

ESTRATIGRAFIA ANALISIS HIDROMETRICO M578 76
54.308 2.650 11 6 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.147	9		400.00	1.32	99.73
2	0.424	12		200.00	2.32	99.22
3	0.831	13		160.00	2.64	98.47
4	1.852	15		100.00	3.32	96.59
5	2.532	17		80.00	3.64	95.34
6	8.244	23		40.00	4.64	84.82

54.308 2.650 11 6 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.6	51.00	41.580	4.588	85.097
2	3	18.6	49.00	24.502	5.351	81.415
3	5	18.6	47.00	19.356	5.691	77.732
4	7	18.6	40.00	17.428	5.842	64.843
5	10	18.6	38.00	14.827	6.076	61.160
6	15	18.6	33.00	12.593	6.311	51.953
7	60	18.6	22.00	6.801	7.200	31.698
8	180	18.6	17.00	4.052	7.947	22.492
9	360	18.6	15.00	2.900	8.430	18.809
10	1400	18.5	13.00	1.489	9.391	15.181
11	2840	18.7	10.50	1.053	9.891	10.468

PESO	MICRAS	PHI
10.000	1.009	9.953
10.468	1.053	9.891
15.000	1.472	9.408
15.181	1.489	9.391
16.000	1.753	9.156
18.809	2.900	8.430
20.000	3.252	8.264
22.337	4.000	7.966
22.492	4.052	7.947
25.000	4.753	7.717
30.000	6.258	7.320
31.698	6.801	7.200
35.000	7.695	7.022
40.000	9.089	6.782
45.000	10.527	6.570
50.000	12.005	6.380
51.953	12.593	6.311
55.000	13.332	6.229
60.000	14.545	6.103
61.160	14.827	6.076
64.843	17.428	5.842
65.000	17.452	5.840
70.000	18.217	5.779
75.000	18.959	5.721
77.732	19.356	5.691
80.000	22.409	5.480
81.415	24.502	5.351
84.000	35.605	4.812
85.000	41.016	4.608
83.033	31.000	5.012
85.097	41.580	4.588
84.820	40.000	4.644
90.000	56.848	4.137
95.000	78.333	3.674
95.338	80.000	3.644
96.590	100.000	3.322
97.478	125.000	3.000
98.470	160.000	2.644
99.000	187.369	2.416
99.220	200.000	2.322
99.730	400.000	1.322

CLASIFICACION	1.997
Q, DE PHI	0.997
ASIMETRIA	0.625
ASIMETRIA EN PHI	0.277
DESV. DE CUARTILES	7.103
DESV. EN PHI	2.172
ANGULOSIDAD	0.169
TAMAÑO MEDIO DE GRANO	6.983

FIN DE PROBLEMA

ESTRATIGRAFIA		ANALISIS HIDROMETRICO			M585	76
173.465	2.650	6	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.356	9		400.00	1.32	99.80
2	1.002	12		200.00	2.32	99.42
3	1.280	13		160.00	2.64	99.26
4	1.774	15		100.00	3.32	98.98
5	1.997	17		80.00	3.64	98.85
6	2.958	23		40.00	4.64	98.30

173.465	2.650	6	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	15	20.5	60.00	9.445	6.726	32.202
2	60	20.5	42.00	5.711	7.452	21.825
3	180	20.5	25.00	3.758	8.056	12.025
4	1235	19.5	13.00	1.564	9.321	4.940
5	2865	19.8	12.00	1.027	9.927	4.312
6	4135	19.5	11.50	0.857	10.188	4.075

PESO	MICRAS	PHI
4.075	0.857	10.188
4.312	1.027	9.927
4.940	1.564	9.321
10.000	3.133	8.318
12.025	3.758	8.056
15.000	4.388	7.832
16.000	4.592	7.767
20.000	5.371	7.540
13.143	4.000	7.966
21.825	5.711	7.452
25.000	6.807	7.199
30.000	8.618	6.858
32.202	9.445	6.726
35.000	10.519	6.571
40.000	12.502	6.322
45.000	14.560	6.102
50.000	16.686	5.905
55.000	18.875	5.727
60.000	21.123	5.565
65.000	23.428	5.416
70.000	25.784	5.277
75.000	28.191	5.149
80.000	30.646	5.028
84.000	32.642	4.937
85.000	33.145	4.915
90.000	35.689	4.808
95.000	38.274	4.707
80.713	31.000	5.012
98.295	40.000	4.644
98.849	80.000	3.644
98.978	100.000	3.322
99.000	103.720	3.269
99.113	125.000	3.000
99.263	160.000	2.644
99.423	200.000	2.322
99.79"	400.000	1.322
CLASIFICACION	2.035	
Q, DE PHI	1.025	
ASIMETRIA	0.689	
ASIMETRIA EN PHI	0.315	
DESV, DE CUARTILES	10.692	

DESV. EN PHI	1.414
ANGULOSIDAD	0.432
TAMANO MEDIO DE GRANO	6.351
FIN DE PROBLEMA	

32-20 AN-MD - 300

ESTRATIGRAFIA ANALISIS HIDROMETRICO M450 76

86.737 2.650 11 10 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)	MICRAS	PHI	% PESO
1	0.012 5	1000.00	0.00	99.99
2	0.022 6	800.00	0.32	99.98
3	0.067 8	500.00	1.00	99.92
4	1.864 10	315.00	1.67	97.85
5	24.398 12	200.00	2.32	71.87
6	40.495 13	160.00	2.64	53.31
7	65.692 15	100.00	3.32	24.26
8	71.811 17	80.00	3.64	17.21
9	77.790 19	63.00	3.99	10.32
10	79.794 23	40.00	4.64	8.01

110021002 11 1100 1121 1128 1133 1124 1122 1120 1123

113

86.737 2.650 11 10 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)	MICRAS	PHI	% PESO
1	1 18.5 13.00	55.760	4.165	9.505
2	3 18.5 11.00	32.565	4.941	7.199
3	5 18.5 10.00	25.368	5.301	6.047
4	7 18.5 9.00	21.560	5.535	4.894
5	10 18.5 9.00	18.038	5.793	4.894
6	15 18.5 8.00	14.810	6.077	3.741
7	60 18.5 8.00	7.404	7.077	3.741
8	180 18.5 7.50	4.286	7.866	3.164
9	360 18.5 7.50	3.031	8.366	3.164
10	1400 18.5 7.00	1.539	9.344	2.588
11	2839 18.5 7.00	1.077	9.859	2.588

PESO	MICRAS	PHI
2.588	1.077	9.859
2.588	1.539	9.344
3.164	3.031	8.366
3.164	4.000	7.966
3.164	4.286	7.866
3.741	7.404	7.077
3.741	14.810	6.077
4.894	18.038	5.793
4.894	21.560	5.535
6.047	25.368	5.301
6.956	31.000	5.012
7.199	32.565	4.941
9.505	55.760	4.165
8.005	40.000	4.644
10.000	59.585	4.069
10.316	63.000	3.989
15.000	75.030	3.736
16.000	77.325	3.693
17.209	80.000	3.644
20.000	88.203	3.503
24.264	100.000	3.322
25.000	101.800	3.296
30.000	113.507	3.139
35.000	124.450	3.006
40.000	134.779	2.891
45.000	144.598	2.790
50.000	153.987	2.699
35.259	125.000	3.000
53.313	160.000	2.644
55.000	163.767	2.610
60.000	174.766	2.517
65.000	185.534	2.430
70.000	196.095	2.350
71.872	200.000	2.322
75.000	212.945	2.231
80.000	234.170	2.094
84.000	251.609	1.991
85.000	256.031	1.966
90.000	278.508	1.844
95.000	301.582	1.729
97.851	315.000	1.667

99.000	407.490	1.295
99.923	500.000	1.000
99.975	800.000	0.322
99.987	1000.000	0.000
CLASIFICACION	1.446	
Q, DE PHI	0.532	
ASIMETRIA	0.914	
ASIMETRIA EN PHI	0.166	
DESV, DE CUARTILES	55.572	
DESV. EN PHI	0.851	
ANGULOSIDAD	0.486	
TAMANO MEDIO DE GRANO	2.841	

FIN DE PROBLEMA

92.749	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.252	5		1000.00	0.00	99.73
2	0.339	6		800.00	0.32	99.64
3	0.674	8		500.00	1.00	99.27
4	2.043	10		315.00	1.67	97.80
5	8.798	12		200.00	2.32	90.52
6	16.378	13		160.00	2.64	82.34
7	29.678	15		100.00	3.32	68.00
8	35.875	17		80.00	3.64	61.32
9	46.137	19		63.00	3.99	50.26
10	50.981	23		40.00	4.64	45.03

