



Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr 7114	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
Kommer fra ..arkiv Elkem Skorovas AS	Ekstern rapport nr P4-41-46	Oversendt fra Elkem Skorovas AS	Fortrolig pga	Fortrolig fra dato:

Tittel

Røntgenfluorescens- og neutronaktiveringsanalyse av W i 10 bergartsprøver

Forfatter
Follo, Alf

Dato År
Jan 1978

Bedrift (Oppdragsgiver og/eller oppdragstaker)
Elkem Skorovas AS

Kommune
Namsskogan
Grong

Fylke
Nord-Trøndelag

Bergdistrikt

1: 50 000 kartblad

1: 250 000 kartblad
Grong

Fagområde
Geokjemi

Dokument type

Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Vest Namsen

Råstoffgruppe
Malm/metall

Råstofftype
W, BA, co, Cu, Cr, Ni,
Pb, Sb, Sn, Sr, As, Mo

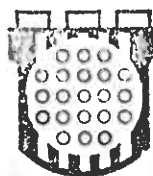
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

303 bekkesedimentprøver som er samlet inn i områdene vest for Namsen, er satt opp i histogrammer etter en beregning av statistiske parametre bl.a. variasjonskoeff. på histogrammene er lagt på noe som synes være et variogram med "nugget effect".

Vedlagt også W-analyse av 10 prøver av bergart , høyest 7500 ppm vedneutronaktivering

INSTITUTT FOR ATOMENERGI

Materialavdelingen / Kjemisk



Elkem-Spigerverket a/s
Skorovas Gruber
Attn.: Geolog O.S. Hembre
7893 SKOROVATN

100 JAN 1978

DERES REF.

VÅR REF. AF/EBJ

2007 KJELLER, 12. januar 1978

ANALYSERAPPORT

Vedrørende: Røntgenfluorescens- og nøytronaktiverings-analyse av W
i 10 bergartsprøver. L.nr. 68565/574 *


A. Follo
Avdelingsingeniør



H. Hjelmseth
Ingeniør

Vedlegg

* Vest for Namsen

~~7018~~ 7114
kart ^{blad} ~~blad~~ ^β
manøvr.

Postadresse	Telefon	Teleks	Telegramadresse	Bankgiro	Postgiro
Hovedkontor og forskningssenter: Postboks 40, 2007 Kjeller	Lillestrøm 71 25 60* 71 35 60*	16361 atom n	Atomenergi Oslo Isotop Oslo (for isotoper)	5102.05.00070	339 60

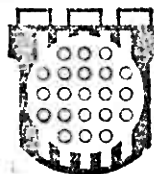
Prøve mrk.	L.nr.	ppm W	
		RF	NA
Nr. 1	68565	<10	7500
2	68566	<10	
3	68567	<10	
4	68568	>>500	
5	68569	<10	
6	68570	<10	
7	68571	57	59,8
8	68572	<10	
9	68573	<10	
10	68574	≤10	

RF: Røntgenfluorescens

NA: Nøytronaktivering

INSTITUTT FOR ATOMENERGI

Materialavdelingen / Kjemisk



Elkem-Spigerverket a/s
Skorovas Gruber
Attn.: Prosp.sjef O.S. Hembre
7893 SKOROVATN

DERES REF.

VÅR REF. AF/EBJ

2007 KJELLER, 19. januar 1978

Vedrørende: Histogrammer *

Vi viser til telefonsamtale mellom Dem og vår ingeniør R. Hurlen den 3. januar d.å., hvor det ble bestemt av histogram skulle utarbeides for følgende elementer: Ba, Co, Cu, Cr, Ni, Pb, Sb, (Sn) og Sr i tillegg til tidligere avtale som bare omfattet elementene As, W og Mo.

Vi vedlegger histogrammene for de ovenfor nevnte elementer bortsett fra elementet Sb hvor alle analyseverdier ligger under den satte nedre analysegrense.

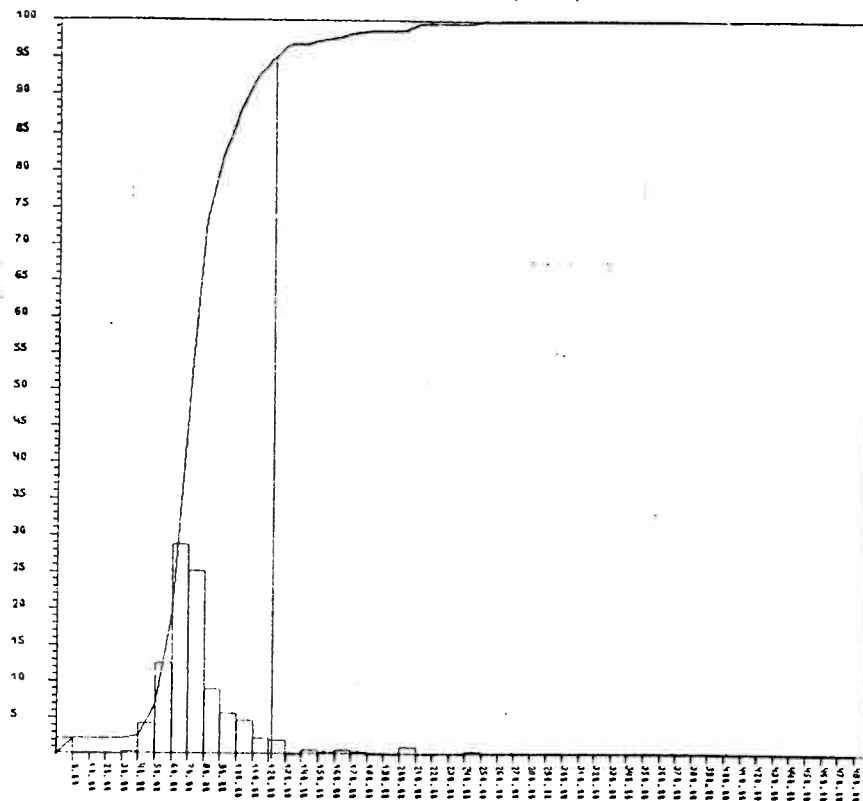

A. Follo
Avdelingsingeniør

* Gjelder områdene "Vest for Namsen"

Vedlegg

	Postadresse	Telefon	Teleks	Telegramadresse	Bankgiro	Postgiro
Hovedkontor og forskningssenter:	Postboks 40, 2007 Kjeller	Lillestrøm 71 25 60 • 71 35 60 •	15361 atom n	Atomenergi Oslo Isotop Oslo (for isotoper)	5102.05.00070	339 60

AS PPM



NUMBER OF CLASSES 50
 NUMBER OF OBSERVATIONS 333
 MAXIMUM 250.0
 MINIMUM 0.0
 ARITHMETIC MEAN 74.0
 GEOMETRIC MEAN 73.0
 MEDIAN 70.7

NUMBER OF OBS. ABOVE 400.0 0
 COEFFICIENT OF VARIATION 30.53
 FISHERS MEASURE OF SKEWNESS 1.9
 STANDARD DEVIATION 20.82
 GEOMETRIC STANDARD DEVIATION 1.68
 COEFFICIENT OF INFORMATION 0.45

