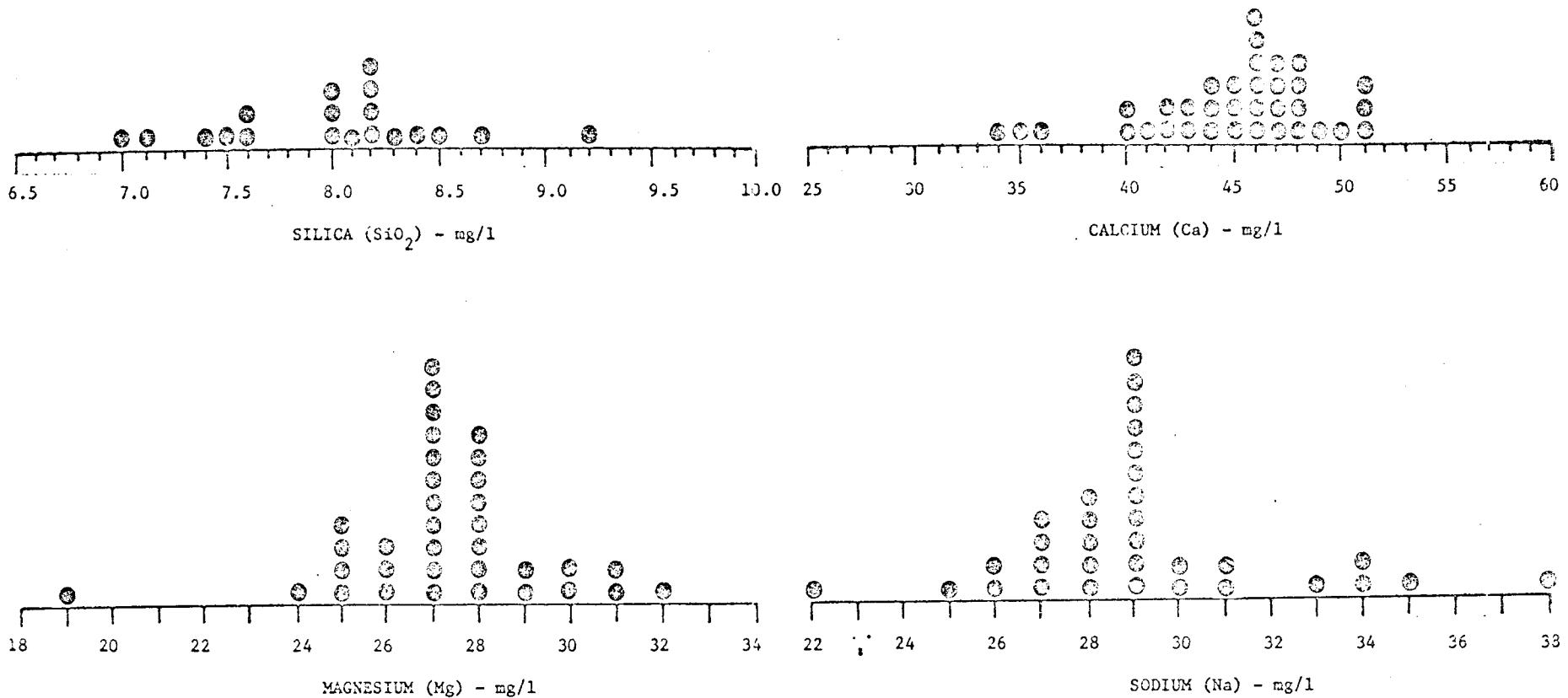
TOTAL RANGE	34	-	93	SAMPLE 50
MEAN	44.7939	AVERAGE DEVIATION	3.1955	
STANDARD DEVIATION	4.2411	95 PCT.CONF.INTVL OF MEAN	44.7939 +QR-	1.4765 CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	25	9.1	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	3	28	1.8	CALCULATION, USGS TWRI BKS CH A1
11-75	4	19	30.9	ATOMIC ABS-DIRECT
11-75	5	27	1.8	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	6	28	1.8	ATOMIC ABS-DIRECT
11-75	7	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	8	29	5.5	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	9	28	1.8	ATOMIC ABS-DIRECT
11-75	11	26	5.5	ATOMIC ABS-DIRECT
11-75	12	29	5.5	ATOMIC ABS-DIRECT
11-75	13	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	14	25	9.1	ATOMIC ABS-DIRECT
11-75	15			NOT DETERMINED
11-75	16	28	1.8	ATOMIC ABS-DIRECT
11-75	17	24	12.7	ATOMIC ABS-DIRECT
11-75	18	32	16.4	ATOMIC ABS-DIRECT
11-75	19	28	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	20	26	5.5	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	21	27	1.8	CALCULATION, USGS TWRI BKS CH A1
11-75	22			NOT DETERMINED
11-75	23	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	24			NOT DETERMINED
11-75	25	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	27	27	1.8	ATOMIC ABS-DIRECT
11-75	28	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	29			NOT DETERMINED
11-75	30	27	1.8	ATOMIC ABS-DIRECT
11-75	31	25	9.1	CALCULATION, USGS TWRI BKS CH A1
11-75	32	28	1.8	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	30	9.1	ATOMIC ABS-DIRECT
11-75	35	25	9.1	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	37	31	12.7	ATOMIC ABS-DIRECT
11-75	38	28	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	39	26	5.5	CALCULATION, USGS TWRI BKS CH A1
11-75	40	27	1.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	41	30	9.1	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	42	27	1.8	ATOMIC ABS-DIRECT
11-75	43	28	1.8	CALCULATION, USGS TWRI BKS CH A1
11-75	44	31	12.7	ATOMIC ABS-DIRECT
11-75	45	55	100.0	REJECT TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67

TOTAL RANGE 19 - 55 SAMPLE 50
 MEAN 27.4998
 STANDARD DEVIATION 1.8299 AVERAGE DEVIATION 1.3823
 95 PCT.CONF.INTVL OF MEAN 27.4998 +/- 0.6371 MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	2.8	90.4	REJECT
11-75	3	26	10.8	EMISSION-FLAME
11-75	4	26	3.9	ATOMIC ABS-DIRECT
11-75	5	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	6	29	0.5	ATOMIC ABS-DIRECT
11-75	7	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	25	14.2	ATOMIC ABS-DIRECT
11-75	11	27	7.4	ATOMIC ABS-DIRECT
11-75	12	31	6.3	ATOMIC ABS-DIRECT
11-75	13	14	52.0	REJECT
11-75	14	27	7.4	EMISSION-FLAME EMISSION-FLAME
11-75	15			NOT DETERMINED
11-75	16	29	0.5	ATOMIC ABS-DIRECT
11-75	17	30	2.9	EMISSION-FLAME
11-75	18	34	16.6	ATOMIC ABS-DIRECT
11-75	19	28	3.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	34	16.6	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	27	7.4	OTHER EMISSION - FLAME
11-75	22			NOT DETERMINED
11-75	23	29	0.5	ATOMIC ABS-DIRECT
11-75	24			NOT DETERMINED
11-75	25	40	37.2	REJECT
11-75	27	28	3.9	ATOMIC ABS-DIRECT
11-75	28	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	33	13.2	ATOMIC ABS-DIRECT
11-75	31	31	6.3	EMISSION-FLAME
11-75	32	28	3.9	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	29	0.5	EMISSION-ARC/SPARK
11-75	35	30	2.9	EMISSION-FLAME
11-75	37	29	0.5	ATOMIC ABS-DIRECT
11-75	38	28	3.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	40	29	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	26	10.8	ATOMIC ABS-DIRECT
11-75	42	38	30.4	EMISSION-ARC/SPARK
11-75	43	22	24.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	44	27	7.4	ATOMIC ABS-DIRECT
11-75	45	35	20.1	EMISSION-FLAME

TOTAL RANGE	2.8	- 40	AVERAGE DEVIATION	2.0385	SAMPLE 50
MEAN	29.1513		95 PCT.CONF.INTVL OF MEAN	29.1513 +0R-	
STANDARD DEVIATION	3.0426			1.0752	NA



SAMPLE NO. 50

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	14	18.9	OTHER IN SELECTIVE
11-75	3	12	1.9	EMISSION-FLAME
11-75	4	10	15.0	ATOMIC ABS-DIRECT
11-75	5	12	1.9	ATOMIC ABS-DIRECT
11-75	6	13	10.4	ATOMIC ABS-DIRECT
11-75	7	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	11	6.5	EMISSION-FLAME
11-75	11	12	1.9	ATOMIC ABS-DIRECT
11-75	12	9.2	21.8	ATOMIC ABS-DIRECT
11-75	13	12	1.9	EMISSION-FLAME
11-75	14	12	1.9	EMISSION-FLAME
11-75	15			NOT DETERMINED
11-75	16	10	15.0	ATOMIC ABS-DIRECT
11-75	17	11	6.5	EMISSION-FLAME
11-75	18	16	35.9	REJECT ATOMIC ABS-DIRECT
11-75	19	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	11	6.5	OTHER - EMISSION FLAME
11-75	22			NOT DETERMINED
11-75	23	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25	20	69.9	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27	12	1.9	ATOMIC ABS-DIRECT
11-75	28	11	6.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	12	1.9	ATOMIC ABS-DIRECT
11-75	31	11	6.5	EMISSION-FLAME
11-75	32	12	1.9	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	12	1.9	EMISSION-ARC/SPARK
11-75	35	12	1.9	EMISSION-FLAME
11-75	37	11	6.5	ATOMIC ABS-DIRECT
11-75	38	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	40	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	11	6.5	ATOMIC ABS-DIRECT
11-75	42	12	1.9	ATOMIC ABS-DIRECT
11-75	43	12	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	44	13	10.4	ATOMIC ABS-DIRECT
11-75	45	14	18.9	EMISSION-FLAME

TOTAL RANGE : 9.2 - 20 SAMPLE 50
 MEAN : 11.7705
 STANDARD DEVIATION : 0.9700 AVERAGE DEVIATION : 0.6769
 95 PCT.CONF.INTVL OF MEAN : 11.7705 +/- 0.3377 K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	28	21.6	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	3	24	4.2	AUTOMATED ELECTROMETRIC TITRATION
11-75	4	24	4.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	5	21	8.8	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	26	12.9	AUTOMATED ELECTROMETRIC TITRATION
11-75	8	29	25.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	9			NOT DETERMINED
11-75	11	18	21.8	INDICATOR, APHA STD METH, 13ED, 1971
11-75	12			NOT DETERMINED
11-75	13	22	4.5	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	14	21	8.8	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	15			NOT DETERMINED
11-75	16	20	13.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	17	23	0.1	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	18	32	38.9	INDICATOR, APHA STD METH, 13ED, 1971
11-75	19	24	4.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	20	24	4.2	OTHER - CATIONIC INDICATOR
11-75	21	24	4.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	22	26	12.9	INDICATOR, APHA STD METH, 13ED, 1971
11-75	23	22	4.5	AUTOMATED ELECTROMETRIC TITRATION
11-75	24			NOT DETERMINED
11-75	25	18	21.8	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	27	22	4.5	INDICATOR, APHA STD METH, 13ED, 1971
11-75	28	23	0.1	AUTOMATED ELECTROMETRIC TITRATION
11-75	29	24	4.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	30	27	17.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	31	24	4.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	32	12	47.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
12-75	33	20	13.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	34	20	13.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	35	24	4.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	37			NOT DETERMINED
11-75	38	25	8.6	AUTOMATED ELECTROMETRIC TITRATION
11-75	39	27	17.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	40	24	4.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43	24	4.2	INDICATOR, APHA STD METH, 13ED, 1971
11-75	44	26	12.9	INDICATOR, APHA STD METH, 13ED, 1971
11-75	45	12	47.9	INDICATOR, APHA STD METH, 13ED, 1971

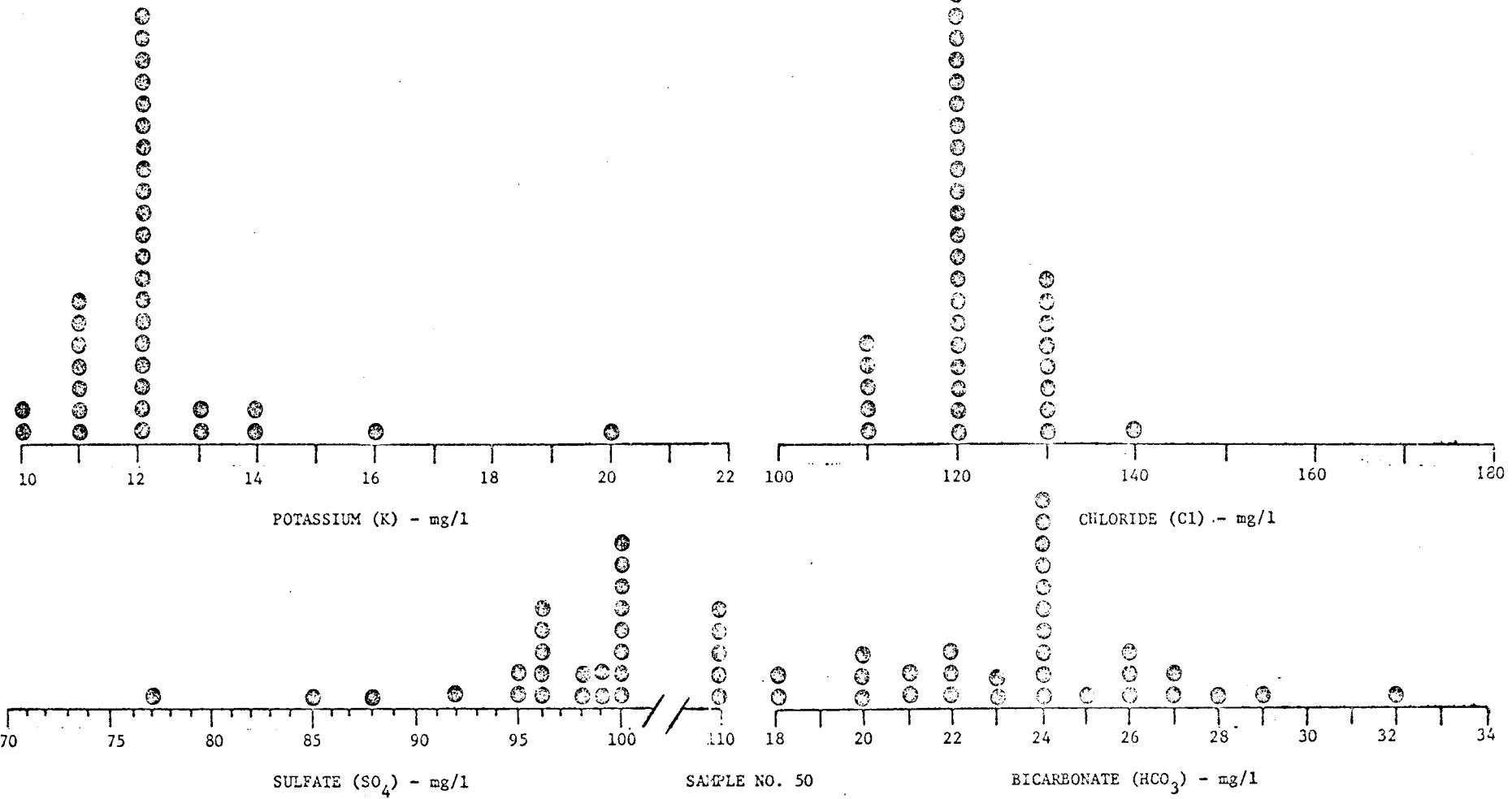
TOTAL RANGE	12	- 32	SAMPLE 50
MEAN	23.0301	AVERAGE DEVIATION	2.9348
STANDARD DEVIATION	4.1268	95 PCT.CONF.INTVL OF MEAN	23.0301 ± OR ± 1.4583 HC03

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	95	3.5	TURBIDIMETRIC
11-75	3	98	0.4	OTHER - <i>not given</i>
11-75	4			NOT DETERMINED
11-75	5	100	1.6	VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	96	2.5	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-75	8	96	2.5	VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	9	88	10.6	TURBIDIMETRIC
11-75	11	100	1.6	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	12	64	35.0	REJECT TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-75	13	210	113.4	REJECT OTHER - <i>Indirect AD</i>
11-75	14	77	21.8	OTHER - <i>not given</i>
11-75	15			NOT DETERMINED
11-75	16	85	13.6	TURBIDIMETRIC
11-75	17	100	1.6	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	18	95	3.5	TURBIDIMETRIC
11-75	19	55	44.1	REJECT VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	20	96	2.5	VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	21	100	1.6	VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	100	1.6	OTHER - <i>not given</i>
11-75	24			NOT DETERMINED
11-75	25	110	11.8	TURBIDIMETRIC
11-75	27	100	1.6	TURBIDIMETRIC
11-75	28	99	0.6	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-75	29			NOT DETERMINED
11-75	30	99	0.6	TURBIDIMETRIC
11-75	31	180	82.9	REJECT TURBIDIMETRIC
11-75	32	110	11.8	TURBIDIMETRIC
12-75	33	110	11.8	TURBIDIMETRIC
11-75	34	110	11.8	TURBIDIMETRIC
11-75	35	98	0.4	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	37			NOT DETERMINED
11-75	38	96	2.5	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-75	39	100	1.6	TURBIDIMETRIC
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	100	1.6	TURBIDIMETRIC
11-75	43	96	2.5	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	44	110	11.8	VOLUMETRIC THORIN, USGS TWRI BK5 CH A1
11-75	45	92	6.5	OTHER - <i>not given</i>

TOTAL RANGE 55 - 210 SAMPLE 50
 MEAN 98.4283
 STANDARD DEVIATION 7.5347 AVERAGE DEVIATION 5.1123
 95 PCT.CONF.INTVL OF MEAN 98.4283 +OR- 2.9219 S04

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	130	7.2	MERCURIOMETRIC, USGS TWRI BKS CH A1
11-75	3	120	1.1	ION-SELECTIVE ELECTRODE
11-75	4	110	9.3	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	5	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	6	130	7.2	ION-SELECTIVE ELECTRODE
11-75	7	130	7.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	8	120	1.1	MERCURIOMETRIC, USGS TWRI BKS CH A1
11-75	9	140	15.4	MOHR, USGS TWRI BKS CH A1
11-75	11	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	12	120	1.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	13	120	1.1	ION-SELECTIVE ELECTRODE
11-75	14	110	9.3	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	15	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	16	110	9.3	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	17	120	1.1	MERCURIOMETRIC, USGS TWRI BKS CH A1
11-75	18	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	19	120	1.1	MERCURIOMETRIC, USGS TWRI BKS CH A1
11-75	20	120	1.1	MOHR, USGS TWRI BKS CH A1
11-75	21	120	1.1	MOHR, USGS TWRI BKS CH A1
11-75	22			NOT DETERMINED
11-75	23	120	1.1	MOHR, USGS TWRI BKS CH A1
11-75	24	130	7.2	MOHR, USGS TWRI BKS CH A1
11-75	25	110	9.3	ION-SELECTIVE ELECTRODE
11-75	27	130	7.2	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	28	130	7.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	29	120	1.1	SILVER NITRATE, ASTM METHOD B, D512-67
11-75	30	120	1.1	OTHER - SAWYER 1973
11-75	31	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	32	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
12-75	33	120	1.1	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	34	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	35	130	7.2	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	37	120	1.1	ION-SELECTIVE ELECTRODE
11-75	38	120	1.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	39	120	1.1	MOHR, USGS TWRI BKS CH A1
11-75	40	120	1.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	41			NOT DETERMINED
11-75	42	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	43	130	7.2	MOHR, USGS TWRI BKS CH A1
11-75	44	110	9.3	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	45	120	1.1	MERCURIC NITRATE, APHA STD METH, 13ED, 1971

