

Rijkswaterstaat

Rijksinstituut voor Integraal Zoetwaterbeheer en
Afvalwaterbehandeling RIZA



Laboratoriumevaluierend onderzoek;

Project 172 - Sediment, Totaal Pakket
1 november 1999

Bijlage 2, monsters 99091 en 99095

Auteur	S.T. van der Velde
Datum	21 januari 2000
Afdeling	IMLK
Werkdocumentnr:	99.068X



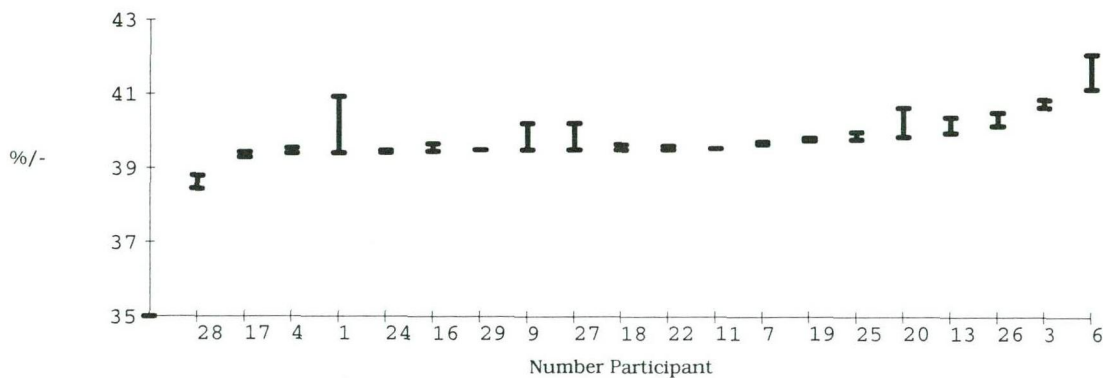
Job 2 : 99091, 99095

percentage drooggewicht (bij 105 graden celcius)., %DW in %/- Sediment (Lake)

8200 AA Lelystad

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	40.49000	38.33000	39.41000	3.9 %	*
2 *			.00000	0 %	*
3 *	40.50000	40.80000	40.65000	.5 %	* - N.V.
4 *	39.30000	39.50000	39.40000	.4 %	*
5 *			.00000	0 %	*
6 *	41.80000	40.50000	41.15000	2.2 %	* - N.V.
7 *	39.60000	39.70000	39.65000	.2 %	*
8 *			.00000	0 %	*
9 *	39.00000	40.00000	39.50000	1.8 %	* - N.V.
10 *			.00000	0 %	*
11 *	39.54000	39.54000	39.54000	.0 %	* - N.V.
12 *			.00000	0 %	*
13 *	40.26000	39.65000	39.95500	1.1 %	* - N.V.
14 *			.00000	0 %	*
15 *			.00000	0 %	* - N.V.
16 *	39.30000	39.60000	39.45000	.5 %	*
17 *	39.20000	39.40000	39.30000	.4 %	*
18 *	39.60000	39.40000	39.50000	.4 %	*
19 *	39.80000	39.70000	39.75000	.2 %	*
20 *	40.40000	39.30000	39.85000	2.0 %	*
21 *	43.20000	43.50000	43.35000	.5 %	*
22 *	39.44000	39.58000	39.51000	.3 %	*
23 *			.00000	0 %	* - N.V.
24 *	39.46000	39.38000	39.42000	.1 %	*
25 *	39.92000	39.64000	39.78000	.5 %	*
26 *	40.40000	39.90000	40.15000	.9 %	*
27 *	40.00000	39.00000	39.50000	1.8 %	*
28 *	38.70000	38.20000	38.45000	.9 %	*
29 *	39.50000	39.50000	39.50000	.0 %	*

Job 2: percentage drooggewicht (bij 105 graden celcius).



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

21 laboratory observations

Maximum absolute difference from Normal distribution: 0.26572. Critical value: 0.34400. KS-test passed

