

REPORT OF
ANALYTICAL EVALUATION PROGRAM
STANDARD REFERENCE WATER SAMPLES NUMBERS 44, 45, 48 and 49

14-SLC

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

May 1975

135

PARTICIPATING LABORATORIES

U.S. Geological Survey

CALIFORNIA, Menlo Park: Hem GEORGIA, Doraville: Handy
COLORADO, Lakewood: Schroder NEW YORK, Albany: Malo
COLORADO, Lakewood: Thatcher UTAH, Salt Lake City: Gordon

Other

ALABAMA, University: Geological Survey of Alabama
ARKANSAS, Little Rock: State Department of Pollution
Control and Ecology
CALIFORNIA, Oakland: East Bay Municipal Utility District
COLORADO, Denver: Denver Board of Water Commissioners
GEORGIA, Athens: State Soil Testing and Plant Analysis
Laboratory
GEORGIA, Atlanta: State Department of Natural Resources,
EPD
GEORGIA, Atlanta: State Department of Natural Resources,
Earth & Water Division
KANSAS, Lawrence: Kansas Geological Survey
MISSOURI, Columbia: Environmental Trace Substances
Center, Prof. Koirtzmann, University of Missouri
MISSOURI, Jefferson City: Missouri Clean Water Commission
MISSOURI, St. Louis: St. Louis Metro Sewer District

Other.--Continued

MONTANA, Butte: Montana Bureau of Mines and Geology
NEVADA, Reno: Bureau of Environmental Health
NEW MEXICO, Gallup: U.S. Bureau of Indian Affairs
NEW YORK, Hauppauge: Suffolk County Environmental
Control
NORTH DAKOTA, Bismarck: North Dakota State Labora-
tories
OHIO, Dayton: The Miami Conservancy District
OKLAHOMA, Oklahoma City: Oklahoma Water Resources
Board
OKLAHOMA, Oklahoma City: Oklahoma State Health Dept.
PENNSYLVANIA, West Chester: Chester Co. Health Dept.
SOUTH CAROLINA, Columbia: State Pollution Control
Authority
SOUTH DAKOTA, Brookings: State WQ Laboratory
TENNESSEE, Chattanooga: Tennessee Valley Authority
VIRGINIA, Richmond: State Consolidated Laboratories
WEST VIRGINIA, Morgantown: West Virginia Geological
Survey
WYOMING, Laramie: State Department of Agriculture

Foreign

NEW ZEALAND, Petone: Chemistry Division, D.S.I.R.

STANDARD REFERENCE WATER SAMPLES NUMBERS 44, 45, 48, AND 49

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 33 laboratories for Standard Reference Water Samples numbers 44, 45, 48, and 49 distributed on April 4, 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. The samples 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- μ m membrane filter into a large polyethylene drum. Each sample was mixed overnight with a motor-driven stirrer, pumped through an ultraviolet (2537A) sterilizer and packaged in sterile teflon bottles under ultraviolet radiation.

DETERMINATIONS - NOS. 44 and 45

Arsenic (As)	Selenium (Se)
Beryllium (Be)*	Silver (Ag)**
Molybdenum (Mo)	

* Sample No. 44 only

** Sample No. 45 only

DETERMINATIONS - NOS. 48 and 49

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

* Sample No. 48 only

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.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1			NOT DETERMINED
5-75	2	2	59.2	SILVER DIETHYLDITHIOCARBAMATE: JSGS TARI BKS CH A1
5-75	4			NOT DETERMINED
5-75	5	7	42.9	ATOMIC ABS: USGS PROVISIONAL
5-75	8	6	22.4	SILVER DIETHYLDITHIOCARBAMATE-REVISION: USGS PROVISIONAL
4-75	9	2	59.2	ATOMIC ABS: USGS PROVISIONAL
5-75	12	8	63.3	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	14	4	18.4	ATOMIC ABS: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	20	3	38.8	SILVER DIETHYLDITHIOCARBAMATE: JSGS TARI BKS CH A1
5-75	22	5	2.0	OTHER
5-75	24	7	42.9	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	25			NOT DETERMINED
5-75	36	5	2.0	OTHER

TOTAL RANGE	2	-	8				SAMPLE 44
MEAN		4.9000		AVERAGE DEVIATION	1.7200		
STANDARD DEVIATION		2.1318		95 PCT.CONF.INTVL OF MEAN	4.9000 +OR-	1.5249	AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1	20	40.0	OTHER
5-75	2			NOT DETERMINED
5-75	4	10	30.0	OTHER
5-75	5	10	30.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	8	20	40.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
4-75	9	10	30.0	ATOMIC ABS-CHELATION/EXTRACTION: ALPHA STD METH. 13ED
5-75	12			NOT DETERMINED
5-75	14	10	30.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	15	20	40.0	OTHER
5-75	20			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	36			NOT DETERMINED

TOTAL RANGE	10	-	20				SAMPLE 44
MEAN		14.2857		AVERAGE DEVIATION	4.8979		
STANDARD DEVIATION		5.3452		95 PCT.CONF.INTVL OF MEAN	14.2857 +OR-	4.9437	9E

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1	2	25.0	OTHER
5-75	2			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	1	37.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	8			NOT DETERMINED
4-75	9	3	87.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	12			NOT DETERMINED
5-75	14	0	100.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	20			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	36	2	25.0	OTHER

TOTAL RANGE 0
 MEAN
 STANDARD DEVIATION

- 3
 1.6000
 1.1402

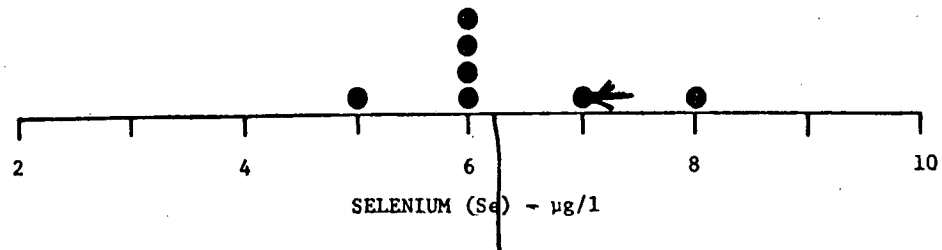
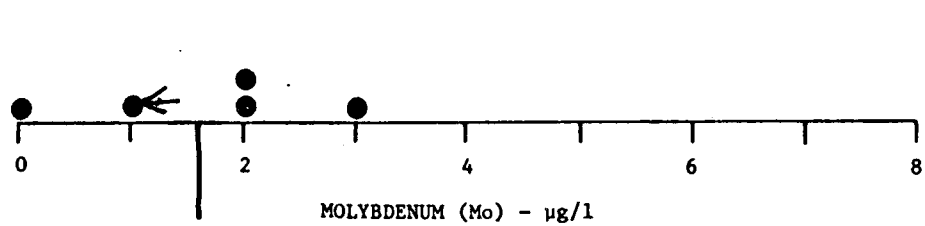
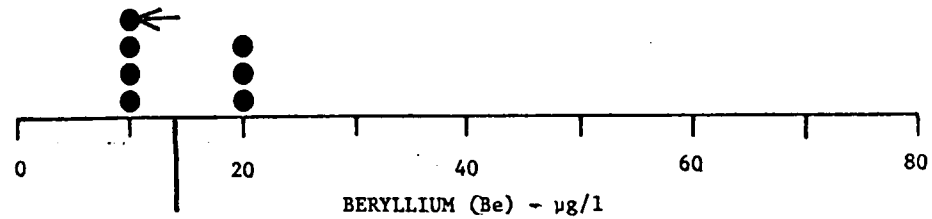
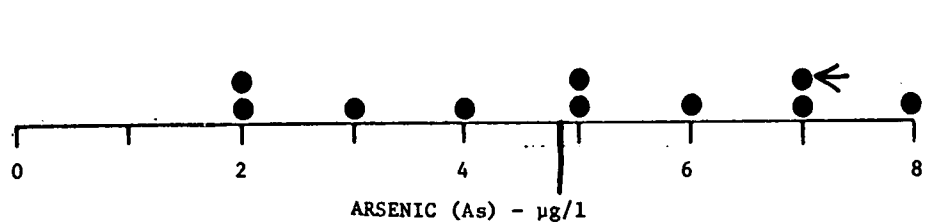
AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

0.8800
 1.6000 +OR- 1.4155

SAMPLE 44
 40

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1			NOT DETERMINED
5-75	2	5.	20.5	OTHER
5-75	4			NOT DETERMINED
5-75	5	7	11.4	ATOMIC ABS: USGS PROVISIONAL
5-75	8			NOT DETERMINED
4-75	9	8	27.3	ATOMIC ABS: USGS PROVISIONAL
5-75	12			NOT DETERMINED
5-75	14	6	4.5	ATOMIC ABS: USGS PROVISIONAL
5-75	15	6	4.5	ATOMIC ABS: USGS PROVISIONAL
5-75	20			NOT DETERMINED
5-75	22	6	4.5	OTHER
5-75	24			NOT DETERMINED
5-75	25	6	4.5	OTHER
5-75	36			NOT DETERMINED

TOTAL RANGE	5	-	8	AVERAGE DEVIATION	0.6939		SAMPLE 44
MEAN		6.2857		95 PCT.CONF.INTVL OF MEAN	6.2857 +OR-	0.8797	SE
STANDARD DEVIATION		0.9512					



SAMPLE NO. 44

DETERMINATION

NO. LABS
REPORTING

PCT. OF VALUES
REJECTED

PCT. OF UNREJECTED VALUES WITHIN
95 PCT. CI X +OR- STD X +OR- 2STD

AS	10	0	40	70	100
BE	7	0	57	57	100
MO	5	0	80	60	100
SE	7	0	71	71	100

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1			NOT DETERMINED
5-75	2	9	53.0	SILVER DIETHYLDITHIOCARBAMATE: JSGS TWRI BKS CH A1
5-75	4			NOT DETERMINED
5-75	5	19	0.7	ATOMIC ABS: USGS PROVISIONAL
5-75	8	29	51.6	SILVER DIETHYLDITHIOCARBAMATE-REVISION: USGS PROVISIONAL
4-75	9	10	47.7	ATOMIC ABS: USGS PROVISIONAL
5-75	11	28	46.3	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	12	2	89.5	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	14	16	16.4	ATOMIC ABS: USGS PROVISIONAL
5-75	15	20	4.5	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
5-75	20	30	56.8	SILVER DIETHYLDITHIOCARBAMATE: JSGS TWRI BKS CH A1
5-75	21	20	4.5	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	22	21	9.8	OTHER
5-75	24	22	15.0	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	25	15	16.4	OTHER
5-75	28	28	46.3	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH. 13ED
5-75	36	17	11.1	OTHER

