

Onshore Grab Sample

Sample: PB-13-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/6/09
Splits? N/A

County: Palm Beach
Latitude: 26° 48' 3.2"
Longitude: 80° 01' 57.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 66.678 grams
Total Fines in Sample 0.073 grams
Total Percent Fines 0.11 %

Dry Sieving Summary

Total Sample Weight 66.585 grams
Total Digested Weight 24.983 grams
Total Carbonate Weight 41.602 grams
Total Silica % 37.52 %
Total Carbonate % 62.48 %
Carbonate/Silica Ratio 1.665

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-13-BB

Total Sample Mass: 66.585 grams

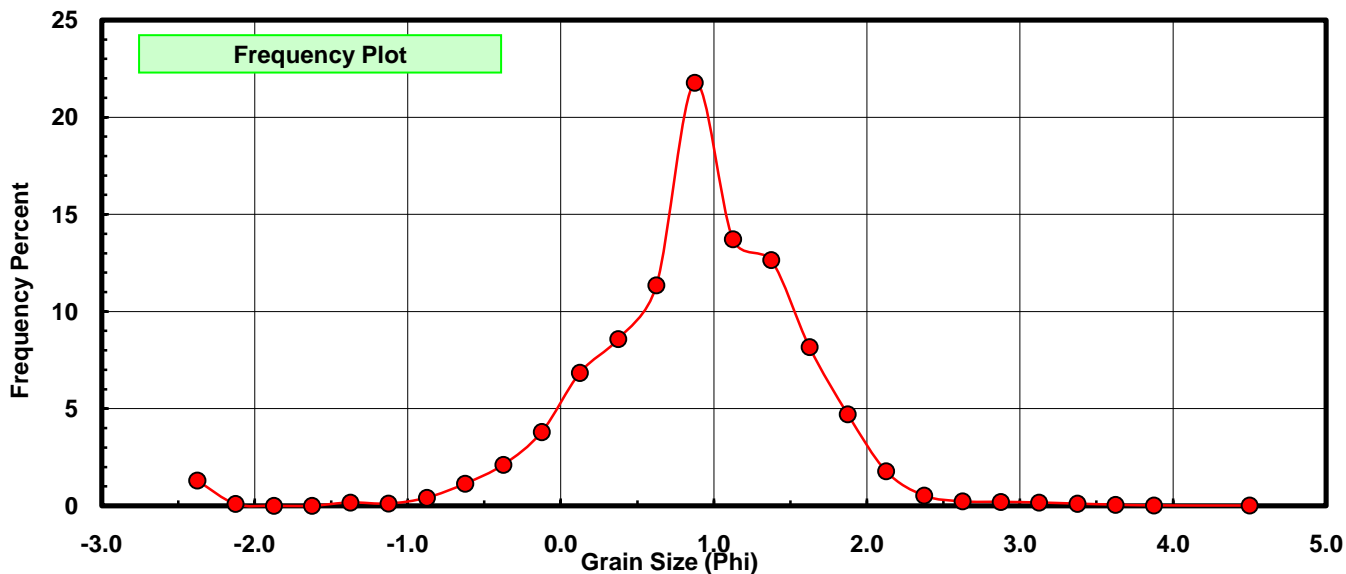
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.862	1.295	1.295
-2.00	-2.125	0.063	0.095	1.389
-1.75	-1.875	0.000	0.000	1.389
-1.50	-1.625	0.000	0.000	1.389
-1.25	-1.375	0.113	0.170	1.559
-1.00	-1.125	0.074	0.111	1.670
-0.75	-0.875	0.277	0.416	2.086
-0.50	-0.625	0.758	1.138	3.224
-0.25	-0.375	1.407	2.113	5.338
0.00	-0.125	2.527	3.795	9.133
0.25	0.125	4.556	6.842	15.975
0.50	0.375	5.717	8.586	24.561
0.75	0.625	7.551	11.340	35.901
1.00	0.875	14.500	21.777	57.678
1.25	1.125	9.130	13.712	71.390
1.50	1.375	8.423	12.650	84.040
1.75	1.625	5.434	8.161	92.201
2.00	1.875	3.135	4.708	96.909
2.25	2.125	1.187	1.783	98.692
2.50	2.375	0.347	0.521	99.213
2.75	2.625	0.151	0.227	99.440
3.00	2.875	0.134	0.201	99.641
3.25	3.125	0.112	0.168	99.809
3.50	3.375	0.071	0.107	99.916
3.75	3.625	0.037	0.056	99.971
4.00	3.875	0.011	0.017	99.988
5.00	4.50	0.008	0.012	100.000