92.749	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	47.00	43.338	4.528	45.547
2	3	18.5	44.00	25.734	5.280	42.313
3	5	18.5	41.00	20.471	5.610	39.078
4	7	18.5	38.00	17.744	5.817	35.844
5	10	18.5	23.00	16.574	5.915	19.671
6	15	18.5	20.00	13.797	6.180	16.436
7	60	18.5	16.00	7.071	7.144	12.124
8	180	18.5	13.00	4.154	7.911	8.889
9	360	18.5	12.00	2.955	8.403	7.811
10	1395	18.5	10.00	1.516	9.366	5.655
11	2835	18.5	10.00	1.061	9.880	5.655

PESO	MICRAS	PHI
5.655	1.061	9.880
5.655	1.516	9.366
7.811	2.955	8.403
8.762	4.000	7.966
8.889	4.154	7.911
10.000	5.083	7.620
12.124	7.071	7.144
15.000	11.286	6.469
16.000	13.005	6.265
16.436	13.797	6.180
19.671	16.574	5.915
20.000	16.605	5.912
25.000	17.031	5.876
30.000	17.388	5.846
35.000	17.696	5.820
35.844	17.744	5.817
39.078	20.471	5.610
40.000	21.891	5.513
42.313	25.734	5.280
45.000	39.786	4.652
43.441	31.000	5.012
45.547	43.338	4.528
45.034	40.000	4.644
50.000	61.677	4.019
50.257	63.000	3.989
55.000	70.204	3.832
60.000	77.935	3.682
61.321	80.000	3.644
65.000	90.717	3.462
68.002	100.000	3.322
70.000	107.372	3.219
75.000	127.201	2.975
80.000	149.053	2.746
74.469	125.000	3.000
82.342	160.000	2.644
84.000	167.701	2.576
85.000	172.447	2.536
90.000	197.327	2.341
90.515	200.000	2.322
95.000	265.655	1.912
97.798	315.000	1.667

99.000	459.161	1.123
99.274	500.000	1.000
99.635	800.000	0.322
99.729	1000.000	0.000
CLASIFICACION		
Q, DE PHI	2.732	
ASIMETRIA	1.449	
ASIMETRIA EN PHI	0.569	
DESV, DE CUARTILES	0.217	
DESV. EN PHI	55.085	
ANGULOSIDAD	1.844	
TAMAÑO MEDIO DE GRANO	0.330	
	4.420	
FIN DE PROBLEMA		

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M452	76
69.786	2.650	11	10	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.435	5		1000.00	0.00	99.38	
2	0.570	6		800.00	0.32	99.18	
3	0.905	8		500.00	1.00	98.70	
4	2.296	10		315.00	1.67	96.71	
5	9.616	12		200.00	2.32	86.22	
6	19.574	13		160.00	2.64	71.95	
7	34.217	15		100.00	3.32	50.97	
8	38.837	17		80.00	3.64	44.35	
9	45.627	19		63.00	3.99	34.62	
10	48.447	23		40.00	4.64	30.58	

69.786	2.650	11	10	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	1	18.5	28.00	50.657	4.303	33.308	
2	3	18.5	24.00	30.060	5.056	27.577	
3	5	18.5	15.00	24.644	5.343	14.680	
4	7	18.5	14.00	20.952	5.577	13.247	
5	10	18.5	13.00	17.632	5.826	11.814	
6	15	18.5	13.00	14.397	6.118	11.814	
7	60	18.5	10.00	7.322	7.094	7.515	
8	180	18.5	9.00	4.251	7.878	6.082	
9	360	18.5	9.00	3.006	8.378	6.082	
10	1380	18.5	8.50	1.539	9.344	5.366	
11	2820	18.5	8.00	1.077	9.859	4.649	

PESO	MICRAS	PHI
4.649	1.077	9.859
5.366	1.539	9.344
6.082	3.006	8.378
6.082	4.000	7.966
6.082	4.251	7.878
7.515	7.322	7.094
10.000	11.221	6.478
11.814	14.397	6.118
11.814	17.632	5.826
13.247	20.952	5.577
14.680	24.644	5.343
15.000	24.812	5.333
16.000	25.321	5.303
20.000	27.166	5.202
25.000	29.145	5.101
27.577	30.060	5.056
30.000	37.938	4.720
27.886	31.000	5.012
33.308	50.657	4.303
30.578	40.000	4.644
34.619	63.000	3.989
35.000	63.668	3.973
40.000	72.419	3.787
44.349	80.000	3.644
45.000	81.892	3.610
50.000	96.968	3.366
50.969	100.000	3.322
55.000	110.933	3.172
60.000	124.904	3.001
65.000	139.304	2.844
70.000	154.112	2.698
60.034	125.000	3.000
71.952	160.000	2.644
75.000	168.401	2.570
80.000	182.354	2.455
84.000	193.665	2.368
85.000	196.512	2.347
86.221	200.000	2.322
90.000	236.998	2.077
95.000	293.533	1.768
96.710	315.000	1.667

98.704	500.000	1.000
99.000	668.372	0.581
99.184	800.000	0.322
99.377	1000.000	0.000
CLASIFICACION		
Q, DE PHI	2.403	
ASIMETRIA	1.264	
ASIMETRIA EN PHI	0.521	
DESV, DE CUARTILES	0.319	
DESV, EN PHI	69.628	
ANGULOSIDAD	1.467	
TAMANO MEDIO DE GRANO	0.372	
	3.835	

FIN DE PROBLEMA

ESTRATIGRAFIA ANALISIS HIDROMETRICO M453 76

81.467	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.087	5		1000.00	0.00	99.89
2	0.139	6		800.00	0.32	99.83
3	0.269	8		500.00	1.00	99.67
4	0.474	10		315.00	1.67	99.42
5	1.070	12		200.00	2.32	98.69
6	1.864	13		160.00	2.64	97.71
7	6.459	15		100.00	3.32	92.07
8	10.584	17		80.00	3.64	87.01
9	23.224	19		63.00	3.99	71.49
10	31.185	23		40.00	4.64	61.72

81.467	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	55.00	39.857	4.649	61.675
2	3	18.5	50.00	24.287	5.364	55.537
3	5	18.5	48.00	19.193	5.703	53.082
4	7	18.5	45.00	16.693	5.905	49.400
5	10	18.5	43.00	14.223	6.136	46.945
6	15	18.5	35.00	12.416	6.332	37.125
7	60	18.5	20.00	6.898	7.180	18.713
8	180	18.5	17.00	4.057	7.945	15.030
9	360	18.5	15.00	2.904	8.428	12.575
10	1390	18.5	13.00	1.493	9.388	10.120
11	2830	18.5	12.00	1.050	9.895	8.893

PESO	MICRAS	PHI
8.893	1.050	9.895
10.000	1.445	9.434
10.120	1.493	9.388
12.575	2.904	8.428
15.000	4.041	7.951
14.917	4.000	7.966
15.030	4.057	7.945
16.000	4.720	7.727
18.713	6.898	7.180
20.000	7.303	7.097
25.000	8.844	6.821
30.000	10.341	6.595
35.000	11.803	6.405
37.125	12.416	6.332
40.000	12.963	6.269
45.000	13.878	6.171
46.945	14.223	6.136
49.400	16.693	5.905
50.000	17.088	5.871
53.082	19.193	5.703
55.000	23.088	5.437
55.537	24.287	5.364
60.000	34.994	4.837
58.481	31.000	5.012
61.675	39.857	4.649
61.721	40.000	4.644
65.000	46.939	4.413
70.000	59.022	4.083
71.493	63.000	3.989
75.000	66.778	3.904
80.000	72.231	3.791
84.000	76.647	3.706
85.000	77.759	3.685
87.009	80.000	3.644
90.000	91.412	3.451
92.072	100.000	3.322
95.000	128.082	2.965
94.708	125.000	3.000
97.712	160.000	2.644
98.687	200.000	2.322
99.000	243.000	2.041

99.419	315.000	1.667
99.670	500.000	1.000
99.830	800.000	0.322
99.894	1000.000	0.000
CLASIFICACION	2.747	
Q, DE PHI	1.457	
ASIMETRIA	2.022	
ASIMETRIA EN PHI	-0.077	
DESV, DE CUARTILES	28.967	
DESV, EN PHI	2.010	
ANGULOSIDAD	0.371	
TAMAÑO MEDIO DE GRANO	5.715	