TOTAL RANGE 2
 MEAN
 STANDARD DEVIATION

19.1333
 7.9720

30
 AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

5.9911
 19.1333 +OR- 4.4152

SAMPLE 45
 AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1	20	6.4	OTHER
5-75	2			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	17	9.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	8			NOT DETERMINED
4-75	9	18	4.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
5-75	14	18	4.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
5-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	36	21	11.7	OTHER

TOTAL RANGE	17	-	21				SAMPLE 45
MEAN		18.8000		AVERAGE DEVIATION	1.3600		
STANDARD DEVIATION		1.6432		95 PCT.CONF.INTVL OF MEAN	18.8000 +OR-	2.0399	40

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1			NOT DETERMINED
5-75	2	21	9.8	OTHER
5-75	4			NOT DETERMINED
5-75	5	18	22.7	ATOMIC ABS: USGS PROVISIONAL
5-75	8			NOT DETERMINED
4-75	9	28	20.2	ATOMIC ABS: USGS PROVISIONAL
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
5-75	14	23	1.2	ATOMIC ABS: USGS PROVISIONAL
5-75	15	23	1.2	ATOMIC ABS: USGS PROVISIONAL
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
5-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22	25	7.4	OTHER
5-75	24			NOT DETERMINED
5-75	25	25	7.4	OTHER
5-75	28			NOT DETERMINED
5-75	36			NOT DETERMINED

TOTAL RANGE	18	-	28						
MEAN		23.2857		AVERAGE DEVIATION	2.3265				SAMPLE 45
STANDARD DEVIATION		3.1997		95 PCT.CONF.INTVL OF MEAN	23.2857 +OR-	2.9593			SE

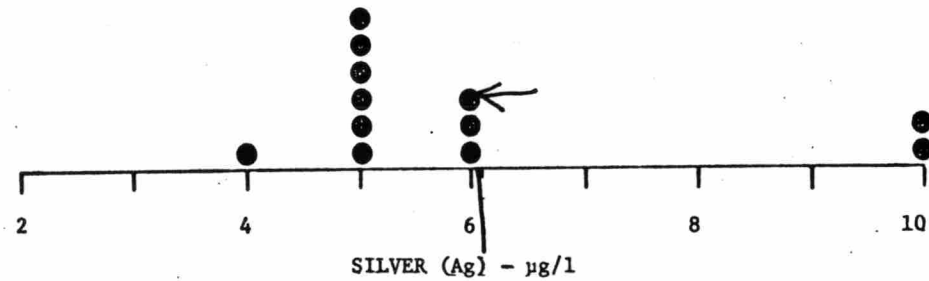
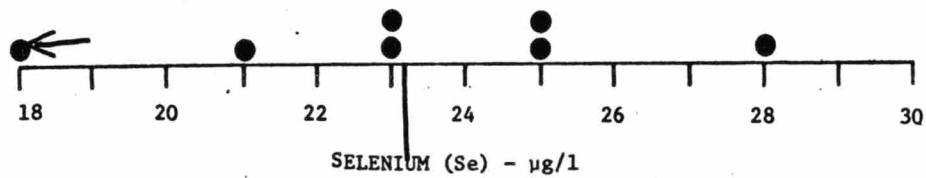
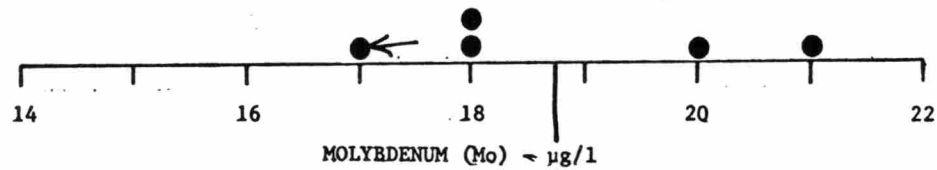
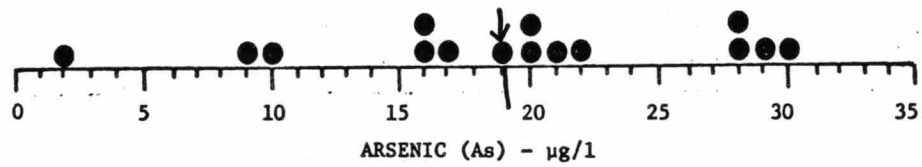
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
4-75	1	5	17.8	OTHER
5-75	2	120	*****	REJECT
5-75	4	6	1.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	5	6	1.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	8	5	17.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	9	5	17.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	11	10	64.4	OTHER
5-75	12	10	64.4	OTHER
5-75	14	5	17.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	15			NOT DETERMINED
5-75	16	5	17.8	OTHER
5-75	17	6	1.4	OTHER
5-75	20			NOT DETERMINED
5-75	21	4	34.2	OTHER
5-75	22	6	1.4	OTHER
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	36			NOT DETERMINED

TOTAL RANGE 4
MEAN
STANDARD DEVIATION

120
6.0833
1.9286
AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

1.3055
6.0833 +OR- 1.2254

SAMPLE 45
AG



SAMPLE NO. 45

DETERMINATION

NO. LABS
REPORTING

PCT. OF VALUES
REJECTED

PCT. OF UNREJECTED VALUES WITHIN
95 PCT. CI X +OR- STD X +OR- 2STD

AS	15	0	53	53	93
MO	5	0	80	60	100
SE	7	0	71	71	100
AG	13	8	75	75	83

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	560	0.2	OTHER
5-75	2	820	46.1	FERROV-ORTHOPHEVANTHROLINE: USGS TWRI BK5 CH A1
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	740	31.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	620	10.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
4-75	9	480	14.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11	3000	434.6	REJECT OTHER
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
2-75	14	560	0.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15	900	60.4	OTHER
5-75	16	560	0.2	OTHER
5-75	17	500	10.9	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	310	44.8	OTHER
5-75	21	600	6.9	OTHER
5-75	22	580	3.4	OTHER
5-75	23	650	15.8	FERROV-ORTHOPHEVANTHROLINE: USGS TWRI BK5 CH A1
5-75	24	50	91.1	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30	850	51.5	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH. 13ED
5-75	31	130	76.8	ERIOCHROME CYANINE R: APHA STD METH. 13ED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	4400	684.1	REJECT ERIOCHROME CYANINE R: APHA STD METH. 13ED
5-75	36	630	12.3	OTHER

TOTAL RANGE	50	- 4400				SAMPLE 48
MEAN		561.1738	AVERAGE DEVIATION	157.5780		
STANDARD DEVIATION		228.5519	95 PCT.CONF.INTVL OF MEAN	561.1738 +OR-	117.5157	AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	80	0.5	OTHER
5-75	2	70	12.1	PHENANTHROLINE: APHA STD METH, 13ED
4-75	3	120	50.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	70	12.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	5	50	24.6	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	6			NOT DETERMINED
5-75	7	90	13.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	8	40	49.8	BIPYRIDINE: USGS TWRI BKS CH A1
4-75	9	70	12.1	OTHER
5-75	10			NOT DETERMINED
5-75	11	100	25.6	OTHER
5-75	12	70	12.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	70	12.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
2-75	14	50	37.2	OTHER
5-75	15	100	25.6	OTHER
5-75	16	70	12.1	OTHER
5-75	17	100	25.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	18	50	37.2	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	19	90	13.0	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	50	0.5	OTHER
5-75	21			NOT DETERMINED
5-75	22	50	37.2	OTHER
5-75	23	60	24.6	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	24	70	12.1	OTHER
5-75	25	120	50.7	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	27	130	63.3	PHENANTHROLINE: APHA STD METH, 13ED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31	220	176.3	REJECT ORTHOPHENANTHROLINE: ASTM METHOD 4, D1068-74
5-75	32	110	38.2	PHENANTHROLINE: APHA STD METH, 13ED
5-75	34	70	12.1	OTHER
5-75	35	80	0.5	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE 40
MEAN
STANDARD DEVIATION

- 220
79.6152
23.5764

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

18.8165
79.6152 +OR- 9.5248

SAMPLE 43
FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	280	8.5	OTHER
5-75	2	260	0.8	PERSULFATE: APHA STD METH, 13ED
4-75	3	290	12.4	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	250	3.1	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	5	240	7.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	6	250	3.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	260	0.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	8	300	16.3	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
4-75	9	260	0.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	10	230	10.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	11	260	0.8	OTHER
5-75	12	270	4.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	260	0.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
2-75	14	260	0.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	15	250	3.1	OTHER
5-75	16	260	0.8	ATOMIC ABS-DIRECT: ASTM METHOD I, D2576-70
5-75	17	240	7.0	OTHER
4-75	18	240	7.0	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	19	240	7.0	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	250	3.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	21			NOT DETERMINED
5-75	22	260	0.8	OTHER
5-75	23	270	4.7	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	24	250	3.1	OTHER
5-75	25	280	8.5	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	27	200	22.5	REJECT ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	28	250	3.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	30	250	0.8	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	31	240	7.0	PERIODATE: APHA STD METH, 13ED
5-75	32	340	31.8	REJECT ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	34	260	0.8	OTHER
5-75	35	260	0.8	ATOMIC ABS-DIRECT: USGS TWRI BKS CH A1
5-75	36	260	0.8	OTHER