Statistical Results			
Mean:	0.8655	phi	(0.5488 mm)
Standard Dev:	0.7437	phi-units	(0.5972 mm)
Skewness:	-1.0523	dimensionless	
Kurtosis:	7.0854	dimensionless	
5th Moment:	-20.3605	dimensionless	
6th Moment:	107.1340	dimensionless	
RARD *	0.8592	dimensionless	
Median	0.7869	phi	(0.5796 mm)

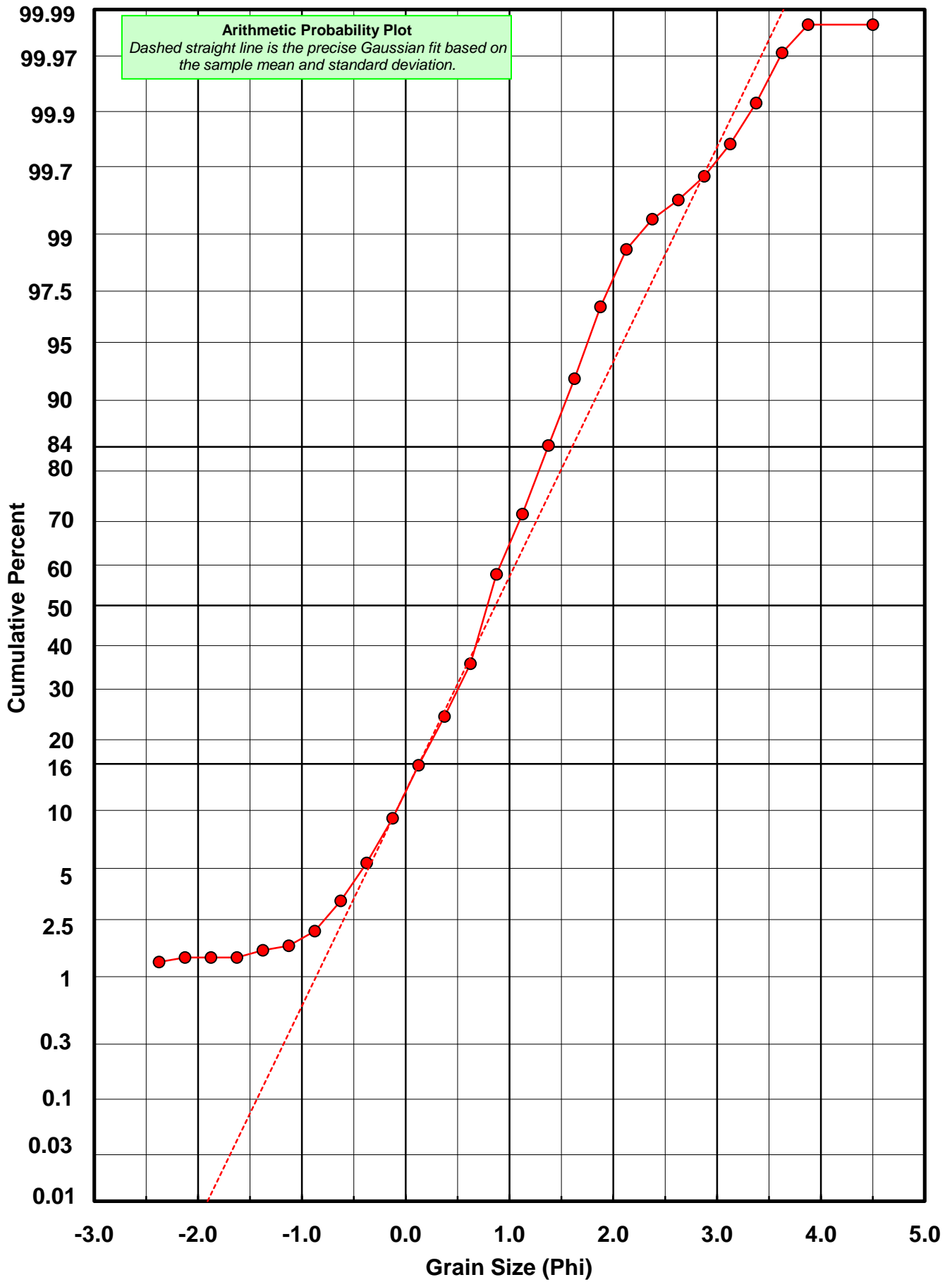
* RARD = reciprocal absolute relative dispersion (see below)