FIN DE PROBLEMA

32-20 AD-MD 304

ESTRATIGRAFIA ANALISIS HIDROMETRICO M454 76

105.523	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.203	5		1000.00	0.00	99.81
2	0.268	6		800.00	0.32	99.75
3	0.479	8		500.00	1.00	99.55
4	1.109	10		315.00	1.67	98.95
5	4.897	12		200.00	2.32	95.36
6	12.761	13		160.00	2.64	87.91
7	44.348	15		100.00	3.32	57.97
8	57.645	17		80.00	3.64	45.37
9	75.553	19		63.00	3.99	28.40
10	81.587	23		40.00	4.64	22.68

105.523	2.650	11	10	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	30.00	49.937	4.324	23.923
2	3	18.5	27.00	29.452	5.085	21.080
3	5	18.5	23.00	23.439	5.415	17.290
4	7	18.5	20.00	20.198	5.630	14.447
5	10	18.5	14.00	17.529	5.834	8.761
6	15	18.5	13.00	14.397	6.118	7.813
7	60	18.5	12.50	7.218	7.114	7.339
8	180	18.5	12.50	4.167	7.907	7.339
9	360	18.5	12.00	2.955	8.403	6.865
10	1380	18.5	10.50	1.520	9.362	5.444
11	2820	18.5	10.00	1.066	9.874	4.970

PESO	MICRAS	PHI
4.970	1.066	9.874
5.444	1.520	9.362
6.865	2.955	8.403
7.281	4.000	7.966
7.339	4.167	7.907
7.339	7.218	7.114
7.813	14.397	6.118
8.761	17.529	5.834
10.000	18.198	5.780
14.447	20.198	5.630
15.000	20.836	5.585
16.000	21.980	5.508
17.290	23.439	5.415
20.000	27.720	5.173
21.080	29.452	5.085
21.340	31.000	5.012
23.923	49.937	4.324
22.684	40.000	4.644
25.000	48.682	4.360
28.402	63.000	3.989
30.000	64.783	3.948
35.000	70.081	3.835
40.000	75.019	3.737
45.000	79.664	3.650
45.373	80.000	3.644
50.000	87.395	3.516
55.000	95.318	3.391
57.974	100.000	3.322
60.000	103.954	3.266
65.000	113.786	3.136
70.000	123.717	3.015
75.000	133.739	2.903
80.000	143.848	2.797
84.000	151.994	2.718
85.000	154.039	2.699
70.643	125.000	3.000
87.907	160.000	2.644
90.000	170.664	2.551
95.000	197.937	2.337
95.360	200.000	2.322
98.950	315.000	1.667

99.000	327.493	1.610
99.547	500.000	1.000
99.747	800.000	0.322
99.808	1000.000	0.000
CLASIFICACION	1.657	
Q, DE PHI	0.728	
ASIMETRIA	0.852	
ASIMETRIA EN PHI	0.427	
DESV, DE CUARTILES	42.528	
DESV. EN PHI	1.395	
ANGULOSIDAD	0.438	
TAMANO MEDIO DE GRAND	4.112	

FIN DE PROBLEMA

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M455	76
90.289	2.650	11	10	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.230	5		1000.00	0.00	99.75	
2	0.292	6		800.00	0.32	99.68	
3	0.437	8		500.00	1.00	99.52	
4	0.620	10		315.00	1.67	99.31	
5	0.911	12		200.00	2.32	98.99	
6	1.469	13		160.00	2.64	98.37	
7	6.617	18		71.00	3.82	92.67	
8	13.792	17		80.00	3.64	84.73	
9	38.257	19		63.00	3.99	57.63	
10	50.426	23		40.00	4.64	44.15	

90.289	2.650	11	10	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	1	18.5	45.00	44.165	4.501	44.573	
2	3	18.5	43.00	25.968	5.267	42.358	
3	5	18.5	42.00	20.294	5.623	41.250	
4	7	18.5	35.00	18.176	5.782	33.497	
5	10	18.5	30.00	15.791	5.985	27.960	
6	15	18.5	27.00	13.171	6.246	24.637	
7	60	18.5	16.00	7.071	7.144	12.454	
8	180	18.5	13.00	4.154	7.911	9.131	
9	360	18.5	12.00	2.955	8.403	8.024	
10	1370	18.5	11.00	1.520	9.362	6.916	
11	2810	18.5	10.00	1.066	9.874	5.809	

PESO	MICRAS	PHI
5.809	1.066	9.874
6.916	1.520	9.362
8.024	2.955	8.403
9.001	4.000	7.966
9.131	4.154	7.911
10.000	4.854	7.686
12.454	7.071	7.144
15.000	8.377	6.899
16.000	8.885	6.814
20.000	10.890	6.521
24.637	13.171	6.246
25.000	13.450	6.216
27.960	15.791	5.985
30.000	16.680	5.906
33.497	18.176	5.782
35.000	18.603	5.748
40.000	19.966	5.646
41.250	20.294	5.623
42.358	25.968	5.267
43.084	31.000	5.012
44.573	44.165	4.501
44.151	40.000	4.644
45.000	41.320	4.597
50.000	49.452	4.338
55.000	58.178	4.103
57.629	63.000	3.989
60.000	64.594	3.952
65.000	67.880	3.881
70.000	71.071	3.815
75.000	74.176	3.753
80.000	77.204	3.695
84.000	79.575	3.652
84.725	80.000	3.644
85.000	79.655	3.650
90.000	73.819	3.760
92.672	71.000	3.816
95.000	99.514	3.329
96.605	125.000	3.000
98.374	160.000	2.644
98.992	200.000	2.322
99.000	202.324	2.305

99.314	315.000	1.667
99.516	500.000	1.000
99.677	800.000	0.322
99.746	1000.000	0.000
CLASIFICACION	2.348	
Q, DE PHI	1.231	
ASIMETRIA	0.407	
ASIMETRIA EN PHI	0.566	
DESV, DE CUARTILES	30.363	
DESV, EN PHI	1.581	
ANGULOSIDAD	0.537	
TAMAÑO MEDIO DE GRANO	5.232	

FIN DE PROBLEMA

ESTRATIGRAFIA			ANALISIS HIDROMETRICO			M580	76
105.003	2.650	11	6	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.075	9		400.00	1.32	99.93	
2	16.167	12		200.00	2.32	84.60	
3	36.619	13		160.00	2.64	65.13	
4	58.773	15		100.00	3.32	44.03	
5	65.370	17		80.00	3.64	37.75	
6	79.262	23		40.00	4.64	24.52	

105.003	2.650	11	6	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	1	20.5	31.00	48.337	4.371	25.580	
2	3	20.5	28.00	28.517	5.132	22.723	
3	5	20.5	22.00	23.005	5.442	17.009	
4	7	20.5	20.00	19.694	5.666	15.104	
5	10	20.5	19.00	16.581	5.914	14.151	
6	15	20.5	17.00	13.707	6.189	12.247	
7	60	20.5	15.00	6.936	7.172	10.342	
8	180	20.5	11.00	4.098	7.931	6.533	
9	1260	19.5	10.00	1.574	9.311	5.304	
10	2690	19.8	8.00	1.086	9.847	3.314	
11	4160	19.5	7.50	0.877	10.155	2.923	

PESO	MICRAS	PHI
2.923	0.877	10.155
3.314	1.086	9.847
5.304	1.574	9.311
6.499	4.000	7.966
6.533	4.098	7.931
10.000	6.673	7.227
10.342	6.936	7.172
12.247	13.707	6.189
14.151	16.581	5.914
15.104	19.337	5.692
15.104	19.694	5.666
16.000	21.236	5.557
17.009	23.005	5.442
20.000	25.941	5.269
22.723	28.517	5.132
25.000	43.641	4.518
23.153	31.000	5.012
25.580	48.337	4.371
24.515	40.000	4.644
30.000	55.322	4.176
35.000	70.863	3.819
37.745	80.000	3.644
40.000	87.018	3.523
44.028	100.000	3.322
45.000	102.656	3.284
50.000	116.498	3.102
55.000	130.620	2.937
60.000	145.003	2.786
65.000	159.628	2.647
53.021	125.000	3.000
65.126	160.000	2.644
70.000	170.157	2.555
75.000	180.469	2.470
80.000	190.680	2.391
84.000	198.782	2.331
84.604	200.000	2.322
85.000	203.927	2.294
90.000	258.720	1.951
95.000	324.039	1.626
99.000	384.745	1.378
99.929	400.000	1.322

CL SIFICACION	2.033
Q, DE PHI	1.023
ASIMETRIA	0.580
ASIMETRIA EN PHI	0.522
DESV. DE CUARTILES	68.414
DESV. EN PHI	1.613
ANGULOSIDAD	0.358
TAMANO MEDIO DE GRANO	3.943
FIN DE PROBLEMA	