TOTAL RANGE 200
MEAN
STANDARD DEVIATION

- 340
257.9980
15.4025

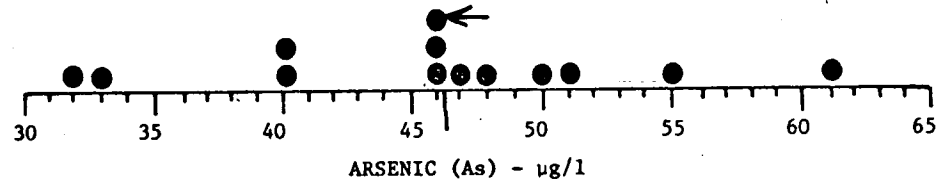
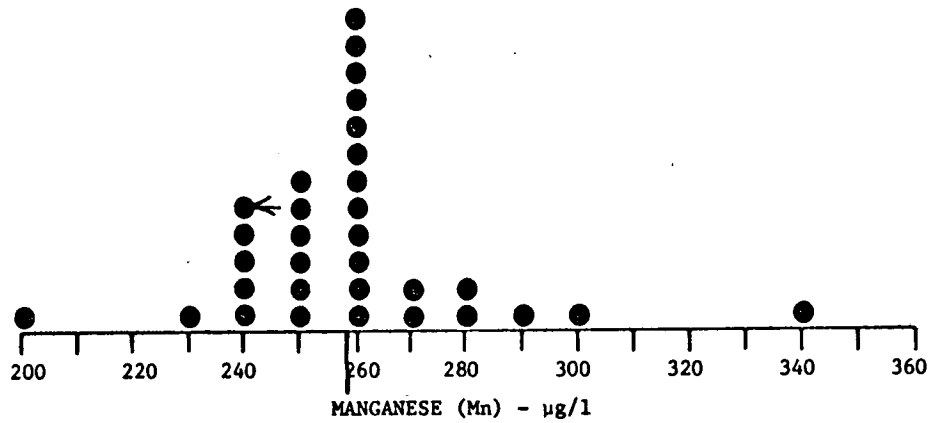
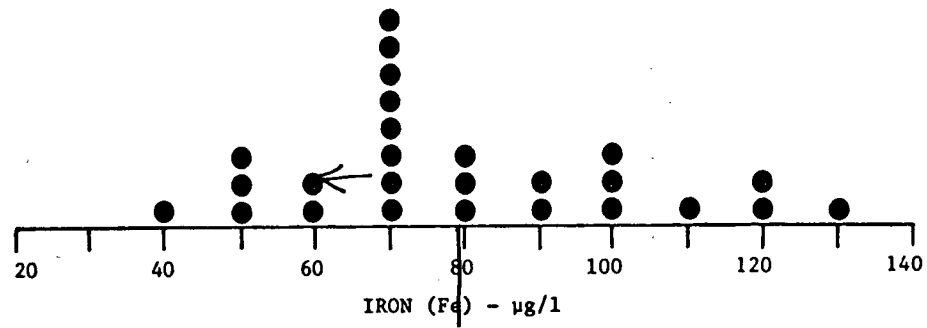
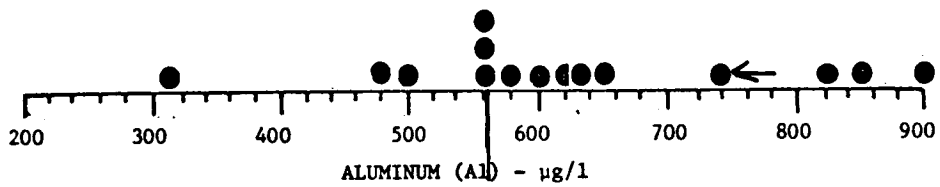
AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

11.0669
257.9980 +OR- 5.7507

SAMPLE 48
44

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	32	31.1	SILVER DIETHYLDITHIOCARBAMATE: USGS TWRI BKS CH A1
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	46	1.0	ATOMIC ABS: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	75	61.4	SILVER DIETHYLDITHIOCARBAMATE-REVISION: USGS PROVISIONAL
4-75	9	27	41.9	ATOMIC ABS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11	46	1.0	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	12	50	7.6	OTHER
6-75	13			NOT DETERMINED
2-75	14	40	13.9	ATOMIC ABS: USGS PROVISIONAL
5-75	15	47	1.1	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	61	31.3	SILVER DIETHYLDITHIOCARBAMATE: USGS TWRI BKS CH A1
5-75	21	40	13.9	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	22	48	3.3	OTHER
5-75	23			NOT DETERMINED
5-75	24	55	18.4	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	25	33	29.0	OTHER
5-75	27			NOT DETERMINED
5-75	28	91	95.8	REJECT SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	51	9.8	ATOMIC ABS: USGS PROVISIONAL
5-75	36	46	1.0	OTHER

TOTAL RANGE	27	-	91				SAMPLE 43
MEAN		46.4665		AVERAGE DEVIATION	8.2311		
STANDARD DEVIATION		11.9156		95 PCT.CONF.INTVL OF MEAN	46.4665 +OR-	6.5993	AS



SAMPLE NO. 48

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	600	9.8	OTHER
5-75	2	400	26.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
4-75	3			NOT DETERMINED
5-75	4	400	26.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	5	500	8.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	500	8.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
4-75	9	500	8.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12	500	8.5	OTHER
6-75	13	800	46.3	OTHER
2-75	14	700	28.0	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	15	500	8.5	OTHER
5-75	16	500	8.5	OTHER
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	600	9.8	OTHER
5-75	21			NOT DETERMINED
5-75	22	700	28.0	OTHER
5-75	23			NOT DETERMINED
5-75	24	400	26.8	OTHER
5-75	25	600	9.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35			NOT DETERMINED
5-75	36			NOT DETERMINED

TOTAL RANGE	400	-	800					
MEAN		546.6646		AVERAGE DEVIATION		95.9996		SAMPLE 48
STANDARD DEVIATION		118.7233		95 PCT.CONF.INTVL OF MEAN		546.6646 +OR-	65.7533	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	27	59.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	3	20	18.2	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	4	14	17.3	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	5	16	5.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	6			NOT DETERMINED
5-75	7	16	5.5	OTHER
5-75	8	12	29.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	9	17	0.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	10	30	77.3	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	11	22	30.0	OTHER
5-75	12	14	17.3	OTHER
6-75	13	13	23.2	OTHER
2-75	14	10	40.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	15	15	11.4	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	16	20	18.2	OTHER
5-75	17	14	17.3	OTHER
4-75	18			NOT DETERMINED
5-75	19	14	17.3	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
4-75	20	15	11.4	OTHER
5-75	21	25	47.7	OTHER
5-75	22	12	29.1	OTHER
5-75	23	16	5.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	24	16	5.5	OTHER
5-75	25	14	17.3	OTHER
5-75	27			NOT DETERMINED
5-75	28	10	40.9	OTHER
5-75	30			NOT DETERMINED
5-75	31	20	18.2	OTHER
5-75	32			NOT DETERMINED
5-75	34	23	35.9	OTHER
5-75	35	15	11.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE 10
MEAN
STANDARD DEVIATION

16.9230
5.0827

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

3.9763
16.9230 +OR- 2.0534

SAMPLE 48
CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	38	19.5	OTHER
5-75	2			NOT DETERMINED
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	30	5.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	6	39	22.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	30	5.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	8	30	5.7	PERMANGANATE-AZIDE: USGS TWRI B&S CH A1
4-75	9	35	10.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	10			NOT DETERMINED
5-75	11	35	10.1	OTHER
5-75	12	34	6.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	27	15.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
2-75	14	30	5.7	OTHER
5-75	15	15	52.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	16	30	5.7	OTHER
5-75	17	45	41.5	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	33	3.8	OTHER
5-75	21	40	25.8	OTHER
5-75	22	20	37.1	OTHER
5-75	23			NOT DETERMINED
5-75	24	27	15.1	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34	40	25.8	OTHER
5-75	35	32	0.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	36	26	18.2	OTHER

TOTAL RANGE	15	-	45				SAMPLE 48
MEAN		31.7998		AVERAGE DEVIATION	5.3000		
STANDARD DEVIATION		7.0457		95 PCT.CONF.INTVL OF MEAN	31.7998 +OR-	3.2975	CR TOT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	17	22.2	OTHER
5-75	2	17	22.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
4-75	3			NOT DETERMINED
5-75	4	14	0.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	5	14	0.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	16	15.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
4-75	9	12	13.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
2-75	14	11	21.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	15	15	7.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	16			NOT DETERMINED
5-75	17	12	13.8	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	13	6.6	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	13	6.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B<S CH A1
5-75	36	13	6.6	OTHER

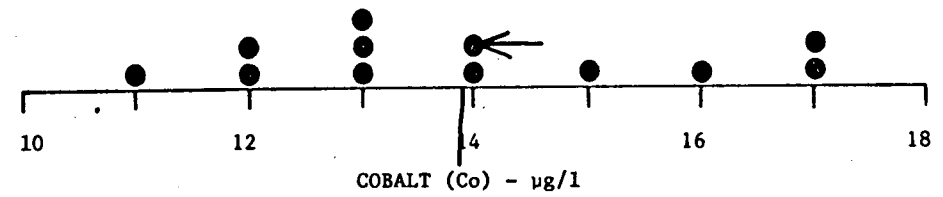
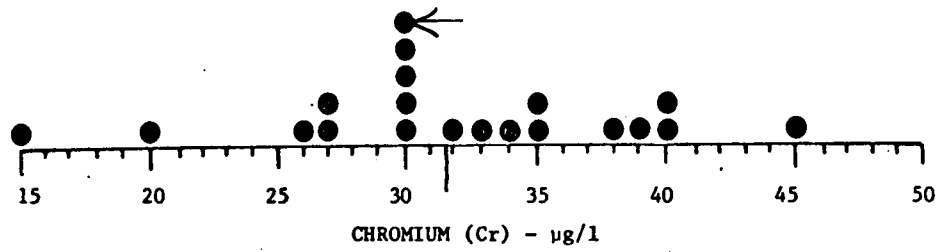
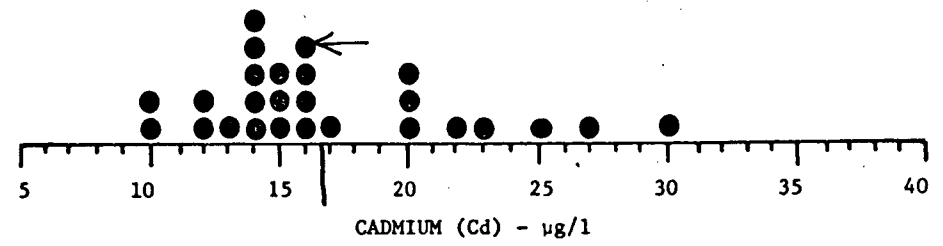
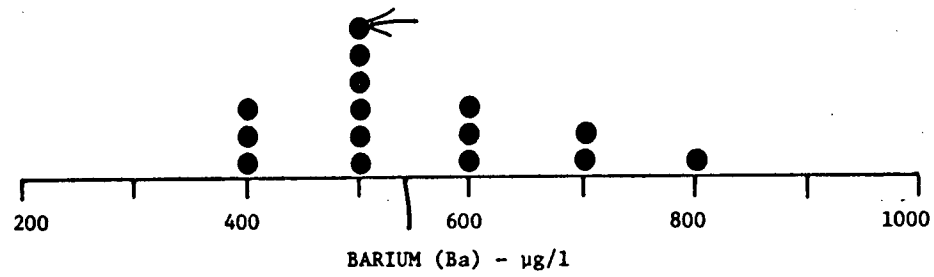
TOTAL RANGE 11
MEAN
STANDARD DEVIATION