GRUBBS; 1 % ; replicas: 2

Cyc	Lab	D/S	Average	Variance	Result	Value
1	21	S	43.35000	.21213	3.64918	3.03100

Summary

1. Eliminations due to

1.1 Repeatability = 0

1.2 Reproducibility = 1

1.3 Manual rejected = 0

2. General Mean = 39.67075

3. Repeatability

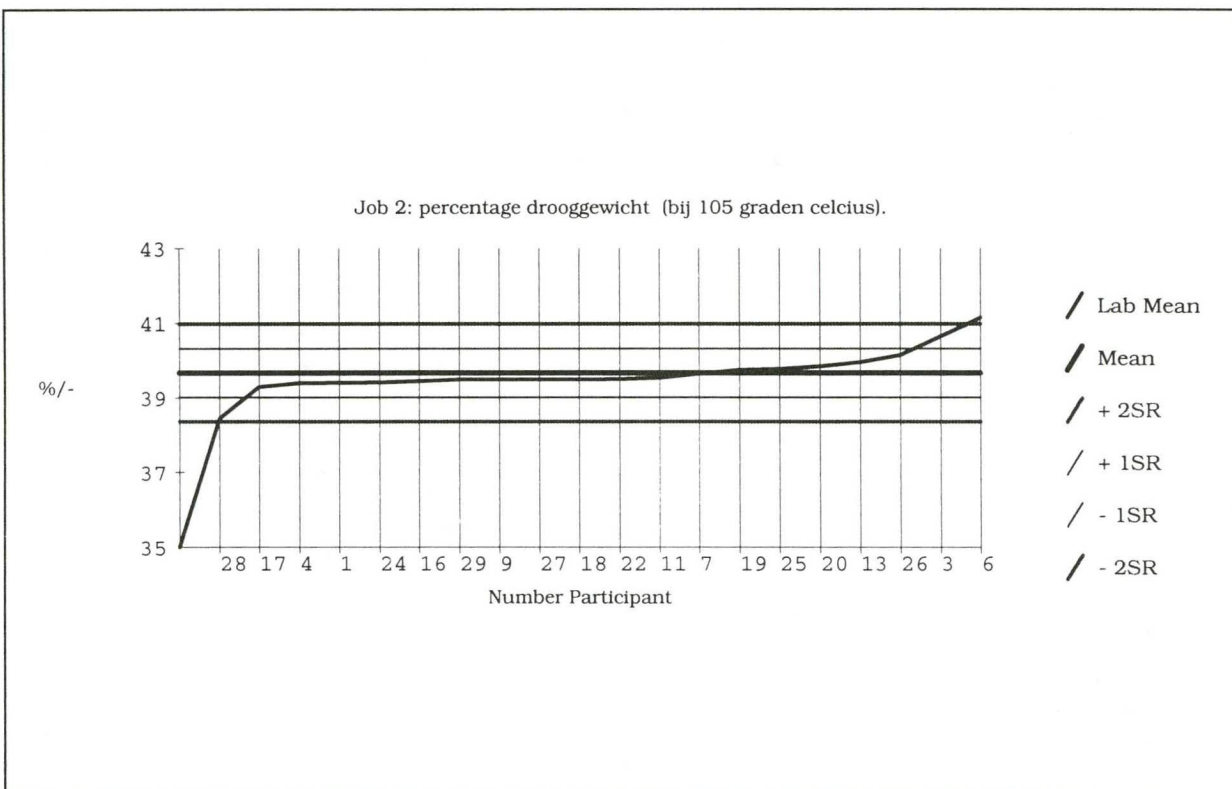
3.1 Standard deviation $S_r = .52111$

3.2 Coefficient of variation = 1 %

4. Reproducibility

4.1 Standard deviation $S_R = .65407$

4.2 Coefficient of variation = 2 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
8 *	.00000	G	* ?	* ?	* ?	* ?	*
14 *	.00000	G	* -	* -	* -	* -	*
2 *	.00000	G	* -	* -	* -	* -	*
15 *	.00000	G	* ?	* ?	* ?	* ?	*
10 *	.00000	G	* -	* -	* -	* C-NEN 6620	*
5 *	.00000	G	* -	* -	* -	* -	*
12 *	.00000	G	* -	* -	* -	* -	*
23 *	.00000	G	* -	* -	* -	* -	*
28 *	38.45000	C	* -	* -	* -	* NEN 5747	*
17 *	39.30000	A	* -	* -	* -	* HUIS	*
4 *	39.40000	A	* -	* -	* -	* -	*
1 *	39.41000	A	* -	* -	* -	* G-NEN 5747	*
24 *	39.42000	A	* -	* -	* Z	* NEN 6620	*
16 *	39.45000	A	* -	* -	* -	* C-NEN 6620	*
9 *	39.50000	A	* -	* -	* -	* -	*
27 *	39.50000	A	* -	* -	* -	* NEN 6620	*
29 *	39.50000	A	* -	* -	* Z	* HUIS	*
18 *	39.50000	A	* -	* -	* -	* C-NEN 6620	*
22 *	39.51000	A	* -	* -	* -	* -	*
11 *	39.54000	A	* -	* -	* -	* C-NEN 6620	*
7 *	39.65000	A	* ?	* ?	* ?	* NEN 6620	*
19 *	39.75000	A	* -	* -	* Z	* G-NEN 6620	*
25 *	39.78000	A	* Z	* -	* Z	* NEN 6620	*
20 *	39.85000	A	* -	* -	* -	* NEN 6620	*
13 *	39.95500	A	* -	* -	* -	* G-NEN 6620	*
26 *	40.15000	A	* -	* -	* -	* G-NEN 6620	*
3 *	40.65000	B	* -	* -	* -	* NEN 5748	*
6 *	41.15000	C	* -	* -	* -	* HUIS	*
21 *	43.35000	R	* -	* -	* -	* NEN 6620	*

