

Onshore Grab Sample

Sample: PB-43-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/8/09
Splits? N/A

County: Palm Beach
Latitude: 26° 21' 35.8"
Longitude: 80° 04' 8.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 61.084 grams
Total Fines in Sample 0.081 grams
Total Percent Fines 0.13 %

Dry Sieving Summary

Total Sample Weight 61.013 grams
Total Digested Weight 29.737 grams
Total Carbonate Weight 31.276 grams
Total Silica % 48.74 %
Total Carbonate % 51.26 %
Carbonate/Silica Ratio 1.052

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-43-BB

Total Sample Mass: 61.013 grams

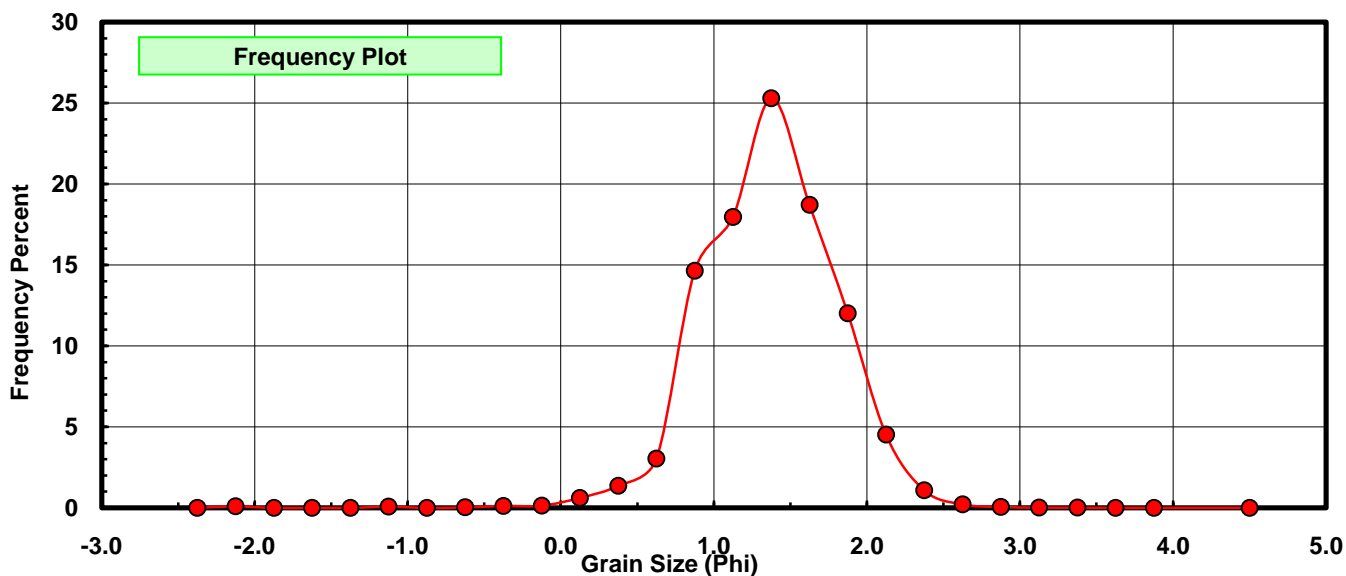
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.056	0.092	0.092
-1.75	-1.875	0.000	0.000	0.092
-1.50	-1.625	0.000	0.000	0.092
-1.25	-1.375	0.000	0.000	0.092
-1.00	-1.125	0.047	0.077	0.169
-0.75	-0.875	0.000	0.000	0.169
-0.50	-0.625	0.019	0.031	0.200
-0.25	-0.375	0.073	0.120	0.320
0.00	-0.125	0.081	0.133	0.452
0.25	0.125	0.377	0.618	1.070
0.50	0.375	0.834	1.367	2.437
0.75	0.625	1.853	3.037	5.474
1.00	0.875	8.931	14.638	20.112
1.25	1.125	10.960	17.963	38.075
1.50	1.375	15.432	25.293	63.368
1.75	1.625	11.414	18.707	82.076
2.00	1.875	7.329	12.012	94.088
2.25	2.125	2.756	4.517	98.605
2.50	2.375	0.660	1.082	99.687
2.75	2.625	0.132	0.216	99.903
3.00	2.875	0.035	0.057	99.961
3.25	3.125	0.011	0.018	99.979
3.50	3.375	0.007	0.011	99.990
3.75	3.625	0.002	0.003	99.993
4.00	3.875	0.001	0.002	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	1.3588	phi	(0.3899 mm)
Standard Dev:	0.4467	phi-units	(0.7337 mm)
Skewness:	-0.6487	dimensionless	
Kurtosis:	7.3054	dimensionless	
5th Moment:	-31.8204	dimensionless	
6th Moment:	260.4778	dimensionless	
RARD *	0.3288	dimensionless	
Median	1.2429	phi	(0.4225 mm)