TOTAL RANGE 110 - 140 SAMPLE 50
 MEAN 121.2813 AVERAGE DEVIATION 4.5361
 STANDARD DEVIATION 6.5612 95 PCT.CONF.INTVL OF MEAN 121.2813 +OR- 2.1233 CL



DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	2.1	1.0	MANUAL ION-SELECTIVE ELECTRODE
11-75	3	2.5	20.2	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	4	2.0	3.8	MANUAL ION-SELECTIVE ELECTRODE
11-75	5	2.0	3.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	6	1.8	13.5	MANUAL ION-SELECTIVE ELECTRODE
11-75	7	2.3	10.6	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	8	2.7	29.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	9	2.2	5.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	11	2.1	1.0	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	12			NOT DETERMINED
11-75	13	2.0	3.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16			NOT DETERMINED
11-75	17	3.1	49.0	REJECT SPADNS, APHA STD METH, 13ED, 1971
11-75	18	2.0	3.8	SPADNS, APHA STD METH, 13ED, 1971
11-75	19	2.0	3.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	20	2.2	5.8	OTHER ION-SELECTIVE ELECTRODE
11-75	21	1.7	18.3	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	2.0	3.8	MANUAL ION-SELECTIVE ELECTRODE
11-75	24			NOT DETERMINED
11-75	25	2.2	5.8	SPADNS, APHA STD METH, 13ED, 1971
11-75	27	2.2	5.8	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	28	1.9	8.7	TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
11-75	29			NOT DETERMINED
11-75	30	2.0	3.8	MANUAL ION-SELECTIVE ELECTRODE
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	2.5	20.2	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	37			NOT DETERMINED
11-75	38	2.0	3.8	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	39	2.1	1.0	OTHER ION-SELECTIVE ELECTRODE
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	1.9	8.7	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	43	1.5	27.9	OTHER ION-SELECTIVE ELECTRODE
11-75	44	2.1	1.0	MANUAL ION-SELECTIVE ELECTRODE
11-75	45			NOT DETERMINED

TOTAL RANGE 1.5 - 3.1 SAMPLE 50
 MEAN 2.0800
 STANDARD DEVIATION 0.2517 AVERAGE DEVIATION 0.1792
 95 PCT.CONF.INTVL OF MEAN 2.0800 +/- 0.1039 F

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	1.3	17.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	3	0.9	18.5	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	4	1.2	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	5	1.0	9.4	BRUCINE, APHA STD METH, 13ED, 1971
11-75	6	1.1	0.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	7	1.1	0.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	8	1.1	0.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	9	1.1	0.3	BRUCINE, USGS TWRI, BK5 CH A1
11-75	11	1.2	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	12	1.1	0.3	BRUCINE, APHA STD METH, 13ED, 1971
11-75	13	5.8	425.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	14	1.1	0.3	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	15	1.2	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	16	1.1	0.3	MANUAL CADMIUM REDUCTION-DIAZOTIZATION
11-75	17	0.7	36.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	18	0.6	45.6	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	19	1.0	9.4	BRUCINE, APHA STD METH, 13ED, 1971
11-75	20			BRUCINE, USGS TWRI, BK5 CH A1
11-75	21			NOT DETERMINED
11-75	22	1.1	0.3	NOT DETERMINED
11-75	23			TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	24			NOT DETERMINED
11-75	25	48	*****	NOT DETERMINED
11-75	27	1.3	17.8	REJECT OTHER - IN SECTION
11-75	28	1.0	9.4	BRUCINE, APHA STD METH, 13ED, 1971
11-75	29	0.9	18.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	30	1.0	9.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	31	1.0	9.4	OTHER - IN SECTION
11-75	32			BRUCINE, APHA STD METH, 13ED, 1971
12-75	33			NOT DETERMINED
11-75	34	1.3	17.8	NOT DETERMINED
11-75	35	3.7	235.2	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	37	1.1	0.3	OTHER - IN SECTION
11-75	38	1.1	0.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	39	1.0	9.4	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	40	1.2	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	41			NOT DETERMINED
11-75	42	1.2	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	43	5.0	353.0	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	44			NOT DETERMINED
11-75	45	1.8	63.1	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971

TOTAL RANGE 0.6 - 48

MEAN 1.1038
STANDARD DEVIATION 0.1113

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

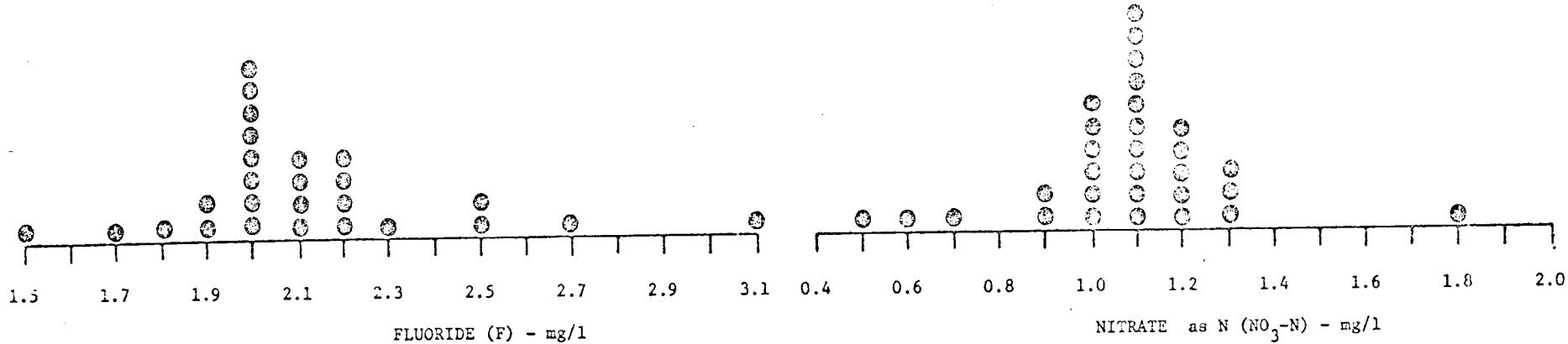
0.0822
1.1038 ±0.1113
0.0450 NO3-N

SAMPLE 50

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	522	21.7	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888-67
11-75	3	417	2.8	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	4	370	13.7	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	436	1.7	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	8	416	3.0	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	9	408	4.9	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	11	379	11.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	12			NOT DETERMINED
11-75	13	484	12.8	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888-67
11-75	14	495	15.4	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	15	471	9.8	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	16	400	6.7	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	17	482	12.4	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	18	420	2.1	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	19	441	2.8	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	20	414	3.5	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	21	370	13.7	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	22	426	0.7	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	23			NOT DETERMINED
11-75	24			NOT DETERMINED
11-75	25	476	11.0	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	27	415	3.2	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	28	424	1.1	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	390	9.1	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	31	431	0.5	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	32	432	0.7	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
12-75	33	472	10.0	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	34			NOT DETERMINED
11-75	35	444	3.5	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	37	338	21.2	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	38			NOT DETERMINED
11-75	39	400	6.7	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	483	12.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	43	360	16.1	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	44	42	90.2	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
11-75	45	451	5.2	RESIDUE-ON-EVAPORATION, USGS TWRI BK5 CH A1
TOTAL RANGE	42	- 522		SAMPLE 50
MEAN		428.8972	AVERAGE DEVIATION	34.3598
STANDARD DEVIATION		43.7424	95 PCT.CONF.INTVL OF MEAN	428.8972 +OR- 16.3318 DSRD180

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	650	1.5	DIRECT READING INSTRUMENT
11-75	3	684	3.6	WHEATSTONE BRIDGE
11-75	4	625	5.3	DIRECT READING INSTRUMENT
11-75	5	680	3.0	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	6	663	0.5	DIRECT READING INSTRUMENT
11-75	7	685	3.8	DIRECT READING INSTRUMENT
11-75	8	620	6.1	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	9	630	4.5	WHEATSTONE BRIDGE
11-75	11	659	0.1	WHEATSTONE BRIDGE
11-75	12			NOT DETERMINED
11-75	13	566	14.2	DIRECT READING INSTRUMENT
11-75	14	690	4.6	WHEATSTONE BRIDGE
11-75	15	676	2.4	WHEATSTONE BRIDGE
11-75	16	650	1.5	WHEATSTONE BRIDGE
11-75	17	670	1.5	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	18	633	4.1	WHEATSTONE BRIDGE
11-75	19	678	2.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	20	689	4.4	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	21	692	4.9	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	695	5.3	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	24	674	2.1	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	25	700	6.1	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	27	695	5.3	DIRECT READING INSTRUMENT
11-75	28	581	12.0	DIRECT READING INSTRUMENT
11-75	29	675	2.3	DIRECT READING INSTRUMENT
11-75	30	670	1.5	DIRECT READING INSTRUMENT
11-75	31	608	7.9	DIRECT READING INSTRUMENT
11-75	32	657	0.4	DIRECT READING INSTRUMENT
12-75	33			NOT DETERMINED
11-75	34	626	5.1	DIRECT READING INSTRUMENT
11-75	35	680	3.0	WHEATSTONE BRIDGE
11-75	37	620	6.1	DIRECT READING INSTRUMENT
11-75	38	678	2.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	39	730	10.6	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	40	681	3.2	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42	660	0.0	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	43			NOT DETERMINED
11-75	44	628	4.8	DIRECT READING INSTRUMENT
11-75	45	660	0.0	DIRECT READING INSTRUMENT

TOTAL RANGE 566 - 730 SAMPLE 50
 MEAN 659.9412 AVERAGE DEVIATION 27.0130
 STANDARD DEVIATION 34.6063 95 PCT.CONF.INTVL OF MEAN 659.9412 +OR- 11.7085 SP.COND



DISSOLVED SOLIDS - mg/l
No Graphical presentation
due to scatter of data

SPECIFIC CONDUCTANCE - micromhos/cm at 25°^C
No Graphical presentation
due to scatter of data

SAMPLE NO. 50

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	7.2	3.0	ELECTROMETRIC
11-75	3	7.5	1.0	ELECTROMETRIC
11-75	4	7.7	3.7	ELECTROMETRIC
11-75	5	7.4	0.3	ELECTROMETRIC
11-75	6	6.9	7.0	ELECTROMETRIC
11-75	7	7.2	3.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	8	7.2	3.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	9	7.0	5.7	ELECTROMETRIC
11-75	11	7.3	1.7	ELECTROMETRIC
11-75	12	7.7	3.7	ELECTROMETRIC
11-75	13	7.9	6.4	ELECTROMETRIC
11-75	14	7.5	1.0	ELECTROMETRIC
11-75	15	7.0	5.7	ELECTROMETRIC
11-75	16	7.7	3.7	ELECTROMETRIC
11-75	17	7.6	2.4	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	18	7.4	0.3	ELECTROMETRIC
11-75	19	7.6	2.4	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	20	7.5	1.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	21	7.7	3.7	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	22	7.4	0.3	ELECTROMETRIC
11-75	23	7.5	1.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	24	7.5	1.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	25	7.3	1.7	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	27	7.4	0.3	ELECTROMETRIC
11-75	28	7.7	3.7	ELECTROMETRIC
11-75	29	7.4	0.3	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	30	7.6	2.4	ELECTROMETRIC
11-75	31	7.4	0.3	ELECTROMETRIC
11-75	32	7.6	2.4	ELECTROMETRIC
12-75	33	7.4	0.3	ELECTROMETRIC
11-75	34	7.5	1.0	ELECTROMETRIC
11-75	35	7.3	1.7	ELECTROMETRIC
11-75	37	7.3	1.7	ELECTROMETRIC
11-75	38	7.5	1.0	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	39	7.4	0.3	ELECTROMETRIC
11-75	40	7.3	1.7	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42	7.4	0.3	ELECTROMETRIC
11-75	43	7.3	1.7	ELECTROMETRIC, USGS TWRI BK5 CH A1
11-75	44	7.0	5.7	ELECTROMETRIC
11-75	45	7.7	3.7	ELECTROMETRIC

TOTAL RANGE 6.9 - 7.9 SAMPLE 50
 MEAN 7.4225 AVERAGE DEVIATION 0.1697
 STANDARD DEVIATION 0.2213 95 PCT.CONF.INTVL OF MEAN 7.4225 +OR- .0.0707 PH

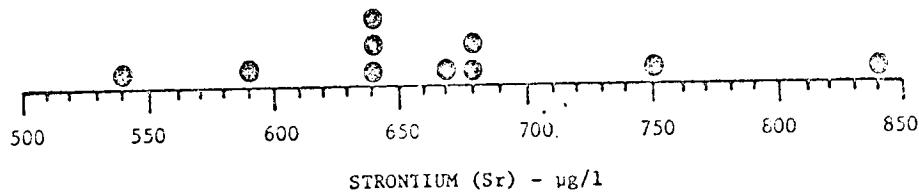
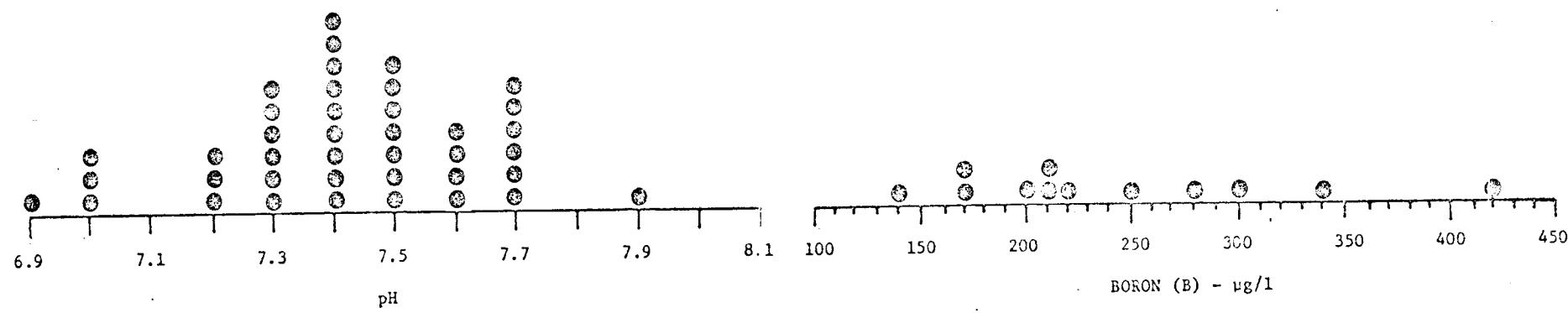
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2			NOT DETERMINED
11-75	3	420	84.5	CARMINE, USGS BK5 CH A1
11-75	4			NOT DETERMINED
11-75	5	50	78.0	CARMINE, USGS BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	220	3.4	CARMINE, USGS BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	340	49.3	CURCUMIN, APHA STD METH, 13ED, 1971
11-75	17	140	38.5	CARMINE, USGS BK5 CH A1
11-75	18	250	9.8	DIANTHРИMIDE, USGS BK5 CH A1
11-75	19	280	23.0	DIANTHРИMIDE, USGS BK5 CH A1
11-75	20			NOT DETERMINED
11-75	21			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23	210	7.8	DIANTHРИMIDE, USGS BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	200	12.2	DIANTHРИMIDE, USGS BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	210	7.6	OTHER AROMATIC 4
11-75	38	170	25.3	DIANTHРИMIDE, USGS BK5 CH A1
11-75	39	300	31.8	CURCUMIN, APHA STD METH, 13ED, 1971
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	170	25.3	CARMINE, USGS BK5 CH A1

TOTAL RANGE 50 - 420 SAMPLE 50
 MEAN 227.6921 AVERAGE DEVIATION 69.4672
 STANDARD DEVIATION 93.7329 95 PCT.CONF.INTVL OF MEAN 227.6921 +OR- 56.6471 B

B

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	540	19.0	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	680	1.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	680	1.9	ATOMIC ABS-DIRECT
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	750	12.4	ATOMIC ABS-DIRECT
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	840	25.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	21			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	24			NOT DETERMINED
11-75	25	670	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27			NOT DETERMINED
11-75	28	640	4.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	640	4.0	ATOMIC ABS-DIRECT
11-75	38	590	11.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39			NOT DETERMINED
11-75	40	640	4.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE	540	- 840	AVERAGE DEVIATION	57.0000	SAMPLE 50
MEAN	666.9980				
STANDARD DEVIATION	82.6034		95 PCT.CONF.INTVL OF MEAN	666.9980 +OR+ 59.0868	SR



SAMPLE NO. 50

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN			
			95 PCT. CI	X +OR- STD	X +OR- 2STD	
SiO ₂	21	10	42	74	95	
Ca	37	8	35	74	91	
Mg	36	6	56	71	97	
Na	36	8	39	73	94	
K	36	6	59	79	91	
HCO ₃	33	0	45	79	91	
SO ₄	32	13	61	71	96	
CL	39	0	64	64	97	
F	26	4	48	76	92	
N0 ₃ -N	33	21	38	81	100	
DSR0180	31	3	40	63	93	
SP.COND	36	0	25	72	92	
PH	40	0	23	65	95	
B	13	0	46	77	92	
SR	10	0	60	70	90	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	9.0	15.4	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
11-75	3	8.3	22.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	4			NOT DETERMINED
11-75	5	9.9	7.0	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	11	3.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	8	11	3.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12	11	3.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	13	10	6.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	11	3.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	17	11	3.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	18			NOT DETERMINED
11-75	19	12	12.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	12	12.8	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	21	10	6.0	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	11	3.4	MOLYBDATE BLUE, USGS TWRI BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25	12	12.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27			NOT DETERMINED
11-75	28	9.6	9.8	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	29	10	6.0	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	11	3.4	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	11	3.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE
11-75	39	12	12.8	OTHER
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43	15	41.0	REJECT MOLYBDOSILICATE, APHA STD METH, 13ED, 1971
11-75	44			NOT DETERMINED
11-75	45	10	6.0	MOLYBDOSILICATE, APHA STD METH, 13ED, 1971

TOTAL RANGE 8.3 - 15 SAMPLE 51
 MEAN 10.6400
 STANDARD DEVIATION 1.0226 AVERAGE DEVIATION 0.8320
 95 PCT.CONF.INTVL OF MEAN 10.6400 +OR- 0.4786 SiO₂