AS PPM

***** HISTOGRAM NUMBER 1 ELEMENT NAME: AS *****

NUMBER OF CLASSES 50
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

0 => PLOTTED
1 => NOT PLOTTED

MEDIAN 70.7
MAXIMUM 250.0
MINIMUM 0.0
NUMBER OF SAMPLES 303

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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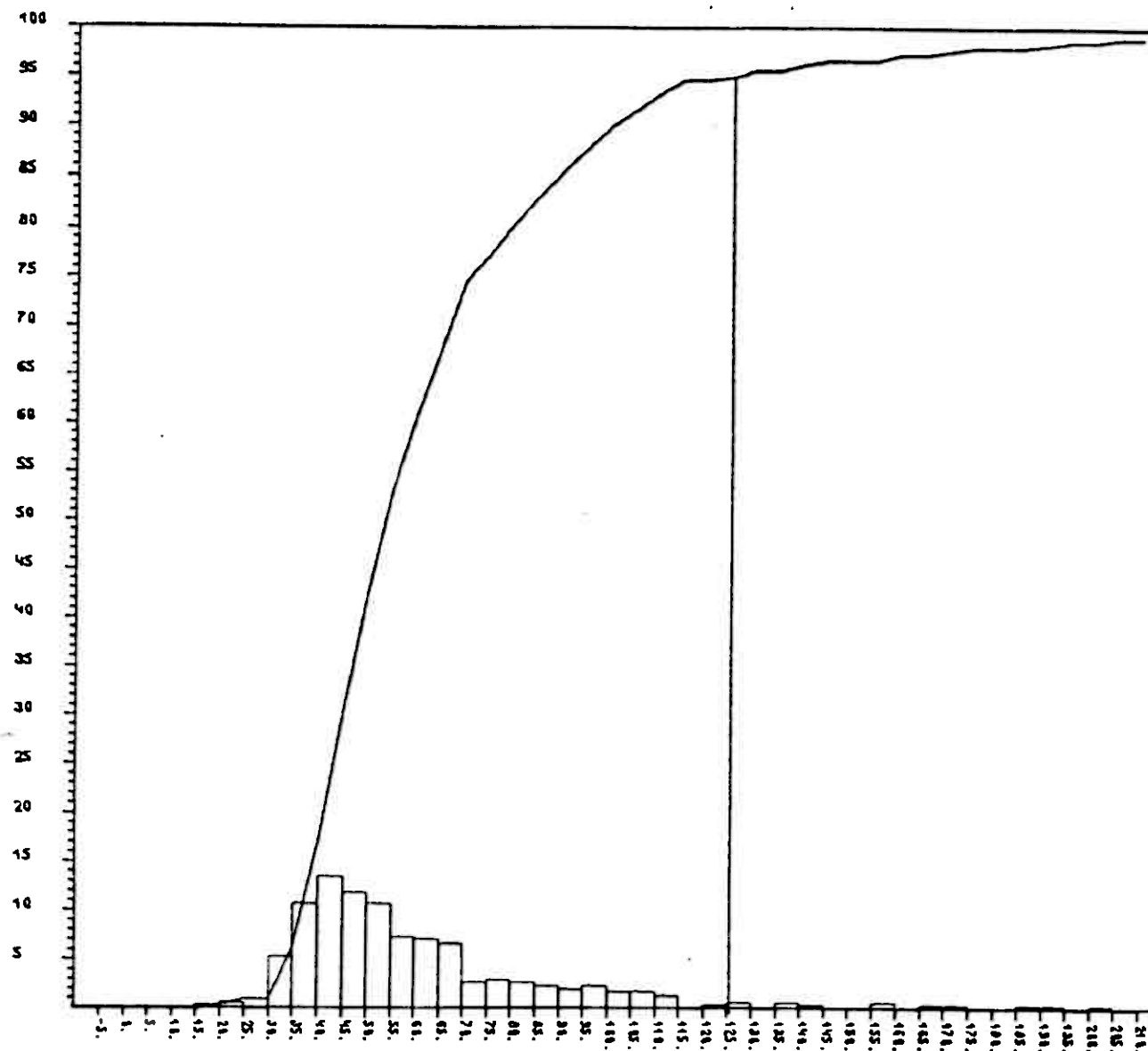
.050	45.50
.100	52.45
.150	56.43
.200	60.18
.250	61.93
.300	63.67
.350	65.41
.400	67.15
.450	68.89
.500	70.72
.550	72.72
.600	74.71
.650	76.70
.700	78.70
.750	81.94
.800	87.56
.850	95.03
.900	104.79
.950	121.42
.975	154.25

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-11

BA PPM



NUMBER OF CLASSES 45
 NUMBER OF OBSERVATIONS 296
 MAXIMUM 651.0
 MINIMUM 17.2
 ARITHMETIC MEAN 64.9
 GEOMETRIC MEAN 57.9
 MEDIAN 53.4

NUMBER OF OBS. ABOVE 120.0 3
 COEFFICIENT OF VARIATION 71.58
 FISHERS MEASURE OF SKEWNESS 7.4
 STANDARD DEVIATION 46.44
 GEOMETRIC STANDARD DEVIATION 1.20
 COEFFICIENT OF INFORMATION 0.24

***** HISTOGRAM NUMBER 8 ELEMENT NAME: BA *****

NUMBER OF CLASSES 45
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 53.4
MAXIMUM 651.0
MINIMUM 17.2
NUMBER OF SAMPLES 296

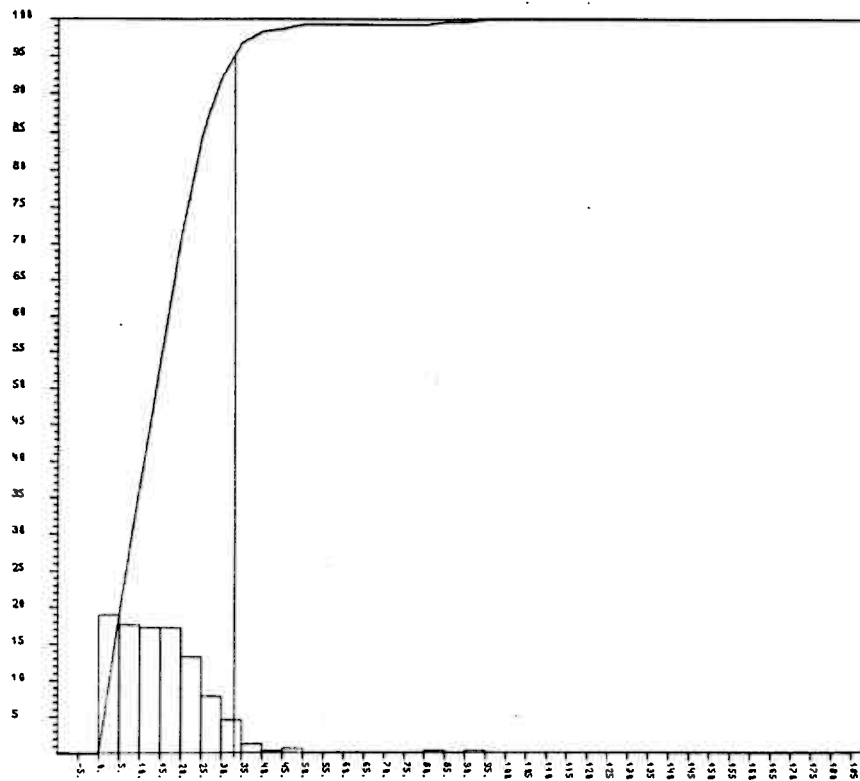
PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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.050	33.69
.100	36.66
.150	38.97
.200	41.03
.250	42.88
.300	44.73
.350	46.80
.400	48.91
.450	51.13
.500	53.44
.550	56.09
.600	59.45
.650	62.95
.700	66.55
.750	70.63
.800	79.33
.850	89.00
.900	100.40
.950	125.50
.975	168.00

HISTOGRAM NUMBER 9 IS EMPTY

 CO PPM



NUMBER OF CLASSES 40
 NUMBER OF OBSERVATIONS 279
 MAXIMUM 94.0
 MINIMUM 0.4
 ARITHMETIC MEAN 15.3
 GEOMETRIC MEAN 10.7
 MEDIAN 13.9

NUMBER OF OBS. ABOVE 105.0 0
 COEFFICIENT OF VARIATION 74.18
 FISHERS MEASURE OF SKENNESS 2.4
 STANDARD DEVIATION 11.37
 GEOMETRIC STANDARD DEVIATION 2.07
 COEFFICIENT OF INFORMATION 0.44

Negative verdier er ikke tatt med i beregningene.