ESTRATIGRAFIA		ANALISIS HIDROMETRICO			M581	76
89.223	2.650	11	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	2.035	9		400.00	1.32	97.72
2	2.401	12		200.00	2.32	97.31
3	3.150	13		160.00	2.64	96.47
4	6.402	15		100.00	3.32	92.83
5	8.862	17		80.00	3.64	90.07
6	32.619	23		40.00	4.64	63.44

89.223	2.650	11	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	20.5	60.00	36.582	4.773	62.607
2	3	20.5	56.00	22.180	5.495	58.124
3	5	20.5	"0.00	18.343	5.769	51.399
4	7	20.5	47.00	15.971	5.968	48.036
5	10	20.5	42.00	13.992	6.159	42.432
6	15	20.5	38.00	11.819	6.403	37.949
7	60	20.5	28.00	6.376	7.293	26.741
8	180	20.5	21.00	3.858	8.018	18.896
9	1255	19.5	15.00	1.534	9.348	11.846
10	2685	19.8	13.00	1.054	9.890	9.504
11	4155	19.5	12.00	0.857	10.188	8.484

PESO	MICRAS	PHI
8.484	0.857	10.188
9.504	1.054	9.890
10.000	1.149	9.765
11.846	1.534	9.348
15.000	2.445	8.676
16.000	2.777	8.492
18.896	3.858	8.018
20.000	4.188	7.899
25.000	5.784	7.434
19.374	4.000	7.966
26.741	6.376	7.293
30.000	7.809	7.001
35.000	10.248	6.609
37.949	11.819	6.403
40.000	12.797	6.288
42.432	13.992	6.159
45.000	14.896	6.069
48.036	15.971	5.968
50.000	17.335	5.850
51.399	18.343	5.769
55.000	20.365	5.618
58.124	22.180	5.495
60.000	27.470	5.186
61.087	31.000	5.012
62.607	36.582	4.773
63.442	40.000	4.644
65.000	41.966	4.575
70.000	48.591	4.363
75.000	55.696	4.166
80.000	63.279	3.982
84.000	69.691	3.843
85.000	71.341	3.809
90.000	79.880	3.646
90.068	80.000	3.644
92.825	100.000	3.322
95.000	132.664	2.914
94.538	125.000	3.000
96.470	160.000	2.644
97.309	200.000	2.322
97.720	400.000	1.322
99.000	3401.230	-1.766

CLASIFICACION	3.103
Q, DE PHI	1.633
ASIMETRIA	1.072
ASIMETRIA EN PHI	0.135
DESV, DE CUARTILES	24.956
DESV. EN PHI	2.324
ANGULOSIDAD	0.353
TAMANO MEDIO DE GRANO	6.166
FIN DE PROBLEMA	

ESTRATIGRAFIA ANALISIS HIDROMETRICO M582 76
71.738 2.650 11 6 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	2.894	9		400.00	1.32	95.97
2	3.132	12		200.00	2.32	95.64
3	3.566	13		160.00	2.64	95.03
4	4.816	15		100.00	3.32	93.29
5	7.117	17		80.00	3.64	90.08
6	16.054	23		40.00	4.64	77.62

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	20.5	59.00	37.049	4.754	76.472
2	3	20.5	54.00	22.692	5.462	69.502
3	5	20.5	49.00	18.530	5.754	62.533
4	7	20.5	48.00	15.817	5.982	61.139
5	10	20.5	47.00	13.363	6.226	59.745
6	15	20.5	46.00	11.015	6.504	58.351
7	60	20.5	42.00	5.711	7.452	52.775
8	180	20.5	38.00	3.411	8.196	47.199
9	1250	19.5	35.00	1.341	9.542	42.613
10	2680	19.8	33.00	0.924	10.080	39.699
11	4150	19.5	32.00	0.752	10.377	38.431

PESO	MICRAS	PHI
10.000	0.000	22.701
15.000	0.001	18.990
16.000	0.002	18.399
20.000	0.011	16.356
25.000	0.049	14.313
30.000	0.156	12.644
35.000	0.415	11.233
38.431	0.752	10.377
39.699	0.924	10.080
40.000	0.961	10.023
42.613	1.341	9.542
45.000	2.206	8.824
47.199	3.411	8.196
50.000	4.450	7.812
48.856	4.000	7.966
52.775	5.711	7.452
55.000	7.481	7.062
58.351	11.015	6.504
59.745	13.363	6.226
60.000	13.785	6.181
61.139	15.817	5.982
62.533	18.530	5.754
65.000	19.957	5.647
69.502	22.692	5.462
70.000	23.538	5.409
75.000	33.533	4.898
73.860	31.000	5.012
76.472	37.049	4.754
77.622	40.000	4.644
80.000	46.035	4.441
84.000	57.778	4.113
85.000	61.051	4.034
90.000	79.670	3.650
90.080	80.000	3.644
93.287	100.000	3.322
95.000	158.729	2.655
94.110	125.000	3.000
95.030	160.000	2.644
95.635	200.000	2.322
95.966	400.000	1.322
99.000	6053.000	-7.687

CLASIFICACION	26.160
Q, DE PHI	4.709
ASIMETRIA	0.082
AS-METRIA EN PHI	0.482
DESV, DE CUARTILES	16.742
DESV. EN PHI	7.142
ANGULOSIDAD	0.210
TAMANO MEDIO DE GRANO	11.255

32-20 AD-MD 333

ESTRATIGRAFIA		ANALISIS HIDROMETRICO			M583	76
125.831	2.650	6	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.020	9		400.00	1.32	99.99
2	0.090	12		200.00	2.32	99.93
3	0.208	13		160.00	2.64	99.84
4	0.700	15		100.00	3.32	99.44
5	1.082	17		80.00	3.64	99.14
6	4.951	23		40.00	4.64	96.07

125.831	2.650	6	6	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	15	20.5	60.00	9.445	6.726	44.392
2	60	20.5	46.00	5.507	7.505	33.266
3	180	20.5	29.00	3.654	8.096	19.756
4	1245	19.5	14.00	1.549	9.334	7.605
5	2875	19.8	12.00	1.027	9.927	5.944
6	4145	19.5	11.50	0.857	10.188	5.618

PESO	MICRAS	PHI
5.618	0.857	10.188
5.944	1.027	9.927
7.605	1.549	9.334
10.000	1.981	8.979
15.000	2.852	8.453
16.000	3.023	8.370
19.756	3.654	8.096
20.000	3.689	8.082
25.000	4.397	7.829
30.000	5.076	7.622
22.162	4.000	7.966
33.266	5.507	7.505
35.000	6.055	7.367
40.000	7.773	7.007
44.392	9.445	6.726
45.000	9.688	6.690
50.000	11.797	6.405
55.000	14.099	6.148
60.000	16.590	5.914
65.000	19.268	5.698
70.000	22.132	5.498
75.000	25.179	5.312
80.000	28.408	5.138
84.000	31.122	5.006
85.000	31.818	4.974
90.000	35.407	4.820
95.000	39.174	4.674
83.823	31.000	5.012
96.066	40.000	4.644
99.000	77.536	3.689
99.141	80.000	3.644
99.444	100.000	3.322
99.629	125.000	3.000
99.835	160.000	2.644
99.929	200.000	2.322
99.985	400.000	1.322
CLASIFICACION	2.392	
Q, DE PHI	1.258	
ASIMETRIA	0.795	
ASIMETRIA EN PHI	0.167	
DESV, DE CUARTILES	10.391	

DESV. EN PHI	1.682
ANGULOSIDAD	0.376
TAMAÑO MEDIO DE GRANO	6.687
FIN DE PROBLEMA	

32-20 AD-MD 334

ESTRATIGRAFIA

ANALISIS HIDROMETRICO

M584

76

96.392 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	23.145	6		800.00	0.32	75.99
2	27.176	9		400.00	1.32	71.81
3	43.287	12		200.00	2.32	55.09
4	50.073	13		160.00	2.64	48.05
5	55.662	15		100.00	3.32	42.26
6	57.461	17		80.00	3.64	40.39
7	63.331	23		40.00	4.64	34.30

CC 1.024 Barcelona

96.392 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	20.5	38.00	45.777	4.449	35.127
2	3	20.5	35.00	27.073	5.207	32.015
3	5	20.5	33.00	21.296	5.553	29.940
4	7	20.5	30.00	18.403	5.764	26.827
5	10	20.5	29.00	15.509	6.011	25.790
6	15	20.5	27.00	12.843	6.283	23.715
7	60	20.5	21.50	6.662	7.230	18.009
8	180	20.5	17.00	3.956	7.982	13.341
9	1240	19.5	12.00	1.571	9.314	7.853
10	2870	19.8	10.00	1.038	9.912	5.685
11	4140	19.5	9.00	0.871	10.165	4.741