M-51

SiO₂

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	27	8.5	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	3	25	0.5	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	4	29	16.5	ATOMIC ABS-DIRECT
11-75	5	25	0.5	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	6	24	3.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	7	25	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	18	27.7	ATOMIC ABS-DIRECT
11-75	11	22	11.6	ATOMIC ABS-DIRECT
11-75	12	27	8.5	ATOMIC ABS-DIRECT
11-75	13	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	14	24	3.5	ATOMIC ABS-DIRECT
11-75	15			NOT DETERMINED
11-75	16	25	0.5	ATOMIC ABS-DIRECT
11-75	17	24	3.5	ATOMIC ABS-DIRECT
11-75	18	25	0.5	ATOMIC ABS-DIRECT
11-75	19	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	23	7.6	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	26	4.5	COMPLEXOMETRIC, USGS TWRI BK5 CH A1
11-75	22	19	23.6	ATOMIC ABS-DIRECT
11-75	23	25	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25	36	44.7	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27	23	7.6	ATOMIC ABS-DIRECT
11-75	28	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	25	0.5	EMISSION-FLAME
11-75	31	24	3.5	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	32	26	4.5	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	18	27.7	ATOMIC ABS-DIRECT
11-75	35	28	12.5	EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	37	28	12.5	ATOMIC ABS-DIRECT
11-75	38	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	11	55.8	REJECT EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
11-75	40	26	4.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	25	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	42	27	8.5	ATOMIC ABS-DIRECT
11-75	43	25	0.5	COMPLEXOMETRIC, USGS TWRI BK5 CH A1
11-75	44	28	12.5	ATOMIC ABS-DIRECT
11-75	45	53	113.0	REJECT EDTA TITRIMETRIC, APHA STD METH, 13ED, 1971
TOTAL RANGE	11	- 53		SAMPLE 51
MEAN		24.8622	AVERAGE DEVIATION	1.7544
STANDARD DEVIATION		2.5674	95 PCT.CONF.INTVL OF MEAN	24.8622 +OR- 0.8938 CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	7.0	5.2	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	3	6.7	0.7	CALCULATION, USGS TWRI BKS CH A1
11-75	4	6.2	6.8	ATOMIC ABS-DIRECT
11-75	5	6.2	6.8	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	6	6.8	2.2	ATOMIC ABS-DIRECT
11-75	7	7.0	5.2	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	8	7.4	11.3	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	9	10	50.3	ATOMIC ABS-DIRECT
11-75	11	6.3	5.3	ATOMIC ABS-DIRECT
11-75	12	7.2	8.2	ATOMIC ABS-DIRECT
11-75	13	6.4	3.8	ATOMIC ABS-DIRECT
11-75	14	6.0	9.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	15			ATOMIC ABS-DIRECT
11-75	16	5.9	11.3	NOT DETERMINED
11-75	17	5.9	11.3	ATOMIC ABS-DIRECT
11-75	18	7.0	5.2	ATOMIC ABS-DIRECT
11-75	19	6.6	0.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	20	6.9	3.7	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	21	6.0	9.8	CALCULATION, USGS TWRI BKS CH A1
11-75	22			NOT DETERMINED
11-75	23	6.5	2.3	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	24			NOT DETERMINED
11-75	25	7.1	6.7	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	27	7.2	8.2	ATOMIC ABS-DIRECT
11-75	28	6.1	8.3	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	29			NOT DETERMINED
11-75	30	7.0	5.2	ATOMIC ABS-DIRECT
11-75	31	4.9	26.3	REJECT CALCULATION, USGS TWRI BKS CH A1
11-75	32	6.6	0.8	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	11	65.4	REJECT ATOMIC ABS-DIRECT
11-75	35	6.1	8.3	TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67
11-75	37	6.3	5.3	ATOMIC ABS-DIRECT
11-75	38	6.7	0.7	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	39		140.5	REJECT CALCULATION, USGS TWRI BKS CH A1
11-75	40	6.4	3.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	41	7.9	18.8	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
11-75	42	6.9	3.7	ATOMIC ABS-DIRECT
11-75	43	7.0	5.2	CALCULATION, USGS TWRI BKS CH A1
11-75	44	6.9	3.7	ATOMIC ABS-DIRECT
11-75	45	13	95.4	REJECT TITRIMETRIC-EDTA, ASTM METHOD B, D1126-67

TOTAL RANGE

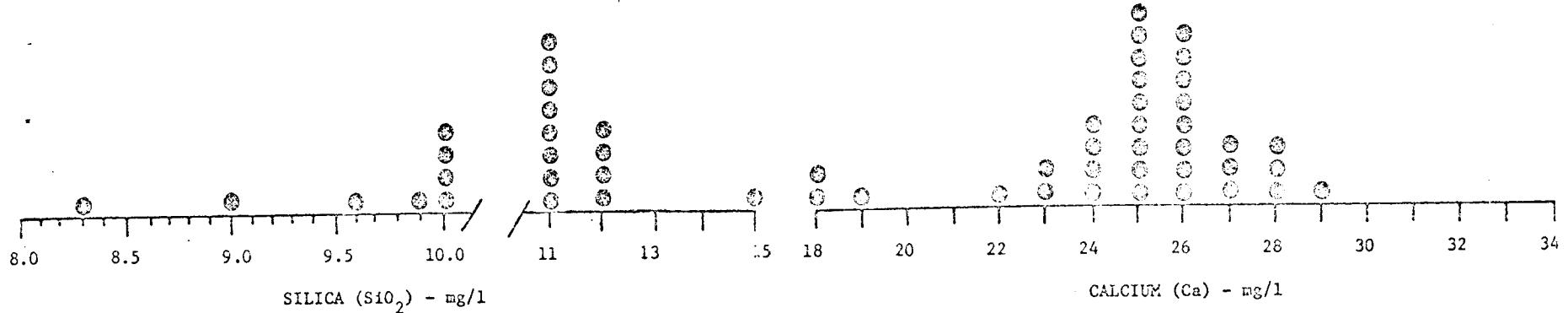
4.9

16

MEAN
STANDARD DEVIATION6.6516
0.4878AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN0.4048
6.6516 +CR-
0.1789SAMPLE 51
MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	2.0	91.5	REJECT OTHER
11-75	3	22	6.5	EMISSION-FLAME
11-75	4	23	2.2	ATOMIC ABS-DIRECT
11-75	5	20	15.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	6	24	2.0	ATOMIC ABS-DIRECT
11-75	7	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	24	2.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	18	23.5	ATOMIC ABS-DIRECT
11-75	11	22	6.5	ATOMIC ABS-DIRECT
11-75	12	25	6.3	ATOMIC ABS-DIRECT
11-75	13	21	10.7	EMISSION-FLAME
11-75	14	21	10.7	EMISSION-FLAME
11-75	15			NOT DETERMINED
11-75	16	29	23.3	ATOMIC ABS-DIRECT
11-75	17	24	2.0	EMISSION-FLAME
11-75	18	30	27.5	ATOMIC ABS-DIRECT
11-75	19	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	27	14.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	22	6.5	OTHER
11-75	22			NOT DETERMINED
11-75	23	24	2.0	ATOMIC ABS-DIRECT
11-75	24			NOT DETERMINED
11-75	25	43	82.8	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27	22	6.5	ATOMIC ABS-DIRECT
11-75	28	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	29	23.3	ATOMIC ABS-DIRECT
11-75	31	25	6.3	EMISSION-FLAME
11-75	32	23	2.2	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	24	2.0	EMISSION-ARC/SPARK
11-75	35	25	6.3	EMISSION-FLAME
11-75	37	23	2.2	ATOMIC ABS-DIRECT
11-75	38	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	40	23	2.2	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	22	6.5	ATOMIC ABS-DIRECT
11-75	42	26	10.5	EMISSION-ARC/SPARK
11-75	43	17	27.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	44	22	6.5	ATOMIC ABS-DIRECT
11-75	45	28	19.0	EMISSION-FLAME

TOTAL RANGE 2.0 - 43 SAMPLE 51
 MEAN 23.5292 AVERAGE DEVIATION 2.0346
 STANDARD DEVIATION 2.8202 95 PCT.CONF.INTVL OF MEAN 23.5292 +/- 0.9818 NA



DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	6.0	51.1	REJECT
11-75	3	4.4	10.8	EMISSION-FLAME
11-75	4	4.1	3.3	ATOMIC ABS-DIRECT
11-75	5	3.9	1.8	ATOMIC ABS-DIRECT
11-75	6	4.3	8.3	ATOMIC ABS-DIRECT
11-75	7	4.1	3.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8	4.3	8.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	9	3.0	24.4	EMISSION-FLAME
11-75	11	4.0	0.8	ATOMIC ABS-DIRECT
11-75	12	3.0	24.4	ATOMIC ABS-DIRECT
11-75	13	4.0	0.8	EMISSION-FLAME
11-75	14	3.6	9.3	EMISSION-FLAME
11-75	15			NOT DETERMINED
11-75	16	10	151.9	REJECT ATOMIC ABS-DIRECT
11-75	17	3.5	11.8	EMISSION-FLAME
11-75	18	5.0	26.0	ATOMIC ABS-DIRECT
11-75	19	3.9	1.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20	3.9	1.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	21	3.4	14.4	OTHER
11-75	22			NOT DETERMINED
11-75	23	3.9	1.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25	21	429.0	REJECT ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27	4.3	8.3	ATOMIC ABS-DIRECT
11-75	28	2.9	26.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30	4.0	0.8	ATOMIC ABS-DIRECT
11-75	31	3.8	4.3	EMISSION-FLAME
11-75	32	3.9	1.8	ATOMIC ABS-DIRECT
12-75	33			NOT DETERMINED
11-75	34	5.5	38.5	EMISSION-ARC/SPARK
11-75	35	4.3	8.3	EMISSION-FLAME
11-75	37	3.4	14.4	ATOMIC ABS-DIRECT
11-75	38	3.8	4.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39	3.8	4.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	40	3.8	4.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	41	3.9	1.8	ATOMIC ABS-DIRECT
11-75	42	4.0	0.8	ATOMIC ABS-DIRECT
11-75	43	4.7	18.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	44	4.2	5.8	ATOMIC ABS-DIRECT
11-75	45	4.4	10.8	EMISSION-FLAME

TOTAL RANGE 2.9 - 21 SAMPLE 51
 MEAN 3.9697
 STANDARD DEVIATION 0.5306 AVERAGE DEVIATION 0.3688
 95 PCT.CONF.INTVL OF MEAN 3.9697 +OR- 0.1875 K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	52	26.9	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	3	75	5.4	AUTOMATED ELECTROMETRIC TITRATION
11-75	4	65	8.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	5	72	1.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	77	8.3	AUTOMATED ELECTROMETRIC TITRATION
11-75	8	80	12.5	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	9			NOT DETERMINED
11-75	11	60	15.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	12			NOT DETERMINED
11-75	13	73	2.6	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	14	72	1.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	15			NOT DETERMINED
11-75	16	62	12.8	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	17	68	4.4	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	18	83	16.7	INDICATOR, APHA STD METH, 13ED, 1971
11-75	19	76	6.8	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	20	74	4.0	OTHER
11-75	21	74	4.0	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	22	85	19.5	INDICATOR, APHA STD METH, 13ED, 1971
11-75	23	73	2.6	AUTOMATED ELECTROMETRIC TITRATION
11-75	24			NOT DETERMINED
11-75	25	61	14.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	27	62	12.8	INDICATOR, APHA STD METH, 13ED, 1971
11-75	28	78	9.7	AUTOMATED ELECTROMETRIC TITRATION
11-75	29	72	1.2	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	30	73	2.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	31	72	1.2	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	32	37	48.0	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
12-75	33	62	12.8	INDICATOR, APHA STD METH, 13ED, 1971
11-75	34	59	17.1	POTENTIOMETRIC, APHA STD METH, 13ED, 1971
11-75	35	73	2.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	37			NOT DETERMINED
11-75	38	74	4.0	AUTOMATED ELECTROMETRIC TITRATION
11-75	39	73	2.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	40	75	5.4	ELECTROMETRIC TITRATION, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43	73	2.6	INDICATOR, APHA STD METH, 13ED, 1971
11-75	44	77	8.3	INDICATOR, APHA STD METH, 13ED, 1971
11-75	45	18	74.7	REJECT INDICATOR, APHA STD METH, 13ED, 1971

TOTAL RANGE 18 - 85
 MEAN 71.1288
 STANDARD DEVIATION 7.4554

AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

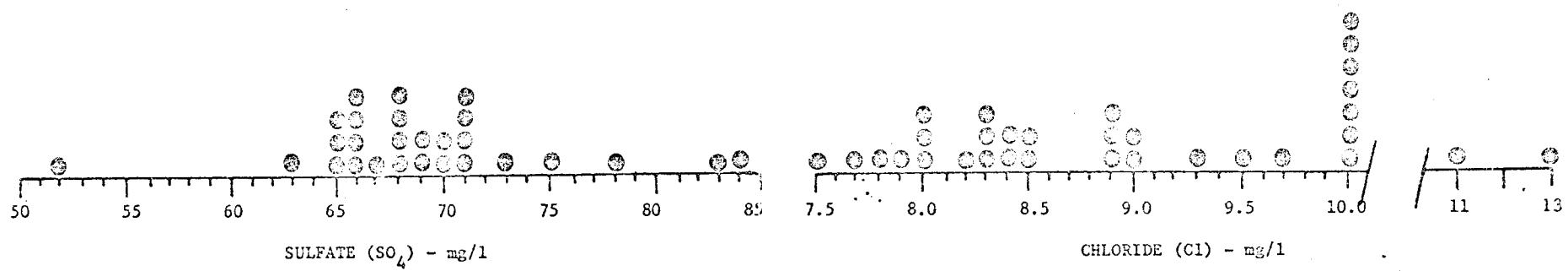
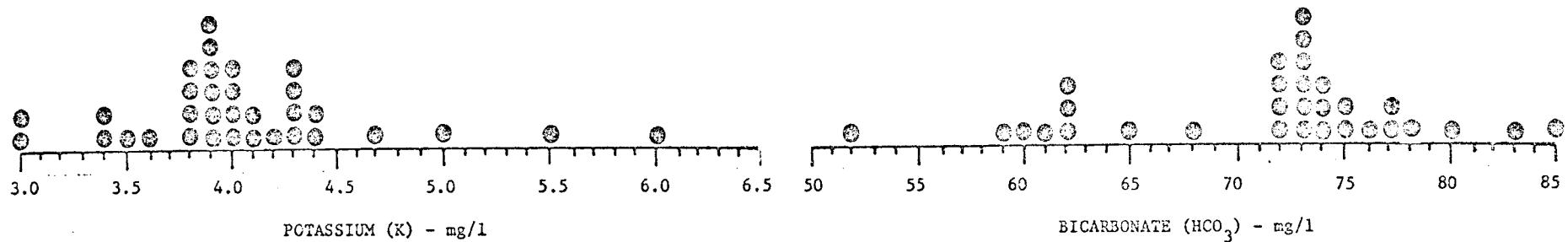
5.7524
 71.1288 OR 2.7343
 HC03

SAMPLE 51

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	78	12.7	TURBIDIMETRIC
11-75	3	66	4.6	OTHER
11-75	4			NOT DETERMINED
11-75	5	68	1.7	VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	6			NOT DETERMINED
11-75	7	69	0.3	TECHNICON AUTOANALYZER, METHYL THYML BLUE
11-75	8	68	1.7	VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	9	65	6.0	TURBIDIMETRIC
11-75	11	70	1.2	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	12	16	76.9	TECHNICON AUTOANALYZER, METHYL THYML BLUE
11-75	13	150	116.8	REJECT OTHER
11-75	14	52	24.8	OTHER
11-75	15			NOT DETERMINED
11-75	16	160	131.3	REJECT TURBIDIMETRIC
11-75	17	69	0.3	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	18	66	4.6	TURBIDIMETRIC
11-75	19	0.5	99.3	REJECT VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	20	65	6.0	VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	21	68	1.7	VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	22			NOT DETERMINED
11-75	23	68	1.7	OTHER
11-75	24			NOT DETERMINED
11-75	25	83	20.0	TURBIDIMETRIC
11-75	27	75	8.4	TURBIDIMETRIC
11-75	28	71	2.6	TECHNICON AUTOANALYZER, METHYL THYML BLUE
11-75	29			NOT DETERMINED
11-75	30	67	3.2	TURBIDIMETRIC
11-75	31	310	348.1	REJECT TURBIDIMETRIC
11-75	32	73	5.5	TURBIDIMETRIC
12-75	33	70	1.2	TURBIDIMETRIC
11-75	34	71	2.6	TURBIDIMETRIC
11-75	35	71	2.6	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	37			NOT DETERMINED
11-75	38	66	4.6	TECHNICON AUTOANALYZER, METHYL THYML BLUE
11-75	39	71	2.6	TURBIDIMETRIC
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	66	4.6	TURBIDIMETRIC
11-75	43	65	6.0	GRAVIMETRIC, APHA STD METH, 13ED, 1971
11-75	44	84	21.4	VOLUMETRIC THORIN, USGS TWRI BKS CH A1
11-75	45	63	8.9	OTHER
TOTAL RANGE	0.5	- 310		SAMPLE 51
MEAN		69.1850	AVERAGE DEVIATION	4.1454
STANDARD DEVIATION		6.1646	95 PCT.CONF.INTVL OF MEAN	69.1850 +OR- 2.4392
				504

5A
71

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	9.3	8.1	MERCURIMETRIC, USGS TWRI BK5 CH A1
11-75	3	8.3	3.5	ION-SELECTIVE ELECTRODE
11-75	4	9.0	4.7	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	5	7.7	10.5	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	6	10	16.3	ION-SELECTIVE ELECTRODE
11-75	7	8.9	3.5	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	8	7.8	9.3	MERCURIMETRIC, USGS TWRI BK5 CH A1
11-75	9	8.0	7.0	MOHR, USGS TWRI BK5 CH A1
11-75	11	7.2	16.3	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	12	7.9	8.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	13	6.6	23.3	ION-SELECTIVE ELECTRODE
11-75	14	6.0	30.2	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	15	9.7	12.8	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	16	9.0	4.7	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	17	0.6	90.7	MERCURIMETRIC, USGS TWRI BK5 CH A1
11-75	18	10	16.3	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	19	28	225.6	REJECT
11-75	20	8.4	2.3	MERCURIMETRIC, USGS TWRI BK5 CH A1
11-75	21	9.5	10.5	MERCURIMETRIC THIOCYANATE, ASTM METHOD C, D512-67
11-75	22			MOHR, USGS TWRI BK5 CH A1
11-75	23	8.4	2.3	NOT DETERMINED
11-75	24	8.9	3.5	MOHR, USGS TWRI BK5 CH A1
11-75	25	7.3	15.1	MOHR, USGS TWRI BK5 CH A1
11-75	27	11	27.9	ION-SELECTIVE ELECTRODE
11-75	28	8.3	3.5	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	29	8.2	4.7	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	30	10	16.3	SILVER NITRATE, ASTM METHOD B, D512-67
11-75	31	10	16.3	OTHER
11-75	32	8.0	7.0	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
12-75	33	7.5	12.8	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	34	13	51.2	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	35	8.9	3.5	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	37	8.5	1.2	ION-SELECTIVE ELECTRODE
11-75	38	6.5	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	39	10	16.3	MOHR, USGS TWRI BK5 CH A1
11-75	40	8.3	3.5	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-75	41			NOT DETERMINED
11-75	42	10	16.3	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
11-75	43	10	16.3	MOHR, USGS TWRI BK5 CH A1
11-75	44	6.5	24.4	ARGENOMETRIC, APHA STD METH, 13ED, 1971
11-75	45	8.0	7.0	MERCURIC NITRATE, APHA STD METH, 13ED, 1971
TOTAL RANGE	0.8	- 28		SAMPLE 51
MEAN	8.5999	AVERAGE DEVIATION	0.9222	
STANDARD DEVIATION	1.1484	95 PCT.CONF.INTVL OF MEAN	8.5999 +/- 0.3885	CL