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-13-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-13-BB

Total Carbonate Mass: 41.700 grams

% Carbonate: 62.5 %

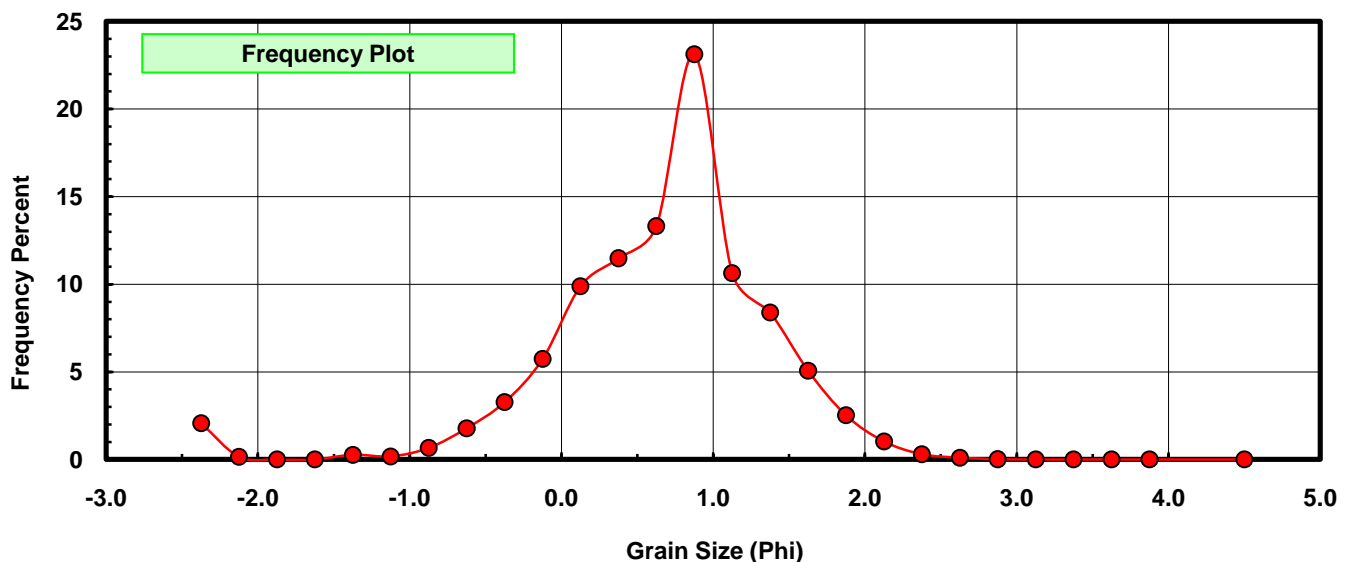
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.862	2.067	2.067
-2.00	-2.125	0.063	0.151	2.218
-1.75	-1.875	0.000	0.000	2.218
-1.50	-1.625	0.000	0.000	2.218
-1.25	-1.375	0.113	0.271	2.489
-1.00	-1.125	0.074	0.177	2.667
-0.75	-0.875	0.277	0.664	3.331
-0.50	-0.625	0.745	1.787	5.118
-0.25	-0.375	1.365	3.273	8.391
0.00	-0.125	2.391	5.734	14.125
0.25	0.125	4.124	9.890	24.014
0.50	0.375	4.789	11.484	35.499
0.75	0.625	5.555	13.321	48.820
1.00	0.875	9.643	23.125	71.945
1.25	1.125	4.432	10.628	82.573
1.50	1.375	3.499	8.391	90.964
1.75	1.625	2.112	5.065	96.029
2.00	1.875	1.051	2.520	98.549
2.25	2.125	0.430	1.031	99.580
2.50	2.375	0.125	0.300	99.880
2.75	2.625	0.043	0.103	99.983
3.00	2.875	0.007	0.017	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:	0.6433	phi	(0.6402 mm)
Standard Dev:	0.7634	phi-units	(0.5891 mm)
Skewness:	-1.3063	dimensionless	
Kurtosis:	6.7684	dimensionless	
5th Moment:	-21.3956	dimensionless	
6th Moment:	88.9169	dimensionless	
RARD *	1.1866	dimensionless	
Median	0.6378	phi	(0.6427 mm)