5,0% av de analyserte prøvene er kommet ut med negative verdier.

***** HISTOGRAM NUMBER 1 ELEMENT NAME: CO *****

NUMBER OF CLASSES 40
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 13.9
MAXIMUM 91.0
MINIMUM .1
NUMBER OF SAMPLES 279

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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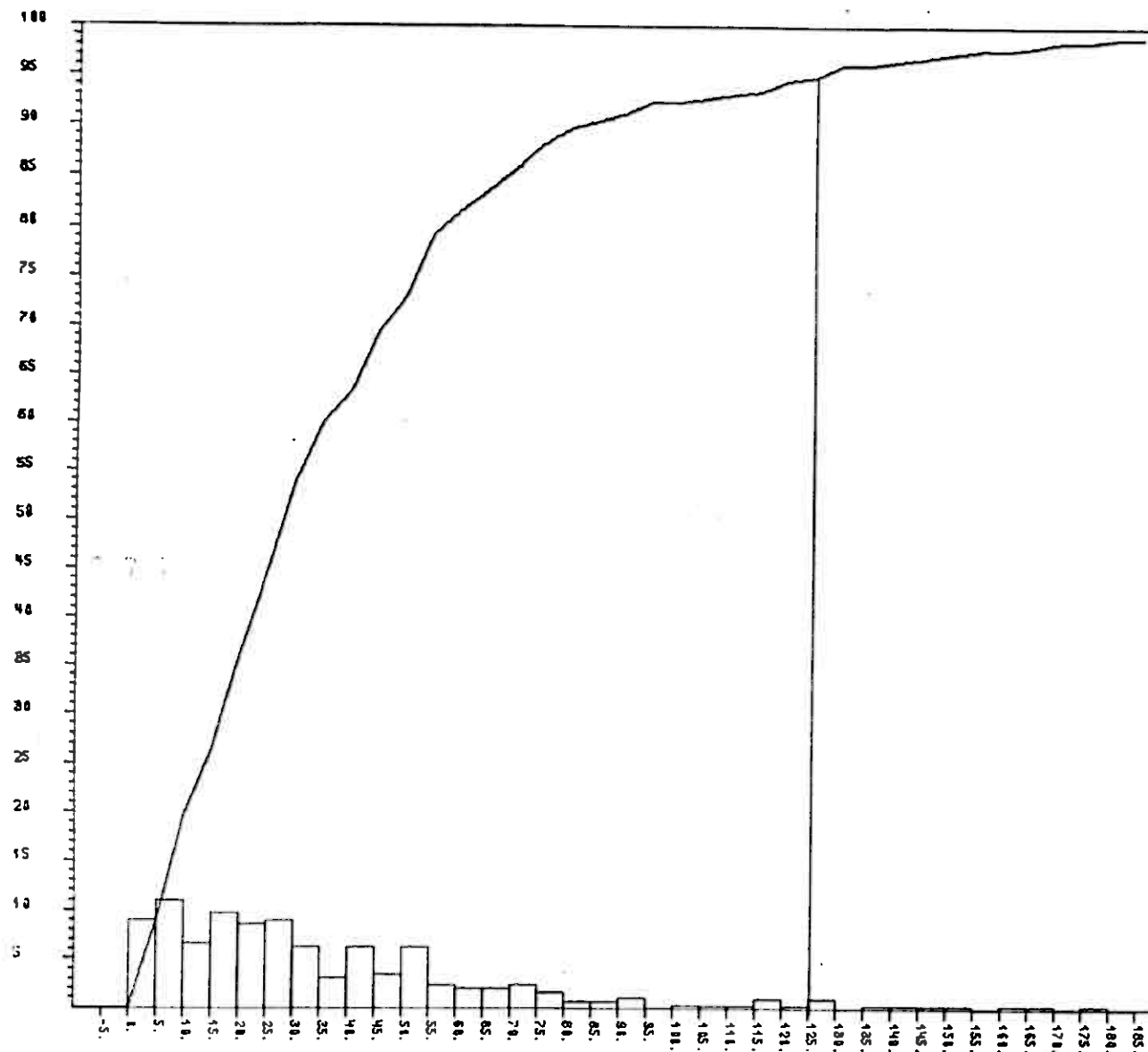
.050	1.32
.100	2.63
.150	3.95
.200	5.29
.250	6.71
.300	8.13
.350	9.56
.400	11.00
.450	12.45
.500	13.91
.550	15.36
.600	16.81
.650	18.27
.700	19.72
.750	21.52
.800	23.41
.850	25.49
.900	28.66
.950	33.10
.975	37.53

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-12

CR PPM



NUMBER OF CLASSES 40
 NUMBER OF OBSERVATIONS 256
 MAXIMUM 190.0
 MINIMUM 1.2
 ARITHMETIC MEAN 39.1
 GEOMETRIC MEAN 24.4
 MEDIAN 27.8

NUMBER OF OBS. ABOVE 185.0 .3
 COEFFICIENT OF VARIATION 96.19
 FISHERS MEASURE OF SKEWNESS 1.9
 STANDARD DEVIATION 37.58
 GEOMETRIC STANDARD DEVIATION 2.26
 COEFFICIENT OF INFORMATION 0.16

Negative verdier er ikke tatt med i beregningene.

12,5% av de analyserte prøvene er kommet ut med negative verdier.

NUMBER OF CLASSES 40
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 27.8
MAXIMUM 120.0
MINIMUM 1.2
NUMBER OF SAMPLES 256

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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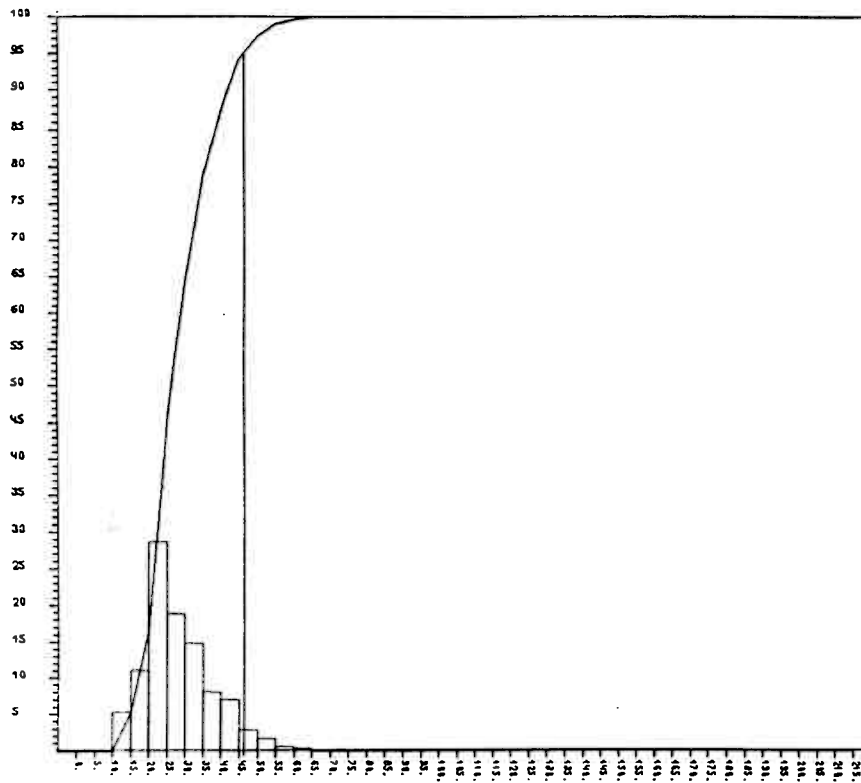
.050	2.78
.100	5.46
.150	7.75
.200	10.06
.250	13.82
.300	16.76
.350	19.32
.400	22.14
.450	25.04
.500	27.83
.550	30.88
.600	34.88
.650	41.38
.700	45.67
.750	51.56
.800	56.50
.850	68.60
.900	83.50
.950	125.33
.975	153.00

