

Onshore Grab Sample

Sample: BW-25
Sample Taken By: D. Phelps
Sample Collected On: 1/28/09
Splits? N/A

County: Broward
Latitude: 25° 59' 20.5"
Longitude: 80° 07' 01.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 58.777 grams
Total Fines in Sample 0.238 grams
Total Percent Fines 0.40 %

Dry Sieving Summary

Total Sample Weight 58.581 grams
Total Digested Weight 23.346 grams
Total Carbonate Weight 35.235 grams
Total Silica % 39.85 %
Total Carbonate % 60.15 %
Carbonate/Silica Ratio 1.509

General Comments:

Post Digestion Dry Sieving Not Necessary.

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-25

Total Sample Mass: 58.581 grams

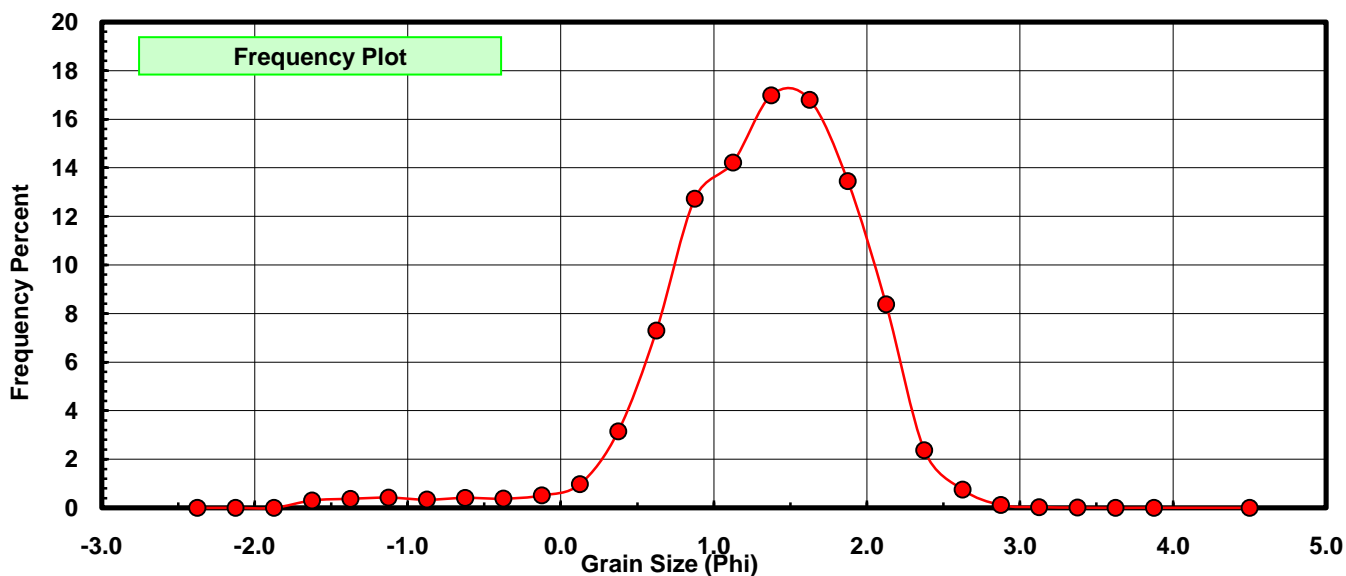
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.179	0.306	0.306
-1.25	-1.375	0.219	0.374	0.679
-1.00	-1.125	0.247	0.422	1.101
-0.75	-0.875	0.198	0.338	1.439
-0.50	-0.625	0.241	0.411	1.850
-0.25	-0.375	0.223	0.381	2.231
0.00	-0.125	0.298	0.509	2.740
0.25	0.125	0.572	0.976	3.716
0.50	0.375	1.842	3.144	6.861
0.75	0.625	4.272	7.292	14.153
1.00	0.875	7.454	12.724	26.877
1.25	1.125	8.326	14.213	41.090
1.50	1.375	9.947	16.980	58.070
1.75	1.625	9.844	16.804	74.874
2.00	1.875	7.882	13.455	88.329
2.25	2.125	4.910	8.382	96.711
2.50	2.375	1.391	2.374	99.085
2.75	2.625	0.441	0.753	99.838
3.00	2.875	0.068	0.116	99.954
3.25	3.125	0.018	0.031	99.985
3.50	3.375	0.006	0.010	99.995
3.75	3.625	0.000	0.000	99.995
4.00	3.875	0.003	0.005	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.3253	phi	(0.3991 mm)
Standard Dev:	0.6346	phi-units	(0.6441 mm)
Skewness:	-1.0946	dimensionless	
Kurtosis:	6.0001	dimensionless	
5th Moment:	-18.9284	dimensionless	
6th Moment:	83.0452	dimensionless	
RARD *	0.4788	dimensionless	
Median	1.2562	phi	(0.4187 mm)