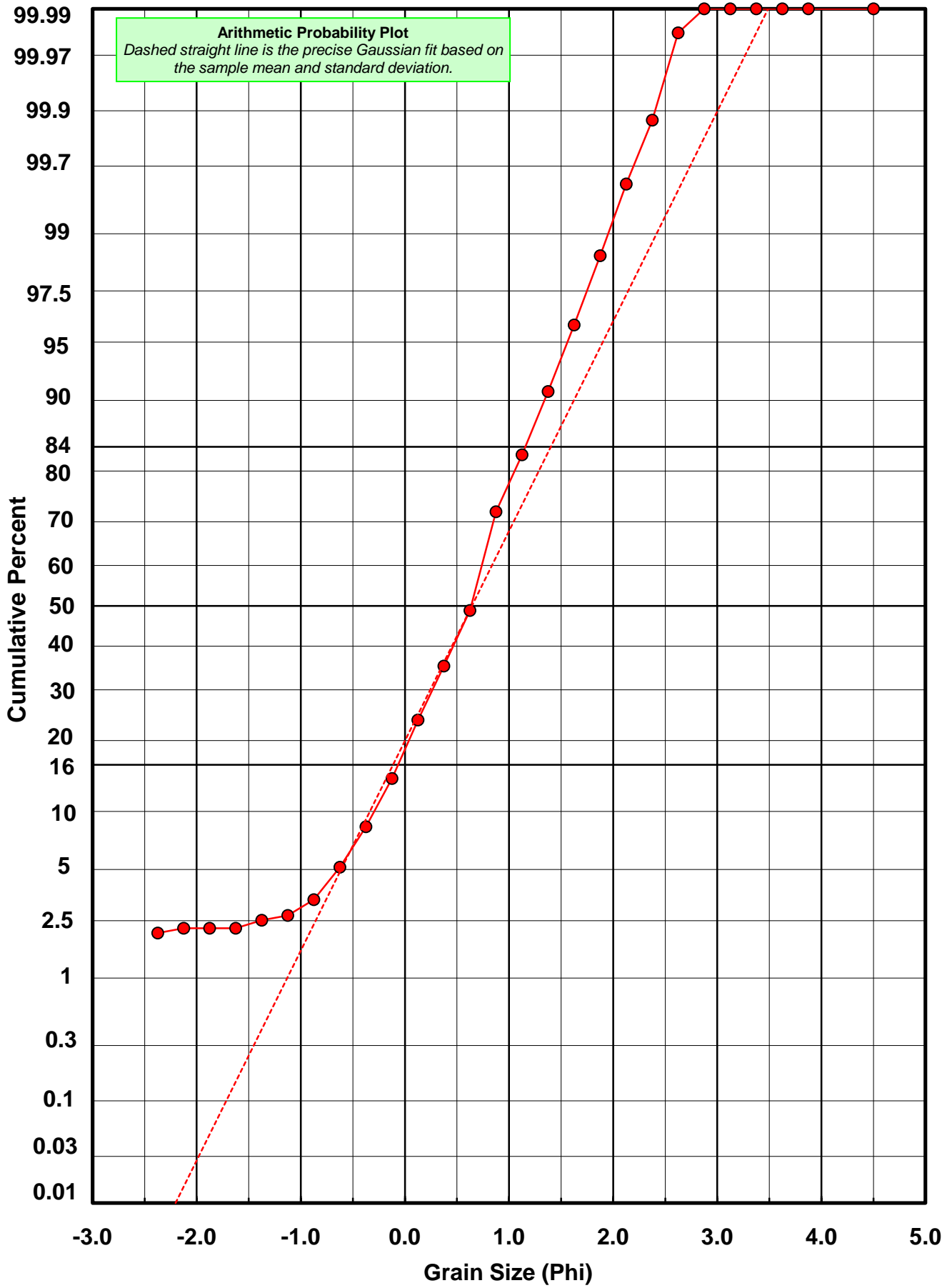
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-phi)}$	