General Mean = 39.67075

Between lab standard deviation SL = .39529

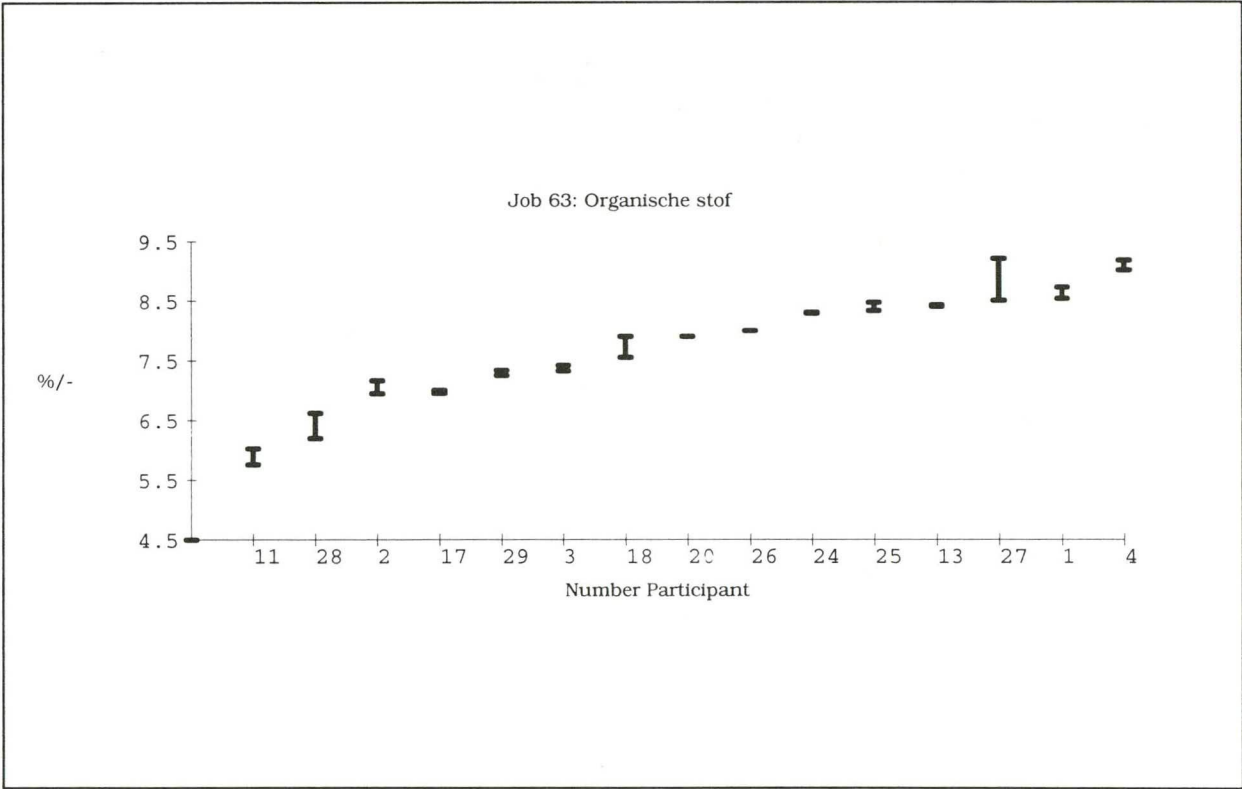
Coefficient of variation = 1 %

Number of laboratories = 20

A: Number of laboratories with	Z	-scores between 0 and 1	; 17
B: Number of laboratories with	Z	-scores between 1 and 2	; 1
C: Number of laboratories with	Z	-scores between 2 and 3	; 2
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 63 : 99091, 99095
Organische stof, OS in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	8.39700	8.66900	8.53300	2.3 %	*
2 *	6.80000	7.10000	6.95000	3.1 %	*
3 *	7.39000	7.26000	7.32500	1.3 %	*
4 *	9.13000	8.89000	9.01000	1.9 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *	5.95000	5.57000	5.76000	4.7 %	*
12 *			.00000	0 %	* - N.V.
13 *	8.42000	8.38000	8.40000	.3 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *			.00000	0 %	* - N.V.
17 *	6.99000	6.92000	6.95500	.7 %	*
18 *	7.30000	7.80000	7.55000	4.7 %	*
19 *			.00000	0 %	* - N.V.
20 *	7.90000	7.90000	7.90000	.0 %	*
21 *			.00000	0 %	* - N.V.
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *	8.30000	8.27000	8.28500	.3 %	*
25 *	8.43000	8.24000	8.33500	1.6 %	*
26 *	8.00000	8.00000	8.00000	.0 %	*
27 *	9.00000	8.00000	8.50000	8.3 %	*
28 *	6.50000	5.90000	6.20000	6.8 %	*
29 *	7.31000	7.18900	7.24950	1.2 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

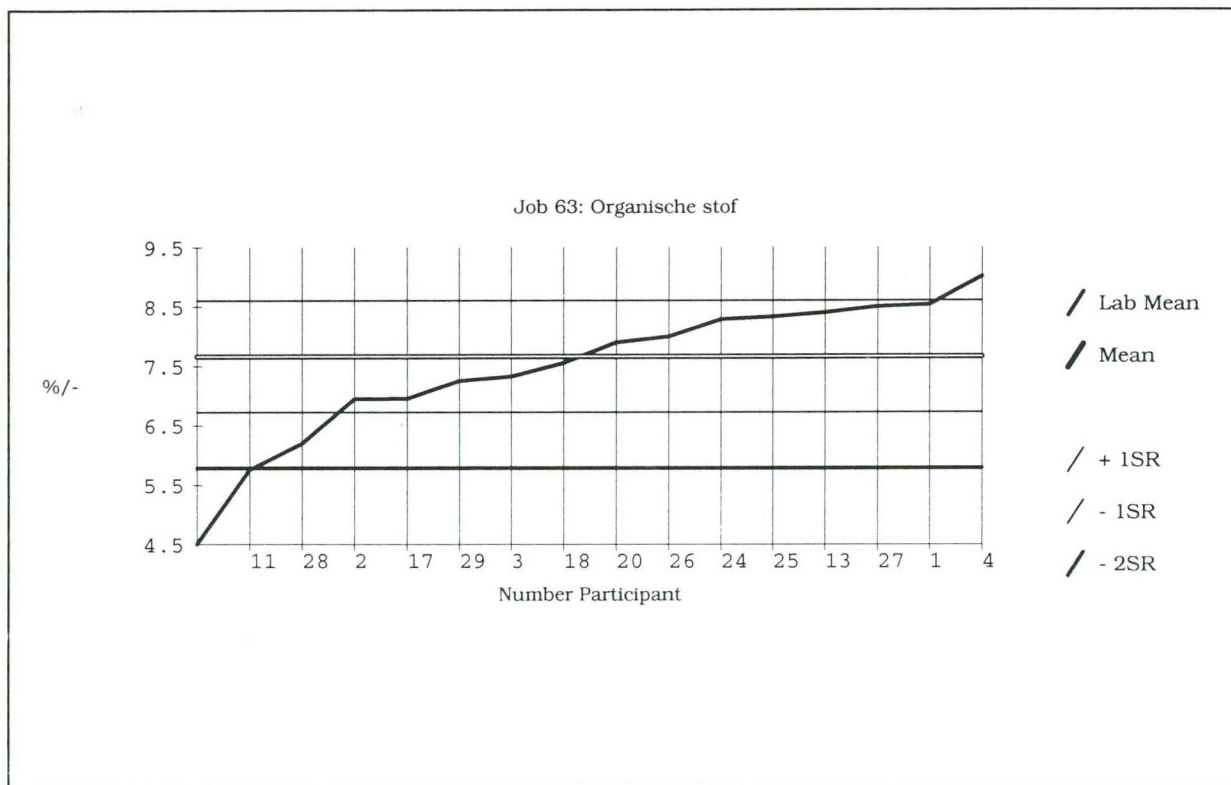
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.10693. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 7.66350
3. Repeatability
 - 3.1 Standard deviation $S_r = .26147$
 - 3.2 Coefficient of variation = 3 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .94003$
 - 4.2 Coefficient of variation = 12 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
19	.00000	G	-	-	-	-
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
10	.00000	G	-	-	-	-
16	.00000	G	-	-	-	-
21	.00000	G	-	-	-	-
22	.00000	G	-	-	-	-
5	.00000	G	-	-	-	-
12	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
6	.00000	G
11	5.76000	C	-	-	-	C-NEN 6620
28	6.20000	B	-	-	-	NEN 5754
2	6.95000	A	-	-	-	-
17	6.95500	A	-	-	-	HUIS
29	7.24950	A	-	-	IR	HUIS
3	7.32500	A	-	-	-	NEN 5754
18	7.55000	A	-	-	-	C-NEN 6620
20	7.90000	A	-	-	-	NEN 6620
26	8.00000	A	-	-	-	-
24	8.28500	A	-	-	Z	NEN 6620
25	8.33500	A	Z	-	Z	NEN 6620
13	8.40000	A	-	-	-	G-NEN 6620
27	8.50000	A	-	-	-	NEN 6622
1	8.53300	A	-	-	-	C-NEN 5754
4	9.01000	B	-	-	-	-

General Mean = 7.66350

Between lab standard deviation SL = .90294

Coefficient of variation = 12 %

Number of laboratories = 15

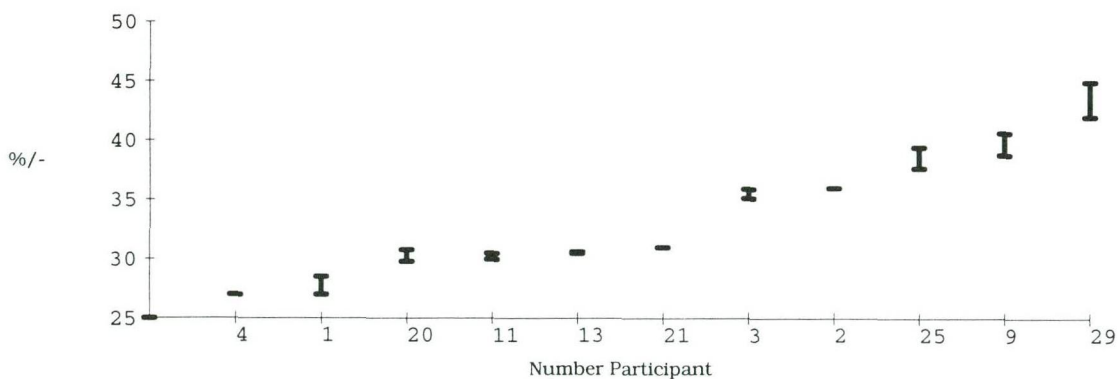
A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 2
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 98 : 99091, 99095