13.9167
1.9752

17
AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

1.5833
13.9167 +OR- 1.2550

SAMPLE 43
CO



SAMPLE NO. 48

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	230	0.3	OTHER
5-75	2	220	4.6	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
4-75	3	240	4.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	230	0.3	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	5	230	0.3	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	6	300	30.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7			NOT DETERMINED
5-75	8	270	17.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	9	230	0.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	10	270	17.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	11	220	4.6	OTHER
5-75	12	250	8.4	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	220	4.6	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
2-75	14	220	4.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	15	240	4.1	OTHER
5-75	16	240	4.1	ATOMIC ABS-DIRECT: ASTM METHOD E, D2576-70
5-75	17	220	4.6	OTHER
4-75	18	210	9.0	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	19	200	13.3	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	220	4.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	21	240	4.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	22	220	4.6	OTHER
5-75	23	230	0.3	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	24	210	9.0	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	25	240	4.1	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	27	220	4.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	28	220	4.6	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	30	170	26.3	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	31	230	0.3	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	32			NOT DETERMINED
5-75	34	290	25.7	OTHER
5-75	35	220	4.6	ATOMIC ABS-DIRECT: JSGS TWRI BKS CH A1
5-75	36	200	13.3	OTHER

TOTAL RANGE 170
MEAN
STANDARD DEVIATION

- 300
230.6433
25.6920

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

17.6475
230.6433 +OR- 9.4190

SAMPLE 48
CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	50	5.3	OTHER
5-75	2	52	9.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	3	55	15.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	4	43	9.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	5	43	9.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	6			NOT DETERMINED
5-75	7	50	26.3	OTHER
5-75	8	13	72.6	REJECT
4-75	9	46	3.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	10			NOT DETERMINED
5-75	11	44	7.4	OTHER
5-75	12	50	5.3	OTHER
6-75	13			NOT DETERMINED
2-75	14	46	3.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	15	55	15.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	16	50	5.3	OTHER
5-75	17	39	17.9	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21	34	28.4	OTHER
5-75	22			NOT DETERMINED
5-75	23	50	5.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	24	93	95.8	REJECT
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28	58	22.1	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	30	55	15.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	31	51	7.4	OTHER
5-75	32			NOT DETERMINED
5-75	34	30	36.8	OTHER
5-75	35	39	17.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	36			NOT DETERMINED

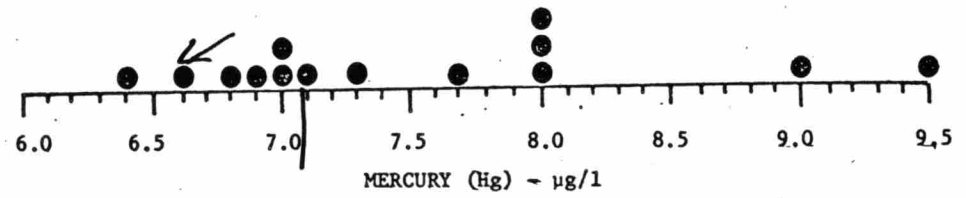
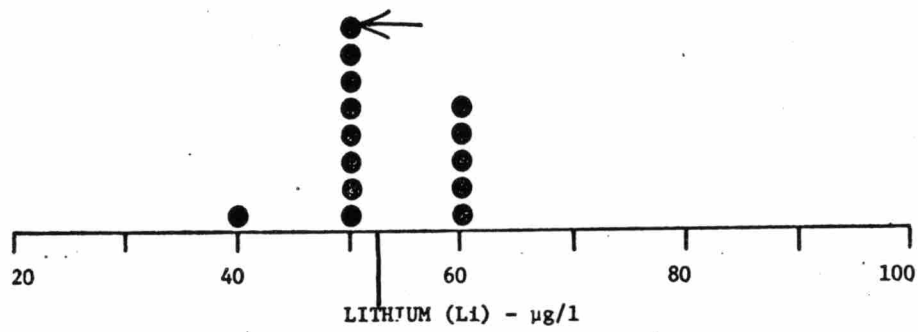
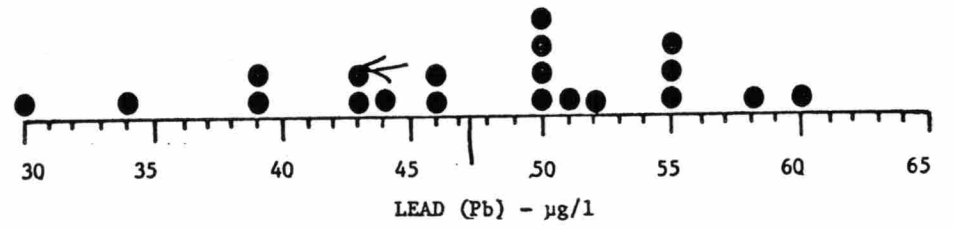
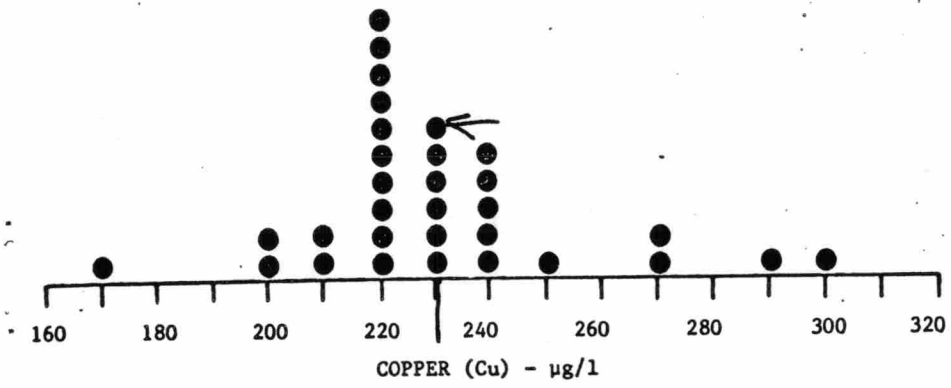
TOTAL RANGE	13	-	93			SAMPLE 48
MEAN		47.4998		AVERAGE DEVIATION	6.3500	
STANDARD DEVIATION		7.8907		95 PCT.CONF.INTVL OF MEAN	47.4998 +OR- 3.6929	P8

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	60	13.5	OTHER
5-75	2	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
4-75	3			NOT DETERMINED
5-75	4	60	13.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	5	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	60	13.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
4-75	9	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	10	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
2-75	14	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	15	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	16	50	5.4	OTHER
5-75	17	60	13.5	OTHER
4-75	18			NOT DETERMINED
5-75	19	50	5.4	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	40	24.3	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31	50	13.5	ATOMIC ABS-DIRECT, USGS TWRI BK5 CH A1
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35			NOT DETERMINED
5-75	36			NOT DETERMINED

TOTAL RANGE	40	-	60				SAMPLE 48
MEAN		52.8570		AVERAGE DEVIATION	5.1020		
STANDARD DEVIATION		6.1125		95 PCT.CONF.INTVL OF MEAN	52.8570 +OR-	3.5286	LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	82	*****	REJECT OTHER
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	6.6	7.0	OTHER
5-75	6	7.1	0.1	OTHER
5-75	7			NOT DETERMINED
5-75	8	8.0	12.8	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
4-75	9	7.3	2.9	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11	7.0	1.3	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	12	8.0	12.8	OTHER
6-75	13	4.2	40.8	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
2-75	14	6.4	9.8	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
5-75	15	6.8	4.1	OTHER
5-75	16	6.9	2.7	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	7.7	8.5	OTHER
5-75	21	8.0	12.8	OTHER
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	4.0	43.5	OTHER
5-75	25	7.0	1.3	OTHER
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30	9.5	33.9	OTHER
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	9.0	26.9	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	36			NOT DETERMINED

TOTAL RANGE	4.0	-	82				SAMPLE 48
MEAN		7.0937		AVERAGE DEVIATION	0.9812		
STANDARD DEVIATION		1.4401		95 PCT.CONF.INTVL OF MEAN	7.0937 +OR-	0.7672	46



SAMPLE NO. 48

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	19	30.1	OTHER
5-75	2			NOT DETERMINED
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	15	2.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8			NOT DETERMINED
4-75	9	10	31.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
2-75	14	14	4.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35			NOT DETERMINED
5-75	36	15	2.7	OTHER

TOTAL RANGE	10	-	19			SAMPLE 48
MEAN		14.6000	AVERAGE DEVIATION	2.0800		
STANDARD DEVIATION		3.2094	95 PCT.CONF.INTVL. OF MEAN	14.6000 +OR-	3.9843	40