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-11

CU PPM



NUMBER OF CLASSES	45
NUMBER OF OBSERVATIONS	296
MAXIMUM	61.2
MINIMUM	10.3
ARITHMETIC MEAN	28.1
GEOMETRIC MEAN	26.5
MEDIAN	26.3

NUMBER OF OBS. ABOVE 215.0	0
COEFFICIENT OF VARIATION	33.88
FISHERS MEASURE OF SKEWNESS	0.7
STANDARD DEVIATION	9.52
GEOMETRIC STANDARD DEVIATION	1.12
COEFFICIENT OF INFORMATION	0.46

***** HISTOGRAM NUMBER 3 ELEMENT NAME: CU *****

NUMBER OF CLASSES 45
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

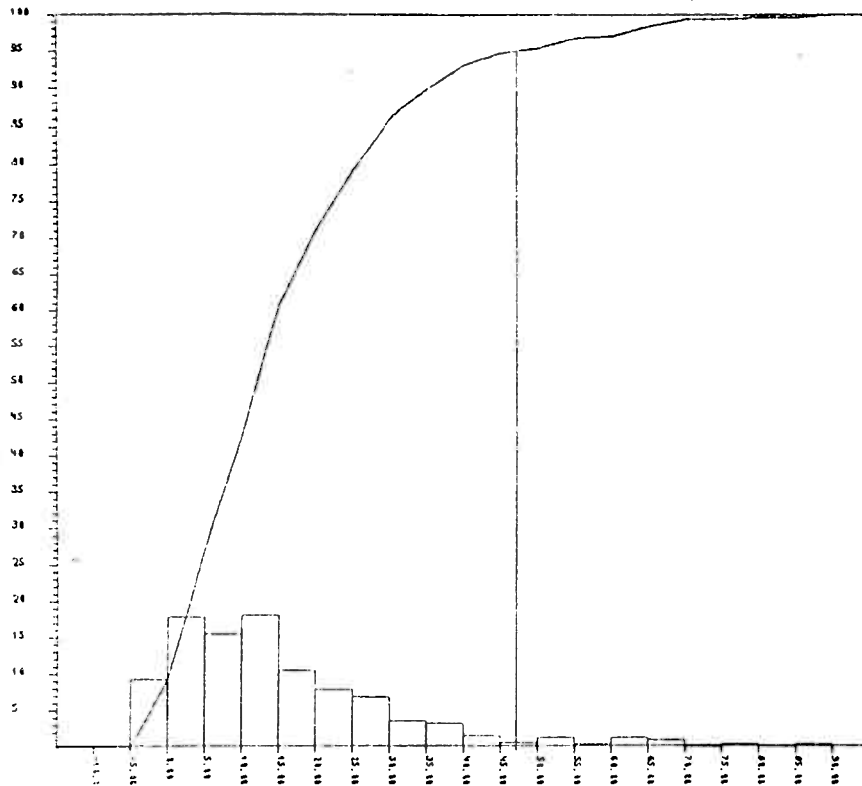
MEDIAN 26.3
MAXIMUM 61.2
MINIMUM 10.3
NUMBER OF SAMPLES 296

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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.050	14.63
.100	17.06
.150	19.30
.200	20.60
.250	21.47
.300	22.34
.350	23.21
.400	24.08
.450	24.95
.500	26.25
.550	27.57
.600	28.89
.650	30.27
.700	31.95
.750	33.64
.800	35.58
.850	38.67
.900	42.00
.950	46.22
.975	50.60

MO PPM



NUMBER OF CLASSES	22
NUMBER OF OBSERVATIONS	303
MAXIMUM	80.2
MINIMUM	-4.0
ARITHMETIC MEAN	15.7
GEOMETRIC MEAN	10.7
MEDIAN	12.0

NUMBER OF OBS. ABOVE	90.0
COEFFICIENT OF VARIATION	58.59
FISHERS MEASURE OF SKEWNESS	1.6
STANDARD DEVIATION	15.44
GEOMETRIC STANDARD DEVIATION	5.48
COEFFICIENT OF INFORMATION	0.24

MO PPM

***** HISTOGRAM NUMBER 1 ELEMENT NAME: MO *****

NUMBER OF CLASSES 22
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH
0 => PLOTTED
1 => NOT PLOTTED

CUMULATIVE CURVE OPT 1

MEDIAN 12.0
MAXIMUM 88.2
MINIMUM -4.8
NUMBER OF SAMPLES 303

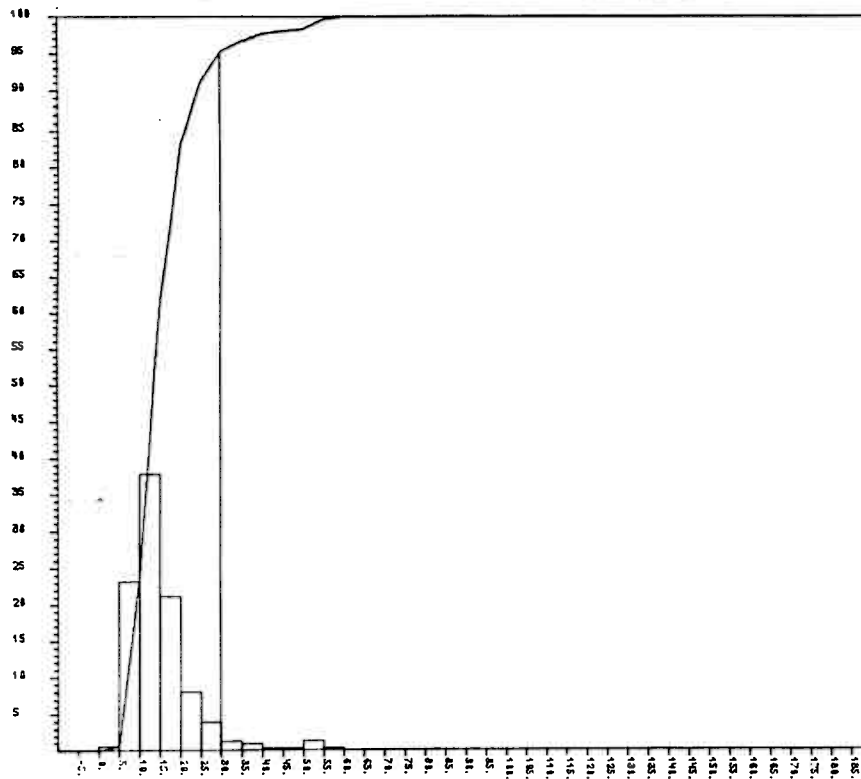
PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

.050	-2.29
.100	.21
.150	1.62
.200	3.02
.250	4.42
.300	5.95
.350	7.56
.400	9.17
.450	10.67
.500	12.05
.550	13.42
.600	14.80
.650	17.02
.700	19.39
.750	22.34
.800	25.57
.850	29.18
.900	35.35
.950	47.13
.975	61.78

INSTITUTT FOR ATOMENERGI
 ANDELING KJEMI
 1978-01-12

NI PPM



NUMBER OF CLASSES 40
 NUMBER OF OBSERVATIONS 296
 MAXIMUM 55.5
 MINIMUM 0.6
 ARITHMETIC MEAN 15.4
 GEOMETRIC MEAN 10.9
 MEDIAN 13.4

NUMBER OF OBS. ABOVE 105.0 0
 COEFFICIENT OF VARIATION 58.02
 FISHERS MEASURE OF SKENNESS 2.4
 STANDARD DEVIATION 8.14
 GEOMETRIC STANDARD DEVIATION 1.20
 COEFFICIENT OF INFORMATION 0.54

NUMBER OF CLASSES 40
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => EQUAL LENGTH