korrelgrootte fractie kleiner dan (in%) 16 um, kgf16 in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	25.95000	28.07000	27.01000	5.6 %	*
2 *	36.00000	36.00000	36.00000	.0 %	*
3 *	34.58000	35.68000	35.13000	2.2 %	*
4 *	27.00000	27.00000	27.00000	.0 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *	37.50000	40.10000	38.80000	4.7 %	*
10 *			.00000	0 %	* - N.V.
11 *	30.34000	29.62000	29.98000	1.7 %	*
12 *			.00000	0 %	* - N.V.
13 *	30.59000	30.39000	30.49000	.5 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *			.00000	0 %	* - N.V.
17 *			.00000	0 %	* - N.V.
18 *			.00000	0 %	* - N.V.
19 *			.00000	0 %	* - N.V.
20 *	29.10000	30.50000	29.80000	3.3 %	*
21 *	31.00000	31.00000	31.00000	.0 %	*
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	38.90000	36.40000	37.65000	4.7 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *			.00000	0 %	* - N.V.
29 *	39.88000	44.06000	41.97000	7.0 %	*

Job 98: korrelgrootte fractie kleiner dan (in%) 16 um



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

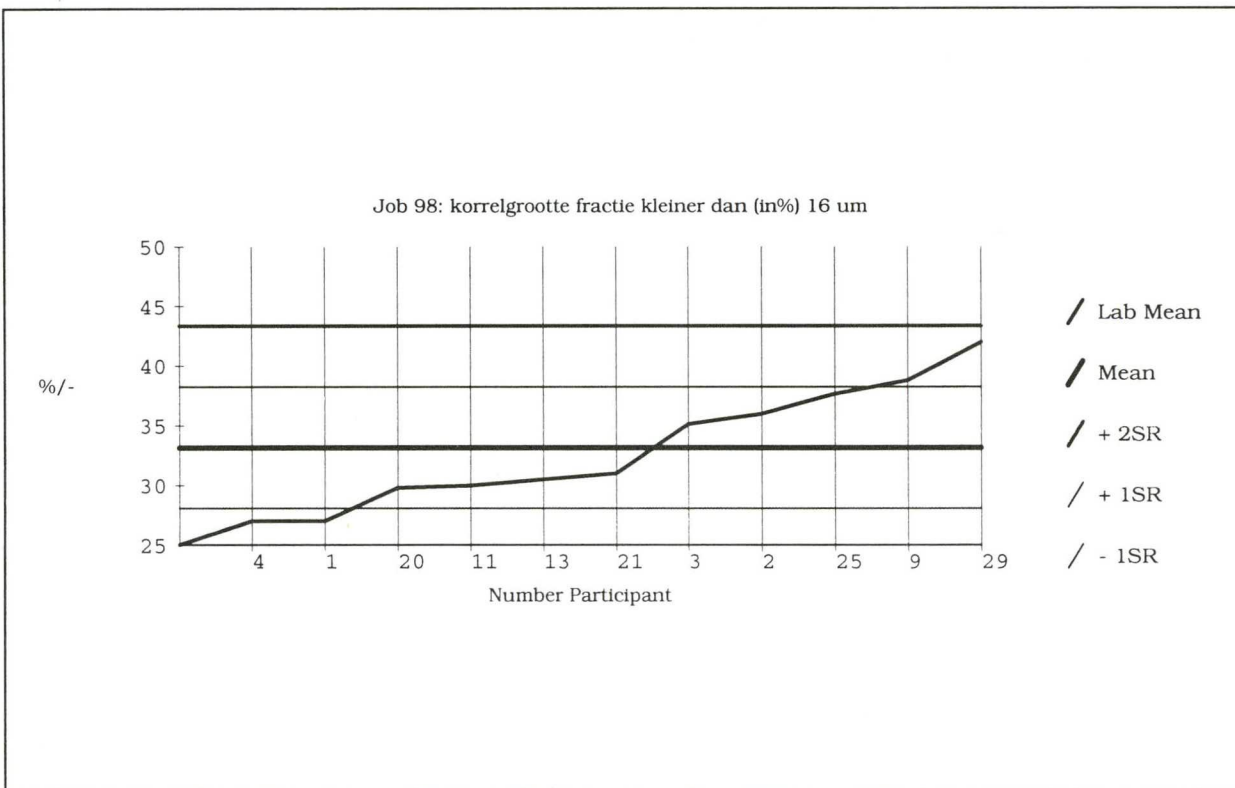
11 laboratory observations

Maximum absolute difference from Normal distribution: 0.21186. Critical value: 0.46800. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 33.16636
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.32640$
 - 3.2 Coefficient of variation = 4 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 5.09208$
 - 4.2 Coefficient of variation = 15 %