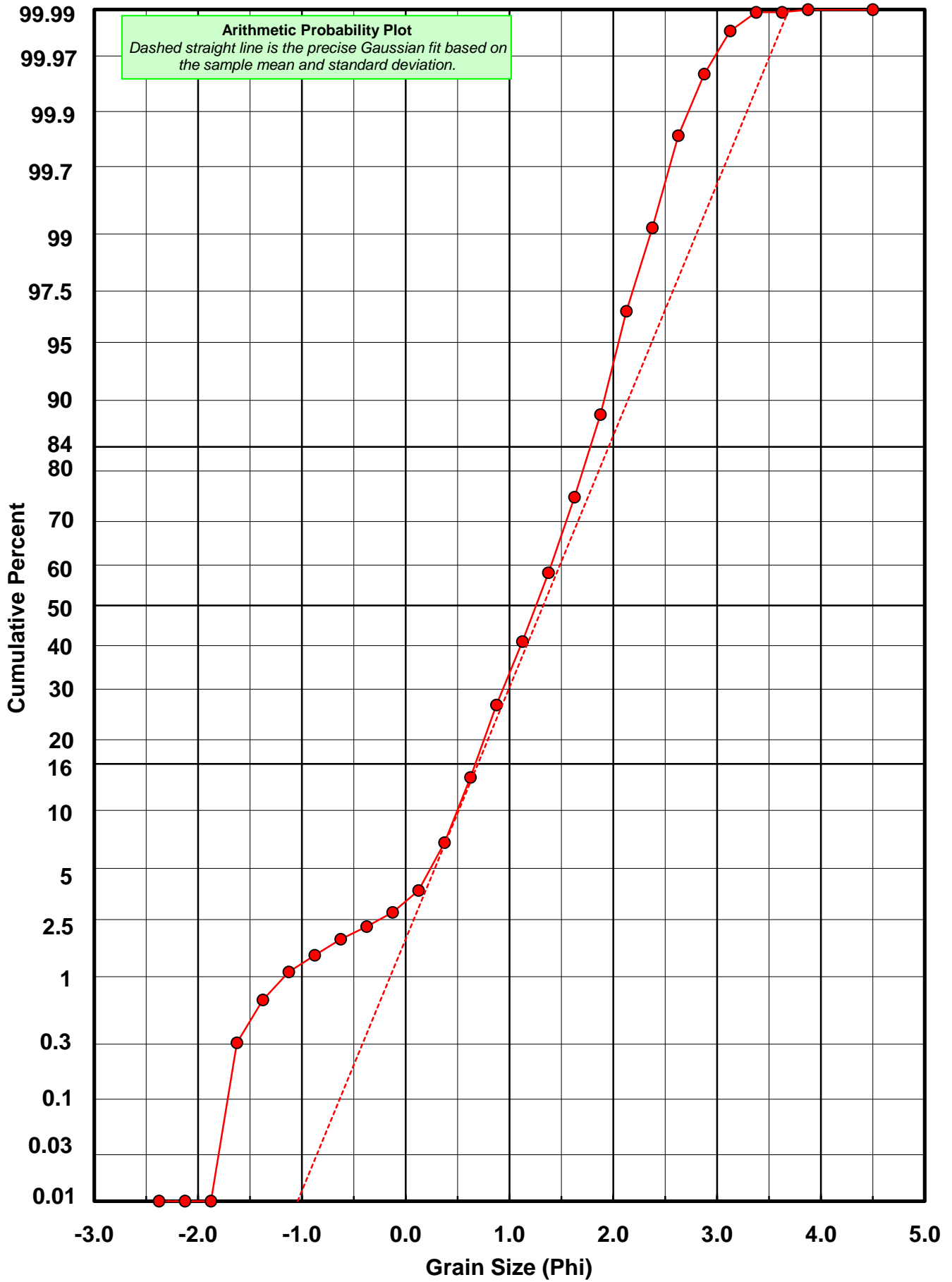
* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-\phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)