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PESO	MICRAS	PHI
4.741	0.871	10.165
5.685	1.038	9.912
7.853	1.571	9.314
10.000	2.393	8.706
13.341	3.956	7.982
15.000	4.849	7.688
16.000	5.424	7.526
13.426	4.000	7.966
18.009	6.662	7.230
20.000	8.554	6.869
23.715	12.843	6.283
25.000	14.461	6.112
25.790	15.509	6.011
26.827	18.403	5.764
29.940	21.296	5.553
30.000	21.449	5.543
32.015	27.073	5.207
35.000	44.847	4.479
32.790	31.000	5.012
35.127	45.777	4.449
34.299	40.000	4.644
40.000	76.783	3.703
40.389	80.000	3.644
42.255	100.000	3.322
45.000	125.868	2.990
44.915	125.000	3.000
48.053	160.000	2.644
50.000	170.716	2.550
55.000	199.449	2.326
55.093	200.000	2.322
60.000	250.016	2.000
65.000	308.254	1.698
70.000	374.201	1.418
71.807	400.000	1.322
75.000	681.443	0.553
75.989	800.000	0.322
80.000	1501.909	-0.587
84.000	2729.656	-1.449
85.000	3155.292	-1.658
90.000	6353.382	-2.668
95.000	2317.789	-3.623

CC 1.024 Barcelona

99.000	410.750	-4.351
CLASIFICACION	6.864	
Q, DE PHI	2.779	
ASIMETRIA	0.338	
ASIMETRIA EN PHI	0.108	
DESV, DE CUARTILES	333.491	
DESV, EN PHI	4.487	
ANGULOSIDAD	0.053	
TAMANO MEDIO DE GRANO	3.039	

FIN DE PROBLEMA

CC 1.024 Barcelona

muestra

32-20 AD-MD 352

Muestra 352 a 366

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M604	76
70.810	2.650	11	7	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.474	9		400.00	1.32	99.33	
2	16.134	12		200.00	2.32	77.22	
3	41.108	13		160.00	2.64	41.95	
4	53.932	15		100.00	3.32	23.84	
5	54.567	17		80.00	3.64	22.94	
6	55.604	19		63.00	3.99	21.48	
7	56.108	23		40.00	4.64	20.76	

70.810	2.650	11	7	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	1	18.5	20.00	53.439	4.226	21.529	
2	3	18.5	19.00	31.048	5.009	20.117	
3	5	18.5	18.00	24.199	5.369	18.704	
4	7	18.5	17.50	20.515	5.607	17.998	
5	10	18.5	17.00	17.217	5.860	17.292	
6	15	18.5	16.00	14.143	6.144	15.880	
7	60	18.5	14.50	7.134	7.131	13.762	
8	180	18.5	12.00	4.179	7.903	10.231	
9	360	18.5	11.00	2.971	8.395	8.819	
10	1360	18.3	9.00	1.547	9.336	5.790	
11	2830	18.5	9.00	1.066	9.874	5.994	

PESO	MICRAS	PHI
5.994	1.066	9.874
5.790	1.547	9.336
8.819	2.971	8.395
10.000	3.965	7.978
10.038	4.000	7.966
10.231	4.179	7.903
13.762	7.134	7.131
15.000	10.768	6.537
15.880	14.143	6.144
16.000	14.390	6.119
17.292	17.217	5.860
17.998	20.515	5.607
18.704	24.199	5.369
20.000	30.434	5.038
20.108	31.000	5.012
20.117	31.048	5.009
21.529	53.439	4.226
20.763	40.000	4.644
21.475	63.000	3.989
22.939	80.000	3.644
23.836	100.000	3.322
25.000	104.044	3.265
30.000	121.077	3.046
35.000	137.636	2.861
40.000	153.800	2.701
31.173	125.000	3.000
41.947	160.000	2.644
45.000	164.164	2.607
50.000	170.612	2.551
55.000	176.664	2.501
60.000	182.375	2.455
65.000	187.793	2.413
70.000	192.951	2.374
75.000	197.881	2.337
77.216	200.000	2.322
80.000	220.479	2.181
84.000	252.166	1.988
85.000	260.513	1.941
90.000	304.895	1.714
95.000	353.815	1.499
99.000	396.343	1.335

99.331	400.000	1.322
CLASIFICACION	1.379	
Q, DE PHI	0.463	
ASIMETRIA	0.707	
ASIMETRIA EN PHI	0.726	
DESV. DE CUARTILES	46.918	
DESV. EN PHI	2.065	
ANGULOSIDAD	0.328	
TAMANO MEDIO DE GRANO	4.052	
FIN DE PROBLEMA		

32-20 AD-MD 353

ESTRATIGRAFIA ANALISIS HIDROMETRICO M605 76

63.686 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.308	9		400.00	1.32	99.52
2	3.526	12		200.00	2.32	94.46
3	7.324	13		160.00	2.64	88.50
4	12.288	15		100.00	3.32	80.71
5	14.025	17		80.00	3.64	77.98
6	17.304	19		63.00	3.99	72.83
7	18.742	23		40.00	4.64	70.57

63.686 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	50.00	42.066	4.571	71.043
2	3	18.5	47.00	25.021	5.321	66.333
3	5	18.5	44.00	19.933	5.649	61.622
4	7	18.5	40.00	17.450	5.841	55.341
5	10	18.5	38.00	14.846	6.074	52.201
6	15	18.5	37.00	12.220	6.355	50.631
7	60	18.5	28.50	6.516	7.262	37.284
8	180	18.5	25.00	3.854	8.019	31.788
9	360	18.5	22.00	2.779	8.491	27.078
10	1355	18.5	18.00	1.469	9.411	20.797
11	2825	18.5	17.50	1.016	9.943	20.012

PESO	MICRAS	PHI
10.000	0.001	19.534
15.000	0.064	13.928
16.000	0.119	13.036
20.000	1.010	9.951
20.012	1.016	9.943
20.797	1.469	9.411
25.000	2.291	8.769
27.078	2.779	8.491
30.000	3.424	8.190
31.788	3.854	8.019
35.000	5.291	7.562
32.149	4.000	7.966
37.284	6.516	7.262
40.000	7.528	7.053
45.000	9.590	6.704
50.000	11.909	6.392
50.631	12.220	6.355
52.201	14.846	6.074
55.000	17.154	5.865
55.341	17.450	5.841
60.000	19.285	5.696
61.622	19.933	5.649
65.000	23.501	5.411
66.333	25.021	5.321
70.000	37.608	4.733
68.237	31.000	5.012
71.043	42.066	4.571
70.572	40.000	4.644
72.830	63.000	3.989
75.000	69.813	3.840
77.978	80.000	3.644
80.000	94.458	3.404
80.706	100.000	3.322
84.000	122.624	3.028
85.000	130.250	2.941
84.317	125.000	3.000
88.500	160.000	2.644
90.000	169.471	2.561
94.464	200.000	2.322
95.000	215.638	2.213
99.000	373.232	1.422

99.517	400.000	1.322
CLASIFICACION	5.520	
Q, DE PHI	2.464	
ASIMETRIA	1.127	
ASIMETRIA EN PHI	0.327	
DESV, DE CUARTILES	33.761	
DESV, EN PHI	5.004	
ANGULOSIDAD	0.205	
TAMANO MEDIO DE GRANO	8.031	
FIN DE PROBLEMA		

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M607	76
55.244	2.650	7	0	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	10	18.5	60.00	11.863	6.397	100.001	
2	15	18.5	58.00	9.932	6.654	96.381	
3	60	18.5	49.00	5.485	7.510	80.090	
4	180	18.5	41.00	3.411	8.196	65.608	
5	360	18.5	37.00	2.492	8.648	58.368	
6	1350	18.3	32.00	1.340	9.544	49.055	
7	2820	18.5	28.00	0.951	10.038	42.076	

PESO	MICRAS	PHI
10.000	0.038	14.670
15.000	0.094	13.363
16.000	0.109	13.155
20.000	0.180	12.436
25.000	0.297	11.717
30.000	0.446	11.129
35.000	0.630	10.632
40.000	0.849	10.201
42.076	0.951	10.038
45.000	1.105	9.822
49.055	1.340	9.544
50.000	1.434	9.445
55.000	2.015	8.955
58.368	2.492	8.648
60.000	2.683	8.542
65.000	3.326	8.232
65.608	3.411	8.196
70.000	3.980	7.973
75.000	4.690	7.736
80.000	5.470	7.514
70.146	4.000	7.966
80.090	5.485	7.510
84.000	6.390	7.290
85.000	6.638	7.235
90.000	7.973	6.971
95.000	9.482	6.720
96.381	9.932	6.654
99.000	11.301	6.467
100.001	11.863	6.397
CLASIFICACION	3.973	
Q, DE PHI	1.990	
ASIMETRIA	0.677	
ASIMETRIA EN PHI	0.264	
DESV, DE CUARTILES	2.196	
DESV. EN PHI	2.933	
ANGULOSIDAD	0.295	
TAMANO MEDIO DE GRANO	10.222	
FIN DE PROBLEMA		