1 => PLOTTED

0 => NOT PLOTTED

MEDIAN 13.4

MAXIMUM 55.5

MINIMUM 3.6

NUMBER OF SAMPLES 296

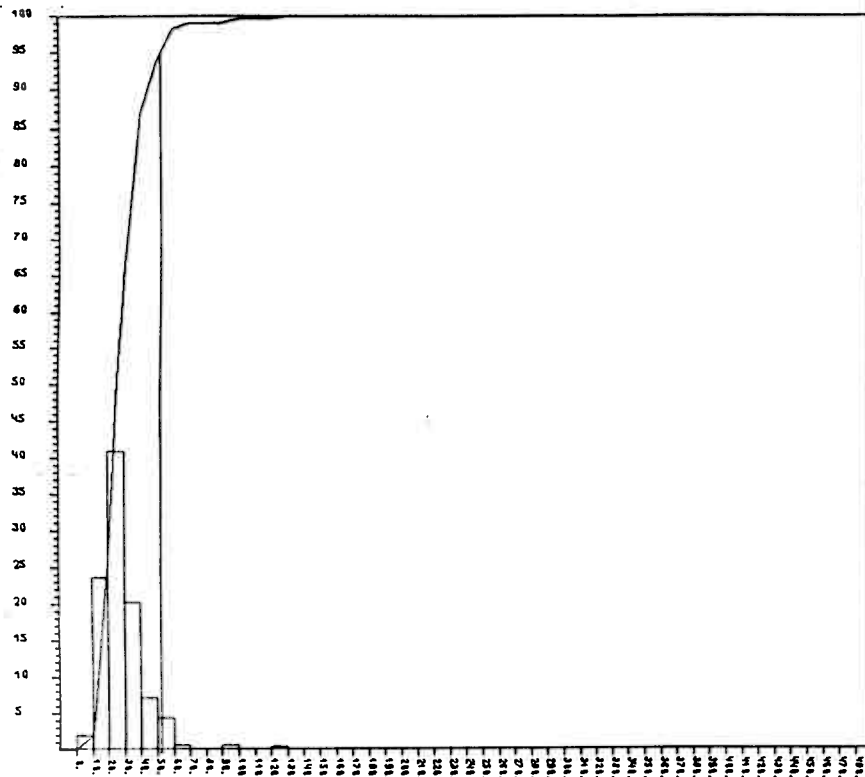
PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

.050	5.93
.100	7.00
.150	8.07
.200	9.14
.250	10.13
.300	10.79
.350	11.46
.400	12.12
.450	12.78
.500	13.44
.550	14.10
.600	14.76
.650	15.75
.700	16.92
.750	18.10
.800	19.27
.850	21.17
.900	24.25
.950	29.67
.975	39.33

INSTITUT FOR ATOMENERGI
 AVOELING KJEMI
 1978-01-11

PB PPM



NUMBER OF CLASSES 50
 NUMBER OF OBSERVATIONS 296
 MAXIMUM 126.0
 MINIMUM 9.2
 ARITHMETIC MEAN 28.1
 GEOMETRIC MEAN 25.7
 MEDIAN 26.0

NUMBER OF OBS. ABOVE 400.0 0
 COEFFICIENT OF VARIATION 48.17
 FISHERS MEASURE OF SKEWNESS 2.6
 STANDARD DEVIATION 13.56
 GEOMETRIC STANDARD DEVIATION 1.19
 COEFFICIENT OF INFORMATION 0.53

***** HISTOGRAM NUMBER 4 ELEMENT NAME: PB *****

NUMBER OF CLASSES 50
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 26.0
MAXIMUM 126.0
MINIMUM 9.2
NUMBER OF SAMPLES 296

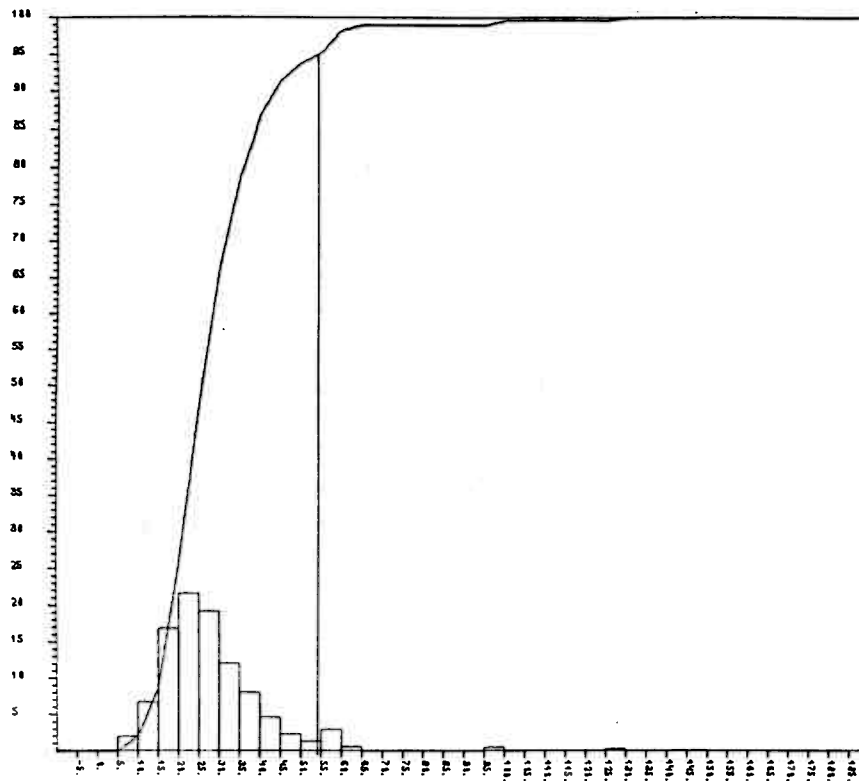
PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

.050	11.26
.100	13.37
.150	15.49
.200	17.60
.250	19.71
.300	21.06
.350	22.28
.400	23.50
.450	24.73
.500	25.95
.550	27.17
.600	28.40
.650	29.62
.700	31.70
.750	34.17
.800	36.63
.850	39.10
.900	44.48
.950	52.46
.975	58.15

INSTITUTT FOR ATOMENERGI
 AVOELING KJEMI
 1978-01-12

 PB PPM



NUMBER OF CLASSES	40
NUMBER OF OBSERVATIONS	296
MAXIMUM	126.0
MINIMUM	5.2
ARITHMETIC MEAN	28.1
GEOMETRIC MEAN	25.7
MEDIAN	25.7

NUMBER OF OBS. ABOVE	185.0	0
COEFFICIENT OF VARIATION		48.17
FISHERS MEASURE OF SKENNESS		2.6
STANDARD DEVIATION		43.56
GEOMETRIC STANDARD DEVIATION		1.19
COEFFICIENT OF INFORMATION		0.40

NUMBER OF CLASSES 40
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 25.7
MAXIMUM 126.0
MINIMUM 9.2
NUMBER OF SAMPLES 296

PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

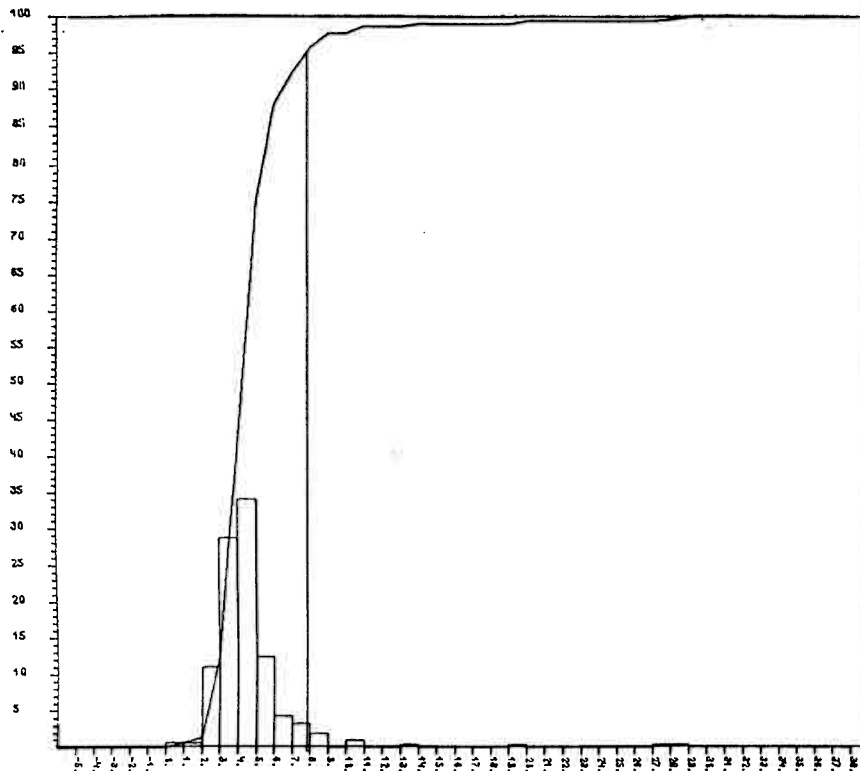
.050	12.20
.100	15.36
.150	16.84
.200	18.32
.250	19.80
.300	21.00
.350	22.16
.400	23.31
.450	24.47
.500	25.70
.550	27.00
.600	28.30
.650	29.50
.700	31.42
.750	33.47
.800	35.79
.850	38.88
.900	43.36
.950	54.00
.975	58.67

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-12

SN PPM



NUMBER OF CLASSES	45
NUMBER OF OBSERVATIONS	286
MAXIMUM	28.1
MINIMUM	0.0
ARITHMETIC MEAN	4.7
GEOMETRIC MEAN	4.2
MEOTAN	4.3

NUMBER OF OBS. ABOVE	28.0	0
COEFFICIENT OF VARIATION		56.58
FISHERS MEASURE OF SKENESS		5.6
STANDARD DEVIATION		2.68
GEOMETRIC STANDARD DEVIATION		1.27
COEFFICIENT OF INFORMATION		0.52

NUMBER OF CLASSES 45
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => P-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => EQUAL LENGTH

1 => PLOTTED

0 => NOT PLOTTED

MEDIAN 4.3
MAXIMUM 28.1
MINIMUM .0
NUMBER OF SAMPLES 296

PERCENTILES OF DISTRIBUTION

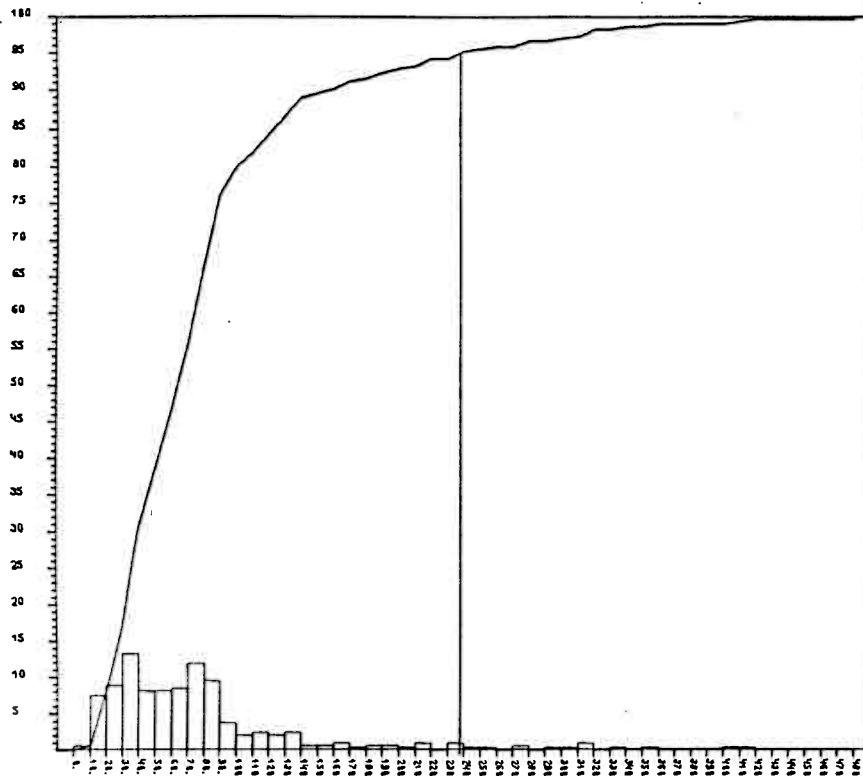
CUM FREQ PERCENTILE

.050	2.33
.100	2.78
.150	3.09
.200	3.26
.250	3.44
.300	3.61
.350	3.78
.400	3.96
.450	4.11
.500	4.26
.550	4.40
.600	4.55
.650	4.70
.700	4.84
.750	4.99
.800	5.37
.850	5.77
.900	6.49
.950	7.82
.975	8.93

HISTOGRAM NUMBER 4 IS EMPTY

INSTITUTT FOR ATOMENERGI
 ANDELING KJEMI
 1978-01-11

SR PPM



NUMBER OF CLASSES	50
NUMBER OF OBSERVATIONS	295
MAXIMUM	149.0
MINIMUM	6.3
ARITHMETIC MEAN	80.5
GEOMETRIC MEAN	60.1
MEOTIAN	64.2

NUMBER OF OBS. ABOVE 40.0	4
COEFFICIENT OF VARIATION	89.26
FISHERS MEASURE OF SKWNESS	2.5
STANDARD DEVIATION	74.87
GEOMETRIC STANDARD DEVIATION	1.79
COEFFICIENT OF INFORMATION	0.26

***** HISTOGRAM NUMBER 5 ELEMENT NAME: SR *****

NUMBER OF CLASSES 50
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => EQUAL LENGTH