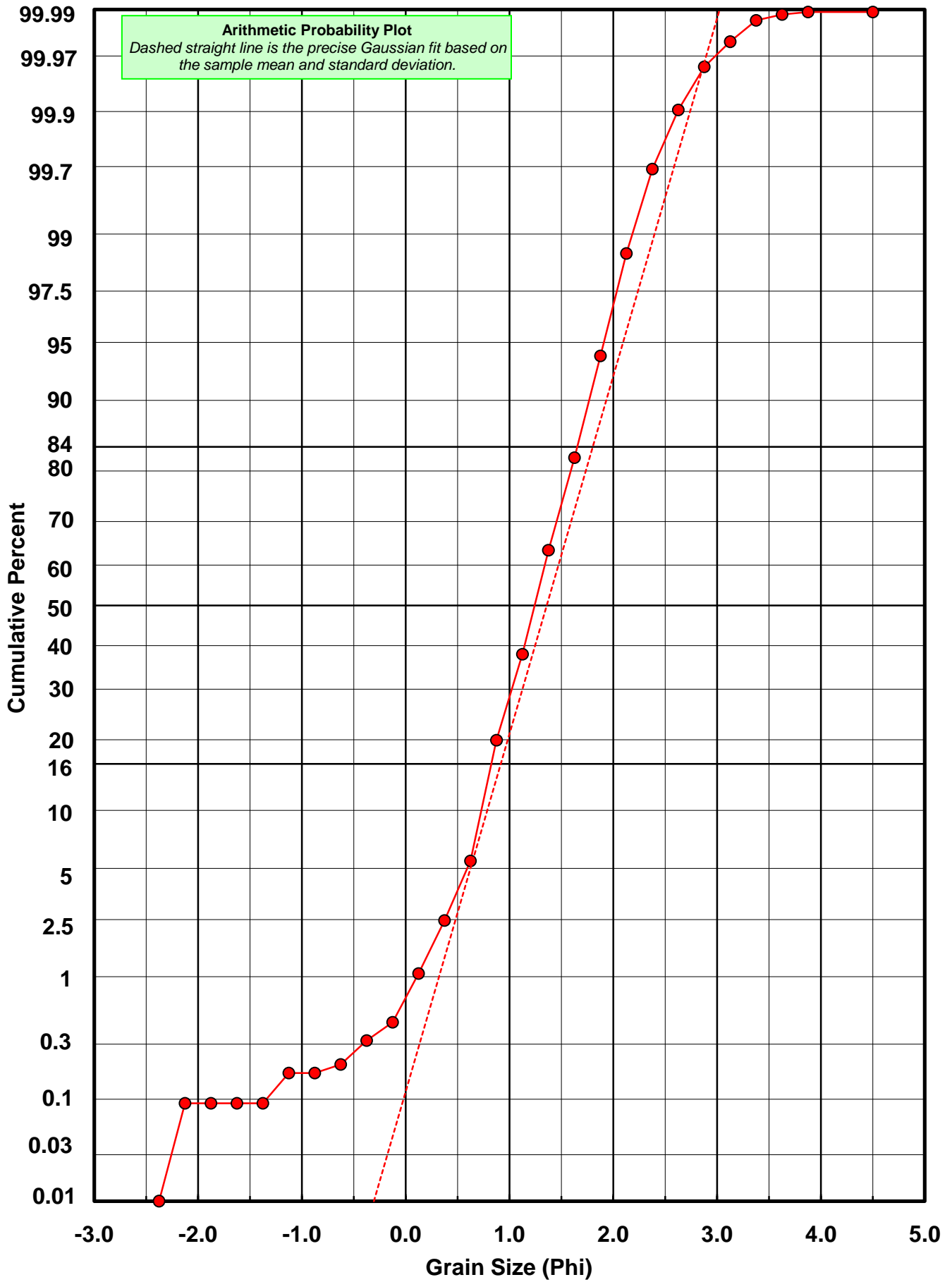
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-43-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-43-BB