SAMPLE NO. 51

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	0.9	2.3	MANUAL ION-SELECTIVE ELECTRODE
11-75	3	1.2	30.3	ION-SELECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	4	0.8	13.1	MANUAL ION-SELECTIVE ELECTRODE
11-75	5	0.9	2.3	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	0.9	2.3	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	8	1.0	8.6	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	9	1.0	8.6	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	11	1.0	8.6	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	12			NOT DETERMINED
11-75	13	0.1	89.1	REJECT ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16			NOT DETERMINED
11-75	17	0.9	2.3	SPADNS, APHA STD METH, 13ED, 1971
11-75	18	0.9	2.3	SPADNS, APHA STD METH, 13ED, 1971
11-75	19	1.0	8.6	ION-SFLECTIVE ELECFRODE, USGS TWRI BK5 CH A1
11-75	20	0.7	24.0	OTHER
11-75	21	0.7	24.0	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	0.9	2.3	MANUAL ION-SELECTIVE ELECTRODE
11-75	24			NOT DETERMINED
11-75	25	1.0	8.6	SPADNS, APHA STD METH, 13ED, 1971
11-75	27	1.0	8.6	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	28	0.8	13.1	TECHNICON AUTOANALYZER, ION-SFLECTIVE ELECTRODE
11-75	29			NOT DETERMINED
11-75	30	0.9	2.3	MANUAL ION-SELECTIVE ELECTRODE
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	1.1	19.5	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	37			NOT DETERMINED
11-75	38	0.9	2.3	ZIRCONIUM-ERIOCHROME R, USGS TWRI BK5 CH A1
11-75	39	0.9	2.3	OTHER
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	0.9	2.3	ION-SFLECTIVE ELECTRODE, USGS TWRI BK5 CH A1
11-75	43	0.9	2.3	OTHER
11-75	44	0.9	2.3	MANUAL ION-SELECTIVE ELECTRODE
11-75	45			NOT DETERMINED

TOTAL RANGE 0.1 - 1.2
 MEAN 0.9208 AVERAGE DEVIATION 0.0778 SAMPLE 51
 STANDARD DEVIATION 0.1103 95 PCT.CONF.INTVL OF MEAN 0.9208 +OR- 0.0466 F

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	0.6	31.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	3	0.6	31.8	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	4	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	5	0.5	9.8	BRUCINE, APHA STD METH, 13ED, 1971
11-75	6	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	7	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	8	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	9	0.4	12.1	BRUCINE, USGS TWRI, BKS CH A1
11-75	11	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	12	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	13	2.3	405.3	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	14	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	15	0.5	31.8	MANUAL CADMIUM REDUCTION-DIAZOTIZATION
11-75	16	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	17	0.2	56.1	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	18	0.4	12.1	BRUCINE, APHA STD METH, 13ED, 1971
11-75	19	0.5	9.8	BRUCINE, USGS TWRI, BKS CH A1
11-75	20			NOT DETERMINED
11-75	21			NOT DETERMINED
11-75	22	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	23			NOT DETERMINED
11-75	24			NOT DETERMINED
11-75	25	53	*****	REJECT OTHER
11-75	27	0.7	53.8	BRUCINE, APHA STD METH, 13ED, 1971
11-75	28	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	29	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	30	0.4	12.1	OTHER
11-75	31	0.3	34.1	BRUCINE, APHA STD METH, 13ED, 1971
11-75	32	0.5	9.8	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
12-75	33			NOT DETERMINED
11-75	34	0.5	9.8	BRUCINE, APHA STD METH, 13ED, 1971
11-75	35	1.9	317.4	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	37	0.4	12.1	OTHER
11-75	38	0.4	12.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	39			NOT DETERMINED
11-75	40	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	41			NOT DETERMINED
11-75	42	0.5	9.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-75	43	0.9	97.7	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	44	0.4	12.1	PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971
11-75	45	5.5	*****	REJECT PHENOLDISULFONIC ACID, APHA STD METH, 13ED, 1971

TOTAL RANGE 0.2 - 53
 MEAN 0.4552
 STANDARD DEVIATION 0.0985

AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

0.0778
 0.4552 +OR- 0.0375 NO3-N

SAMPLE 51

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	174	11.7	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888-67
11-75	3	194	1.6	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	4	186	5.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	203	3.0	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	8	200	1.5	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	9	172	12.7	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	11	190	3.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	12			NOT DETERMINED
11-75	13	256	29.9	REJECT RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888-67
11-75	14	197	0.0	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	15	223	13.2	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	16	210	6.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	17	200	1.5	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	18	196	0.5	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	19	199	1.0	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	20	196	0.5	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	21	144	26.9	REJECT RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	22	194	1.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	23			NOT DETERMINED
11-75	24			NOT DETERMINED
11-75	25	210	6.6	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	27	203	3.0	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	28	194	1.6	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	29			NOT DETERMINED
11-75	30	210	6.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	31	196	0.5	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	32	202	2.5	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
12-75	33	202	2.5	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	34			NOT DETERMINED
11-75	35	205	4.0	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	37	164	16.8	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	38			NOT DETERMINED
11-75	39	190	3.6	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	225	14.2	RESIDUE-FILTERABLE, APHA STD METH, 13ED, 1971
11-75	43	180	8.7	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	44	18	90.9	REJECT RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1
11-75	45	203	3.0	RESIDUE-ON-EVAPORATION, USGS TWRI BKS CH A1

TOTAL RANGE 18 - 256 SAMPLE 51
 MEAN 197.0702
 STANDARD DEVIATION 13.5972 AVERAGE DEVIATION 9.7143
 95 PCT.CONF.INTVL OF MEAN 197.0702 +OR- 5.2729 DSR0180

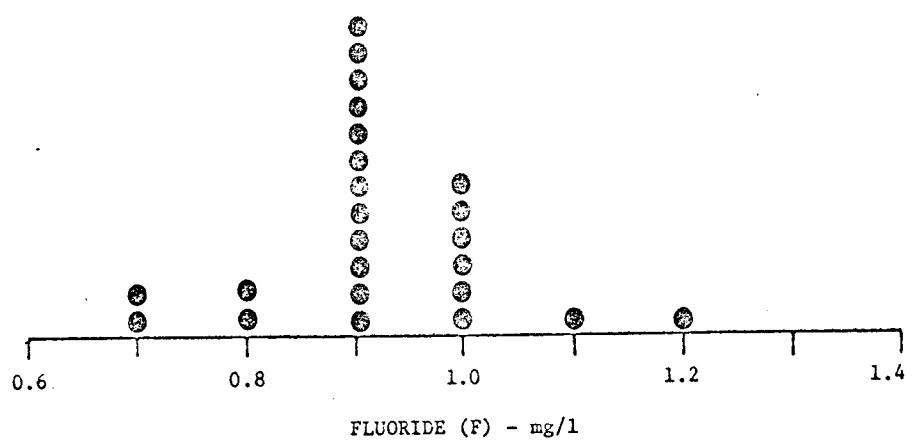
DSRD. 150

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	300	0.3	DIRECT READING INSTRUMENT
11-75	3	308	2.3	WHEATSTONE BRIDGE
11-75	4	278	7.6	DIRECT READING INSTRUMENT
11-75	5	306	1.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	6	281	6.7	DIRECT READING INSTRUMENT
11-75	7	307	2.0	DIRECT READING INSTRUMENT
11-75	8	306	1.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	9	280	7.0	WHEATSTONE BRIDGE
11-75	11	302	0.3	WHEATSTONE BRIDGE
11-75	12			NOT DETERMINED
11-75	13	242	19.6	REJECT DIRECT READING INSTRUMENT
11-75	14	320	6.3	WHEATSTONE BRIDGE
11-75	15	306	1.7	WHEATSTONE BRIDGE
11-75	16	300	0.3	WHEATSTONE BRIDGE
11-75	17	306	1.7	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	18	290	3.7	WHEATSTONE BRIDGE
11-75	19	312	3.6	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	21	307	2.0	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	22			NOT DETERMINED
11-75	23	320	6.3	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	24	306	1.7	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	25	325	8.0	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	27	312	3.6	DIRECT READING INSTRUMENT
11-75	28	303	0.7	DIRECT READING INSTRUMENT
11-75	29	315	4.6	DIRECT READING INSTRUMENT
11-75	30	300	0.3	DIRECT READING INSTRUMENT
11-75	31	261	13.3	DIRECT READING INSTRUMENT
11-75	32	297	1.3	DIRECT READING INSTRUMENT
12-75	33			NOT DETERMINED
11-75	34	268	4.3	DIRECT READING INSTRUMENT
11-75	35	310	3.0	WHEATSTONE BRIDGE
11-75	37	280	7.0	DIRECT READING INSTRUMENT
11-75	38	311	3.3	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	39	360	19.6	REJECT WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	40	305	1.3	WHEATSTONE BRIDGE, USGS TWRI BK5 CH A1
11-75	41			NOT DETERMINED
11-75	42	300	0.3	DIRECT READING INSTRUMENT, USGS TWRI BK5 CH A1
11-75	43			NOT DETERMINED
11-75	44	292	3.0	DIRECT READING INSTRUMENT
11-75	45	300	0.3	DIRECT READING INSTRUMENT
TOTAL RANGE	242	- 360		SAMPLE 51
MEAN		301.0278	AVERAGE DEVIATION	10.1473
STANDARD DEVIATION		13.6782	95 PCT.CONF.INTVL OF MEAN	301.0278 +OR- 4.8336 SP.COND

SP. COND.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2	7.4	6.1	ELECTROMETRIC
11-75	3	7.9	0.3	ELECTROMETRIC
11-75	4	8.1	2.8	ELECTROMETRIC
11-75	5	7.9	0.3	ELECTROMETRIC
11-75	6	7.9	0.3	ELECTROMETRIC
11-75	7	7.7	2.3	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	8	7.4	6.1	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	9	7.4	6.1	ELECTROMETRIC
11-75	11	7.7	2.3	ELECTROMETRIC
11-75	12	8.0	1.5	ELECTROMETRIC
11-75	13	8.3	5.3	ELECTROMETRIC
11-75	14	7.9	0.3	ELECTROMETRIC
11-75	15	7.7	2.3	ELECTROMETRIC
11-75	16	8.1	2.8	ELECTROMETRIC
11-75	17	8.0	1.5	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	18	7.8	1.0	ELECTROMETRIC
11-75	19	8.2	4.1	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	20	7.9	0.3	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	21	7.1	9.9	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	22	7.9	0.3	ELECTROMETRIC
11-75	23	8.1	2.8	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	24	8.0	1.5	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	25	7.4	6.1	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	27	8.0	1.5	ELECTROMETRIC
11-75	28	8.1	2.8	ELECTROMETRIC
11-75	29	7.8	1.0	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	30	8.0	1.5	ELECTROMETRIC
11-75	31	7.9	0.3	ELECTROMETRIC
11-75	32	8.0	1.5	ELECTROMETRIC
12-75	33	7.7	2.3	ELECTROMETRIC
11-75	34	8.0	1.5	ELECTROMETRIC
11-75	35	8.1	2.8	ELECTROMETRIC
11-75	37	8.0	1.5	ELECTROMETRIC
11-75	38	8.1	2.8	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	39	8.1	2.8	ELECTROMETRIC
11-75	40	8.0	1.5	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	41			NOT DETERMINED
11-75	42	8.0	1.5	ELECTROMETRIC
11-75	43	8.0	1.5	ELECTROMETRIC, USGS TWRI BKS CH A1
11-75	44	7.5	4.8	ELECTROMETRIC
11-75	45	8.1	2.8	ELECTROMETRIC

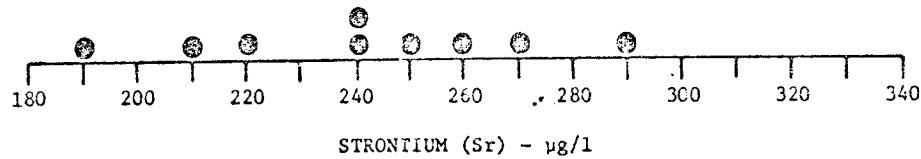
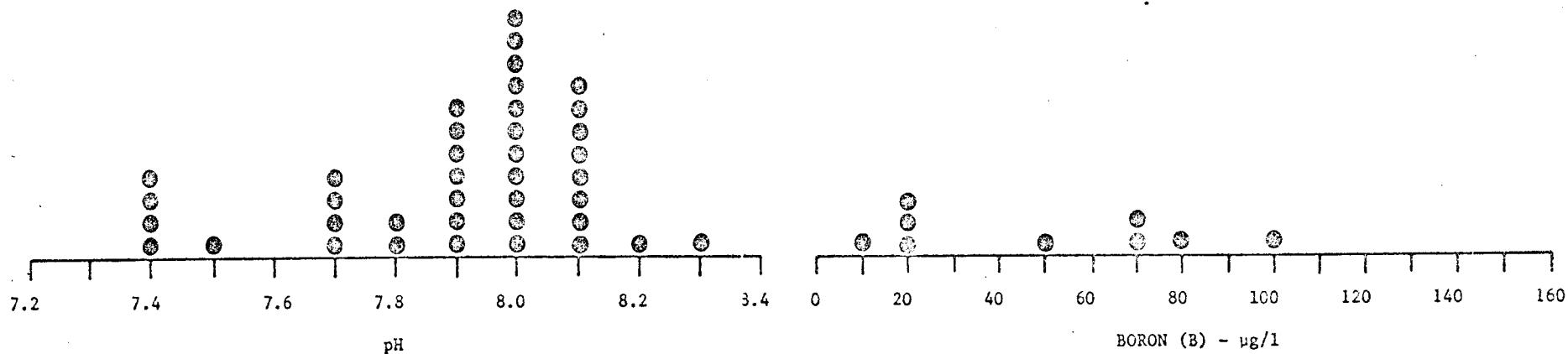
TOTAL RANGE	7.1	-	8.3	AVERAGE DEVIATION	0.1980	SAMPLE 51
MEAN	7.8800			95 PCT.CONF.INTVL OF MEAN	7.8800 +OR-	
STANDARD DEVIATION	0.2604				0.0832	PH



DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2			NOT DETERMINED
11-75	3	180	292.2	REJECT CARMINE, USGS BK5 CH A1
11-75	4			NOT DETERMINED
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	20	56.4	CARMINE, USGS BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	70	52.5	CURCUMIN, APHA STD METH, 13ED, 1971
11-75	17	10	78.2	CARMINE, USGS BK5 CH A1
11-75	18	80	74.3	DIANTHIMIDE, USGS BK5 CH A1
11-75	19	50	8.9	DIANTHIMIDE, USGS BK5 CH A1
11-75	20			NOT DETERMINED
11-75	21			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23	20	56.4	DIANTHIMIDE, USGS BK5 CH A1
11-75	24			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	20	56.4	DIANTHIMIDE, USGS BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	19	58.6	OTHER
11-75	38			NOT DETERMINED
11-75	39	100	117.9	CURCUMIN, APHA STD METH, 13ED, 1971
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	70	52.5	CARMINE, USGS BK5 CH A1
TOTAL RANGE	10	- 180		
MEAN		45.8999	AVERAGE DEVIATION	
STANDARD DEVIATION		32.1332	95 PCT.CONF.INTVL OF MEAN	
			28.1000	SAMPLE 51
			45.8999 +OR-	22.9851
				8

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	190	21.2	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	240	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	270	12.0	ATOMIC ABS-DIRECT
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	370	53.5	REJECT ATOMIC ABS-DIRECT
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	210	12.9	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	21			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	24			NOT DETERMINED
11-75	25	250	3.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27			NOT DETERMINED
11-75	28	260	7.8	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	29			NOT DETERMINED
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	220	8.8	ATOMIC ABS-DIRECT
11-75	38	290	20.3	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	39			NOT DETERMINED
11-75	40	240	0.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A2
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE	190	- 370	AVERAGE DEVIATION	23.4567	SAMPLE 51
MEAN	241.1109		95 PCT.CONF.INTVL OF MEAN	241.1109 +OR-	
STANDARD DEVIATION	31.0017			23.8299	SR



SAMPLE NO. 51

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X + OR - STD	X + OR - 2STD
SiO ₂	21	5	40	65	95
CA	37	8	38	76	91
Mg	36	14	19	68	97
NA	36	6	41	76	94
K	36	8	48	76	94
HCO ₃	33	6	32	68	97
SO ₄	32	16	48	81	89
CL	39	8	28	64	94
F	25	4	50	75	88
NO ₃ -N	34	15	0	79	93
DSRD180	31	10	43	79	93
SP.COND	35	6	27	73	97
PH	40	0	23	80	98
B	11	9	10	70	100
SR	10	10	56	67	100

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1	350	11.8	EMISSION=ARC/SPARK
11-75	2	420	5.8	ATOMIC ABS=DIRECT
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	340	14.3	ATOMIC ABS=DIRECT
11-75	6			NOT DETERMINED
11-75	7	410	3.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9	440	10.9	ATOMIC ABS=DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	200	49.6	ATOMIC ABS=DIRECT
11-75	17	340	14.3	FERRON-ORTHOPHENANTHROLINE: USGS TWRI BKS CH A1
11-75	18			NOT DETERMINED
11-75	19	480	20.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25	60	84.9	REJECT OTHER CYANIDE CYANIDE R ALPHA
11-75	27			NOT DETERMINED
11-75	28	390	1.7	ATOMIC ABS=DIRECT
11-75	30	480	20.9	ATOMIC ABS=DIRECT
11-75	31			NOT DETERMINED
11-75	32	340	14.3	ATOMIC ABS=FLAMELESS
12-75	33	390	1.7	ATOMIC ABS=DIRECT
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	410	3.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	40	580	46.1	ATOMIC ABS=FLAMELESS
11-75	41	370	6.8	NEUTRON ACTIVATION
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	410	3.3	NEUTRON ACTIVATION
TOTAL RANGE	60	- 580		SAMPLE 52
MEAN		396.8735	AVERAGE DEVIATION	56.8750
STANDARD DEVIATION		82.3583	95 PCT. CONF. INTVL OF MEAN	396.8735 +OR- 43.8764 AL

T-52

A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	260	2.2	EMISSION=ARC/SPARK
11-75	2	260	5.1	ATOMIC ABS-DIRECT
11-75	3	270	1.4	PHENANTHROLINE: APHA STD METH, 13ED
11-75	4	230	16.0	ATOMIC ABS-DIRECT
11-75	5	260	5.1	ATOMIC ABS-DIRECT
11-75	6	250	8.7	ATOMIC ABS-DIRECT
11-75	7	260	5.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	8	260	5.1	BIPYRIDINE: USGS TWRI BKS CH A1
11-75	9	270	1.4	ATOMIC ABS-DIRECT
11-75	11	680	148.3	ATOMIC ABS-DIRECT
11-75	12			NOT DETERMINED
11-75	13	450	64.3	REJECT
11-75	14	300	9.5	ATOMIC ABS-FLAMELESS
11-75	15	290	5.9	ATOMIC ABS-DIRECT
11-75	16	250	8.7	ATOMIC ABS-DIRECT
11-75	17	270	1.4	ORTHOPHENATHROLINE: ASTM METHOD A, D1068-74
11-75	18	240	12.4	PHENANTHROLINE: APHA STD METH, 13ED
11-75	19	320	16.8	PHENANTHROLINE: APHA STD METH, 13ED
11-75	20	250	8.7	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	22	340	24.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	23			ATOMIC ABS-DIRECT
11-75	25	360	31.4	NOT DETERMINED
11-75	27	240	12.4	ATOMIC ABS-DIRECT
11-75	28	260	5.1	TECHNICON AUTOANALYZER, BIPYRIDINE
11-75	30	260	5.1	ATOMIC ABS-DIRECT
11-75	31	250	8.7	ATOMIC ABS-DIRECT
11-75	32	260	5.1	ATOMIC ABS-DIRECT
12-75	33	270	1.4	ATOMIC ABS-DIRECT
11-75	34	550	100.8	REJECT
11-75	35	660	141.0	REJECT
11-75	37	290	5.9	ATOMIC ABS-DIRECT
11-75	38	250	8.7	ATOMIC ABS-DIRECT
11-75	40	270	1.4	TECHNICON AUTOANALYZER, BIPYRIDINE
11-75	41	290	5.9	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	42	300	9.5	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	43	130	52.5	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	44	270	1.4	ATOMIC ABS-DIRECT
11-75	45	320	16.8	ATOMIC ABS-DIRECT
				ORTHOPHENATHROLINE: ASTM METHOD A, D1068-74