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	14	2.6	OTHER
5-75	2	9	37.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
4-75	3	14	2.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	4	11	23.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	5	14	2.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	6			NOT DETERMINED
5-75	7	18	25.2	OTHER
5-75	8	13	9.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
4-75	9	10	30.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13	20	39.1	OTHER
2-75	14	4	72.2	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	15			NOT DETERMINED
5-75	16	9	37.4	OTHER
5-75	17	22	53.0	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	12	16.5	OTHER
5-75	21	20	39.1	OTHER
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	30	108.7	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	10	30.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE 4
MEAN
STANDARD DEVIATION

30
14.3750
6.3338

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

4.7656
14.3750 +OR- 3.3743

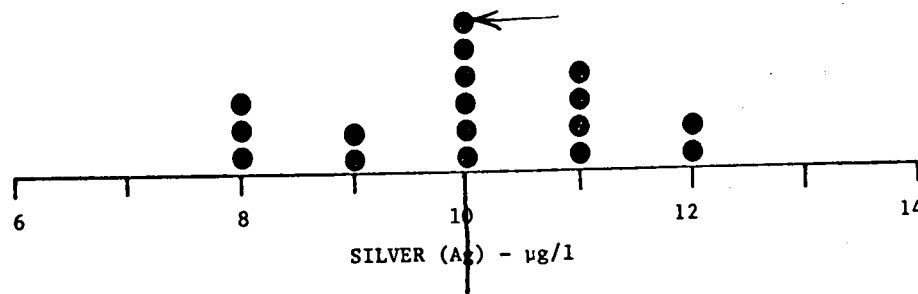
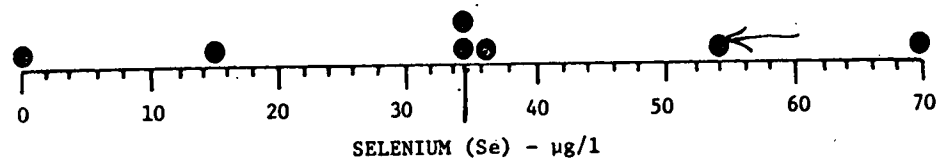
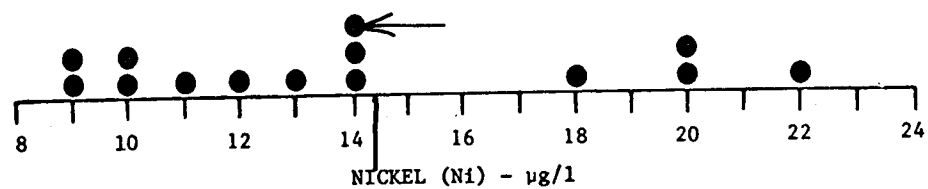
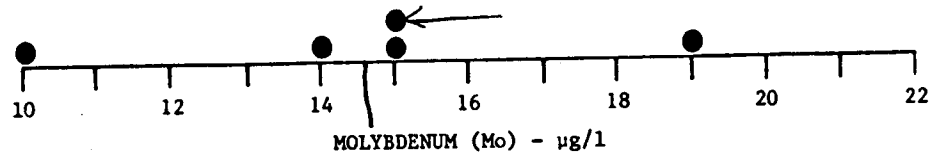
SAMPLE 48
VI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	36	2.9	OTHER
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	54	54.3	ATOMIC ABS: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8			NOT DETERMINED
4-75	9	70	100.0	ATOMIC ABS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
2-75	14	35	0.0	ATOMIC ABS: USGS PROVISIONAL
5-75	15	35	0.0	ATOMIC ABS: USGS PROVISIONAL
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22	0.	100.0	OTHER
5-75	23			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	15	57.1	ATOMIC ABS: USGS PROVISIONAL
5-75	36			NOT DETERMINED

TOTAL RANGE	0	-	70					SAMPLE 48
MEAN		35.0000		AVERAGE DEVIATION	15.7143			
STANDARD DEVIATION		23.1373		95 PCT.CONF.INTVL OF MEAN	35.0000	+OR-	21.3992	SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	9	10.0	OTHER
5-75	2	180	*****	REJECT ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
4-75	3			NOT DETERMINED
5-75	4	11	10.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	5	10	0.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	6			NOT DETERMINED
5-75	7	10	0.0	OTHER
5-75	8	9	10.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
4-75	9	12	20.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	10			NOT DETERMINED
5-75	11	10	0.0	OTHER
5-75	12	10	0.0	OTHER
6-75	13			NOT DETERMINED
2-75	14	8	20.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	15	10	0.0	OTHER
5-75	16	11	10.0	OTHER
5-75	17	11	10.0	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	12	20.0	OTHER
5-75	21	8	20.0	OTHER
5-75	22	11	10.0	OTHER
5-75	23			NOT DETERMINED
5-75	24	8	20.0	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	10	0.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S CH A1
5-75	36			NOT DETERMINED

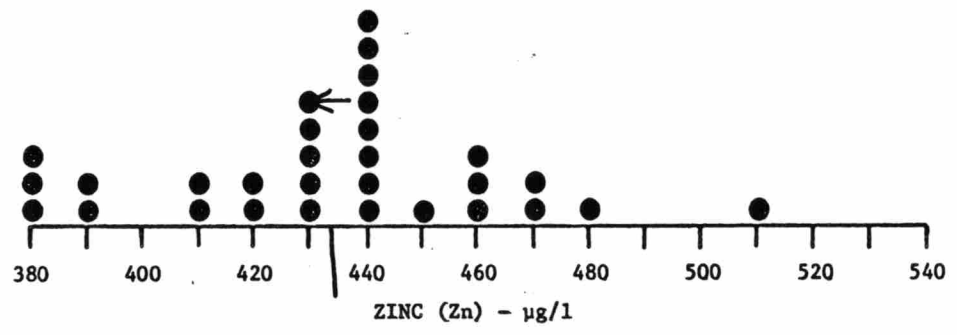
TOTAL RANGE	8	-	180			SAMPLE 48
MEAN		10.0000	AVERAGE DEVIATION	0.9412		
STANDARD DEVIATION		1.2748	95 PCT.CONF.INTVL OF MEAN	10.0000 +OR-	0.6554	AS



SAMPLE NO. 48

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
5-75	1	390	10.1		OTHER
5-75	2	460	6.1		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
4-75	3	440	1.5		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	460	6.1		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	5	430	0.8		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	6	510	17.6		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	440	1.5		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	8	590	36.1	REJECT	ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
4-75	9	460	6.1		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	10	420	3.2		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	11	440	1.5		OTHER
5-75	12	470	8.4		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	440	1.5		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
2-75	14	420	3.2		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	15	440	1.5		OTHER
5-75	16	430	0.8		ATOMIC ABS-DIRECT: ASTM METHOD K, D2576-70
5-75	17	440	1.5		ATOMIC ABS-DIRECT: ASTM METHOD K, D2576-70
4-75	18	430	0.8		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	19	470	8.4		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	430	0.8		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	21	380	12.4		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	22	450	3.8		OTHER
5-75	23	440	1.5		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	24	390	10.1		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	25	410	5.5		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	27	290	33.1	REJECT	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	28	410	5.5		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	30	480	10.7		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	31	440	1.5		OTHER
5-75	32			NOT DETERMINED	
5-75	34	380	12.4		OTHER
5-75	35	430	0.8		ATOMIC ABS-DIRECT: JS GS TWRI BK5 CH A1
5-75	36	380	12.4		OTHER

TOTAL RANGE	290	-	590			SAMPLE 48
MEAN	433.6638			AVERAGE DEVIATION	22.7557	
STANDARD DEVIATION	30.6800			95 PCT.CONF.INTVL OF MEAN	433.6638 +OR- 11.4548	ZN



SAMPLE NO. 48

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	19	11	59	65	94
FE	27	4	12	69	96
MN	32	6	40	67	93
AS	16	6	60	67	93
BA	15	0	60	60	93
CD	26	0	31	77	95
CR TOT	20	0	50	70	95
CO	12	0	50	67	100
CU	31	0	35	77	90
PB	22	9	40	70	95
LI	14	0	57	57	93
HG	17	6	56	75	88
MO	5	0	60	60	100
NI	16	0	31	81	94
SE	7	0	71	71	100
AG	18	6	35	71	100
ZN	32	6	43	70	97

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	90	25.3	OTHER
5-75	2	410	470.9	REJECT FERRON-ORTHOPHENANTHROLINE: USGS TWRI BK5 CH A1
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	120	67.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	90	25.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
4-75	9	50	30.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
5-75	14	70	2.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	16	80	11.4	OTHER
5-75	17	700	874.7	REJECT OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	60	16.5	OTHER
5-75	21			NOT DETERMINED
5-75	22	80	11.4	OTHER
5-75	23	230	220.3	REJECT FERRON-ORTHOPHENANTHROLINE: USGS TWRI BK5 CH A1
5-75	24	10	66.1	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31	20	72.2	ERIOCHROME CYANINE R: ALPHA STD METH. 13ED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	880	*****	REJECT ERIOCHROME CYANINE R: ALPHA STD METH. 13ED
5-75	36	120	67.1	OTHER

TOTAL RANGE 10
MEAN
STANDARD DEVIATION

- 880
71.8180
35.4452

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

27.1074
71.8180 +OR- 23.8109

SAMPLE 49
AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHOD
5-75	1	80	8.1		OTHER
5-75	2	80	8.1		PHENANTHROLINE: APHA STD METH, 13ED
4-75	3	160	83.7	REJECT	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	110	26.3		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	5	90	3.3		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	6				NOT DETERMINED
5-75	7	100	14.8		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	8	80	8.1		RIPYRIDINE: USGS TWRI BK5 CH A1
4-75	9	70	19.6		OTHER
5-75	10				NOT DETERMINED
5-75	11	100	14.8		OTHER
5-75	12	90	3.3		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	180	106.7	REJECT	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	14	60	31.1		OTHER
5-75	15	60	31.1		OTHER
5-75	16	80	8.1		OTHER
5-75	17	110	26.3		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	18	50	42.5		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	19	100	14.8		ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	100	14.8		OTHER
5-75	21				NOT DETERMINED
5-75	22	80	8.1		OTHER
5-75	23	80	8.1		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	24	80	8.1		OTHER
5-75	25	110	26.3		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	27	100	14.8		PHENANTHROLINE: APHA STD METH, 13ED
5-75	28				NOT DETERMINED
5-75	30				NOT DETERMINED
5-75	31	270	210.0	REJECT	ORTHOPHENANTHROLINE: ASTM METHOD A, D1068-74
5-75	32	100	14.8		PHENANTHROLINE: APHA STD METH, 13ED
5-75	34	90	3.3		OTHER
5-75	35	90	3.3		ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	36				NOT DETERMINED