Total Carbonate Mass: 31.317 grams

% Carbonate: 51.3 %

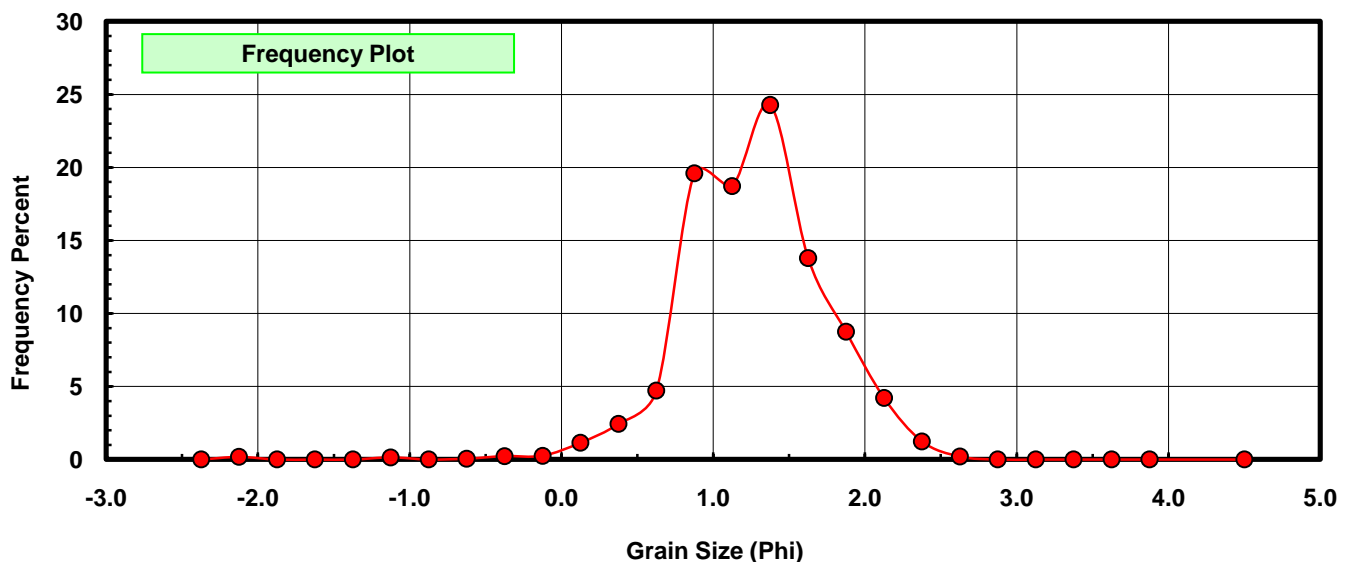
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.056	0.179	0.179
-1.75	-1.875	0.000	0.000	0.179
-1.50	-1.625	0.000	0.000	0.179
-1.25	-1.375	0.000	0.000	0.179
-1.00	-1.125	0.047	0.150	0.329
-0.75	-0.875	0.000	0.000	0.329
-0.50	-0.625	0.019	0.061	0.390
-0.25	-0.375	0.073	0.233	0.623
0.00	-0.125	0.081	0.259	0.881
0.25	0.125	0.361	1.153	2.034
0.50	0.375	0.764	2.440	4.474
0.75	0.625	1.477	4.716	9.190
1.00	0.875	6.138	19.600	28.789
1.25	1.125	5.863	18.721	47.511
1.50	1.375	7.603	24.278	71.788
1.75	1.625	4.320	13.794	85.583
2.00	1.875	2.739	8.746	94.329
2.25	2.125	1.321	4.218	98.547
2.50	2.375	0.390	1.245	99.792
2.75	2.625	0.064	0.204	99.997
3.00	2.875	0.001	0.003	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	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:	1.2617	phi	(0.417 mm)
Standard Dev:	0.4910	phi-units	(0.7115 mm)
Skewness:	-0.8047	dimensionless	
Kurtosis:	7.6249	dimensionless	
5th Moment:	-34.3807	dimensionless	
6th Moment:	233.3762	dimensionless	
RARD *	0.3892	dimensionless	
Median	1.1506	phi	(0.4504 mm)