Job Classification

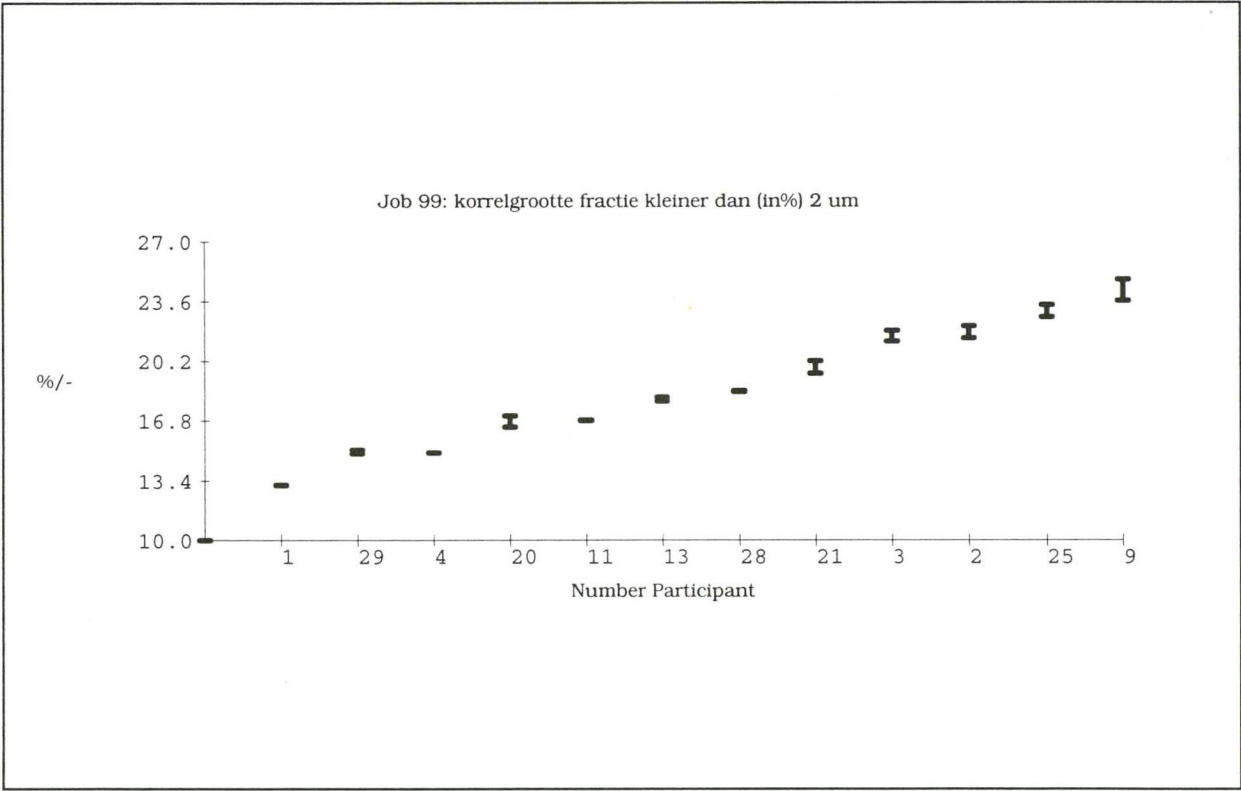
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000	G	* ?	* ?	* ?	* ?	*
19 *	.000000	G	* -	* -	* -	* -	*
24 *	.000000	G	* -	* -	* -	* -	*
8 *	.000000	G	* ?	* ?	* ?	* ?	*
14 *	.000000	G	* -	* -	* -	* -	*
15 *	.000000	G	* ?	* ?	* ?	* ?	*
26 *	.000000	G	* -	* -	* -	* -	*
10 *	.000000	G	* -	* -	* -	* -	*
16 *	.000000	G	* -	* -	* -	* -	*
27 *	.000000	G	* -	* -	* -	* -	*
17 *	.000000	G	* -	* -	* -	* -	*
22 *	.000000	G	* -	* -	* -	* -	*
28 *	.000000	G	* -	* -	* -	* -	*
5 *	.000000	G	* -	* -	* -	* -	*
12 *	.000000	G	* -	* -	* -	* -	*
18 *	.000000	G	* -	* -	* -	* -	*
23 *	.000000	G	* -	* -	* -	* -	*
6 *	.000000	G	* .	* .	* .	* .	*
4 *	27.000000	B	* -	* -	* -	* -	*
1 *	27.01000	B	* -	* -	* -	* C-NEN 5753	*
20 *	29.800000	A	* -	* -	* -	* HUIS	*
11 *	29.980000	A	* -	* -	* -	* C-NEN 5753	*
13 *	30.49000	A	* -	* -	* -	* C-NEN 5753	*
21 *	31.000000	A	* -	* -	* -	* NEN 5753	*
3 *	35.13000	A	* -	* -	* -	* NEN 5753	*
2 *	36.000000	A	* -	* -	* -	* -	*
25 *	37.650000	A	* Z	* -	* Z	* NEN 5753	*
9 *	38.800000	B	* Z	* -	* Z	* -	*
29 *	41.97000	B	* -	* -	* Z	* HUIS	*

General Mean = 33.16636
Between lab standard deviation SL = 4.91630
Coefficient of variation = 15 %
Number of laboratories = 11

A: Number of laboratories with	Z	-scores between 0 and 1	; 7
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 99 : 99091, 99095
 korrelgrootte fractie kleiner dan (in%) 2 um, kgf2 in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	13.16000	13.13000	13.14500	.2 %	*
2 *	21.00000	22.00000	21.50000	3.3 %	*
3 *	20.89000	21.76000	21.32500	2.9 %	*
4 *	15.00000	15.00000	15.00000	.0 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *	22.80000	24.50000	23.65000	5.1 %	*
10 *			.00000	0 %	* - N.V.
11 *	16.84000	16.78000	16.81000	.3 %	*
12 *			.00000	0 %	* - N.V.
13 *	18.08000	17.74000	17.91000	1.3 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *			.00000	0 %	* - N.V.
17 *			.00000	0 %	* - N.V.
18 *			.00000	0 %	* - N.V.
19 *			.00000	0 %	* - N.V.
20 *	16.00000	16.90000	16.45000	3.9 %	*
21 *	19.00000	20.00000	19.50000	3.6 %	*
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	23.20000	22.20000	22.70000	3.1 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *	18.50000	18.40000	18.45000	.4 %	*
29 *	14.81000	15.10000	14.95500	1.4 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