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M609	76
54.244	2.650	8	0	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	7	18.5	59.00	14.361	6.122	100.001	
2	10	18.5	56.00	12.459	6.327	94.471	
3	15	18.5	50.00	10.861	6.525	83.410	
4	60	18.5	40.00	5.960	7.390	64.974	
5	180	18.5	29.00	3.747	8.060	44.696	
6	360	18.5	26.00	2.705	8.530	39.165	
7	1345	18.3	19.00	1.469	9.411	25.993	
8	2815	18.5	16.00	1.028	9.926	20.730	

PESO	MICRAS	PHI
10.000	0.325	11.585
15.000	0.617	10.662
16.000	0.683	10.515
20.000	0.971	10.008
20.730	1.028	9.926
25.000	1.381	9.500
25.993	1.469	9.411
30.000	1.818	9.103
35.000	2.287	8.772
39.165	2.705	8.530
40.000	2.849	8.455
44.696	3.747	8.060
45.000	3.778	8.048
50.000	4.306	7.859
55.000	4.846	7.689
60.000	5.399	7.533
47.113	4.000	7.966
64.974	5.960	7.390
65.000	5.965	7.389
70.000	7.128	7.132
75.000	8.413	6.893
80.000	9.824	6.669
83.410	10.861	6.525
84.000	10.945	6.513
85.000	11.089	6.495
90.000	11.810	6.404
94.471	12.459	6.327
95.000	12.633	6.307
99.000	14.004	6.158
100.001	14.361	6.122
CLASIFICACION	2.468	
Q, DE PHI	1.303	
ASIMETRIA	0.626	
ASIMETRIA EN PHI	0.327	
DESV, DE CUARTILES	3.516	
DESV. EN PHI	2.001	
ANGULOSIDAD	0.366	
TAMANO MEDIO DE GRANO	8.514	
FIN DE PROBLEMA		

32-20 AD-MD 355

ESTRATIGRAFIA

ANALISIS HIDROMETRICO

M610

76

55.244

2.650

6

0

2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	15	18.5	60.00	9.686	6.690	100.001
2	60	18.5	50.00	5.429	7.525	81.900
3	180	18.5	40.00	3.440	8.183	63.798
4	360	18.5	35.50	2.523	8.631	55.653
5	1340	18.3	28.00	1.383	9.498	41.814
6	2810	18.5	25.00	0.970	10.010	36.646

PESO

MICRAS

PHI

10.000	0.029	15.047
15.000	0.087	13.475
16.000	0.104	13.224
20.000	0.190	12.359
25.000	0.346	11.493
30.000	0.566	10.786
35.000	0.857	10.188
36.646	0.970	10.010
40.000	1.227	9.670
41.814	1.383	9.498
45.000	1.613	9.275
50.000	2.014	8.956
55.000	2.461	8.666
55.653	2.523	8.631
60.000	2.992	8.384
63.798	3.440	8.183
65.000	3.559	8.134
70.000	4.075	7.939
75.000	4.622	7.757
80.000	5.201	7.587
69.289	4.000	7.966
81.900	5.429	7.525
84.000	5.842	7.419
85.000	6.046	7.370
90.000	7.136	7.131
95.000	8.347	6.904
99.000	9.407	6.732
100.001	9.686	6.690

CLASIFICACION

Q, DE PHI

ASIMETRIA

ASIMETRIA EN PHI

DESV, DE CUARTILES

DESV. EN PHI

ANGULOSIDAD

TAMAÑO MEDIO DE GRANO

3.654
1.869
0.394
0.470
2.138
2.902
0.325
10.321

FIN DE PROBLEMA

32- 20 AD - MD 356

ESTRATIGRAFIA

ANALISIS HIDROMETRICO

M612

76

61.436 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.565	9		400.00	1.32	99.08
2	1.278	12		200.00	2.32	97.92
3	1.945	13		160.00	2.64	96.84
4	3.611	15		100.00	3.32	94.12
5	4.663	17		80.00	3.64	92.41
6	8.313	19		63.00	3.99	86.47
7	10.134	23		40.00	4.64	83.51

61.436 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	56.00	39.400	4.666	83.411
2	3	18.5	54.00	23.272	5.425	80.156
3	5	18.5	52.00	18.423	5.762	76.901
4	7	18.5	51.00	15.736	5.990	75.273
5	10	18.5	50.00	13.302	6.232	73.645
6	15	18.5	49.50	10.916	6.517	72.831
7	60	18.5	45.00	5.701	7.455	65.507
8	180	18.5	38.50	3.484	8.165	54.927
9	360	18.5	35.00	2.534	8.624	49.230
10	1335	18.3	28.00	1.388	9.493	37.600
11	2805	18.5	24.50	0.975	10.002	32.139

PESO	MICRAS	PHI
10.000	0.070	13.793
15.000	0.175	12.476
16.000	0.202	12.267
20.000	0.335	11.542
25.000	0.553	10.818
30.000	0.835	10.226
32.13 "	0.975	10.002
35.000	1.181	9.725
37.600	1.388	9.493
40.000	1.593	9.293
45.000	2.073	8.914
49.230	2.534	8.624
50.000	2.650	8.559
54.927	3.484	8.165
55.000	3.496	8.160
60.000	4.459	7.809
65.000	5.578	7.486
57.709	4.000	7.966
65.507	5.701	7.455
70.000	8.561	6.868
72.831	10.916	6.517
73.645	13.302	6.232
75.000	15.302	6.030
75.273	15.736	5.990
76.901	18.423	5.762
80.000	23.017	5.441
80.156	23.272	5.425
81.913	31.000	5.012
83.411	39.400	4.666
83.505	40.000	4.644
84.000	43.201	4.533
85.000	50.400	4.310
86.469	63.000	3.989
90.000	72.750	3.781
92.410	80.000	3.644
94.123	100.000	3.322
95.000	116.589	3.100
95.401	125.000	3.000
96.835	160.000	2.644
97.920	200.000	2.322
99.000	381.250	1.391

99.081	400.000	1.322
CLASIFICACION	5.260	
Q, DE PHI	2.395	
ASIMETRIA	1.205	
ASIMETRIA EN PHI	-0.041	
DESV, DE CUARTILES	7.374	
DESV. EN PHI	3.867	
ANGULOSIDAD	0.105	
TAMAÑO MEDIO DE GRANO	8.399	

FIN DE PROBLEMA

32-20 AD-MD 357

ESTRATIGRAFIA

ANALISIS HIDROMETRICO

M613 76

65.643 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	6.151	9		400.00	1.32	90.63
2	7.388	12		200.00	2.32	88.75
3	7.989	13		160.00	2.64	87.83
4	9.146	15		100.00	3.32	86.07
5	9.778	17		80.00	3.64	85.11
6	11.441	19		63.00	3.99	82.57
7	12.248	23		40.00	4.64	81.34

65.643 2.650 11 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	18.5	58.00	38.470	4.700	81.112
2	3	18.5	56.00	22.747	5.458	78.066
3	5	18.5	50.00	18.812	5.732	68.925
4	7	18.5	47.00	16.380	5.932	64.355
5	10	18.5	44.00	14.095	6.149	59.785
6	15	18.5	43.00	11.613	6.428	58.262
7	60	18.5	38.00	6.060	7.366	50.645
8	180	18.5	28.50	3.761	8.055	36.172
9	360	18.5	24.50	2.733	8.515	30.079
10	1330	18.3	20.00	1.465	9.415	23.003
11	2800	18.5	16.00	1.033	9.919	17.130

PESO	MICRAS	PHI
10.000	0.545	10.839
15.000	0.882	10.146
16.000	0.952	10.036
17.130	1.033	9.919
20.000	1.241	9.654
23.003	1.465	9.415
25.000	1.777	9.136
30.000	2.716	8.524
30.079	2.733	8.515
35.000	3.552	8.137
36.172	3.761	8.055
40.000	4.337	7.849
45.000	5.125	7.608
50.000	5.950	7.393
37.779	4.000	7.966
50.645	6.060	7.366
55.000	8.887	6.814
58.262	11.613	6.428
59.785	14.095	6.149
60.000	14.198	6.138
64.355	16.380	5.932
65.000	16.712	5.903
68.925	18.812	5.732
70.000	19.261	5.698
75.000	21.398	5.546
78.066	22.747	5.458
80.000	31.828	4.974
79.846	31.000	5.012
81.112	38.470	4.700
81.34	40.000	4.644
82.571	63.000	3.989
84.000	72.150	3.793
85.000	79.223	3.658
85.105	80.000	3.644
86.068	100.000	3.322
86.900	125.000	3.000
87.83	160.000	2.644
88.746	200.000	2.322
90.000	317.776	1.654
90.630	400.000	1.322
95.000	1892.030	-0.920