TOTAL RANGE 130 - 680

MEAN 273.6509

STANDARD DEVIATION 29.6526

AVERAGE DEVIATION

95 PCT.CONF.INTVL OF MEAN

22.6632

273.8689 +OR- 10.9486

SAMPLE 52

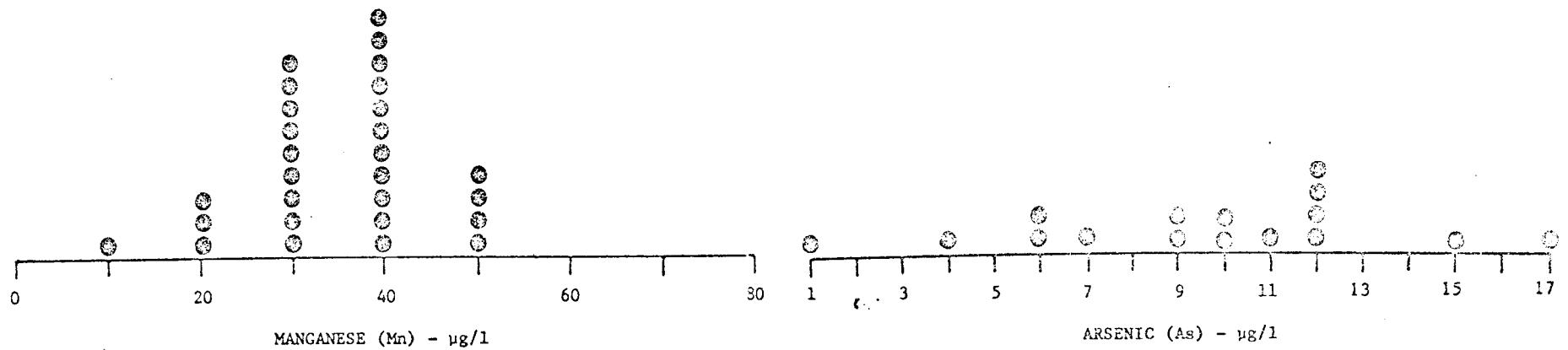
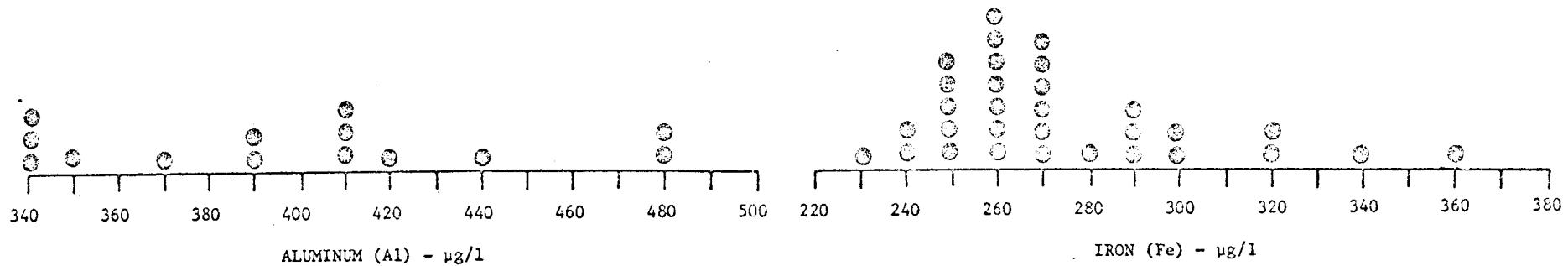
FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	40	14.3	EMISSION-ARC/SPARK
11-75	2	40	14.3	ATOMIC ABS-DIRECT
11-75	3	10	71.4	ATOMIC ABS-DIRECT
11-75	4			NOT DETERMINED
11-75	5	30	14.3	ATOMIC ABS-DIRECT
11-75	6	40	14.3	ATOMIC ABS-DIRECT
11-75	7	40	14.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	30	14.3	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	30	14.3	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	50	42.9	ATOMIC ABS-DIRECT
11-75	17	40	14.3	PERSULFATE: ALPHA STO METH: 13ED
11-75	18	20	42.9	ATOMIC ABS-DIRECT
11-75	19	40	14.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20	20	42.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	22	30	14.3	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	50	42.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	27	30	14.3	ATOMIC ABS-DIRECT
11-75	28	50	42.9	ATOMIC ABS-DIRECT
11-75	30	30	14.3	ATOMIC ABS-DIRECT
11-75	31	20	42.9	ATOMIC ABS-DIRECT
11-75	32	30	14.3	ATOMIC ABS-FLAMELESS
12-75	33	40	14.3	ATOMIC ABS-DIRECT
11-75	34	30	14.3	ATOMIC ABS-DIRECT
11-75	35	40	14.3	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	40	14.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	40	40	14.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	41	30	14.3	NEUTRON ACTIVATION
11-75	42	200	471.4	REJECT ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	43	50	42.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	44	40	14.3	ATOMIC ABS-DIRECT
11-75	45			NOT DETERMINED

TOTAL RANGE 10 - 200 SAMPLE 52:
 MEAN 34.9998 AVERAGE DEVIATION 8.2143
 STANDARD DEVIATION 30.0000 95 PCT.CONF.INTVL OF MEAN 34.9998 +OR- 3.0779 MN

/M/

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	6	37.3	ATOMIC ABS-HYDRIDE(ZINC): USGS PROVISIONAL
11-75	6			NOT DETERMINED
11-75	7	9	5.9	ATOMIC ABS-HYDRIDE(ZINC): USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	10	4.6	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
11-75	17	15	56.9	SILVER DIETHYLDITHIOCARBAMATE: USGS TWRI 8K5 CH A1
11-75	18			NOT DETERMINED
11-75	19	12	25.5	SILVER DIETHYLDITHIOCARBAMATE-REVISION: USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22	9	5.9	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	12	25.5	ATOMIC ABS-HYDRIDE(ZINC): USGS PROVISIONAL
11-75	28	12	25.5	ATOMIC ABS-HYDRIDE(ZINC): USGS PROVISIONAL
11-75	30	11	15.0	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	31	4	58.2	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
11-75	32	10	4.6	OTHER - NOV 1974
12-75	33	7	26.8	OTHER - NOV 1974
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	12	25.5	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	38	1	89.5	ATOMIC ABS-HYDRIDE(ZINC): USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	6	37.3	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	17	77.8	NEUTRON ACTIVATION
TOTAL RANGE	1	- 17		SAMPLE 52.
MEAN		9.5625	AVERAGE DEVIATION	3.1172
STANDARD DEVIATION		4.0656	95 PCT.CONF.INTVL OF MEAN	9.5625 +OR- 2.1659 AS



SAMPLE NO. 52

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	300	16.1	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	300	16.1	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	300	16.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	8			NOT DETERMINED
11-75	9	100	61.3	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	400	54.9	ATOMIC ABS-DIRECT
11-75	17	300	16.1	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	300	16.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	20			NOT DETERMINED
11-75	22	200	22.6	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	300	16.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	30	200	22.6	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	200	22.6	OTHER <i>not given</i>
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38			NOT DETERMINED
11-75	40			NOT DETERMINED
11-75	41	200	22.6	ATOMIC ABS-DIRECT
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE	100	- 400	AVERAGE DEVIATION	65.2777	SAMPLE 52
MEAN	258.3330				
STANDARD DEVIATION	79.2960		95 PCT.CONF.INTVL OF MEAN	258.3330 +OR- 50.3826	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	20	0.0	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	20	0.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	20	0.0	ATOMIC ABS-DIRECT
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	10	50.0	REJECT ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	20	0.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38			NOT DETERMINED
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	20	0.0	ATOMIC ABS-DIRECT

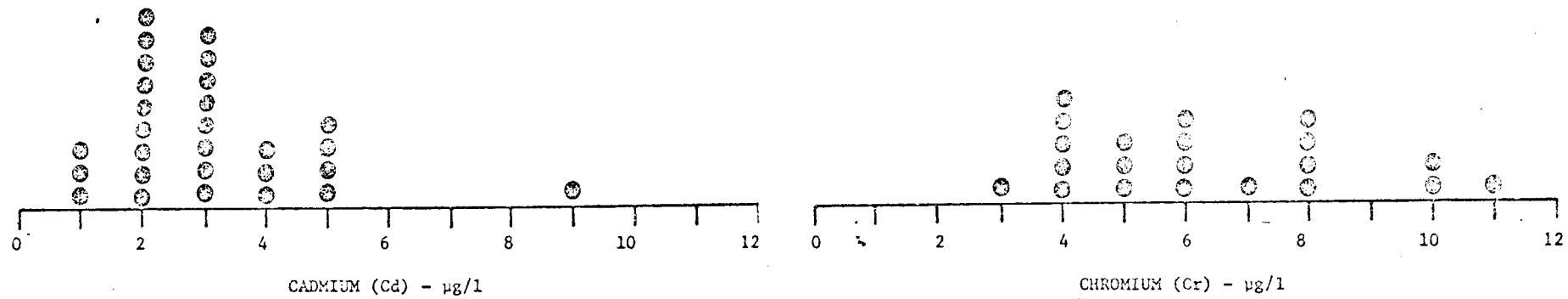
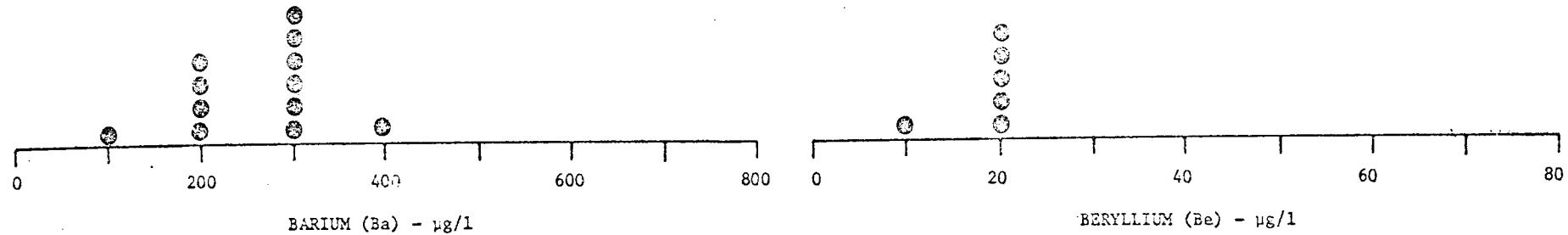
TOTAL RANGE	10	20	AVERAGE DEVIATION	0.0	SAMPLE 52
MEAN	20.0000		95 PCT.CONF.INTVL OF MEAN	20.0000 ± OR ±	
STANDARD DEVIATION	0.0			0.0	SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2	5.	75.3	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	1	64.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	4	40.3	ATOMIC ABS-DIRECT
11-75	7	3	5.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	5	75.3	ATOMIC ABS-DIRECT
11-75	11	9	215.6	REJECT ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	12	3	5.2	OTHER A-A-11-11-11
11-75	13	2	29.9	ATOMIC ABS-FLAMELESS
11-75	14	1	64.9	ATOMIC ABS-FLAMELESS
11-75	15	3	5.2	ATOMIC ABS-FLAMELESS
11-75	16	1	64.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17	2	29.9	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	2	29.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20	2	29.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	22	3	5.2	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	23			NOT DETERMINED
11-75	25	5	75.3	ANODIC STRIPPING VOLTAMMETRY
11-75	27	3	5.2	ATOMIC ABS-DIRECT
11-75	28	2	29.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	4	40.3	ATOMIC ABS-DIRECT
11-75	31	3	5.2	ATOMIC ABS-DIRECT
11-75	32	2	29.9	ATOMIC ABS-FLAMELESS
12-75	33	3	5.2	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	4	40.3	ATOMIC ABS-FLAMELESS
11-75	38	2	29.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	3	5.2	ATOMIC ABS-FLAMELESS
11-75	41	2	29.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	42	2	29.9	ATOMIC ABS-DIRECT
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	5	75.3	ATOMIC ABS-DIRECT
TOTAL RANGE	1	9		SAMPLE 52.
MEAN		2.8518	AVERAGE DEVIATION	0.9794
STANDARD DEVIATION		1.2311	95 PCT.CONF.INTVL OF MEAN	2.8518 +OR- 0.4871 CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	4	36.4	
11-75	2	20	218.2	REJECT EMISSION-ARC/SPARK ATOMIC ABS-DIRECT: USGS PROVISIONAL
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5			NOT DETERMINED
11-75	6	8	27.3	
11-75	7	10	59.1	
11-75	8			ATOMIC ABS-DIRECT ATOMIC ABS-DIRECT: USGS PROVISIONAL
11-75	9	11	75.0	NOT DETERMINED
11-75	11			ATOMIC ABS-DIRECT
11-75	12	5	20.5	NOT DETERMINED
11-75	13	3	52.3	OTHER - AB FLAMELESS
11-75	14	4	36.4	ATOMIC ABS-FLAMELESS
11-75	15	7	11.4	ATOMIC ABS-FLAMELESS
11-75	16	6	4.5	ATOMIC ABS-FLAMELESS
11-75	17	6	4.5	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	18			ATOMIC ABS-DIRECT
11-75	19	5	20.5	NOT DETERMINED
11-75	20			ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	22	6	4.5	NOT DETERMINED
11-75	23			ATOMIC ABS-DIRECT
11-75	25			NOT DETERMINED
11-75	27	8	27.3	NOT DETERMINED
11-75	28	40	536.4	REJECT ATOMIC ABS-DIRECT: USGS PROVISIONAL
11-75	30	8	27.3	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	4	36.4	ATOMIC ABS-FLAMELESS
11-75	33	4	36.4	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35	10	59.1	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	4	36.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	5	20.5	ATOMIC ABS-FLAMELESS
11-75	41	6	4.5	ATOMIC ABS-DIRECT: USGS PROVISIONAL
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	8	27.3	ATOMIC ABS-DIRECT

TOTAL RANGE 3 40 SAMPLE 52
 MEAN 6.2857 AVERAGE DEVIATION 1.8775
 STANDARD DEVIATION 2.2635 95 PCT.CONF.INTVL OF MEAN 6.2857 +CR- 1.0394 CR TOT

G. H. F.



SAMPLE NO. 52

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1	4	8.1	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	2	45.9	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	4	8.1	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			ATOMIC ABS-FLAMELESS
11-75	13	1	73.0	NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	6	62.2	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	3	18.9	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28			NOT DETERMINED
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33	3	18.9	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	5	35.1	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI BK5 CH A1
11-75	40	3	18.9	ATOMIC ABS-FLAMELESS
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	6	62.2	NEUTRON ACTIVATION

TOTAL RANGE	1	=	6	AVERAGE DEVIATION 95 PCT.CONF.INTVL OF MEAN	1.3000 3.7000 +OR- 1.1705	SAMPLE 52 CO
MEAN	3.7000					
STANDARD DEVIATION	1.6364					

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	80	1.6	EMISSION-ARC/SPARK
11-75	2	90	10.7	ATOMIC ABS-DIRECT
11-75	3			NOT DETERMINED
11-75	4	400	391.8	REJECT EMISSION-ARC/SPARK
11-75	5	80	1.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	80	1.6	ATOMIC ABS-DIRECT
11-75	7	70	13.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	80	1.6	ATOMIC ABS-DIRECT
11-75	11	20	75.4	REJECT ATOMIC ABS-DIRECT
11-75	12	110	35.2	OTHER - BY FLAMING
11-75	13	80	1.6	ATOMIC ABS-FLAMELESS
11-75	14	70	13.9	ATOMIC ABS-DIRECT
11-75	15	70	13.9	ATOMIC ABS-DIRECT
11-75	16	80	1.6	ATOMIC ABS-DIRECT
11-75	17	80	1.6	ATOMIC ABS-DIRECT
11-75	18	80	1.6	ATOMIC ABS-DIRECT
11-75	19	90	10.7	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20	80	1.6	ATOMIC ABS-DIRECT: USGS TWRI SK5 CH A1
11-75	22	70	13.9	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	110	35.2	OTHER - BY FLAMING
11-75	27	90	10.7	ATOMIC ABS-DIRECT
11-75	28	60	26.2	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	30	80	1.6	ATOMIC ABS-DIRECT
11-75	31	70	13.9	ATOMIC ABS-DIRECT
11-75	32	80	1.6	ATOMIC ABS-FLAMELESS
12-75	33	80	1.6	ATOMIC ABS-DIRECT
11-75	34			NOT DETERMINED
11-75	35	110	35.2	ATOMIC ABS-DIRECT
11-75	37	90	10.7	ATOMIC ABS-DIRECT
11-75	38	90	10.7	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	40	70	13.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	41	90	10.7	ATOMIC ABS-DIRECT: USGS TWRI SK5 CH A1
11-75	42	400	391.8	REJECT ATOMIC ABS-DIRECT
11-75	43	50	38.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	44	80	1.6	ATOMIC ABS-DIRECT
11-75	45			NOT DETERMINED

TOTAL RANGE	20	- 400	SAMPLE 52
MEAN	81.3331	AVERAGE DEVIATION	9.1999
STANDARD DEVIATION	13.3218	95 PCT.CONF.INTVL OF MEAN	81.3331 +OR- 4.9739 CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	9	23.5	EMISSION-ARC/SPARK
11-75	2	20	69.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	7	40.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	8	32.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	29	146.4	OTHER NO. 9 9/1975
11-75	11			NOT DETERMINED
11-75	12	4	66.0	OTHER NO. 12 9/1975
11-75	13	5	57.5	ATOMIC ABS-FLAMELESS
11-75	14	7	40.5	ATOMIC ABS-FLAMELESS
11-75	15	10	15.0	ATOMIC ABS-FLAMELESS
11-75	16	29	146.4	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17	11	6.5	OTHER NO. 17 9/1975
11-75	18			NOT DETERMINED
11-75	19	7	40.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20	12	2.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	22	20	69.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	23			NOT DETERMINED
11-75	25	22	86.9	ANODIC STRIPPING VOLTAMMETRY
11-75	27	12	2.0	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	28	7	40.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	8	32.0	OTHER NO. 30 9/1975
11-75	31	7	40.5	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
11-75	32	6	49.0	ATOMIC ABS-FLAMELESS
12-75	33	9	23.5	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	6	49.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	8	32.0	ATOMIC ABS-FLAMELESS
11-75	41	6	49.0	ATOMIC ABS-FLAMELESS
11-75	42	7	40.5	ANODIC STRIPPING VOLTAMMETRY
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	30	154.9	OTHER