BW-25



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BW-25

Total Carbonate Mass: 35.243 grams

% Carbonate: 60.1 %

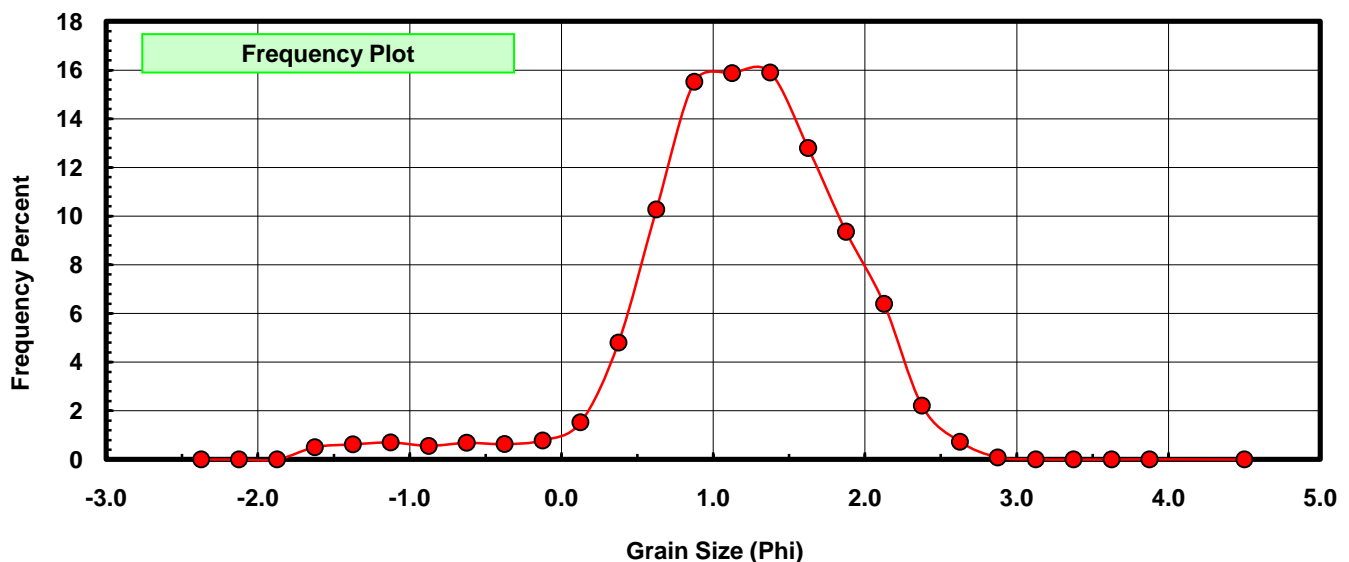
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.179	0.508	0.508
-1.25	-1.375	0.219	0.621	1.129
-1.00	-1.125	0.247	0.701	1.830
-0.75	-0.875	0.198	0.562	2.392
-0.50	-0.625	0.241	0.684	3.076
-0.25	-0.375	0.223	0.633	3.709
0.00	-0.125	0.277	0.786	4.495
0.25	0.125	0.538	1.527	6.021
0.50	0.375	1.692	4.801	10.822
0.75	0.625	3.620	10.272	21.094
1.00	0.875	5.468	15.515	36.609
1.25	1.125	5.596	15.878	52.487
1.50	1.375	5.603	15.898	68.385
1.75	1.625	4.510	12.797	81.182
2.00	1.875	3.299	9.361	90.543
2.25	2.125	2.255	6.398	96.941
2.50	2.375	0.781	2.216	99.157
2.75	2.625	0.259	0.735	99.892
3.00	2.875	0.032	0.091	99.983
3.25	3.125	0.003	0.009	99.991
3.50	3.375	0.000	0.000	99.991
3.75	3.625	0.000	0.000	99.991
4.00	3.875	0.003	0.009	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1744	phi	(0.4431 mm)
Standard Dev:	0.6965	phi-units	(0.6171 mm)
Skewness:	-0.9878	dimensionless	
Kurtosis:	5.3398	dimensionless	
5th Moment:	-14.1491	dimensionless	
6th Moment:	56.3434	dimensionless	
RARD *	0.5931	dimensionless	
Median	1.0858	phi	(0.4711 mm)