99.000	7378.222	-2.883
CLASIFICACION	3.470	
Q, DE PHI	1.794	
ASIMETRIA	1.074	
ASIMETRIA EN PHI	-0.153	
DESV. DE CUARTILES	9.810	
DESV. EN PHI	3.121	
ANGULOSIDAD	0.033	
TAMANO MEDIO DE GRANO	6.913	

FIN DE PROBLEMA

32-20 AD-MD 360

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M615	76
63.440	2.650	11	5	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.071	13		160.00	2.64	99.89	
2	0.432	15		100.00	3.32	99.32	
3	0.794	17		80.00	3.64	98.75	
4	4.706	19		63.00	3.99	92.58	
5	7.809	23		40.00	4.64	87.69	

63.440	2.650	11	5	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	1	18.5	60.00	37.517	4.736	87.082	
2	3	18.5	57.00	22.480	5.475	82.353	
3	5	18.5	54.00	18.026	5.794	77.624	
4	7	18.5	51.00	15.736	5.990	72.895	
5	10	18.5	49.00	13.438	6.218	69.743	
6	15	18.5	46.00	11.296	6.468	65.014	
7	60	18.5	39.00	6.010	7.378	53.980	
8	180	18.5	31.50	3.680	8.086	42.157	
9	360	18.5	28.00	2.668	8.550	36.640	
10	1325	18.3	23.00	1.441	9.439	28.530	
11	2795	18.5	19.50	1.011	9.950	23.242	

PESO	MICRAS	PHI
10.000	0.235	12.054
15.000	0.474	11.042
16.000	0.530	10.881
20.000	0.779	10.325
23.242	1.011	9.950
25.000	1.146	9.768
28.530	1.441	9.439
30.000	1.630	9.260
35.000	2.383	8.713
36.640	2.668	8.550
40.000	3.262	8.260
42.157	3.680	8.086
45.000	4.188	7.899
50.000	5.162	7.598
43."66	4.000	7.966
53.980	6.010	7.378
55.000	6.404	7.287
60.000	8.603	6.861
65.000	11.287	6.469
65.014	11.296	6.468
69.743	13.438	6.218
70.000	13.615	6.199
72.895	15.736	5.990
75.000	16.734	5.901
77.624	18.026	5.794
80.000	20.173	5.631
82.353	22.480	5.475
84.000	26.957	5.213
85."00	30.048	5.057
85.289	31.000	5.012
87.082	37.517	4.736
87.691	40.000	4.644
90.000	49.720	4.330
92.582	63.000	3.989
95.000	69.314	3.851
98.749	80.000	3.644
99.000	88.264	3.502
99.320	100.000	3.322
99.590	125.000	3.000
99.889	160.000	2.644
CLASIFICACION	3.821	

Q, DE PHI	1.933
ASIMETRIA	0.719
ASIMETRIA EN PHI	0.158
DESV, DE CUARTILES	7.794
DESV. EN PHI	2.834
ANGULOSIDAD	0.169
TAMAÑO MEDIO DE GRANO	8.047
FIN DE PROBLEMA	

ESTRATIGRAFIA				ANALISIS HIDROMETRICO		M617	76
83.764	2.650	9	7	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	0.051	9		400.00	1.32	99.94	
2	0.141	12		200.00	2.32	99.83	
3	0.256	13		160.00	2.64	99.70	
4	0.575	15		100.00	3.32	99.31	
5	0.873	17		80.00	3.64	98.96	
6	2.472	19		63.00	3.99	97.05	
7	4.020	23		40.00	4.64	95.20	

83.764	2.650	9	7	2.5			
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO	
1	5	18.2	60.00	16.842	5.892	65.803	
2	7	18.2	57.00	14.773	6.081	62.222	
3	10	18.2	50.00	13.353	6.227	53.865	
4	15	18.2	45.00	11.447	6.449	47.896	
5	60	18.2	35.00	6.232	7.326	35.958	
6	180	18.2	26.00	3.842	8.024	25.213	
7	300	18.2	24.00	3.015	8.374	22.826	
8	1375	18.3	20.00	1.441	9.439	18.026	
9	2820	18.4	18.50	1.012	9.949	16.212	

PESO	MICRAS	PHI
10.000	0.202	12.271
15.000	0.781	10.322
16.000	0.968	10.012
16.212	1.012	9.949
18.026	1.441	9.439
20.000	1.994	8.970
22.826	3.015	8.374
25.000	3.763	8.054
25.213	3.842	8.024
30.000	4.868	7.682
35.000	6.006	7.379
25.970	4.000	7.966
35.958	6.232	7.326
40.000	7.811	7.000
45.000	10.028	6.640
47.896	11.447	6.449
50.000	12.110	6.368
53.865	13.353	6.227
55.000	13.549	6.206
60.000	14.401	6.118
62.222	14.773	6.081
65.000	16.364	5.933
65.803	16.842	5.892
70.000	19.466	5.683
75.000	22.880	5.450
80.000	26.613	5.232
84.000	29.835	5.067
85.000	30.674	5.027
90.000	35.068	4.834
95.000	39.802	4.651
85.384	31.000	5.012
95.201	40.000	4.644
97.049	63.000	3.989
98.958	80.000	3.644
99.000	82.144	3.606
99.314	100.000	3.322
99.495	125.000	3.000
99.695	160.000	2.644
99.832	200.000	2.322
99.940	400.000	1.322
CLASIFICACION	2.465	

Q, DE PHI	1.301
ASIMETRIA	0.587
ASIMETRIA EN PHI	0.473
DESV, DE CUARTILES	9.558
DESV. EN PHI	2.472
ANGULOSIDAD	0.328
TAMAÑO MEDIO DE GRANO	7.538
FIN DE PROBLEMA	

ESTRATIGRAFIA ANALISIS HIDROMETRICO M619 76
92.352 2.650 7 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	6.062	9		400.00	1.32	93.44
2	6.524	12		200.00	2.32	92.94
3	6.757	13		160.00	2.64	92.68
4	7.258	15		100.00	3.32	92.14
5	7.573	17		80.00	3.64	91.80
6	8.639	19		63.00	3.99	90.65
7	9.333	23		40.00	4.64	89.90

92.352	2.650	7	7	2.5		
NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	10	18.2	60.00	11.909	6.392	59.684
2	15	18.2	57.00	10.092	6.631	56.436
3	60	18.2	47.00	5.615	7.476	45.608
4	180	18.2	38.00	3.512	8.153	35.862
5	300	18.2	33.00	2.829	8.465	30.448
6	1370	18.3	24.00	1.408	9.472	20.681
7	2815	18.4	22.00	0.994	9.974	18.494

PESO	MICRAS	PHI
10.000	0.146	12.738
15.000	0.517	10.916
16.000	0.633	10.626
18.494	0.994	9.974
20.000	1.268	9.623
20.681	1.408	9.472
25.000	1.982	8.979
30.000	2.754	8.504
30.448	2.829	8.465
35.000	3.400	8.200
35.862	3.512	8.153
40.000	4.346	7.846
45.000	5.469	7.514
38.334	4.000	7.966
45.608	5.615	7.476
50.000	7.231	7.111
55.000	9.400	6.733
56.436	10.092	6.631
59.684	11.909	6.392
60.000	12.096	6.369
65.000	15.328	6.028
70.000	19.085	5.711
75.000	23.406	5.417
80.000	28.329	5.142
84.000	32.728	4.933
85.000	33.894	4.883
82.473	31.000	5.012
89.895	40.000	4.644
90.000	42.635	4.552
90.646	63.000	3.989
91.800	80.000	3.644
92.141	100.000	3.322
92.398	125.000	3.000
92.684	160.000	2.644
92.936	200.000	2.322
93.436	400.000	1.322
95.000	3415.731	-1.772
99.000	3621.062	-9.459
CLASIFICACION		
Q, DE PHI	3.436	
ASIMETRIA	1.780	
	0.887	