1 => PLOTTED

0 => NOT PLOTTED

MEDIAN 64.2

MAXIMUM 442.0

MINIMUM 6.3

NUMBER OF SAMPLES 295

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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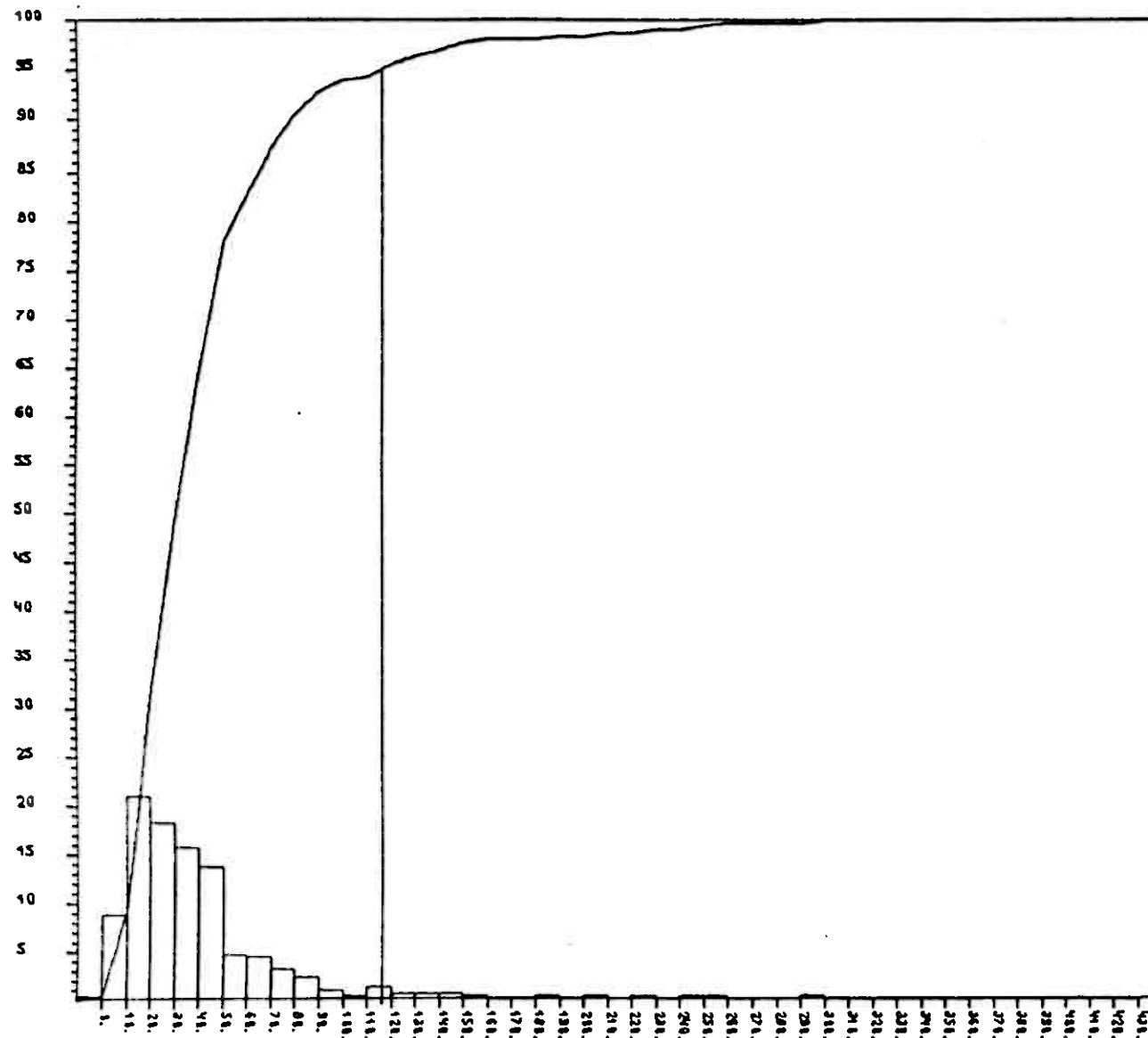
.050	15.80
.100	22.12
.150	27.79
.200	32.31
.250	36.09
.300	39.87
.350	45.94
.400	52.08
.450	58.23
.500	64.20
.550	70.07
.600	74.29
.650	78.50
.700	83.39
.750	88.66
.800	100.00
.850	122.92
.900	157.50
.950	237.50
.975	312.08

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-11

V PPM



NUMBER OF CLASSES 45
 NUMBER OF OBSERVATIONS 294
 MAXIMUM 299.0
 MINIMUM 0.0
 ARITHMETIC MEAN 44.6
 GEOMETRIC MEAN 23.7
 MEDIAN 31.0

NUMBER OF OBS. ABOVE 430.0 0
 COEFFICIENT OF VARIATION 95.74
 FISHERS MEASURE OF SKEWNESS 3.0
 STANDARD DEVIATION 39.80
 GEOMETRIC STANDARD DEVIATION 2.15
 COEFFICIENT OF INFORMATION 0.38

Negative verdier er ikke tatt med i beregningene.

1,7% av de analyserte prøvene er kommet ut med negative verdier.

***** HISTOGRAM NUMBER 6 ELEMENT NAME: V *****

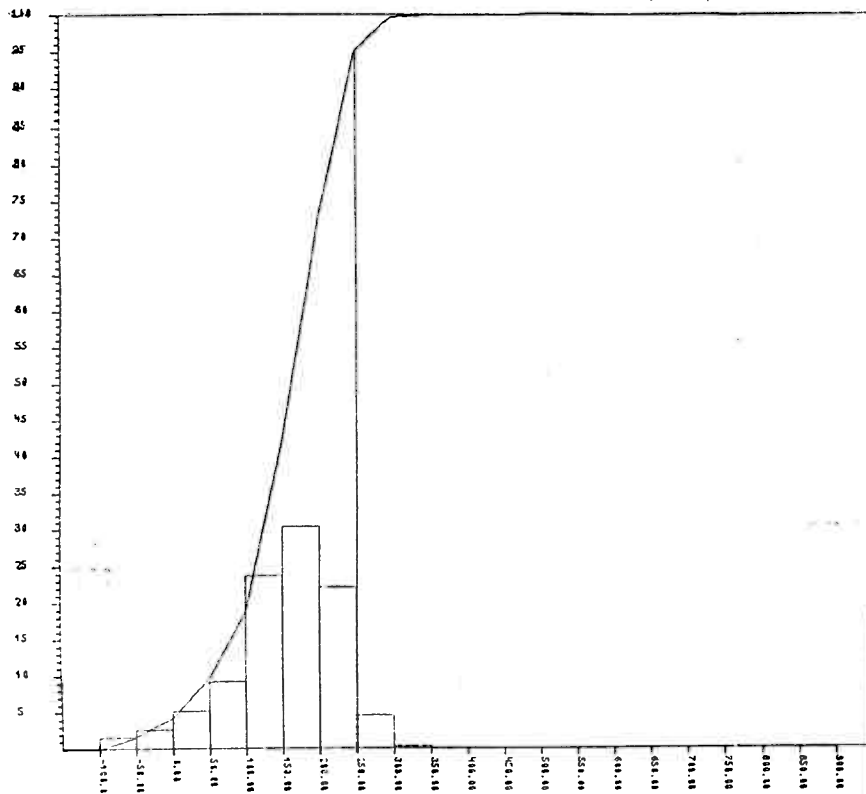
NUMBER OF CLASSES	45	
SCALE OPTION	0	0 => ARITHMETIC 1 => E-LOG SCALE 2 => 2-LOG SCALE
INTERVAL OPTION	1	0 => UNEQUAL LENGTH 1 => EQUAL LENGTH
CUMULATIVE CURVE OPT	1	1 => PLOTTED 0 => NOT PLOTTED
MEDIAN	31.0	
MAXIMUM	299.0	
MINIMUM	0.0	
NUMBER OF SAMPLES	291	

PERCENTILES OF DISTRIBUTION

CUM FREQ	PERCENTILE
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.050	5.21
.100	10.34
.150	12.73
.200	15.11
.250	17.50
.300	19.89
.350	22.61
.400	25.36
.450	28.10
.500	30.98
.550	34.14
.600	37.30
.650	40.54
.700	44.18
.750	47.81
.800	54.14
.850	64.88
.900	78.78
.950	116.13
.975	148.63

W PPM



NUMBER OF CLASSES 22
 NUMBER OF OBSERVATIONS 303
 MAXIMUM 109.0
 MINIMUM 87.0
 ARITHMETIC MEAN 155.0
 GEOMETRIC MEAN 148.1
 MEDIAN 162.2

NUMBER OF OBS. ABOVE 900.0 0
 COEFFICIENT OF VARIATION 46.00
 FISHERS MEASURE OF SKEWNESS -0.7
 STANDARD DEVIATION 71.31
 GEOMETRIC STANDARD DEVIATION 1.36
 COEFFICIENT OF INFORMATION 0.43

PPM

***** HISTOGRAM NUMBER 1 ELEMENT NAME: W *****

NUMBER OF CLASSES 22
SCALE OPTION 0

0 => ARITHMETIC
1 => F-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH
0 => PLOTTED
1 => NOT PLOTTED