TOTAL RANGE 4 - 30
 MEAN 11.7692
 STANDARD DEVIATION 7.9262

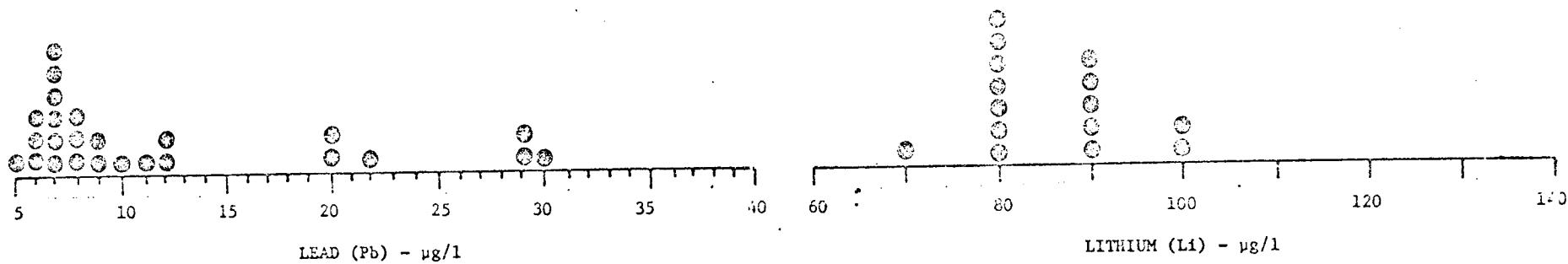
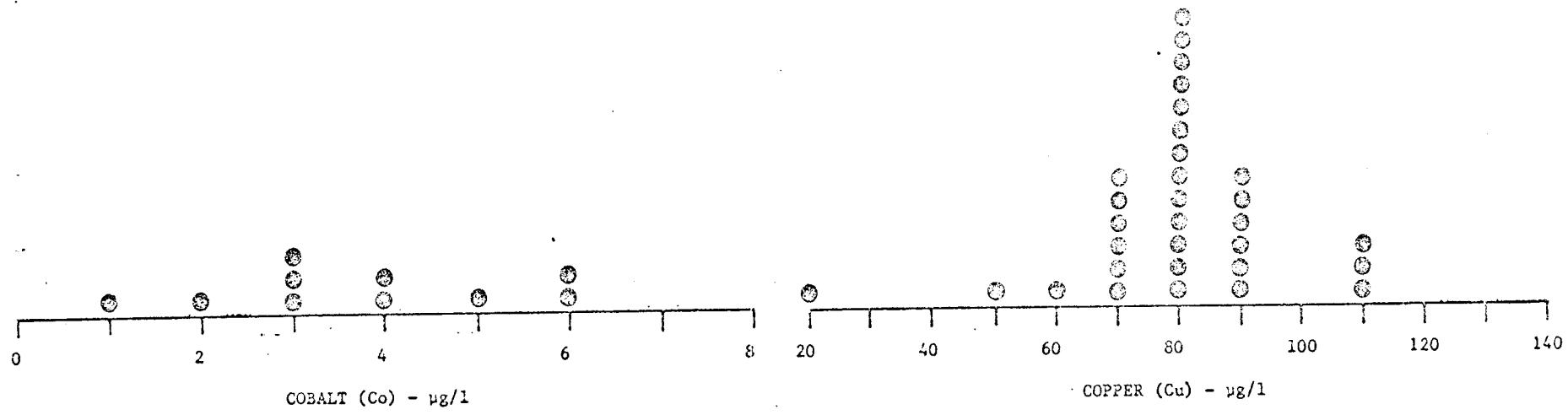
AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

6.1420
 11.7692 +OR-

3.2022 PB

SAMPLE 52

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1		:	NOT DETERMINED
11-75	2		:	NOT DETERMINED
11-75	3		:	NOT DETERMINED
11-75	4		:	NOT DETERMINED
11-75	5	90	5.0	ATOMIC ABS-DIRECT
11-75	6		:	NOT DETERMINED
11-75	7	80	6.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	8		:	NOT DETERMINED
11-75	9		:	NOT DETERMINED
11-75	11	90	5.0	ATOMIC ABS-DIRECT
11-75	12		:	NOT DETERMINED
11-75	13	70	18.3	ATOMIC ABS-FLAMELESS
11-75	14		:	NOT DETERMINED
11-75	15		:	NOT DETERMINED
11-75	16	100	16.7	ATOMIC ABS-DIRECT
11-75	17		:	NOT DETERMINED
11-75	18		:	NOT DETERMINED
11-75	19	90	5.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	20		:	NOT DETERMINED
11-75	22		:	NOT DETERMINED
11-75	23	80	6.7	ATOMIC ABS-DIRECT
11-75	25	100	16.7	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	27		:	NOT DETERMINED
11-75	28	80	6.7	ATOMIC ABS-DIRECT
11-75	30		:	NOT DETERMINED
11-75	31		:	NOT DETERMINED
11-75	32		:	NOT DETERMINED
12-75	33		:	NOT DETERMINED
11-75	34		:	NOT DETERMINED
11-75	35		:	NOT DETERMINED
11-75	37		:	NOT DETERMINED
11-75	38	90	5.0	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
11-75	40	80	6.7	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	41	80	6.7	ATOMIC ABS-DIRECT
11-75	42		:	NOT DETERMINED
11-75	43		:	NOT DETERMINED
11-75	44	90	5.0	ATOMIC ABS-DIRECT
11-75	45	80	6.7	ATOMIC ABS-DIRECT
TOTAL RANGE	70	- 100		SAMPLE 52
MEAN		85.7141	AVERAGE DEVIATION	7.1429
STANDARD DEVIATION		8.5163	95 PCT.CONF.INTVL OF MEAN	85.7141 +OR- 4.9163 LI



SAMPLE NO. 52

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD	
11-75	1			NOT DETERMINED	
11-75	2			NOT DETERMINED	
11-75	3			NOT DETERMINED	
11-75	4	0.4	34.1	TECHNICON AUTOANALYZER, ATOMIC ABS-FLAMELESS: EPA	
11-75	5	0.8	31.9	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73	
11-75	6			NOT DETERMINED	
11-75	7	0.5	17.6	TECHNICON AUTOANALYZER, ATOMIC ABS-FLAMELESS: EPA	
11-75	8			NOT DETERMINED	
11-75	9			NOT DETERMINED	
11-75	11			NOT DETERMINED	
11-75	12			NOT DETERMINED	
11-75	13			NOT DETERMINED	
11-75	14			NOT DETERMINED	
11-75	15	0.6	1.1	ATOMIC ABS-FLAMELESS: EPA	
11-75	16	0.6	1.1	ATOMIC ABS-FLAMELESS: EPA	
11-75	17	0.6	1.1	ATOMIC ABS-FLAMELESS: EPA	
11-75	18			NOT DETERMINED	
11-75	19	0.7	15.4	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL	
11-75	20			NOT DETERMINED	
11-75	22	0.5	17.6	ATOMIC ABS-FLAMELESS: EPA	
11-75	23	0.6	1.1	ATOMIC ABS-FLAMELESS: EPA	
11-75	25			NOT DETERMINED	
11-75	27			NOT DETERMINED	
11-75	28	0.6	1.1	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL	
11-75	30	0.6	1.1	ATOMIC ABS-FLAMELESS: EPA	
11-75	31			NOT DETERMINED	
11-75	32	0.7	15.4	ATOMIC ABS-FLAMELESS: EPA	
12-75	33			NOT DETERMINED	
11-75	34			NOT DETERMINED	
11-75	35			NOT DETERMINED	
11-75	37	0.8	31.9	ATOMIC ABS-FLAMELESS: EPA	
11-75	38	0.5	17.6	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL	
11-75	40			NOT DETERMINED	
11-75	41			NOT DETERMINED	
11-75	42	0.6	1.1	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73	
11-75	43			NOT DETERMINED	
11-75	44			NOT DETERMINED	
11-75	45	1.2	97.8	REJECT ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73	
TOTAL RANGE	0.4	-	1.2		
MEAN		0.6067	AVERAGE DEVIATION	0.0764	SAMPLE 52
STANDARD DEVIATION		0.1100	95 PCT.CONF.INTVL OF MEAN	0.6067 +OR- 0.0609	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	14	36.6	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	10	2.4	OTHER <i>not givin</i>
11-75	6			NOT DETERMINED
11-75	7			NOT DETERMINED
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16			NOT DETERMINED
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	8	22.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	9	12.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38			NOT DETERMINED
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

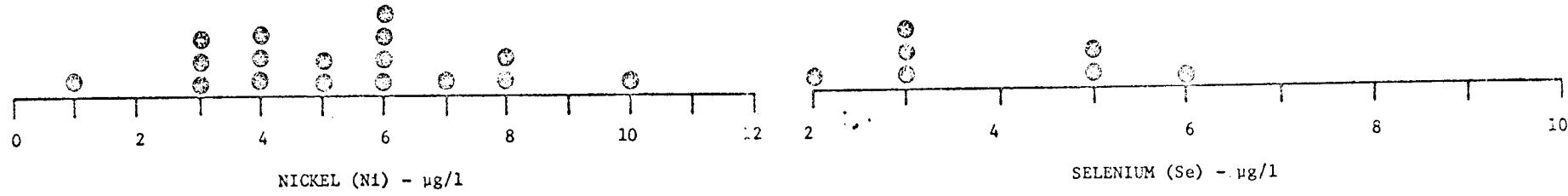
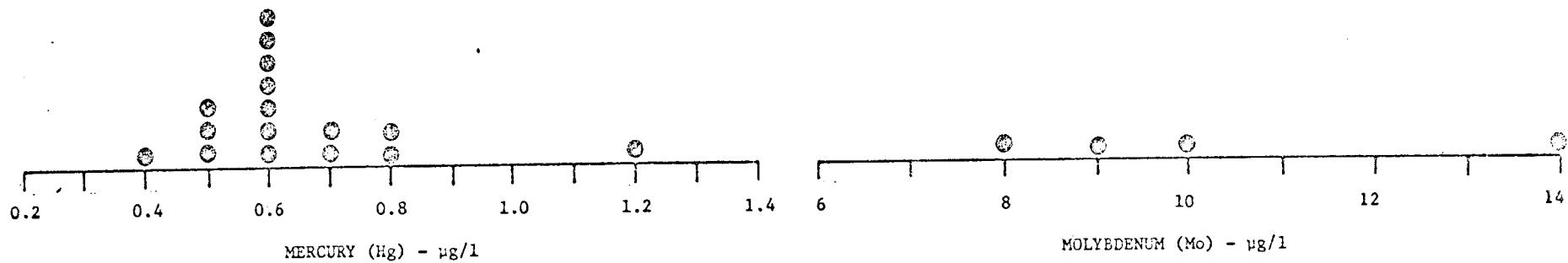
TOTAL RANGE 8 - 14 SAMPLE 52
 MEAN 10.2500 AVERAGE DEVIATION 1.8750
 STANDARD DEVIATION 2.6300 95 PCT.CONF.INTVL OF MEAN 10.2500 +OR- 4.1843 NO

MLA

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1	7	33.7	EMISSION=ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	3	42.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	8	52.8	ATOMIC ABS-DIRECT
11-75	7	4	23.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	6	14.6	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12	3	42.7	OTHER AN FLAMELESS
11-75	13	3	42.7	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15	10	91.0	ATOMIC ABS-FLAMELESS
11-75	16			NOT DETERMINED
11-75	17	6	14.6	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	6	14.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	5	4.5	ATOMIC ABS-DIRECT
11-75	28	1	80.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33	5	4.5	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	8	52.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	4	23.6	ATOMIC ABS-FLAMELESS
11-75	41	4	23.6	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	6	14.6	ATOMIC ABS-DIRECT
TOTAL RANGE	1	- 10		SAMPLE 52
MEAN		5.2353	AVERAGE DEVIATION	1.7785
STANDARD DEVIATION		2.2508	95 PCT,CONF.INTVL OF MEAN	5.2353 +OR- 1.1573 NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	5	29.6	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	3	22.2	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	17	5	29.6	OTHER <i>Not 1/4</i>
11-75	18			NOT DETERMINED
11-75	19			NOT DETERMINED
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	19	392.6	REJECT ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	28	3	22.2	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32	6	55.6	OTHER <i>Not 1/4</i>
12-75	33	2	48.1	OTHER <i>if 1/4</i>
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	3	22.2	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE 2 = 19 SAMPLE 52
 MEAN 3.8571 AVERAGE DEVIATION 1.2653
 STANDARD DEVIATION 1.4639 95 PCT.CONF.INTVL OF MEAN 3.8571 +OR- 1.3539 SE

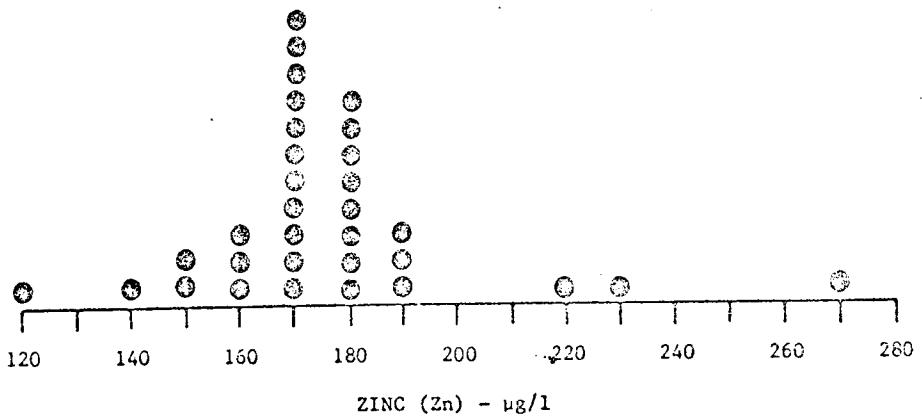
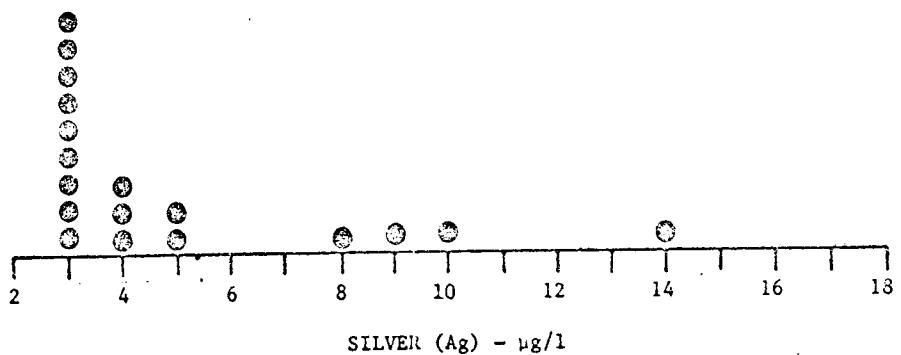


SAMPLE NO. 52

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	3	32.9	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	4	10.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	4	10.5	ATOMIC ABS-DIRECT
11-75	7	3	32.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	5	11.8	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	3	32.9	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15	5	11.8	ATOMIC ABS-FLAMELESS
11-75	16			NOT DETERMINED
11-75	17	14	213.2	REJECT ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	3	32.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22	9	101.3	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	3	32.9	ATOMIC ABS-DIRECT
11-75	28	3	32.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	3	32.9	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	4	10.5	ATOMIC ABS-FLAMELESS
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	10	123.7	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	3	32.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	3	32.9	ATOMIC ABS-FLAMELESS
11-75	41	8	78.9	ATOMIC ABS-DIRECT
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED
TOTAL RANGE	3	- 14		SAMPLE 52
MEAN		4.4706		
STANDARD DEVIATION		2.2945	AVERAGE DEVIATION 95 PCT.CONF.INTVL OF MEAN	1.7232 4.4706 OR 1.1798 AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	180	3.9	EMISSION-ARC/SPARK
11-75	2	170	1.9	ATOMIC ABS-DIRECT
11-75	3			NOT DETERMINED
11-75	4	180	3.9	ATOMIC ABS-DIRECT
11-75	5	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	6	160	7.6	ATOMIC ABS-DIRECT
11-75	7	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	170	1.9	ATOMIC ABS-DIRECT
11-75	11	150	13.4	ATOMIC ABS-DIRECT
11-75	12	520	200.2	REJECT ATOMIC ABS-DIRECT
11-75	13	190	9.7	ATOMIC ABS-DIRECT
11-75	14	170	1.9	ATOMIC ABS-DIRECT
11-75	15	160	7.6	ATOMIC ABS-DIRECT
11-75	16	180	3.9	ATOMIC ABS-DIRECT
11-75	17	180	3.9	ATOMIC ABS-DIRECT
11-75	18	230	32.8	ATOMIC ABS-DIRECT
11-75	19	220	27.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20	140	19.2	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	22	270	55.9	REJECT ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	27	180	3.9	ATOMIC ABS-DIRECT
11-75	28	150	13.4	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	30	170	1.9	ATOMIC ABS-DIRECT
11-75	31	190	9.7	ATOMIC ABS-DIRECT
11-75	32	160	7.6	ATOMIC ABS-DIRECT
12-75	33	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	34			NOT DETERMINED
11-75	35	170	1.9	ATOMIC ABS-DIRECT
11-75	37	180	3.9	ATOMIC ABS-DIRECT
11-75	38	190	9.7	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	40	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	41	170	1.9	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	42	180	3.9	ATOMIC ABS-DIRECT
11-75	43	120	30.7	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	44	180	3.9	ATOMIC ABS-DIRECT
11-75	45	430	148.2	REJECT ATOMIC ABS-DIRECT

TOTAL RANGE 120 - 520 SAMPLE 52
 MEAN 173.2247
 STANDARD DEVIATION 20.2298 AVERAGE DEVIATION 13.4233
 95 PCT.CONF.INTVL OF MEAN 173.2247 ± OR ± 7.4194 ZN



SAMPLE NO. 52

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X + OR- STD	X + OR- 2STD
AL	17	6	50	75	88
FE	36	14	23	77	94
MN	29	3	0	71	96
AS	16	0	31	75	94
BA	12	0	50	83	100
EE	6	17	100	100	100
CD	28	4	30	74	100
CR TOT	23	9	24	57	95
CO	10	0	50	60	100
CU	33	9	43	83	87
PB	26	0	23	77	88
LI	14	0	36	79	100
HG	16	6	47	80	100
MO	4	0	100	75	100
NI	17	0	35	75	94
SE	8	13	71	71	100
AG	18	6	29	82	94
ZN	34	9	61	81	90

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1	850	7.4	EMISSION-ARC/SPARK
11-75	2	820	3.6	ATOMIC ABS-DIRECT
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	720	9.0	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	810	2.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9	750	5.2	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	800	1.1	ATOMIC ABS-DIRECT
11-75	17	700	11.5	FERRON-ORTHOPHENANTHROLINE: USGS TWRI BKS CH A1
11-75	18			NOT DETERMINED
11-75	19	770	2.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25	170	78.5	REJECT OTHER
11-75	27			NOT DETERMINED
11-75	28	770	2.7	ATOMIC ABS-DIRECT
11-75	30	940	16.8	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	700	11.5	ATOMIC ABS-FLAMELESS
12-75	33	880	11.2	ATOMIC ABS-DIRECT
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	800	1.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	40	800	1.1	ATOMIC ABS-FLAMELESS
11-75	41	770	2.7	NEUTRON ACTIVATION
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	780	1.4	NEUTRON ACTIVATION