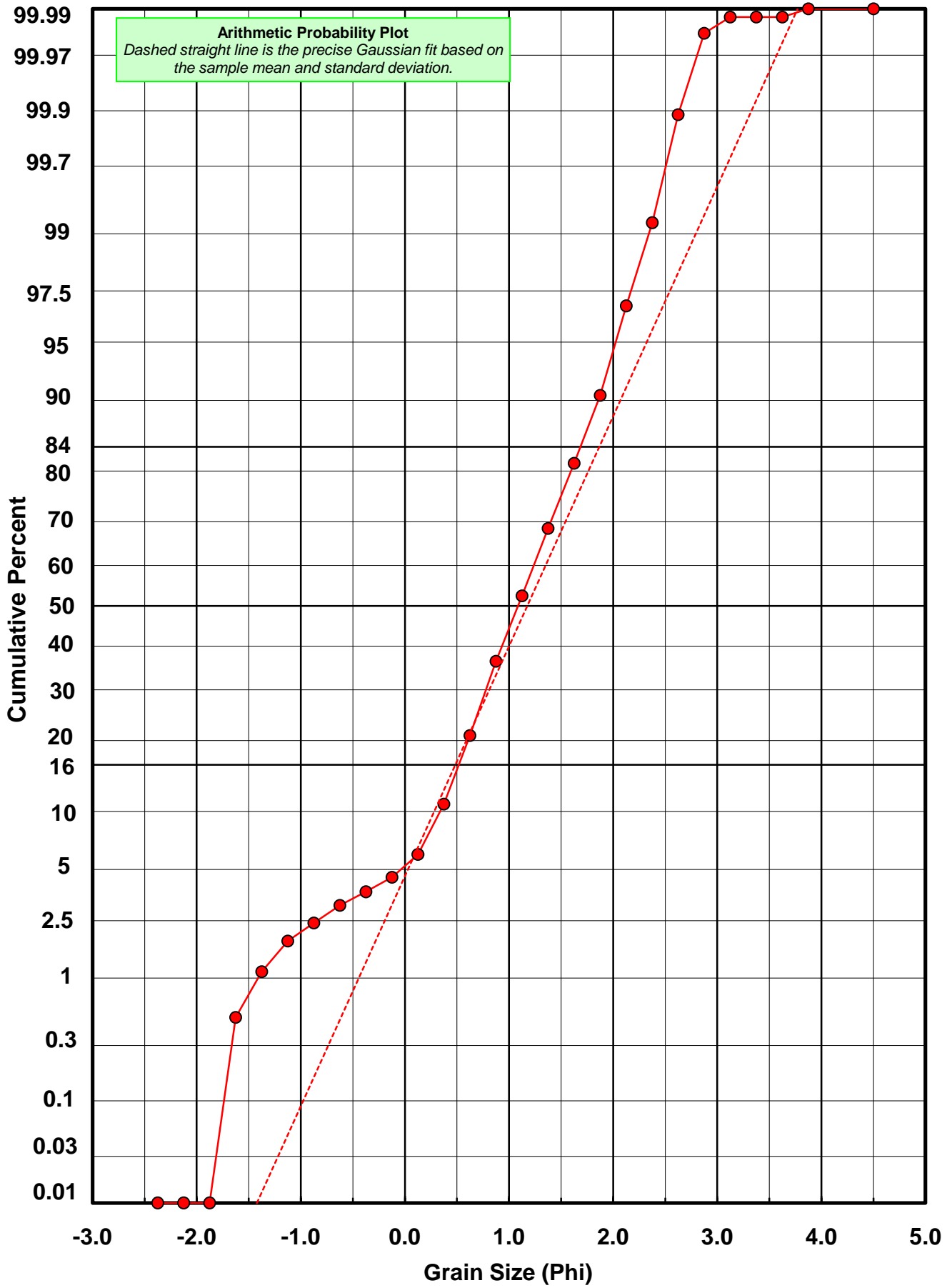
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Calculations based on the Method of Moments	
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-\phi)}$	