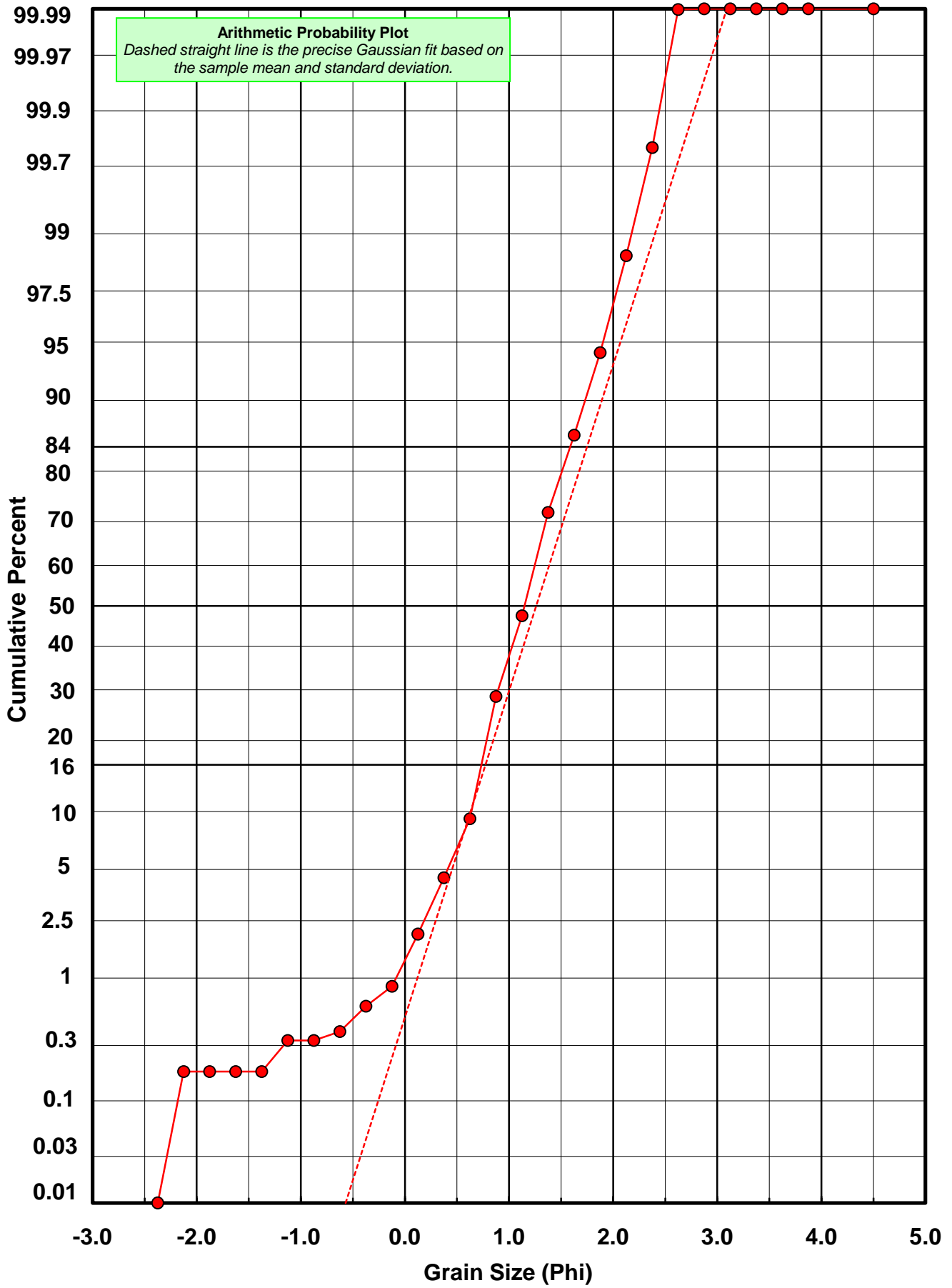
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated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