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PB-13-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-13-BB

Total Digested Mass: 24.983 grams

% Silica: 37.5 %

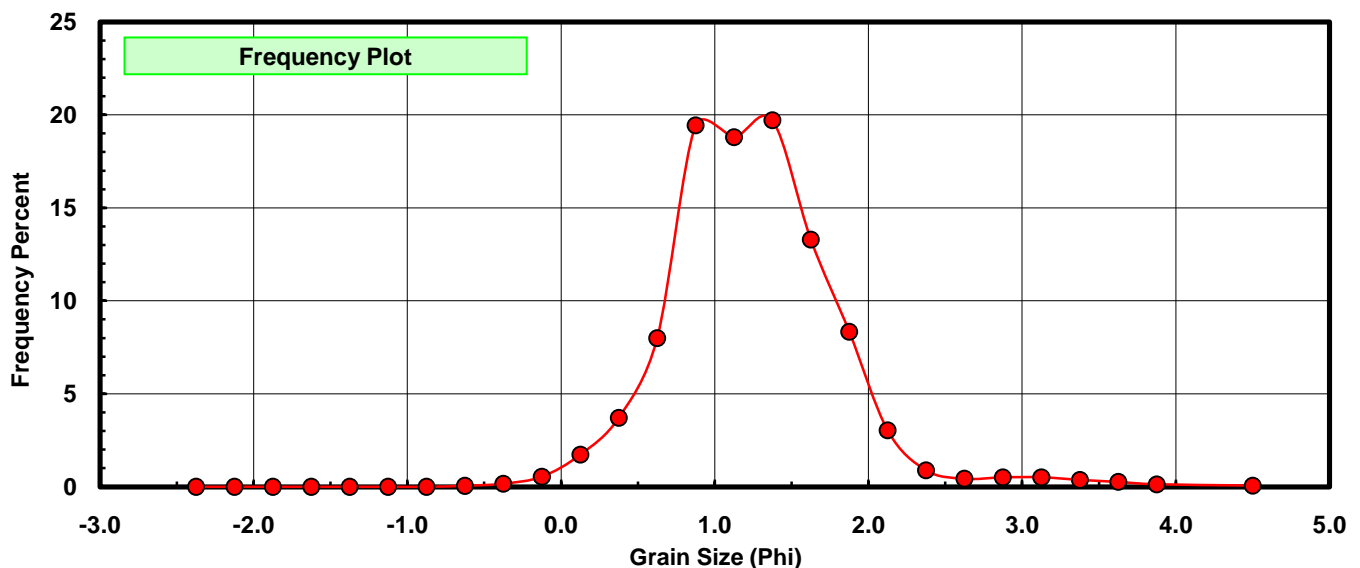
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.013	0.052	0.052
-0.25	-0.375	0.042	0.168	0.220
0.00	-0.125	0.136	0.544	0.765
0.25	0.125	0.432	1.729	2.494
0.50	0.375	0.928	3.715	6.208
0.75	0.625	1.996	7.989	14.198
1.00	0.875	4.857	19.441	33.639
1.25	1.125	4.698	18.805	52.444
1.50	1.375	4.924	19.709	72.153
1.75	1.625	3.322	13.297	85.450
2.00	1.875	2.084	8.342	93.792
2.25	2.125	0.757	3.030	96.822
2.50	2.375	0.222	0.889	97.710
2.75	2.625	0.108	0.432	98.143
3.00	2.875	0.127	0.508	98.651
3.25	3.125	0.128	0.512	99.163
3.50	3.375	0.093	0.372	99.536
3.75	3.625	0.065	0.260	99.796
4.00	3.875	0.034	0.136	99.932
5.00	4.500	0.017	0.068	100.000

Statistical Results			
Mean:	1.2473	phi	(0.4212 mm)
Standard Dev:	0.5635	phi-units	(0.6767 mm)
Skewness:	0.8389	dimensionless	
Kurtosis:	5.8425	dimensionless	
5th Moment:	16.5496	dimensionless	
6th Moment:	84.6196	dimensionless	
RARD *	0.4518	dimensionless	
Median	1.0925	phi	(0.4689 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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