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Post-Digestion Grain Size Distribution

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Total Digested Mass: 23.346 grams

% Silica: 39.9 %

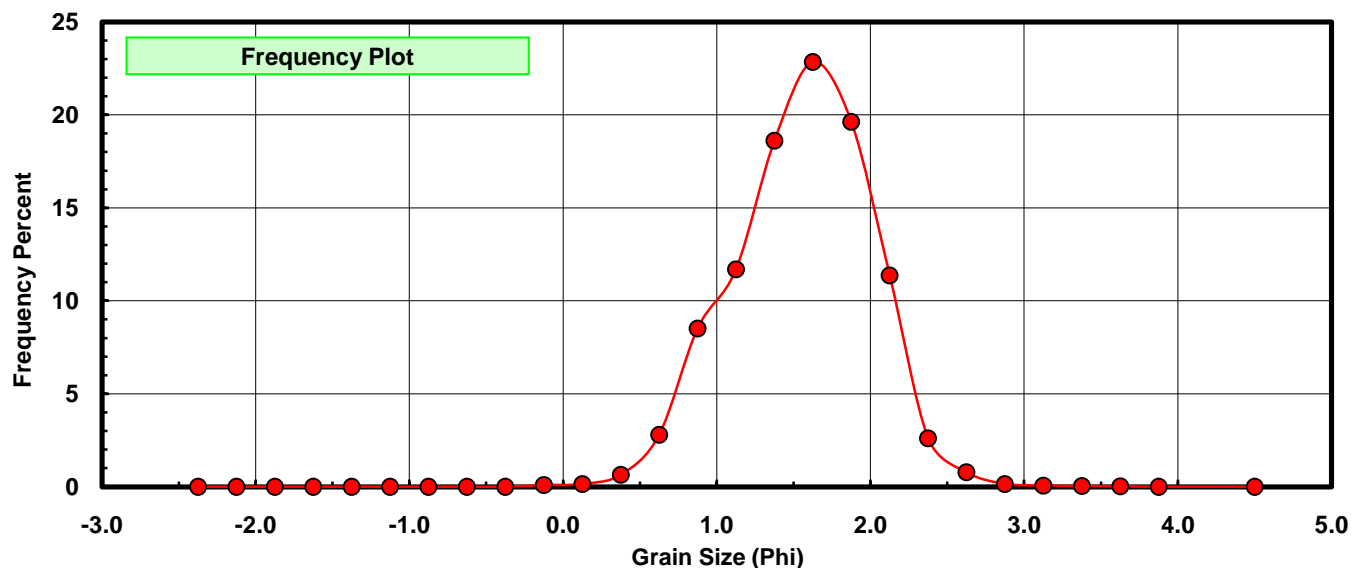
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.021	0.090	0.090
0.25	0.125	0.034	0.146	0.236
0.50	0.375	0.150	0.643	0.878
0.75	0.625	0.652	2.793	3.671
1.00	0.875	1.986	8.507	12.178
1.25	1.125	2.730	11.694	23.871
1.50	1.375	4.344	18.607	42.478
1.75	1.625	5.334	22.848	65.326
2.00	1.875	4.583	19.631	84.957
2.25	2.125	2.655	11.372	96.329
2.50	2.375	0.610	2.613	98.942
2.75	2.625	0.182	0.780	99.722
3.00	2.875	0.036	0.154	99.876
3.25	3.125	0.015	0.064	99.940
3.50	3.375	0.009	0.039	99.979
3.75	3.625	0.005	0.021	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5538	phi	(0.3406 mm)
Standard Dev:	0.4534	phi-units	(0.7303 mm)
Skewness:	-0.1816	dimensionless	
Kurtosis:	3.0111	dimensionless	
5th Moment:	-0.6551	dimensionless	
6th Moment:	17.9946	dimensionless	
RARD *	0.2918	dimensionless	
Median	1.4573	phi	(0.3642 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-\phi)}$	

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