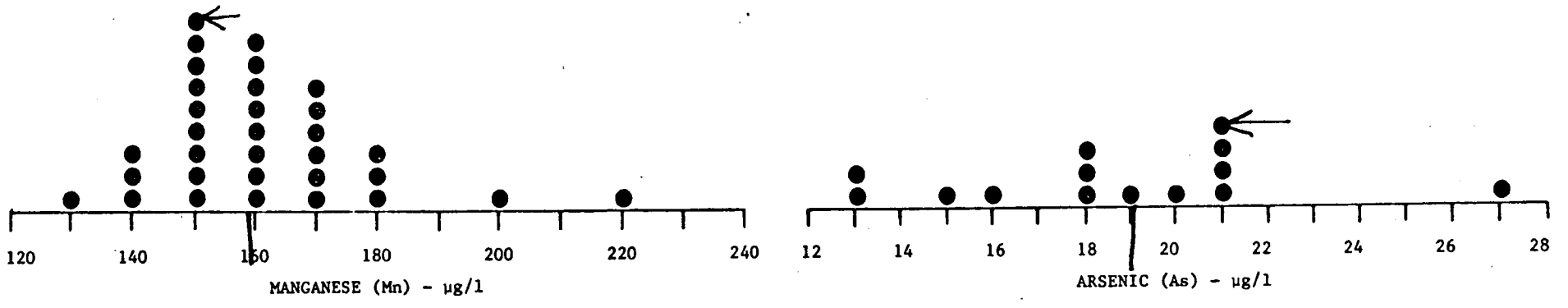
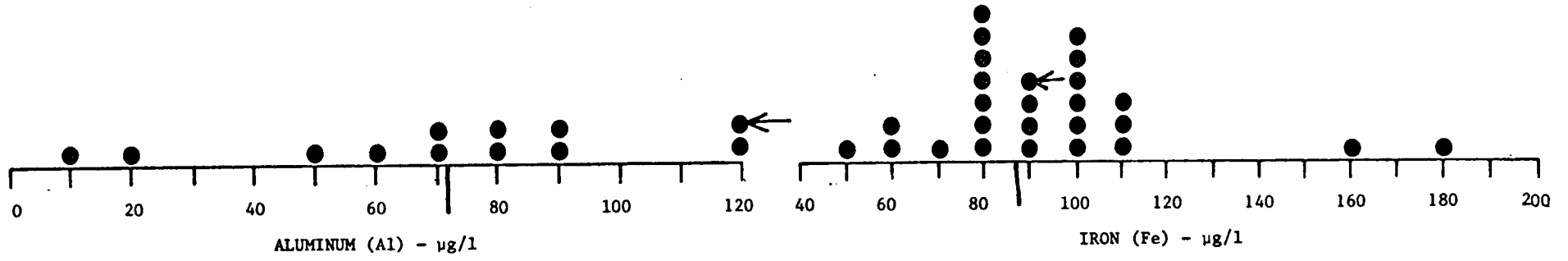
TOTAL RANGE	50	-	270			SAMPLE 49
MEAN		87.0831	AVERAGE DEVIATION	13.1597		
STANDARD DEVIATION		16.2799	95 PCT.CONF.INTVL OF MEAN	87.0831 +OR-	6.8755	FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	170	6.7	OTHER
5-75	2	130	18.4	PERSULFATE: APHA STD METH, 13ED
4-75	3	180	13.0	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	160	0.4	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	5	150	5.9	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	6	150	5.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	170	6.7	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	8	200	25.5	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
4-75	9	150	5.9	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	10	140	12.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	11	160	0.4	OTHER
5-75	12	170	6.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	170	6.7	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	14	150	5.9	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	15	150	5.9	OTHER
5-75	16	170	6.7	ATOMIC ABS-DIRECT: ASTM METHOD I, D2576-70
5-75	17	170	6.7	OTHER
4-75	18	150	5.9	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	19	140	12.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	150	5.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	21			NOT DETERMINED
5-75	22	160	0.4	OTHER
5-75	23	160	0.4	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	24	150	5.9	OTHER
5-75	25	180	13.0	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	27	140	12.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	28	160	0.4	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	30	160	0.4	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	31	150	0.4	PERIODATE: APHA STD METH, 13ED
5-75	32	220	38.1	REJECT ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	34	150	5.9	OTHER
5-75	35	160	0.4	ATOMIC ABS-DIRECT: USGS TWRI BK5' CH A1
5-75	36	180	13.0	OTHER

TOTAL RANGE	130	-	220			SAMPLE 49
MEAN		159.3539	AVERAGE DEVIATION	11.0719		
STANDARD DEVIATION		14.5912	95 PCT.CONF.INTVL OF MEAN	159.3539 +OR-	5.3514	MM

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	13	32.8	SILVER DIETHYLDITHIOCARBAMATE: USGS TWRI BKS CH A1
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	21	8.6	ATOMIC ABS: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	27	39.7	SILVER DIETHYLDITHIOCARBAMATE-REVISION: USGS PROVISIONAL
4-75	9	13	32.8	ATOMIC ABS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12	21	8.6	OTHER
6-75	13			NOT DETERMINED
5-75	14	16	17.2	ATOMIC ABS: USGS PROVISIONAL
5-75	15	18	6.9	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	19	1.7	SILVER DIETHYLDITHIOCARBAMATE: USGS TWRI BKS CH A1
5-75	21	20	3.4	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	22	21	8.6	OTHER
5-75	23			NOT DETERMINED
5-75	24	21	8.6	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	25	15	22.4	OTHER
5-75	27			NOT DETERMINED
5-75	28	29	50.0	SILVER DIETHYLDITHIOCARBAMATE: APHA STD METH, 13ED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	18	6.9	ATOMIC ABS: USGS PROVISIONAL
5-75	36	18	6.9	OTHER

TOTAL RANGE	13	-	29			SAMPLE 49
MEAN		19.3333	AVERAGE DEVIATION	3.2889		
STANDARD DEVIATION		4.4668	95 PCT.CONF.INTVL OF MEAN	19.3333 +OR-	2.4739	AS



SAMPLE NO. 49

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	7	49.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	3	6	27.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	4	4	14.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	5	5	6.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	6			NOT DETERMINED
5-75	7	4	14.8	OTHER
5-75	8	3	36.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	9	4	14.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	10			NOT DETERMINED
5-75	11	4	14.8	OTHER
5-75	12	7	49.1	OTHER
6-75	13	4	14.8	OTHER
5-75	14	4	14.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	15	5	6.5	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	16	5	6.5	OTHER
5-75	17	7	49.1	OTHER
4-75	18			NOT DETERMINED
5-75	19	4	14.8	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
4-75	20	5	6.5	OTHER
5-75	21	6	27.8	OTHER
5-75	22	1	78.7	OTHER
5-75	23	5	6.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	24	5	6.5	OTHER
5-75	25	3	36.1	OTHER
5-75	27			NOT DETERMINED
5-75	28	6	27.8	OTHER
5-75	30			NOT DETERMINED
5-75	31	15	219.4	REJECT OTHER
5-75	32			NOT DETERMINED
5-75	34	10	113.0	REJECT OTHER
5-75	35	4	14.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE	1	-	15				SAMPLE 49
MEAN		4.6956		AVERAGE DEVIATION	1.1002		
STANDARD DEVIATION		1.4281		95 PCT.CONF.INTVL OF MEAN	4.6956 +OR-	0.6176	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	15	9.1	OTHER
5-75	2			NOT DETERMINED
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	10	39.4	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	6	11	33.3	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	20	21.2	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	8	12	27.3	PERMANGANATE-AZIDE: USGS TWRI BKS CH A1
4-75	9	16	3.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	10			NOT DETERMINED
5-75	11	10	39.4	OTHER
5-75	12	20	21.2	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	16	3.0	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	14	10	39.4	OTHER
5-75	15			NOT DETERMINED
5-75	16	20	21.2	OTHER
5-75	17	32	93.9	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	17	3.0	OTHER
5-75	21	15	9.1	OTHER
5-75	22	10	39.4	OTHER
5-75	23			NOT DETERMINED
5-75	24	16	3.0	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31	28	69.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	32			NOT DETERMINED
5-75	34	22	33.3	OTHER
5-75	35	15	9.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	36	15	9.1	OTHER

TOTAL RANGE 10
MEAN
STANDARD DEVIATION

- 32
16.4999
5.9338

AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

4.3500
16.4999 +OR- 2.7771 CR TOT

SAMPLE 49

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	5	3.5	OTHER
5-75	2	10	93.0	REJECT ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	3			NOT DETERMINED
5-75	4	6	15.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	5	5	3.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	5	3.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	9	4	22.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
5-75	14	5	3.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	15	6	15.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	16			NOT DETERMINED
5-75	17	6	15.8	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	5	3.5	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	5	3.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	36	5	3.5	OTHER