TOTAL RANGE 170 - 940
 MEAN 791.2473
 STANDARD DEVIATION 63.1268

AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

46.2500
 791.2473 +OR- 33.6308

SAMPLE 53

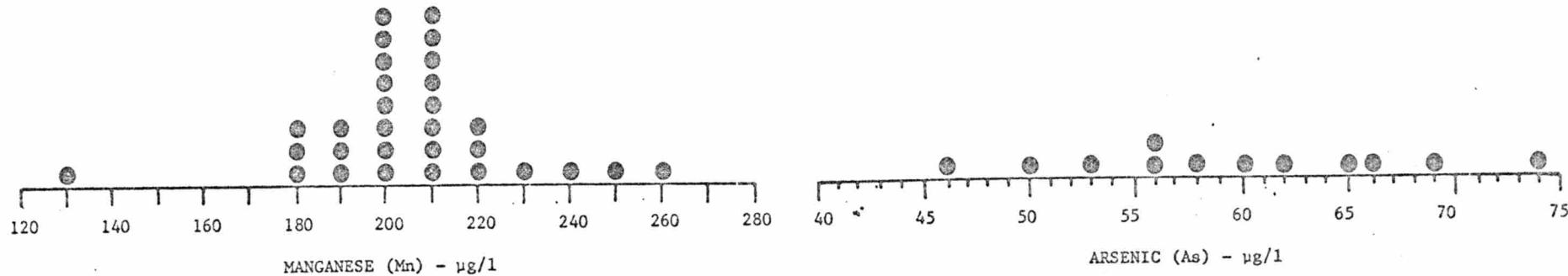
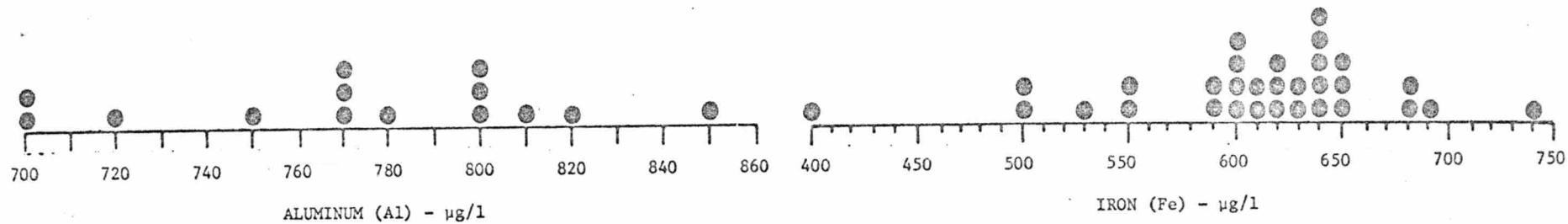
AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	680	9.5	EMISSION-ARC/SPARK
11-75	2	620	0.1	ATOMIC ABS-DIRECT
11-75	3	620	0.1	PHENANTHROLINE: APHA STD METH, 13ED
11-75	4	550	11.4	ATOMIC ABS-DIRECT
11-75	5	800	28.8	ATOMIC ABS-DIRECT
11-75	6	630	1.5	ATOMIC ABS-DIRECT
11-75	7	610	1.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8	600	3.4	BIPYRIDINE: USGS TWRI BK5 CH A1
11-75	9	650	4.7	ATOMIC ABS-DIRECT
11-75	11	800	28.8	ATOMIC ABS-DIRECT
11-75	12			NOT DETERMINED
11-75	13	970	56.2	REJECT ATOMIC ABS-FLAMELESS
11-75	14	680	9.5	ATOMIC ABS-DIRECT
11-75	15	640	3.1	ATOMIC ABS-DIRECT
11-75	16	640	3.1	ORTHOPHENANTHROLINE: ASTM METHOD A, D1068-74
11-75	17	650	4.7	PHENANTHROLINE: APHA STD METH, 13ED
11-75	18	500	19.5	PHENANTHROLINE: APHA STD METH, 13ED
11-75	19	740	19.2	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20	500	19.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	22	690	11.1	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	640	3.1	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	27	600	3.4	ATOMIC ABS-DIRECT
11-75	28	640	3.1	TECHNICON AUTOANALYZER, BIPYRIDINE
11-75	30	600	3.4	ATOMIC ABS-DIRECT
11-75	31	590	5.0	ATOMIC ABS-DIRECT
11-75	32	610	1.8	ATOMIC ABS-DIRECT
12-75	33	530	14.6	ATOMIC ABS-DIRECT
11-75	34	120	80.7	REJECT ATOMIC ABS-DIRECT
11-75	35	300	51.7	REJECT ATOMIC ABS-DIRECT
11-75	37	630	1.5	ATOMIC ABS-DIRECT
11-75	38	590	5.0	TECHNICON AUTOANALYZER, BIPYRIDINE
11-75	40	650	4.7	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	41	640	3.1	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	42	600	3.4	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	43	400	35.6	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	44	620	0.1	ATOMIC ABS-DIRECT
11-75	45	550	11.4	ORTHOPHENANTHROLINE: ASTM METHOD A, D1068-74

TOTAL RANGE	120	- 970	SAMPLE 53
MEAN	620.9058	AVERAGE DEVIATION	52.4517
STANDARD DEVIATION	78.0368	95 PCT.CONF.INTVL OF MEAN	620.9058 +OR- 27.5765 FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	230	10.6	EMISSION-ARC/SPARK
11-75	2	210	1.0	ATOMIC ABS-DIRECT
11-75	3	240	15.4	ATOMIC ABS-DIRECT
11-75	4	180	13.4	ATOMIC ABS-DIRECT
11-75	5	190	8.6	ATOMIC ABS-DIRECT
11-75	6	200	3.8	ATOMIC ABS-DIRECT
11-75	7	190	8.6	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	8			NOT DETERMINED
11-75	9	210	1.0	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	210	1.0	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	200	3.8	ATOMIC ABS-DIRECT
11-75	17	180	13.4	PERSULFATE: APHA STD METH. 13ED
11-75	18	180	13.4	ATOMIC ABS-DIRECT
11-75	19	250	25.0	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	20	250	20.2	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	22	200	3.8	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	200	3.8	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	27	200	3.8	ATOMIC ABS-DIRECT
11-75	28	220	5.8	ATOMIC ABS-DIRECT
11-75	30	210	1.0	ATOMIC ABS-DIRECT
11-75	31	190	8.6	ATOMIC ABS-DIRECT
11-75	32	200	3.8	ATOMIC ABS-DIRECT
12-75	33	220	5.8	ATOMIC ABS-DIRECT
11-75	34	20	90.4	REJECT ATOMIC ABS-DIRECT
11-75	35	220	5.8	ATOMIC ABS-DIRECT
11-75	37	210	1.0	ATOMIC ABS-DIRECT
11-75	38	210	1.0	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	40	200	3.8	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	41	210	1.0	NEUTRON ACTIVATION
11-75	42	30	85.6	REJECT ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	43	200	3.8	ATOMIC ABS-DIRECT; USGS TWRI BKS CH A1
11-75	44	210	1.0	ATOMIC ABS-DIRECT
11-75	45	130	37.5	REJECT PERSULFATE: APHA STD METH. 13ED
TOTAL RANGE	20	- 260		SAMPLE 53
MEAN		207.9296	AVERAGE DEVIATION	13.8644
STANDARD DEVIATION		19.1571	95 PCT.CONF.INTVL OF MEAN	207.9296 +OR- 7.2855 MN

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	30	44.9	ATOMIC ABS-HYDRIDE(ZINC); USGS PROVISIONAL
11-75	6			NOT DETERMINED
11-75	7	56	2.9	ATOMIC ABS-HYDRIDE(ZINC); USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			SILVER DIETHYLDITHIOTOCARBAMATE; APHA STD METH, 13ED
11-75	16	50	8.1	SILVER DIETHYLDITHIOTOCARBAMATE; USGS TWRI BK5 CH A1
11-75	17	58	6.6	NOT DETERMINED
11-75	18			SILVER DIETHYLDITHIOTOCARBAMATE-REVISION; USGS PROVISIONAL
11-75	19	66	21.3	NOT DETERMINED
11-75	20			ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	22	60	10.3	NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			ATOMIC ABS-HYDRIDE(ZINC); USGS PROVISIONAL
11-75	27	65	19.5	ATOMIC ABS-HYDRIDE(ZINC); USGS PROVISIONAL
11-75	28	53	2.6	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	30	62	14.0	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	31	32	41.2	SILVER DIETHYLDITHIOTOCARBAMATE; APHA STD METH, 13ED
11-75	32	74	36.0	OTHER
12-75	33	69	26.8	OTHER
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	540	892.6	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-75	38	56	2.9	ATOMIC ABS-HYDRIDE(ZINC); USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	46	15.4	SILVER DIETHYLDITHIOTOCARBAMATE; APHA STD METH, 13ED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	39	28.3	NEUTRON ACTIVATION
TOTAL RANGE	30	540		SAMPLE 53
MEAN		54.3998	AVERAGE DEVIATION	10.1867
STANDARD DEVIATION		13.0318	95 PCT.CONF.INTVL OF MEAN	54.3998 +OR- 7.2175 AS



SAMPLE NO. 53

DATE MO-YR	CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHOD
11-75	1	900	17.9	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	800	4.8	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	700	8.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	500	34.5	REJECT ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	800	4.8	ATOMIC ABS-DIRECT
11-75	17	800	4.8	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	800	4.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22	700	8.3	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	700	8.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	30	800	4.8	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	700	8.3	OTHER
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38			NOT DETERMINED
11-75	40			NOT DETERMINED
11-75	41	700	8.3	ATOMIC ABS-DIRECT
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE	500	= 900	AVERAGE DEVIATION	57.8514	SAMPLE 53
MEAN	763.6340				
STANDARD DEVIATION	67.4200		95 PCT.CONF.INTVL OF MEAN	763.6340 +OR- 45.2905	BA

Ba

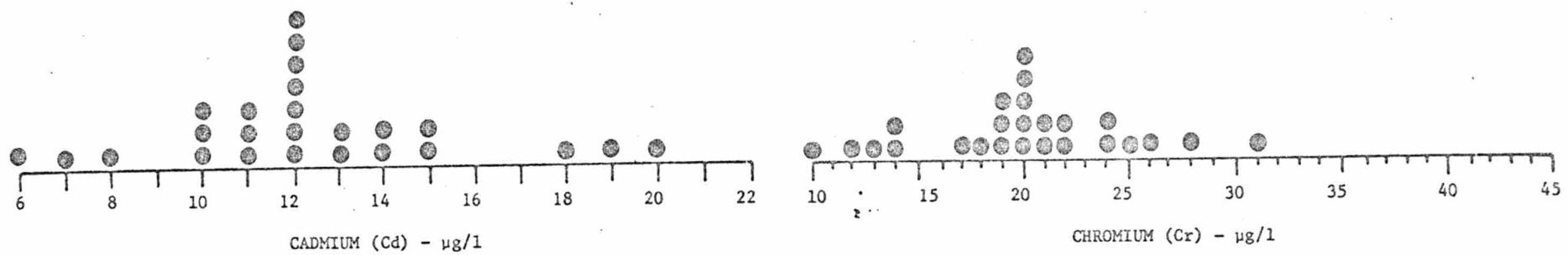
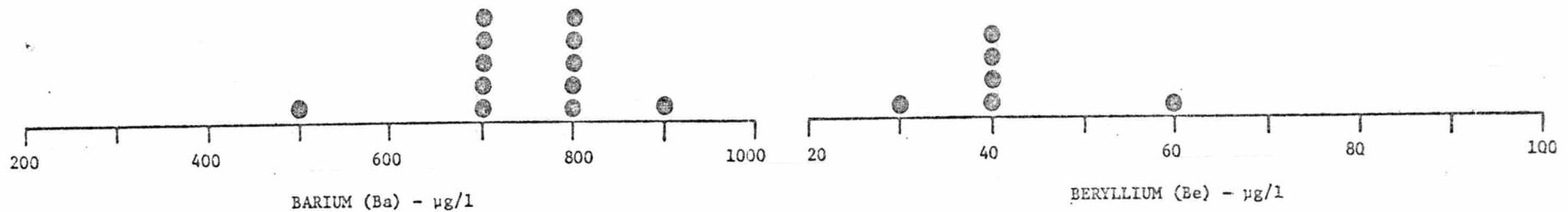
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD	
11-75	1	60	44.0	EMISSION=ARC/SPARK	
11-75	2			NOT DETERMINED	
11-75	3			NOT DETERMINED	
11-75	4			NOT DETERMINED	
11-75	5			NOT DETERMINED	
11-75	6			NOT DETERMINED	
11-75	7	40	4.0	ATOMIC ABS=DIRECT: USGS TWRI BK5 CH A1	
11-75	8			NOT DETERMINED	
11-75	9			NOT DETERMINED	
11-75	11			NOT DETERMINED	
11-75	12			NOT DETERMINED	
11-75	13			NOT DETERMINED	
11-75	14			NOT DETERMINED	
11-75	15			NOT DETERMINED	
11-75	16	40	4.0	ATOMIC ABS=DIRECT	
11-75	17			NOT DETERMINED	
11-75	18			NOT DETERMINED	
11-75	19	40	4.0	ATOMIC ABS=DIRECT: USGS TWRI BK5 CH A1	
11-75	20			NOT DETERMINED	
11-75	22			NOT DETERMINED	
11-75	23			NOT DETERMINED	
11-75	25			NOT DETERMINED	
11-75	27			NOT DETERMINED	
11-75	28	30	28.0	ATOMIC ABS=DIRECT: USGS TWRI BK5 CH A1	
11-75	30			NOT DETERMINED	
11-75	31			NOT DETERMINED	
11-75	32			NOT DETERMINED	
12-75	33			NOT DETERMINED	
11-75	34			NOT DETERMINED	
11-75	35			NOT DETERMINED	
11-75	37			NOT DETERMINED	
11-75	38			NOT DETERMINED	
11-75	40			NOT DETERMINED	
11-75	41			NOT DETERMINED	
11-75	42			NOT DETERMINED	
11-75	43			NOT DETERMINED	
11-75	44			NOT DETERMINED	
11-75	45	40	4.0	ATOMIC ABS=DIRECT	
TOTAL RANGE	30	- 60			
MEAN		41.6666	AVERAGE DEVIATION	6.1111	SAMPLE 53
STANDARD DEVIATION		9.8319	95 PCT.CONF.INTVL OF MEAN	41.6666 +OR- 10.3196	BE

Be

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	.2	15	21.4	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	10	19.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	12	2.9	ATOMIC ABS-DIRECT
11-75	7	12	2.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	11	11.0	ATOMIC ABS-DIRECT
11-75	11	12	2.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	12	37	199.4	REJECT OTHER
11-75	13	12	2.9	ATOMIC ABS-FLAMELESS
11-75	14	6	51.5	ATOMIC ABS-FLAMELESS
11-75	15	20	61.8	ATOMIC ABS-FLAMELESS
11-75	16	8	35.3	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17	12	2.9	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	11	11.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20	10	19.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	22	14	13.3	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	23			NOT DETERMINED
11-75	25	40	223.6	REJECT ANODIC STRIPPING VOLTAMMETRY
11-75	27	13	5.2	ATOMIC ABS-DIRECT
11-75	28	7	43.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	12	2.9	ATOMIC ABS-DIRECT
11-75	31	15	21.4	ATOMIC ABS-DIRECT
11-75	32	10	19.1	ATOMIC ABS-FLAMELESS
12-75	33	18	45.6	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	19	53.7	ATOMIC ABS-FLAMELESS
11-75	38	11	11.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	13	5.2	ATOMIC ABS-FLAMELESS
11-75	41	12	2.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	14	13.3	ATOMIC ABS-DIRECT

TOTAL RANGE	6	40	AVERAGE DEVIATION	2.3808	SAMPLE 53
MEAN					
STANDARD DEVIATION			95 PCT.CONF.INTVL OF MEAN	12.3599 +OR- 1.3737	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	18	9.8	EMISSION-ARC/SPARK
11-75	2	25	.25.3	ATOMIC ABS-DIRECT; USGS PROVISIONAL
11-75	3		.	NOT DETERMINED
11-75	4	31	55.3	ATOMIC ABS-DIRECT
11-75	5		.	NOT DETERMINED
11-75	6	26	30.3	ATOMIC ABS-DIRECT
11-75	7	20	0.2	ATOMIC ABS-DIRECT; USGS PROVISIONAL
11-75	8		.	NOT DETERMINED
11-75	9	17	14.8	ATOMIC ABS-DIRECT
11-75	11		.	NOT DETERMINED
11-75	12	24	20.2	OTHER
11-75	13	14	29.9	ATOMIC ABS-FLAMELESS
11-75	14	14	29.9	ATOMIC ABS-FLAMELESS
11-75	15	22	10.2	ATOMIC ABS-FLAMELESS
11-75	16	13	34.9	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17	20	0.2	ATOMIC ABS-DIRECT
11-75	18		.	NOT DETERMINED
11-75	19	19	4.8	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI 8K5 CH A1
11-75	20		.	NOT DETERMINED
11-75	22	28	40.3	ATOMIC ABS-DIRECT
11-75	23		.	NOT DETERMINED
11-75	25		.	NOT DETERMINED
11-75	27	20	0.2	OTHER
11-75	28	90	350.9	REJECT ATOMIC ABS-DIRECT; USGS PROVISIONAL
11-75	30	22	10.2	ATOMIC ABS-DIRECT
11-75	31		.	NOT DETERMINED
11-75	32	19	4.8	ATOMIC ABS-FLAMELESS
12-75	33	19	4.8	ATOMIC ABS-FLAMELESS
11-75	34		.	NOT DETERMINED
11-75	35	20	0.2	ATOMIC ABS-DIRECT
11-75	37		.	NOT DETERMINED
11-75	38	12	39.9	ATOMIC ABS-CHELATION/EXTRACTION; USGS TWRI 8K5 CH A1
11-75	40	21	5.2	ATOMIC ABS-FLAMELESS
11-75	41	21	5.2	ATOMIC ABS-DIRECT; USGS PROVISIONAL
11-75	42	20	0.2	ATOMIC ABS-DIRECT
11-75	43		.	NOT DETERMINED
11-75	44	10	49.9	ATOMIC ABS-DIRECT
11-75	45	24	20.2	ATOMIC ABS-DIRECT
TOTAL RANGE	10	- 90		SAMPLE 53
MEAN		19.9599	AVERAGE DEVIATION	3.5580
STANDARD DEVIATION		4.9538	95 PCT.CONF.INTVL OF MEAN	19.9599 +OR- 2.0449 CR TOT



SAMPLE NO. 53

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	12	28.2	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	10	6.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6			NOT DETERMINED
11-75	7	10	6.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	4	57.3	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	13	38.8	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	9	3.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	5	46.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33	10	6.8	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	10	6.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	3	68.0	ATOMIC ABS-FLAMELESS
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	17	81.6	NEUTRON ACTIVATION
TOTAL RANGE	3	0 17		SAMPLE 53
MEAN		9.3636	AVERAGE DEVIATION	2.9917
STANDARD DEVIATION		4.1054	95 PCT.CONF.INTVL OF MEAN	9.3636 +/- 2.7579
				CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	590	33.0	REJECT EMISSION-ARC/SPARK
11-75	2	430	3.0	ATOMIC ABS-DIRECT
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	430	3.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	420	5.3	ATOMIC ABS-DIRECT
11-75	7	430	3.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	400	9.8	ATOMIC ABS-DIRECT
11-75	11	260	41.4	REJECT ATOMIC ABS-DIRECT
11-75	12	20	95.5	REJECT OTHER
11-75	13	420	5.3	ATOMIC ABS-FLAMELESS
11-75	14	450	1.5	ATOMIC ABS-DIRECT
11-75	15	470	6.0	ATOMIC ABS-DIRECT
11-75	16	430	3.0	ATOMIC ABS-DIRECT
11-75	17	440	0.8	ATOMIC ABS-DIRECT
11-75	18	480	8.2	ATOMIC ABS-DIRECT
11-75	19	450	1.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	20	400	9.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	22	450	1.5	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	440	0.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	27	490	10.5	ATOMIC ABS-DIRECT
11-75	28	440	0.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	30	460	3.7	ATOMIC ABS-DIRECT
11-75	31	440	0.8	ATOMIC ABS-DIRECT
11-75	32	440	0.8	ATOMIC ABS-DIRECT
11-75	33	440	0.8	ATOMIC ABS-DIRECT
11-75	34			NOT DETERMINED
11-75	35	480	8.2	ATOMIC ABS-DIRECT
11-75	37	440	0.8	ATOMIC ABS-DIRECT
11-75	38	550	24.0	REJECT ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	40	450	1.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	41	480	8.2	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	42	80	82.0	REJECT ATOMIC ABS-DIRECT
11-75	43	220	50.4	REJECT ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
11-75	44	430	3.0	ATOMIC ABS-DIRECT
11-75	45			NOT DETERMINED