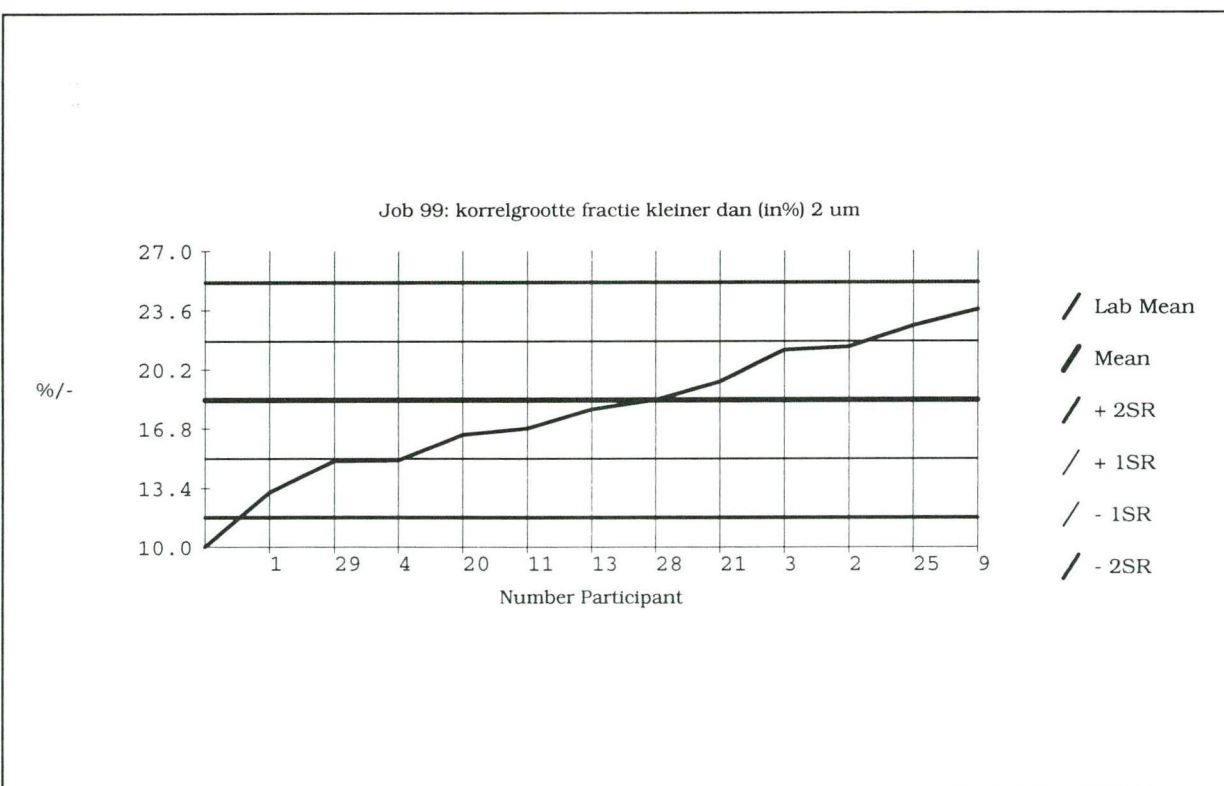
12 laboratory observations

Maximum absolute difference from Normal distribution: 0.10461. Critical value: 0.44900. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 18.44958
3. Repeatability
 - 3.1 Standard deviation $S_r = .56536$
 - 3.2 Coefficient of variation = 3 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 3.36793$
 - 4.2 Coefficient of variation = 18 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	*	*	*	*
19	.00000	G	*	*	*	*
24	.00000	G	*	*	*	*
8	.00000	G	*	*	*	*
14	.00000	G	*	*	*	*
15	.00000	G	*	*	*	*
26	.00000	G	*	*	*	*
10	.00000	G	*	*	*	*
16	.00000	G	*	*	*	*
27	.00000	G	*	*	*	*
17	.00000	G	*	*	*	*
22	.00000	G	*	*	*	*
5	.00000	G	*	*	*	*
12	.00000	G	*	*	*	*
10	.00000	G	*	*	*	*
23	.00000	G	*	*	*	*
6	.00000	G	*	*	*	*
1	13.14500	B	*	*	*	C-NEN 5753
29	14.95500	B	*	*	Z	HUIS
4	15.00000	B	*	*	*	*
20	16.45000	A	*	*	*	HUIS
11	16.81000	A	*	*	*	C-NEN 5753
13	17.91000	A	*	*	*	C-NEN 5753
28	18.45000	A	*	*	*	NEN 5753
21	19.50000	A	*	*	*	NEN 5753
3	21.32500	A	*	*	*	NEN 5753
2	21.50000	A	*	*	*	*
25	22.70000	B	Z	*	Z	NEN 5753
9	23.65000	B	Z	*	Z	*

General Mean = 18.44958

Between lab standard deviation SL = 3.32014

Coefficient of variation = 18 %

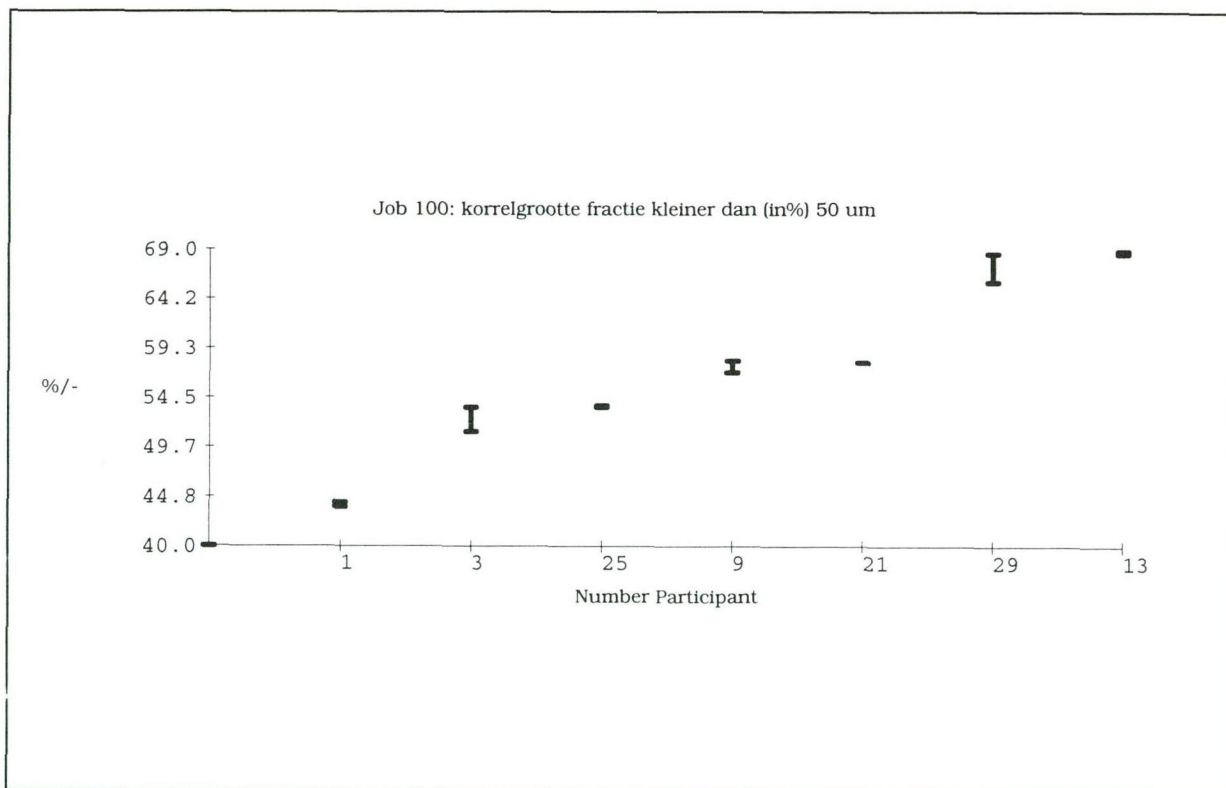
Number of laboratories = 12

A: Number of laboratories with	Z	-scores between 0 and 1	; 7
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 100 : 99091, 99095