TOTAL RANGE 4
MEAN
STANDARD DEVIATION

- 10
5.1818
0.6030

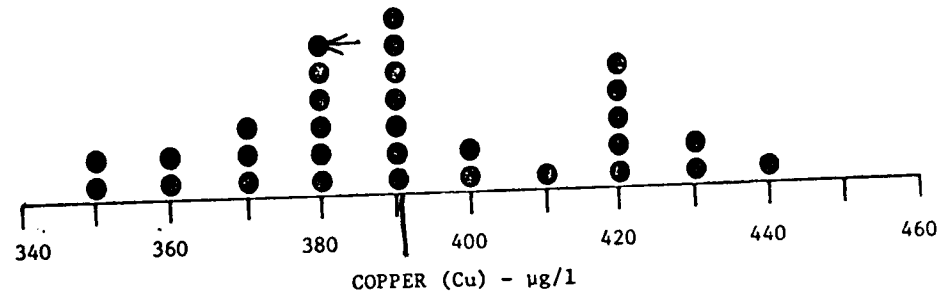
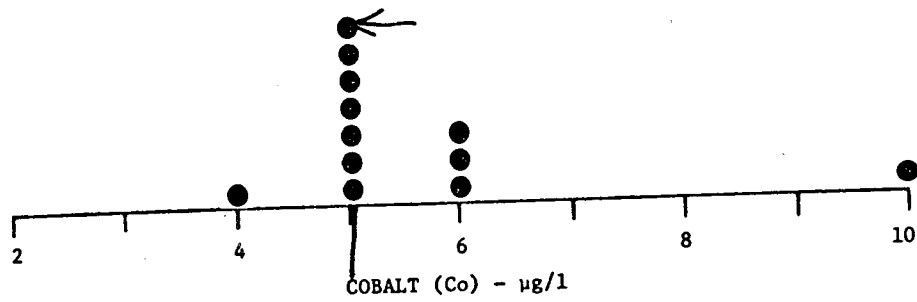
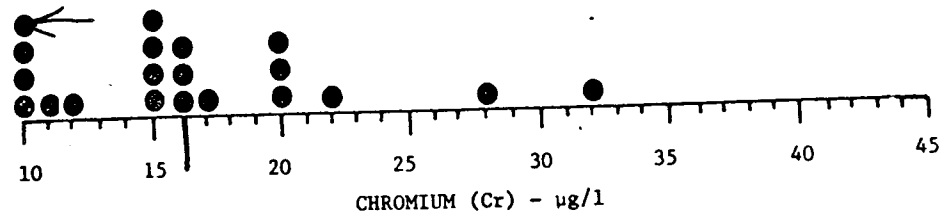
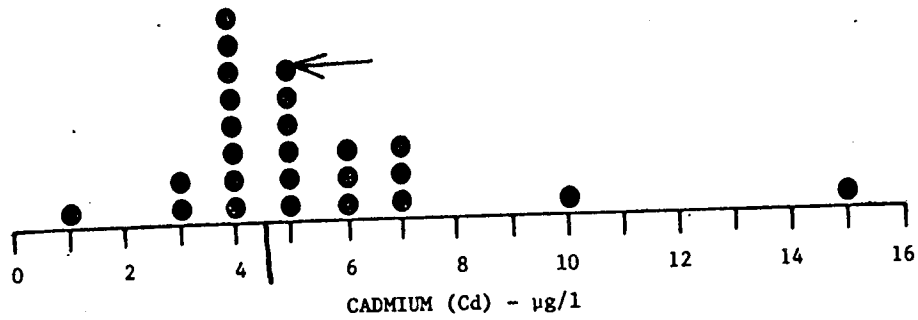
AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

0.4463
5.1918 *OR- 0.4051

SAMPLE 49
CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	360	7.9	OTHER
5-75	2	390	0.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
4-75	3	400	2.3	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	4	420	7.4	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	5	380	2.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	6	420	7.4	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	7	380	2.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	8	430	10.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	9	410	4.9	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	10	430	10.0	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	11	380	2.8	OTHER
5-75	12	42	89.3	REJECT ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	13	400	2.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	14	370	5.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	15	390	0.3	OTHER
5-75	16	420	7.4	ATOMIC ABS-DIRECT: ASTM METHOD E4 D2575-70
5-75	17	380	2.8	OTHER
4-75	18	350	10.5	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	19	360	7.9	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
4-75	20	390	0.3	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	21	390	0.3	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	22	370	5.4	OTHER
5-75	23	380	2.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	24	370	5.4	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	25	390	0.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	27	420	7.4	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	28	390	0.3	ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	30	120	69.3	REJECT ATOMIC ABS-DIRECT: APHA STD METH. 13ED
5-75	31	390	0.3	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	32			NOT DETERMINED
5-75	34	440	12.5	OTHER
5-75	35	380	2.8	ATOMIC ABS-DIRECT: USGS TWRI BK5 CH A1
5-75	36	350	10.5	OTHER

TOTAL RANGE	42	-	440			SAMPLE 49
MEAN		390.9973	AVERAGE DEVIATION	18.6658		
STANDARD DEVIATION		23.9755	95 PCT.CONF.INTVL OF MEAN	390.9973 +OR-	8.9516	CJ



SAMPLE NO. 49

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	30	31.3	OTHER
5-75	2	24	5.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	3	16	30.0	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	4	22	3.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	5	23	0.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	6	73.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
4-75	9	22	3.7	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	10			NOT DETERMINED
5-75	11	23	0.7	OTHER
5-75	12	25	9.4	OTHER
6-75	13			NOT DETERMINED
5-75	14	24	5.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	15	37	61.9	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	16	30	31.3	OTHER
5-75	17	16	30.0	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21	16	30.0	OTHER
5-75	22			NOT DETERMINED
5-75	23	25	9.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	24	48	110.1	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28	3	86.9	ATOMIC ABS-CHELATION/EXTRACTION: APHA STD METH, 13ED
5-75	30			NOT DETERMINED
5-75	31	37	61.9	OTHER
5-75	32			NOT DETERMINED
5-75	34	10	56.2	OTHER
5-75	35	20	12.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BK5 CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE	3	-	48				SAMPLE 49
MEAN		22.8499		AVERAGE DEVIATION	7.4650		
STANDARD DEVIATION		10.6142		95 PCT.CONF.INTVL OF MEAN	22.8499 +OR-	4.9675	PB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	110	0.0	OTHER
5-75	2	110	0.0	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
4-75	3			NOT DETERMINED
5-75	4	120	9.1	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	5	110	0.0	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8	130	18.2	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
4-75	9	110	0.0	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	10	100	9.1	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
5-75	14	110	0.0	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	15	110	0.0	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	16	110	0.0	OTHER
5-75	17	80	27.3	OTHER
4-75	18			NOT DETERMINED
5-75	19	100	9.1	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	110	0.0	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31	130	18.2	ATOMIC ABS-DIRECT, USGS TWRI BKS CH A1
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35			NOT DETERMINED
5-75	36			NOT DETERMINED

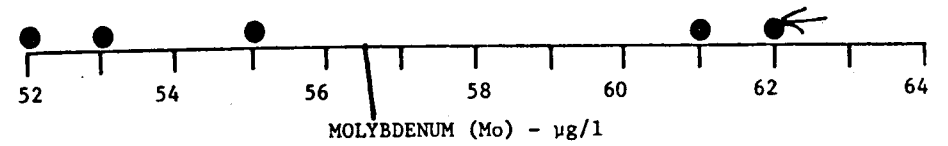
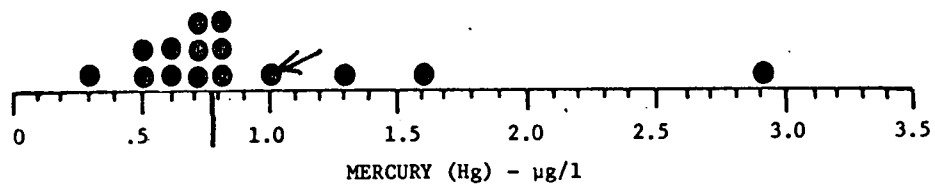
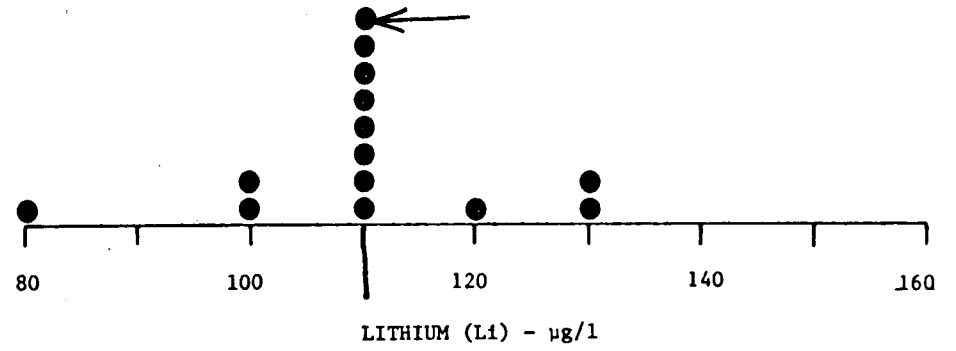
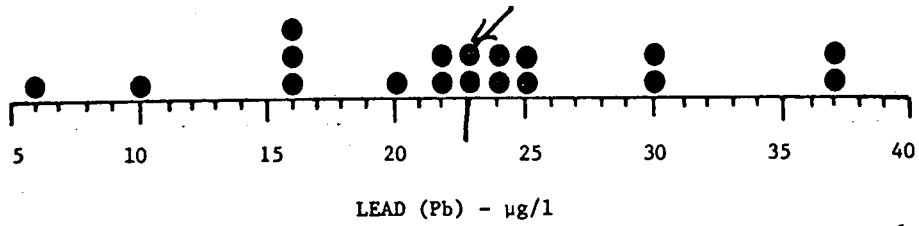
TOTAL RANGE	80	-	130				SAMPLE 49
MEAN		109.9998		AVERAGE DEVIATION	7.1430		
STANDARD DEVIATION		12.4035		95 PCT.CONF.INTVL OF MEAN	109.9998 +OR-	7.1603	LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1			NOT DETERMINED
5-75	2	7.8	901.8	REJECT OTHER
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	1.0	28.4	OTHER
5-75	6	1.3	67.0	OTHER
5-75	7			NOT DETERMINED
5-75	8	0.7	10.1	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
4-75	9	0.6	22.9	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11	0.5	35.8	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	12	0.8	2.8	OTHER
6-75	13	0.3	61.5	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	14	0.6	22.9	ATOMIC ABS-FLAMELESS: USGS PROVISIONAL
5-75	15	0.8	2.8	OTHER
5-75	16	0.7	10.1	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	0.8	2.8	OTHER
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	0.5	35.8	OTHER
5-75	25	0.7	10.1	OTHER
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30	2.9	272.5	REJECT OTHER
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	1.6	105.5	ATOMIC ABS-FLAMELESS: ASTM METHOD A, D3223-73
5-75	36			NOT DETERMINED