TOTAL RANGE 20 - 590
 MEAN 443.4590
 STANDARD DEVIATION 22.9682

AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

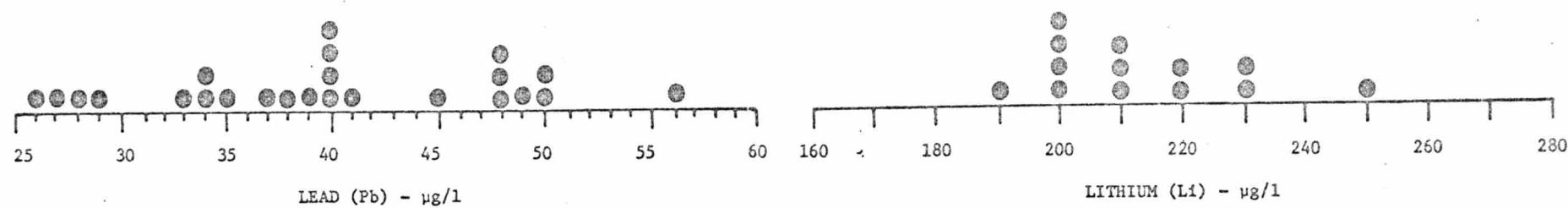
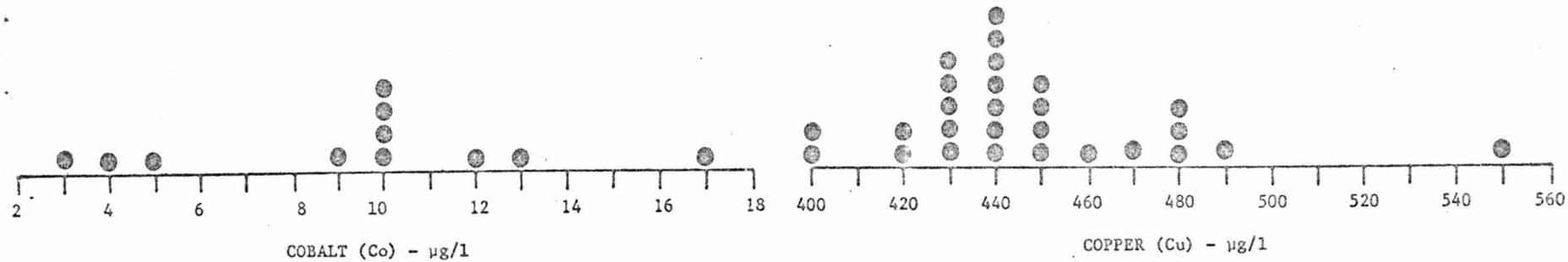
17.3367
 443.4590 +OR- 9.2791

SAMPLE 53

CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	50	24.9	EMISSION-ARC/SPARK
11-75	2	110	174.7	REJECT ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	65	62.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	40	0.1	OTHER
11-75	7	39	2.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	34	15.1	OTHER
11-75	11			NOT DETERMINED
11-75	12	21	47.6	OTHER
11-75	13	28	30.1	ATOMIC ABS-FLAMELESS
11-75	14	27	32.6	ATOMIC ABS-FLAMELESS
11-75	15	48	19.9	ATOMIC ABS-FLAMELESS
11-75	16	49	22.4	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	17	40	0.1	OTHER
11-75	18			NOT DETERMINED
11-75	19	41	2.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20	35	12.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	22	45	12.4	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	23			NOT DETERMINED
11-75	25	40	0.1	ANODIC STRIPPING VOLTAMMETRY
11-75	27	38	5.1	ATOMIC ABS-CHELATION/EXTRACTION, EPA
11-75	28	33	17.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	34	15.1	OTHER
11-75	31	37	7.6	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH. 13ED
11-75	32	26	35.1	ATOMIC ABS-FLAMELESS
12-75	33	56	39.9	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	40	0.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	48	19.9	ATOMIC ABS-FLAMELESS
11-75	41	29	27.6	ATOMIC ABS-FLAMELESS
11-75	42	48	19.9	ANODIC STRIPPING VOLTAMMETRY
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	50	24.9	OTHER
TOTAL RANGE	21	- 110		SAMPLE 53
MEAN		40.0383	AVERAGE DEVIATION	7.6627
STANDARD DEVIATION		10.0617	95 PCT.CONF.INTVL OF MEAN	40.0383 +OR- 4.0649
				P8

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	230	7.9	ATOMIC ABS-DIRECT
11-75	6			NOT DETERMINED
11-75	7	200	6.1	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11	130	39.0	REJECT ATOMIC ABS-DIRECT
11-75	12			NOT DETERMINED
11-75	13	190	10.8	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	250	17.3	ATOMIC ABS-DIRECT
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	220	3.2	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23	200	6.1	ATOMIC ABS-DIRECT
11-75	25	200	6.1	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	27			NOT DETERMINED
11-75	28	210	1.4	ATOMIC ABS-DIRECT
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	210	1.4	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	40	210	1.4	ATOMIC ABS-DIRECT, USGS TWRI SKS CH A1
11-75	41	220	3.2	ATOMIC ABS-DIRECT
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44	230	7.9	ATOMIC ABS-DIRECT
11-75	45	200	6.1	ATOMIC ABS-DIRECT
TOTAL RANGE	130	- 250		SAMPLE 53
MEAN		213.0767	AVERAGE DEVIATION	13.0177
STANDARD DEVIATION		16.5250	95 PCT.CONF.INTVL OF MEAN	213.0767 +OR- 9.9868 LI



SAMPLE NO. 53

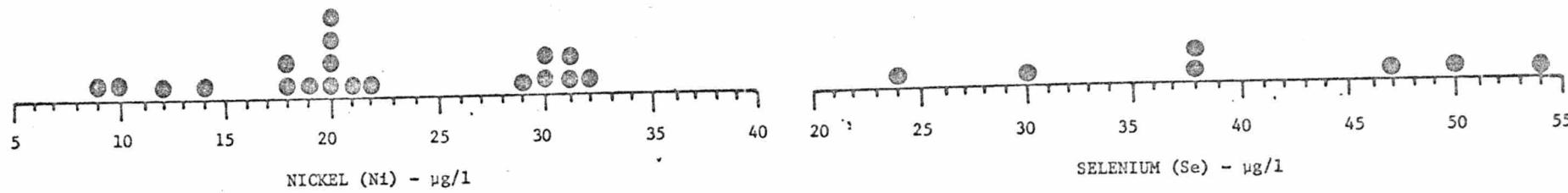
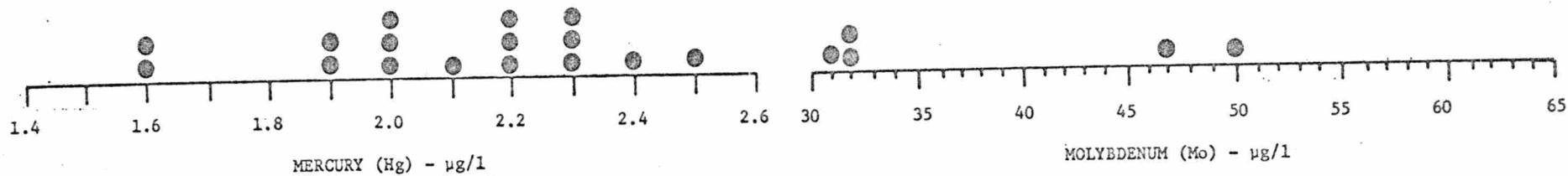
DATE MO.YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4	2.0	4.5	TECHNICON AUTOANALYZER; ATOMIC ABS-FLAMELESS; EPA
11-75	5	2.5	19.4	ATOMIC ABS-FLAMELESS; ASTM METHOD A, D3223-73
11-75	6			NOT DETERMINED
11-75	7	2.1	0.3	TECHNICON AUTOANALYZER; ATOMIC ABS-FLAMELESS; EPA
11-75	8			NOT DETERMINED
11-75	9	1.6	23.6	ATOMIC ABS-FLAMELESS; EPA
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15	1.6	23.6	ATOMIC ABS-FLAMELESS; EPA
11-75	16	1.9	9.3	ATOMIC ABS-FLAMELESS; EPA
11-75	17	2.3	9.9	ATOMIC ABS-FLAMELESS; EPA
11-75	18			NOT DETERMINED
11-75	19	2.3	9.9	ATOMIC ABS-FLAMELESS; USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22	2.2	5.1	ATOMIC ABS-FLAMELESS; EPA
11-75	23	2.0	4.5	ATOMIC ABS-FLAMELESS; EPA
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	2.2	5.1	ATOMIC ABS-FLAMELESS; USGS PROVISIONAL
11-75	30	2.2	5.1	ATOMIC ABS-FLAMELESS; EPA
11-75	31			NOT DETERMINED
11-75	32	2.3	9.9	ATOMIC ABS-FLAMELESS; EPA
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37	4.2	100.6	REJECT ATOMIC ABS-FLAMELESS; EPA
11-75	38	1.9	9.3	ATOMIC ABS-FLAMELESS; USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42	2.0	4.5	ATOMIC ABS-FLAMELESS; ASTM METHOD A, D3223-73
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	2.4	14.6	ATOMIC ABS-FLAMELESS; ASTM METHOD A, D3223-73
TOTAL RANGE	1.6	- 4.2		SAMPLE 53
MEAN	2.0937	AVERAGE DEVIATION	0.2070	
STANDARD DEVIATION	0.2594	95 PCT.CONF.INTVL OF MEAN	2.0937 +/- 0.1382	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	47	22.4	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	50	30.2	OTHER
11-75	6			NOT DETERMINED
11-75	7			NOT DETERMINED
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	100	160.4	REJECT OTHER
11-75	17			NOT DETERMINED
11-75	18			NOT DETERMINED
11-75	19	32	16.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27			NOT DETERMINED
11-75	28	32	16.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	31	19.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED
TOTAL RANGE	31	= 100		SAMPLE 53
MEAN		38.4000	AVERAGE DEVIATION	8.0800
STANDARD DEVIATION		9.2898	95 PCT.CONF.INTVL OF MEAN	38.4000 +OR- 11.5329
				MO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	33	54.1	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4	30	40.0	ATOMIC ABS-DIRECT
11-75	5	18	16.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	20	6.6	ATOMIC ABS-DIRECT
11-75	7	20	6.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	31	44.7	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12	19	11.3	OTHER
11-75	13	20	6.6	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15	20	6.6	ATOMIC ABS-FLAMELESS
11-75	16			NOT DETERMINED
11-75	17	9	58.0	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	14	34.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22	10	53.3	ATOMIC ABS-CHELATION/EXTRACTION: EPA
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	18	16.0	ATOMIC ABS-DIRECT
11-75	28	31	44.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32			NOT DETERMINED
12-75	33	21	2.0	ATOMIC ABS-FLAMELESS
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	22	2.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	29	35.4	ATOMIC ABS-FLAMELESS
11-75	41	30	40.0	ATOMIC ABS-CHELATION/EXTRACTION: EPA
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45	12	44.0	ATOMIC ABS-DIRECT
TOTAL RANGE	9	33		SAMPLE 53
MEAN		21.4210	AVERAGE DEVIATION	5.9003
STANDARD DEVIATION		7.4111	95 PCY.CONF.INTVL OF MEAN	21.4210 +OR- 3.5721 NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5			NOT DETERMINED
11-75	6			NOT DETERMINED
11-75	7	50	36.5	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	8			NOT DETERMINED
11-75	9			NOT DETERMINED
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13			NOT DETERMINED
11-75	14			NOT DETERMINED
11-75	15			NOT DETERMINED
11-75	16	30	18.1	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	17	47	28.3	OTHER
11-75	18			NOT DETERMINED
11-75	19			NOT DETERMINED
11-75	20			NOT DETERMINED
11-75	22			NOT DETERMINED
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	24	34.5	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	28	38	3.8	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	30			NOT DETERMINED
11-75	31			NOT DETERMINED
11-75	32	54	47.4	OTHER
12-75	33	38	3.8	OTHER
11-75	34			NOT DETERMINED
11-75	35			NOT DETERMINED
11-75	37			NOT DETERMINED
11-75	38	12	67.2	ATOMIC ABS-HYDRIDE(STANNOUS CHLORIDE): USGS PROVISIONAL
11-75	40			NOT DETERMINED
11-75	41			NOT DETERMINED
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE 12 54 SAMPLE 53
 MEAN 36.6249 AVERAGE DEVIATION 10.9688
 STANDARD DEVIATION 14.1516 95 PCT-CONF.INTVL OF MEAN 36.6249 +/- 11.8329 SE



SAMPLE NO. 53

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1	10	7.3	EMISSION-ARC/SPARK
11-75	2			NOT DETERMINED
11-75	3			NOT DETERMINED
11-75	4			NOT DETERMINED
11-75	5	12	28.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	6	8	14.1	ATOMIC ABS-DIRECT
11-75	7	7	24.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	8			NOT DETERMINED
11-75	9	6	35.6	ATOMIC ABS-DIRECT
11-75	11			NOT DETERMINED
11-75	12			NOT DETERMINED
11-75	13	8	14.1	ATOMIC ABS-FLAMELESS
11-75	14			NOT DETERMINED
11-75	15	12	28.8	ATOMIC ABS-FLAMELESS
11-75	16	10	7.3	ATOMIC ABS-DIRECT
11-75	17	11	18.1	ATOMIC ABS-DIRECT
11-75	18			NOT DETERMINED
11-75	19	6	35.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	20			NOT DETERMINED
11-75	22	21	125.4	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25			NOT DETERMINED
11-75	27	8	14.1	ATOMIC ABS-DIRECT
11-75	28	6	35.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	30	9	3.4	ATOMIC ABS-DIRECT
11-75	31			NOT DETERMINED
11-75	32	7	24.9	ATOMIC ABS-FLAMELESS
12-75	33			NOT DETERMINED
11-75	34			NOT DETERMINED
11-75	35	20	114.7	ATOMIC ABS-DIRECT
11-75	37			NOT DETERMINED
11-75	38	7	24.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
11-75	40	6	35.6	ATOMIC ABS-FLAMELESS
11-75	41	3	67.8	ATOMIC ABS-DIRECT
11-75	42			NOT DETERMINED
11-75	43			NOT DETERMINED
11-75	44			NOT DETERMINED
11-75	45			NOT DETERMINED

TOTAL RANGE 3 21
 MEAN 9.3158
 STANDARD DEVIATION 4.5589

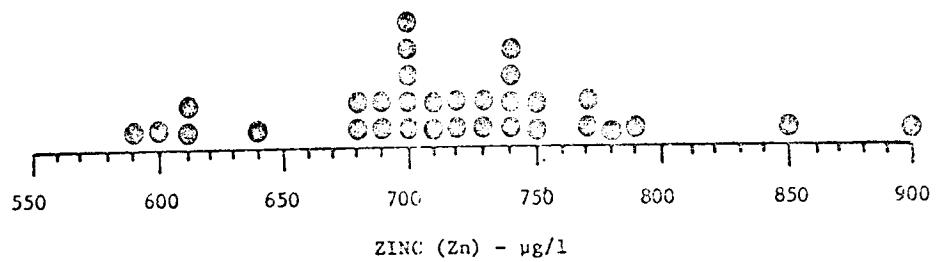
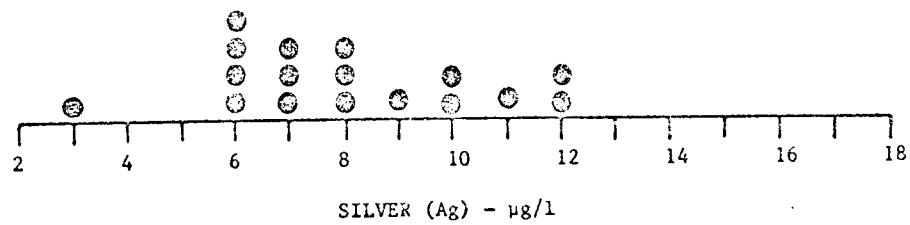
AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

3.2410
 9.3158 +OR-
 2.1974

SAMPLE 53

AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
11-75	1			NOT DETERMINED
11-75	2	610	15.6	ATOMIC ABS-DIRECT
11-75	3			NOT DETERMINED
11-75	4	710	1.8	ATOMIC ABS-DIRECT
11-75	5	730	1.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	6	700	3.1	ATOMIC ABS-DIRECT
11-75	7	700	3.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	8			NOT DETERMINED
11-75	9	740	2.4	ATOMIC ABS-DIRECT
11-75	11	640	11.4	ATOMIC ABS-DIRECT
11-75	12	750	3.8	ATOMIC ABS-DIRECT
11-75	13	790	9.3	ATOMIC ABS-DIRECT
11-75	14	700	3.1	ATOMIC ABS-DIRECT
11-75	15	770	6.5	ATOMIC ABS-DIRECT
11-75	16	750	3.8	ATOMIC ABS-DIRECT
11-75	17	850	17.6	ATOMIC ABS-DIRECT
11-75	18	590	18.4	ATOMIC ABS-DIRECT
11-75	19	920	27.3	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	20	710	1.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	22	690	4.5	ATOMIC ABS-DIRECT
11-75	23			NOT DETERMINED
11-75	25	680	5.9	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	27	770	6.5	ATOMIC ABS-DIRECT
11-75	28	900	24.5	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	30	680	5.9	ATOMIC ABS-DIRECT
11-75	31	780	7.9	ATOMIC ABS-DIRECT
11-75	32	740	2.4	ATOMIC ABS-DIRECT
12-75	33	740	2.4	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	34			NOT DETERMINED
11-75	35	690	4.5	ATOMIC ABS-DIRECT
11-75	37	700	3.1	ATOMIC ABS-DIRECT
11-75	38	610	15.6	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	40	730	1.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	41	740	2.4	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	42	700	3.1	ATOMIC ABS-DIRECT
11-75	43	600	17.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
11-75	44	720	0.4	ATOMIC ABS-DIRECT
11-75	45	720	0.4	ATOMIC ABS-DIRECT
TOTAL RANGE	590	- 920		SAMPLE 53
MEAN		722.7239	AVERAGE DEVIATION	52.0658
STANDARD DEVIATION		74.0046	95 PCT.CONF.INTVL OF MEAN	722.7239 +OR- 26.1516 ZN



SAMPLE NO. 53

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN 95 PCT. CI X +OR- STD X +OR- 2STD		
AL	17	6	56	69	94
FE	36	8	48	79	91
MN	32	7	28	76	93
AS	16	6	40	67	100
BA	12	8	45	91	91
BE	6	0	67	67	100
CD	27	7	48	76	96
CR TOT	26	4	52	64	92
CO	11	0	55	64	100
CU	32	19	42	65	96
PB	27	4	31	73	96
LI	14	7	38	69	92
HG	17	6	44	75	100
MO	6	17	80	80	100
NI	19	0	47	47	100
SE	8	0	50	75	100
AG	19	0	37	84	89
ZN	33	0	45	76	94