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PB-43-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-43-BB

Total Digested Mass: 29.737 grams

% Silica: 48.7 %

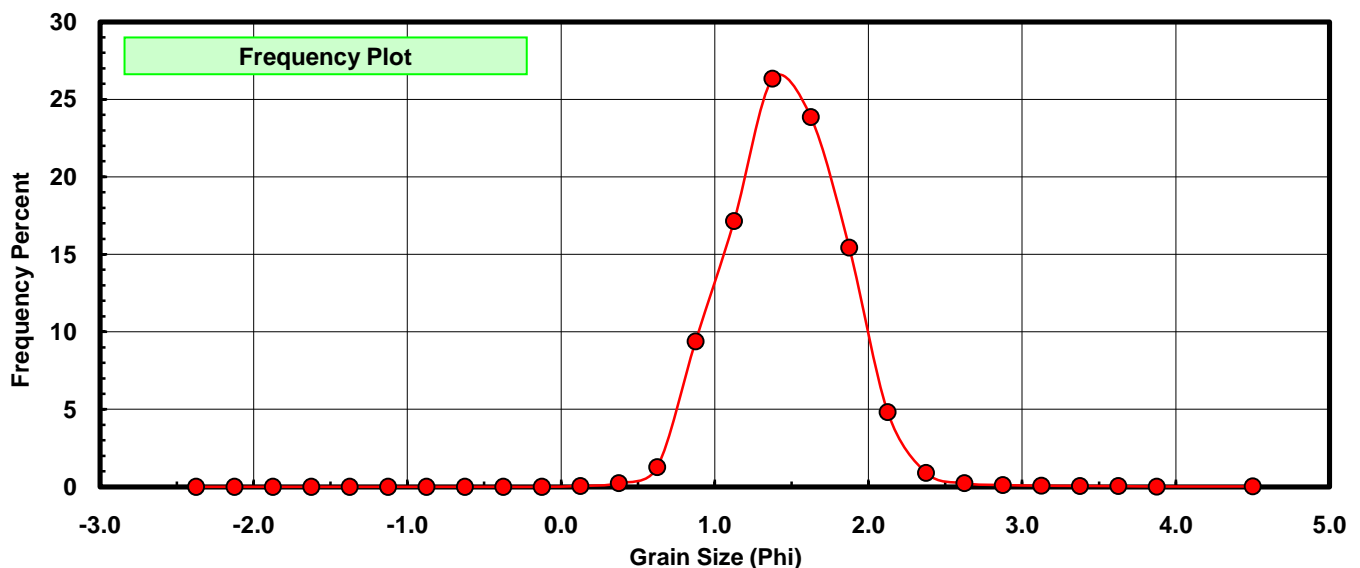
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.016	0.054	0.054
0.50	0.375	0.070	0.235	0.289
0.75	0.625	0.376	1.264	1.554
1.00	0.875	2.793	9.392	10.946
1.25	1.125	5.097	17.140	28.086
1.50	1.375	7.829	26.327	54.414
1.75	1.625	7.094	23.856	78.269
2.00	1.875	4.590	15.435	93.705
2.25	2.125	1.435	4.826	98.530
2.50	2.375	0.270	0.908	99.438
2.75	2.625	0.068	0.229	99.667
3.00	2.875	0.034	0.114	99.781
3.25	3.125	0.022	0.074	99.855
3.50	3.375	0.017	0.057	99.913
3.75	3.625	0.013	0.044	99.956
4.00	3.875	0.006	0.020	99.976
5.00	4.500	0.007	0.024	100.000

Statistical Results			
Mean:	1.4640	phi	(0.3625 mm)
Standard Dev:	0.3844	phi-units	(0.7661 mm)
Skewness:	0.4128	dimensionless	
Kurtosis:	4.8932	dimensionless	
5th Moment:	15.7772	dimensionless	
6th Moment:	112.9771	dimensionless	
RARD *	0.2625	dimensionless	
Median	1.3331	phi	(0.3969 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 $mm = 2^{(-\phi)}$	

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