TOTAL RANGE	0.3	-	7.8			SAMPLE 49
MEAN		0.7786	AVERAGE DEVIATION	0.2327		
STANDARD DEVIATION		0.3355	95 PCT.CONF.INTVL OF MEAN	0.7786 *OR-	0.1937	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	61	7.8	OTHER
5-75	2			NOT DETERMINED
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	62	9.5	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8			NOT DETERMINED
4-75	9	53	6.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
5-75	14	55	2.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS PROVISIONAL
5-75	15			NOT DETERMINED
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35			NOT DETERMINED
5-75	36	52	8.1	OTHER

TOTAL RANGE	52	-	62	AVERAGE DEVIATION	3.9200	SAMPLE 49
MEAN		56.5999		95 PCT.CONF.INTVL OF MEAN	56.5999 +OR-	40
STANDARD DEVIATION		4.6152			5.7296	



SAMPLE NO. 49

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	6	35.6	OTHER
5-75	2	6	35.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	3	13	39.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	4	6	35.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	5	8	14.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	6			NOT DETERMINED
5-75	7	6	35.6	OTHER
5-75	8	9	3.4	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
4-75	9	3	67.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13	17	82.6	OTHER
5-75	14	3	67.8	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	15			NOT DETERMINED
5-75	16	7	24.8	OTHER
5-75	17	19	104.0	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	10	7.4	OTHER
5-75	21	10	7.4	OTHER
5-75	22			NOT DETERMINED
5-75	23			NOT DETERMINED
5-75	24	22	136.2	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	4	57.0	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI BKS CH A1
5-75	36			NOT DETERMINED

TOTAL RANGE 3
 MEAN
 STANDARD DEVIATION

- 22
 9.3125
 5.7005

AVERAGE DEVIATION
 95 PCT.CONF.INTVL OF MEAN

4.3906
 9.3125 +OR- 3.0369

SAMPLE 49
 NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	MET-100
5-75	1			NOT DETERMINED
5-75	2	15	2.8	OTHER
4-75	3			NOT DETERMINED
5-75	4			NOT DETERMINED
5-75	5	25	62.0	ATOMIC ABS: USGS PROVISIONAL
5-75	6			NOT DETERMINED
5-75	7			NOT DETERMINED
5-75	8			NOT DETERMINED
4-75	9	30	94.4	ATOMIC ABS: USGS PROVISIONAL
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12			NOT DETERMINED
6-75	13			NOT DETERMINED
5-75	14	15	2.8	ATOMIC ABS: USGS PROVISIONAL
5-75	15	15	2.8	ATOMIC ABS: USGS PROVISIONAL
5-75	16			NOT DETERMINED
5-75	17			NOT DETERMINED
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20			NOT DETERMINED
5-75	21			NOT DETERMINED
5-75	22	0	100.0	OTHER
5-75	23			NOT DETERMINED
5-75	24			NOT DETERMINED
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	8	48.1	ATOMIC ABS: USGS PROVISIONAL
5-75	36			NOT DETERMINED

TOTAL RANGE	0	-	30			SAMPLE 49
MEAN		15.4286		AVERAGE DEVIATION	6.8979	
STANDARD DEVIATION		9.9809		95 PCT.CONF.INTVL OF MEAN	15.4286 +OR-	9.2311 SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	5	21.3	OTHER
5-75	2	140	*****	REJECT ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
4-75	3			NOT DETERMINED
5-75	4	15	136.0	REJECT ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
5-75	5	7	10.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
5-75	6			NOT DETERMINED
5-75	7	6	5.6	OTHER
5-75	8	7	10.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
4-75	9	7	10.1	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
5-75	10			NOT DETERMINED
5-75	11			NOT DETERMINED
5-75	12	5	21.3	OTHER
6-75	13			NOT DETERMINED
5-75	14	5	21.3	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
5-75	15			NOT DETERMINED
5-75	16	6	5.6	OTHER
5-75	17	7	10.1	OTHER
4-75	18			NOT DETERMINED
5-75	19			NOT DETERMINED
4-75	20	8	25.8	OTHER
5-75	21	7	10.1	OTHER
5-75	22	7	10.1	OTHER
5-75	23			NOT DETERMINED
5-75	24	6	5.6	OTHER
5-75	25			NOT DETERMINED
5-75	27			NOT DETERMINED
5-75	28			NOT DETERMINED
5-75	30			NOT DETERMINED
5-75	31			NOT DETERMINED
5-75	32			NOT DETERMINED
5-75	34			NOT DETERMINED
5-75	35	6	5.6	ATOMIC ABS-CHELATION/EXTRACTION: USGS TWRI B&S C4 A1
5-75	36			NOT DETERMINED

TOTAL RANGE 5
MEAN
STANDARD DEVIATION

- 140
6.3571
0.9288

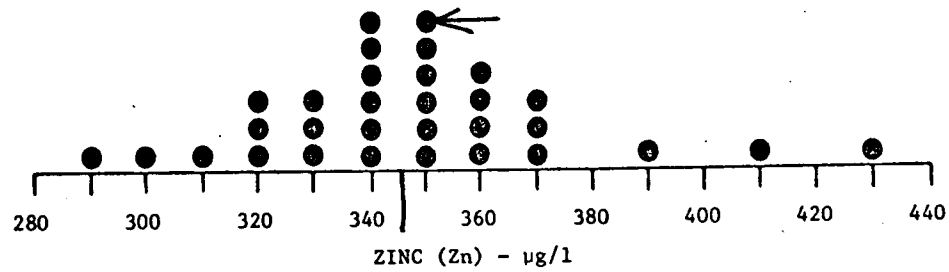
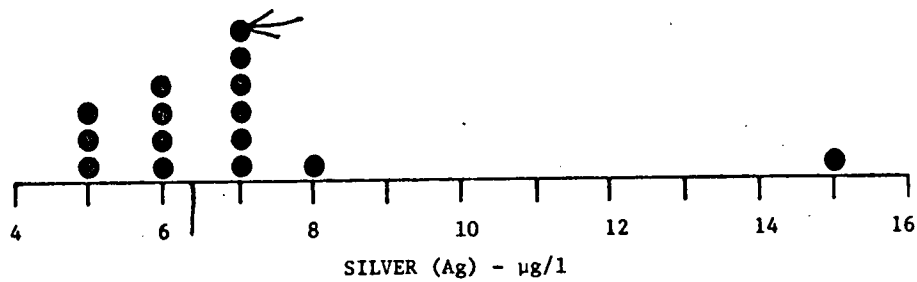
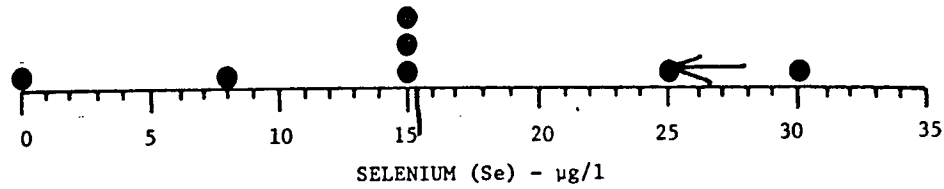
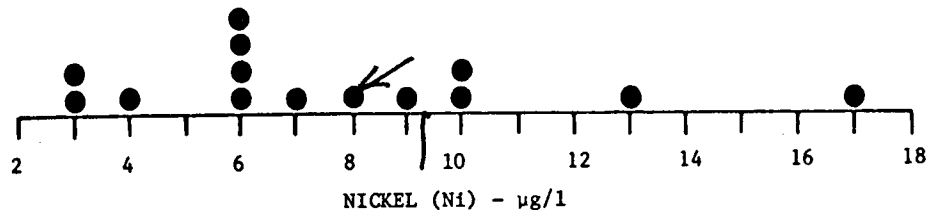
AVERAGE DEVIATION
95 PCT.CONF.INTVL OF MEAN

0.7857
6.3571 +OR- 0.5362

SAMPLE 49
AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHOD
5-75	1	320	7.9	OTHER
5-75	2	360	3.6	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
4-75	3	350	0.7	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	4	360	3.6	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	5	350	0.7	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	6	390	12.3	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	7	370	6.5	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	8	430	23.8	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
4-75	9	360	3.6	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	10	340	2.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	11	350	0.7	OTHER
5-75	12	370	6.5	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
6-75	13	360	3.6	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	14	330	5.0	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	15	350	0.7	OTHER
5-75	16	340	2.1	ATOMIC ABS-DIRECT: ASTM METHOD <, D2576-70
5-75	17	350	0.7	ATOMIC ABS-DIRECT: ASTM METHOD <, D2576-70
4-75	18	340	2.1	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	19	370	6.5	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
4-75	20	340	2.1	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	21	310	10.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	22	350	0.7	OTHER
5-75	23	320	7.9	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	24	290	16.5	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	25	330	5.0	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	27	110	68.3	REJECT ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	28	320	7.9	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	30	410	18.0	ATOMIC ABS-DIRECT: APHA STD METH, 13ED
5-75	31	340	2.1	OTHER
5-75	32			NOT DETERMINED
5-75	34	300	13.6	OTHER
5-75	35	340	2.1	ATOMIC ABS-DIRECT: JSGS TWRI BK5 CH A1
5-75	36	330	5.0	OTHER

TOTAL RANGE	110	-	430			SAMPLE 49
MEAN		347.4167		AVERAGE DEVIATION	20.7285	
STANDARD DEVIATION		28.9790		95 PCT.CONF.INTVL OF MEAN	347.4167 +OR-	10.6282 ZN



SAMPLE NO. 49

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	15	27	64	64	100
FE	27	11	17	71	96
MN	32	3	26	74	94
AS	15	0	60	73	93
CD	25	8	26	74	96
CR	20	0	40	70	95
TOT	12	8	64	64	100
CO	32	6	23	63	97
CU	20	0	45	70	95
PB	14	0	57	79	93
LI	16	13	57	79	93
HG	5	0	100	80	100
MO	16	0	31	69	94
VI	7	0	57	71	100
SE	16	13	29	71	100
AG	32	3	39	81	94
ZN					