korrelgrootte fractie kleiner dan (in%) 50 um, kgf50 in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	44.17000 *	43.51000 *	43.84000 *	1.1 % *
2 *			.00000 *	0 % *
3 *	49.51000 *	52.88000 *	51.19500 *	4.7 % *
4 *			.00000 *	0 % *
5 *			.00000 *	0 % *
6 *			.00000 *	0 % *
7 *			.00000 *	0 % *
8 *			.00000 *	0 % *
9 *	56.20000 *	57.80000 *	57.00000 *	2.0 % *
10 *			.00000 *	0 % *
11 *			.00000 *	0 % *
12 *			.00000 *	0 % *
13 *	68.85000 *	68.43000 *	68.64000 *	.4 % *
14 *			.00000 *	0 % *
15 *			.00000 *	0 % *
16 *			.00000 *	0 % *
17 *			.00000 *	0 % *
18 *			.00000 *	0 % *
19 *			.00000 *	0 % *
20 *			.00000 *	0 % *
21 *	58.00000 *	58.00000 *	58.00000 *	.0 % *
22 *			.00000 *	0 % *
23 *			.00000 *	0 % *
24 *			.00000 *	0 % *
25 *	53.70000 *	53.50000 *	53.60000 *	.3 % *
26 *			.00000 *	0 % *
27 *			.00000 *	0 % *
28 *			.00000 *	0 % *
29 *	63.87000 *	67.83000 *	65.85000 *	4.3 % *



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

7 laboratory observations

Maximum absolute difference from Normal distribution: 0.16257. Critical value: 0.57600. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 56.87500
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.46995$
 - 3.2 Coefficient of variation = 3 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 8.55987$
 - 4.2 Coefficient of variation = 15 %



Job Classification

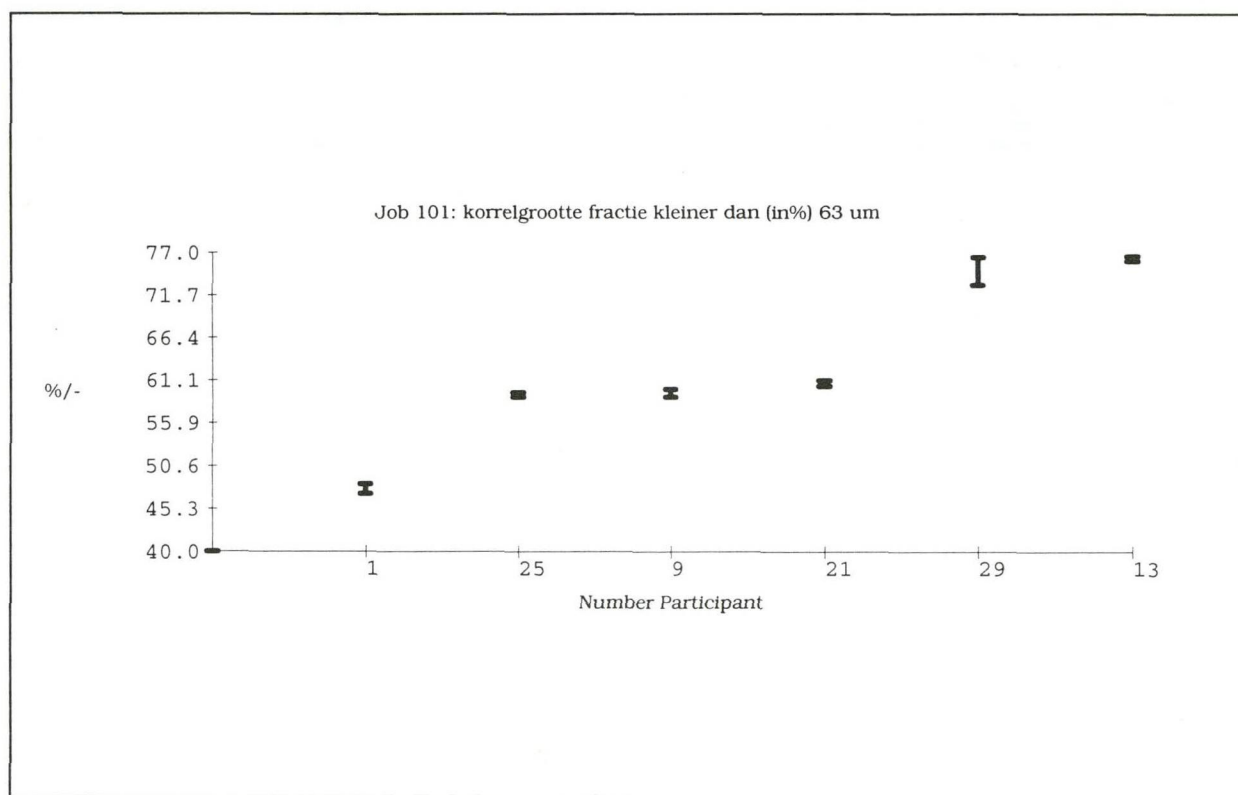
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
19 *	.00000	G	-	-	-	-	*
24 *	.00000	G	-	-	-	-	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
2 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
20 *	.00000	G	-	-	-	-	*
26 *	.00000	G	-	-	-	-	*
10 *	.00000	G	-	-	-	-	*
16 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
4 *	.00000	G	-	-	-	-	*
11 *	.00000	G	-	-	-	-	*
17 *	.00000	G	-	-	-	-	*
22 *	.00000	G	-	-	-	-	*
28 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
12 *	.00000	G	-	-	-	-	*
18 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
1 *	43.84000	B	-	-	-	C-NEN 5753	*
3 *	51.19500	A	-	-	-	NEN 5753	*
25 *	53.60000	A	Z	-	Z	NEN 5753	*
9 *	57.00000	A	Z	-	Z	-	*
21 *	58.00000	A	-	-	-	NEN 5753	*
29 *	65.85000	B	-	-	Z	HUIS	*
13 *	68.64000	B	-	-	-	C-NEN 5753	*

General Mean = 56.87500
Between lab standard deviation SL = 8.43272
Coefficient of variation = 15 %
Number of laboratories = 7

A: Number of laboratories with |Z|-scores between 0 and 1 ; 4
B: Number of laboratories with |Z|-scores between 1 and 2 ; 3
C: Number of laboratories with |Z|-scores between 2 and 3 ; 0
D: Number of laboratories with |Z|-scores larger than 3 ; 0

Job 101 : 99091, 99095
 korrelgrootte fractie kleiner dan (in%) 63 um, kgf63 in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	48.03000	46.34000	47.18500	2.5 %	*
2 *	34.00000	79.00000	56.50000	56.3 %	*
3 *			.00000	0 %	* - N.V.
4 *			.00000	0 %	* - N.V.
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *	58.40000	59.80000	59.10000	1.7 %	*
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *			.00000	0 %	* - N.V.
13 *	76.43000	75.62000	76.02500	.8 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *			.00000	0 %	* - N.V.
17 *			.00000	0 %	* - N.V.
18 *			.00000	0 %	* - N.V.
19 *			.00000	0 %	* - N.V.
20 *			.00000	0 %	* - N.V.
21 *	61.00000	60.00000	60.50000	1.2 %	*
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	59.50000	58.70000	59.10000	1.0 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *			.00000	0 %	* - N.V.
29 *	70.58000	75.48000	73.03000	4.7 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