ASIMETRIA EN PHI	0.234
DESV, DE CUARTILES	10.712
DESV, EN PHI	2.846
ANGULOSIDAD	0.275
TAMANO MEDIO DE GRANO	7.779

FIN DE PROBLEMA

ESTRATIGRAFIA ANALISIS HIDROMETRICO M620 76

68.667 2.650 7 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	5.128	9		400.00	1.32	92.53
2	5.464	12		200.00	2.32	92.04
3	5.610	13		160.00	2.64	91.83
4	5.890	15		100.00	3.32	91.42
5	6.042	17		80.00	3.64	91.20
6	6.480	19		63.00	3.99	90.56
7	6.724	23		40.00	4.64	90.21

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	10	18.2	60.00	11.909	6.392	80.271
2	15	18.2	59.00	9.848	6.666	78.815
3	60	18.2	50.00	5.450	7.520	65.708
4	180	18.2	40.00	3.453	8.178	51.145
5	300	18.2	34.50	2.796	8.482	43.135
6	1365	18.3	25.00	1.400	9.480	29.271
7	2810	18.4	24.00	0.983	9.991	27.786

PESO	MICRAS	PHI
10.000	0.000	20.004
15.000	0.014	16.031
16.000	0.023	15.399
20.000	0.105	13.212
25.000	0.479	11.026
27.786	0.983	9.991
29.271	1.400	9.480
30.000	1.462	9.417
35.000	1.925	9.020
40.000	2.443	8.677
43.135	2.796	8.482
45.000	2.946	8.407
50.000	3.357	8.218
51.145	3.453	8.178
55.000	3.941	7.987
60.000	4.618	7.758
65.000	5.343	7.548
55.445	4.000	7.966
65.708	5.450	7.520
70.000	6.695	7.223
75.000	8.380	6.899
78.815	9.848	6.666
80.000	11.498	6.442
80.271	11.909	6.392
84.000	19.081	5.712
85.000	21.575	5.534
90.000	39.053	4.678
88.020	31.000	5.012
90.208	40.000	4.644
90.564	63.000	3.989
91.202	80.000	3.644
91.423	100.000	3.322
91.616	125.000	3.000
91.831	160.000	2.644
92.043	200.000	2.322
92.533	400.000	1.322
95.000	2414.859	-3.634
99.000	-9241.296	-11.402
CLASIFICACION	4.182	
Q, DE PHI	2.064	
ASIMETRIA	0.356	

ASIMETRIA EN PHI	0.482
DESV, DE CUARTILES	3.950
DESV, EN PHI	4.843
ANGULOSIDAD	0.107
TAMANO MEDIO DE GRANO	10.554

FIN DE PROBLEMA

32-20 AD-MO 366

ESTRATIGRAFIA ANALISIS HIDROMETRICO M623 76
65.891 2.650 9 7 2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	0.139	9		400.00	1.32	99.79
2	0.270	12		200.00	2.32	99.59
3	0.402	13		160.00	2.64	99.39
4	1.004	15		100.00	3.32	98.48
5	1.559	17		80.00	3.64	97.63
6	3.553	19		63.00	3.99	94.61
7	4.864	23		40.00	4.64	92.62

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	5	18.2	60.00	16.842	5.892	83.653
2	7	18.2	59.00	14.416	6.116	82.135
3	10	18.2	58.00	12.212	6.356	80.617
4	15	18.2	57.00	10.092	6.631	79.100
5	60	18.2	53.50	5.252	7.573	73.788
6	180	18.2	50.00	3.146	8.312	68.476
7	300	18.2	49.00	2.462	8.666	66.959
8	1360	18.3	45.00	1.198	9.705	60.858
9	2805	18.4	44.00	0.835	10.226	59.310

PESO	MICRAS	PHI
10.000	0.000	46.208
15.000	0.000	38.013
16.000	0.000	36.708
20.000	0.000	32.198
25.000	0.000	27.688
30.000	0.000	24.002
35.000	0.000	20.887
40.000	0.003	18.188
45.000	0.017	15.807
50.000	0.076	13.677
55.000	0.290	11.751
59.310	0.835	10.226
60.000	0.981	9.992
60.858	1.198	9.705
65.000	1.968	8.989
66.959	2.462	8.666
68.476	3.146	8.312
70.000	3.658	8.094
70.916	4.000	7.966
73.788	5.252	7.573
75.000	6.120	7.352
79.100	10.092	6.631
80.000	11.305	6.467
80.617	12.212	6.356
82.135	14.416	6.116
83.653	16.842	5.892
84.000	17.444	5.841
85.000	19.290	5.696
90.000	31.349	4.995
89.881	31.000	5.012
92.619	40.000	4.644
94.608	63.000	3.989
95.000	65.008	3.943
97.634	80.000	3.644
98.477	100.000	3.322
99.000	130.976	2.933
98.909	125.000	3.000
99.390	160.000	2.644
99.591	200.000	2.322
99.790	400.000	1.322

OS021 JOB CETRA260 CANCELED DUE TO PROGRAM REQUEST
OS071 PROBLEM PROGRAM PSW FF1500064E009AF8

EOJ CETRA260 15.55.04
CPU STEP TIME 2.93 STEP SIOS 1708 AVAILABLE STORAGE 80K ACCOUNTED TIME 21.07 PRINTED LINES 1401

CCCCCCCCC	EEEEEEEEEEE	TTTTTTTTTTT	RRRRRRRRRR	AAAAAAAAAAA	222222222	666666666	000000000
CCCCCCCCC	EEEEEEEEEEE	TTTTTTTTTTT	RRRRRRRRRR	AAAAAAAAAAA	222222222	666666666	000000000
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CCC	EEE	TTTT	RRR	RRR	AAA	AAA	000
CCC	EEE	TTTT	RRR	RRR	AAA	AAA	000
CCC	EEE	TTTT	RRR	RRR	AAA	AAA	000
CCC	EEE	TTTT	RRR	RRR	AAA	AAA	000
CCC	EEE	TTTT	RRR	RRR	AAA	AAA	000
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ESTRATIGRAFIA

ANALISIS HIDROMETRICO

M586

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2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	13.747	9		400.00	1.32	85.70
2	67.444	12		200.00	2.32	29.82
3	75.829	13		160.00	2.64	21.10
4	80.358	15		100.00	3.32	16.39
5	81.448	17		80.00	3.64	15.25
6	84.791	23		40.00	4.64	11.77

96.106

2.650

11

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2.5

NUM	DATOS-(TIEM,TEMP,LECT) O (PESO,ID)			MICRAS	PHI	% PESO
1	1	20.5	16.00	53.412	4.227	12.340
2	3	20.5	15.00	31.023	5.011	11.300
3	5	20.5	14.00	24.173	5.370	10.259
4	7	20.5	13.00	20.549	5.605	9.218
5	10	20.5	13.00	17.193	5.862	9.218
6	15	20.5	12.50	14.079	6.150	8.698
7	60	20.5	10.00	7.140	7.130	6.097
8	180	20.5	9.00	4.145	7.914	5.056
9	1235	19.5	8.00	1.610	9.279	3.714
10	2860	19.8	7.00	1.060	9.882	2.580
11	4135	19.5	6.50	0.883	10.145	2.153

PESO	MICRAS	PHI
2.153	0.883	10.145
2.580	1.060	9.882
3.714	1.610	9.279
4.998	4.000	7.966
5.056	4.145	7.914
6.097	7.140	7.130
8.698	14.079	6.150
9.218	17.193	5.862
9.218	20.549	5.605
10.000	23.252	5.426
10.259	24.173	5.370
11.297	31.000	5.012
11.300	31.023	5.011
12.340	53.412	4.227
11.774	40.000	4.644
15.000	76.509	3.708
15.252	80.000	3.644
16.000	92.839	3.429
16.387	100.000	3.322
20.000	144.849	2.787
18.476	125.000	3.000
21.099	160.000	2.644
25.000	178.494	2.486
29.824	200.000	2.322
30.000	200.774	2.316
35.000	222.163	2.170
40.000	242.524	2.044
45.000	262.027	1.932
50.000	280.799	1.832
55.000	298.936	1.742
60.000	316.514	1.660
65.000	333.597	1.584
70.000	350.234	1.514
75.000	366.467	1.448
80.000	382.332	1.387
84.000	394.781	1.341
85.000	397.860	1.330
85.697	400.000	1.322
90.000	413.078	1.276
95.000	428.008	1.224
99.000	439.759	1.185

CLASIFICACION	1.432
Q ₁ DE PHI	0.518
ASIMETRIA	0.829
ASIMETRIA EN PHI	0.528
DESV. DE CUARTILES	93.986
DESV. EN PHI	1.044
ANGULOSIDAD	0.470
TAMAÑO MEDIO DE GRANO	2.384

FIN DE PROBLEMA