CUMULATIVE CURVE OPT 1

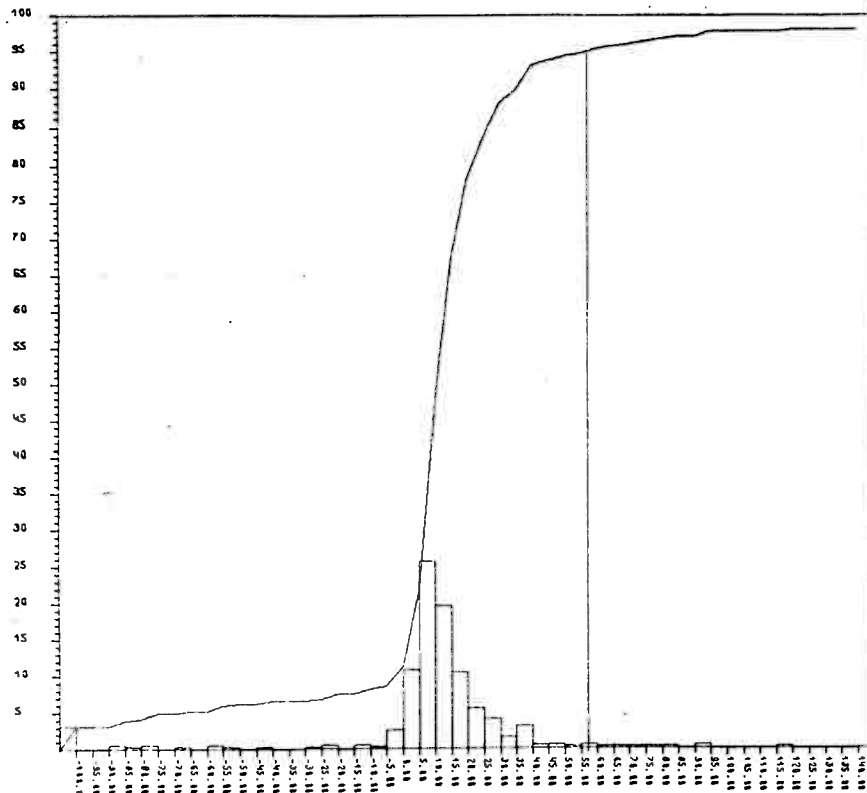
MEDIAN 162.2
MAXIMUM 339.0
MINIMUM -87.3
NUMBER OF SAMPLES 303

PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

.050	6.72
.100	52.32
.150	79.38
.200	102.50
.250	113.02
.300	123.54
.350	134.06
.400	144.58
.450	153.99
.500	162.23
.550	170.46
.600	178.70
.650	186.93
.700	195.16
.750	204.66
.800	215.97
.850	227.28
.900	238.58
.950	249.89
.975	276.52

W/MO



NUMBER OF CLASSES 50
NUMBER OF OBSERVATIONS 303
MAXIMUM 34375.0
MINIMUM -10500.0
ARITHMETIC MEAN 177.6
GEOMETRIC MEAN 18.2
MEDIAN 10.5

NUMBER OF OBS. ABOVE 140.0 6
COEFFICIENT OF VARIATION 1471.50
FISHERS MEASURE OF SKEWNESS 19.1
STANDARD DEVIATION 2613.49
GEOMETRIC STANDARD DEVIATION 3.14
COEFFICIENT OF INFORMATION 0.35

W/MO

***** HISTOGRAM NUMBER 1 ELEMENT NAME: V *****

DATA SET: :001

NUMBER OF CLASSES	50	
SCALE OPTION	1	0 => ARITHMETIC 1 => E-LOG SCALE 2 => Z-LOG SCALE
INTERVAL OPTION	1	0 => UNEQUAL LENGTH 1 => EQUAL LENGTH
CUMULATIVE CURVE	1	0 => PLOTTED 1 => NOT PLOTTED
MEDIAN	10.5	
MAXIMUM	34.575.0	
MINIMUM	-10500.0	
NUMBER OF SAMPLES	303	

PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

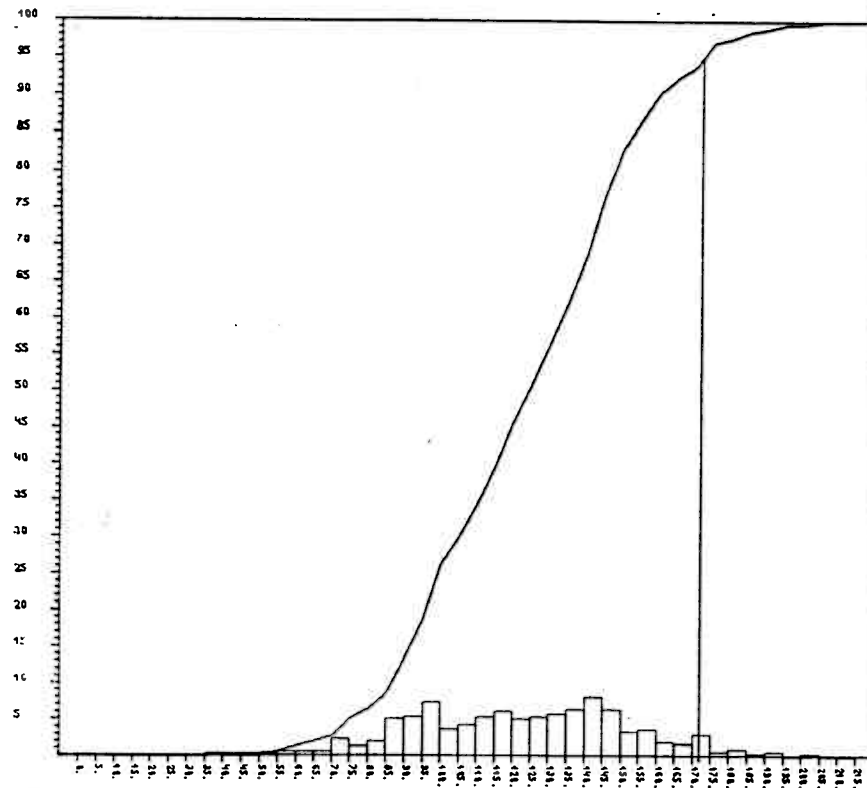
.050	-60.25
.100	-2.31
.150	1.73
.200	4.63
.250	5.50
.300	5.73
.350	7.20
.400	8.57
.450	9.43
.500	10.54
.550	11.70
.600	13.17
.650	14.53
.700	15.11
.750	18.50
.800	21.17
.850	25.37
.900	28.35
.950	37.13
.975	43.50

INSTITUTT FOR ATOMENERGI

AVDELING KJEMI

1978-01-11

ZN PPM



NUMBER OF CLASSES 45
 NUMBER OF OBSERVATIONS 296
 MAXIMUM 202.0
 MINIMUM 33.9
 ARITHMETIC MEAN 123.4
 GEOMETRIC MEAN 119.7
 MEDIAN 124.0

NUMBER OF OBS. ABOVE 215.0 0
 COEFFICIENT OF VARIATION 23.00
 FISHERS MEASURE OF SKEWNESS -0.0
 STANDARD DEVIATION 28.28
 GEOMETRIC STANDARD DEVIATION 1.07
 COEFFICIENT OF INFORMATION 0.16

***** HISTOGRAM NUMBER 7 ELEMENT NAME: ZN *****

NUMBER OF CLASSES 45
SCALE OPTION 0

0 => ARITHMETIC
1 => E-LOG SCALE
2 => 2-LOG SCALE

INTERVAL OPTION 1

0 => UNEQUAL LENGTH
1 => EQUAL LENGTH

CUMULATIVE CURVE OPT 1

1 => PLOTTED
0 => NOT PLOTTED

MEDIAN 124.0
MAXIMUM 202.0
MINIMUM 39.9
NUMBER OF SAMPLES 296

PERCENTILES OF DISTRIBUTION

CUM FREQ PERCENTILE

.050	74.86
.100	86.53
.150	91.37
.200	95.73
.250	99.09
.300	104.91
.350	110.50
.400	115.11
.450	119.22
.500	124.00
.550	128.69
.600	133.12
.650	137.21
.700	140.88
.750	143.96
.800	147.58
.850	152.80
.900	159.73
.950	171.78
.975	179.00