7 laboratory observations

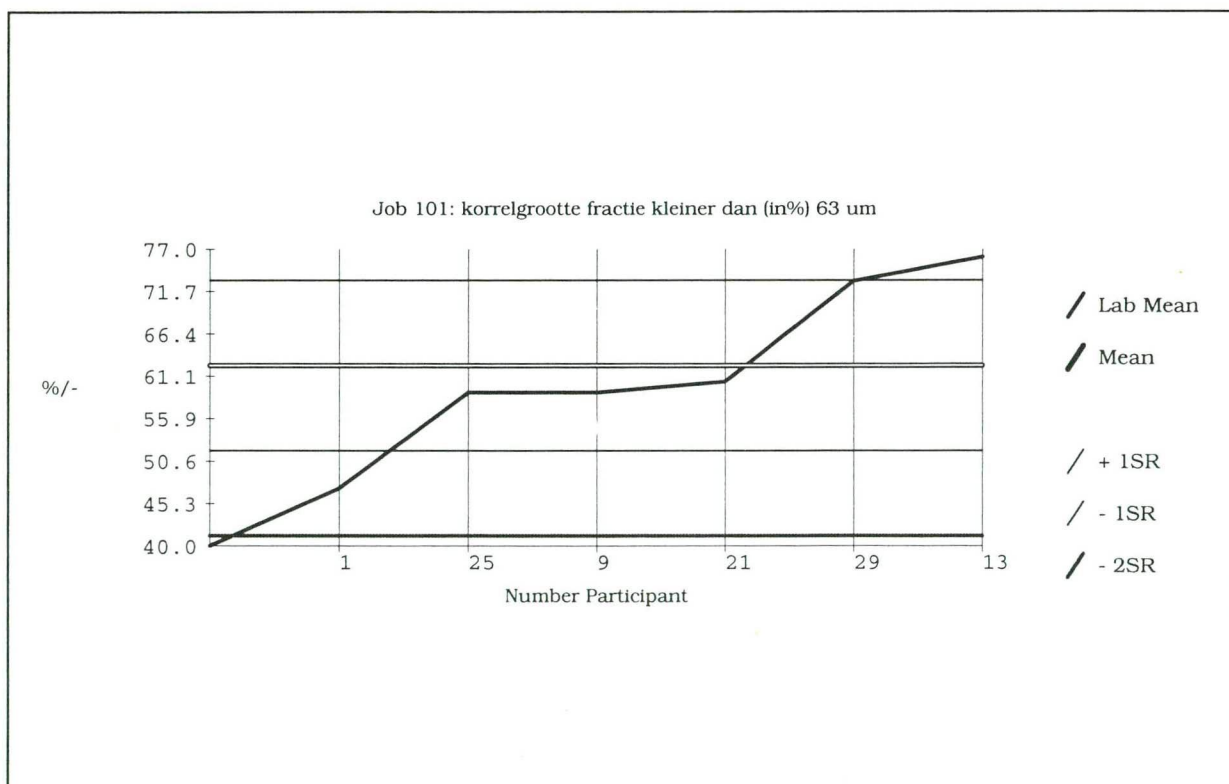
Maximum absolute difference from Normal distribution: 0.25809. Critical value: 0.57600. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	2	56.50000	31.81981	.98486	.83744

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 62.49000
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.61044$
 - 3.2 Coefficient of variation = 3 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 10.60150$
 - 4.2 Coefficient of variation = 17 %



Job Classification

Lab	*	Mean	*	Clas	*	Ext	*	Clean	*	Det	*	Procedure	*
7	*	.00000	*	G	*	?	*	?	*	?	*	?	*
19	*	.00000	*	G	*	-	*	-	*	-	*	-	*
24	*	.00000	*	G	*	-	*	-	*	-	*	-	*
8	*	.00000	*	G	*	?	*	?	*	?	*	?	*
14	*	.00000	*	G	*	-	*	-	*	-	*	-	*
15	*	.00000	*	G	*	?	*	?	*	?	*	?	*
20	*	.00000	*	G	*	-	*	-	*	-	*	-	*
26	*	.00000	*	G	*	-	*	-	*	-	*	-	*
3	*	.00000	*	G	*	-	*	-	*	-	*	-	*
10	*	.00000	*	G	*	-	*	-	*	-	*	-	*
16	*	.00000	*	G	*	-	*	-	*	-	*	-	*
27	*	.00000	*	G	*	-	*	-	*	-	*	-	*
4	*	.00000	*	G	*	-	*	-	*	-	*	-	*
11	*	.00000	*	G	*	-	*	-	*	-	*	-	*
17	*	.00000	*	G	*	-	*	-	*	-	*	-	*
22	*	.00000	*	G	*	-	*	-	*	-	*	-	*
28	*	.00000	*	G	*	-	*	-	*	-	*	-	*
5	*	.00000	*	G	*	-	*	-	*	-	*	-	*
12	*	.00000	*	G	*	-	*	-	*	-	*	-	*
18	*	.00000	*	G	*	-	*	-	*	-	*	-	*
23	*	.00000	*	G	*	-	*	-	*	-	*	-	*
6	*	.00000	*	G	*	-	*	-	*	-	*	-	*
1	*	47.18500	*	B	*	-	*	-	*	-	*	C-NEN 5753	*
2	*	56.50000	*	W	*	-	*	-	*	-	*	-	*
25	*	59.10000	*	A	*	Z	*	-	*	Z	*	NEN 5753	*
9	*	59.10000	*	A	*	Z	*	-	*	Z	*	-	*
21	*	60.50000	*	A	*	-	*	-	*	-	*	NEN 5753	*
29	*	73.03000	*	A	*	-	*	-	*	Z	*	HUIS	*
13	*	76.02500	*	B	*	-	*	-	*	-	*	C-NEN 5753	*

General Mean = 62.49000
Between lab standard deviation SL = 10.47847
Coefficient of variation = 17 %
Number of laboratories = 6

A: Number of laboratories with	Z	-scores between 0 and 1	; 4
B: Number of laboratories with	Z	-scores between 1 and 2	; 2
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0



Dit is een minder milieu belastende inbindmap

Deze BINDOMATIC ECO-map bestaat uit een achterzijde van recycled karton en een voorzijde van PVC-vrije folie.

● chloor-arm ● zwavelvrij ● onschadelijk in de vuilverbranding ● niet van invloed op de kwaliteit van het grond- en oppervlakte water

