

Onshore Grab Sample

Sample: MT-10
Sample Taken By: D. Phelps
Sample Collected On: 12/17/08
Splits? N/A

County: Martin
Latitude: 27° 08' 22.6"
Longitude: 80° 09' 19.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	58.329 grams
Total Fines in Sample	0.227 grams
Total Percent Fines	0.39 %

Dry Sieving Summary

Total Sample Weight	58.092 grams
Total Digested Weight	23.575 grams
Total Carbonate Weight	34.517 grams
Total Silica %	40.58 %
Total Carbonate %	59.42 %
Carbonate/Silica Ratio	1.464

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-10

Total Sample Mass: 58.092 grams

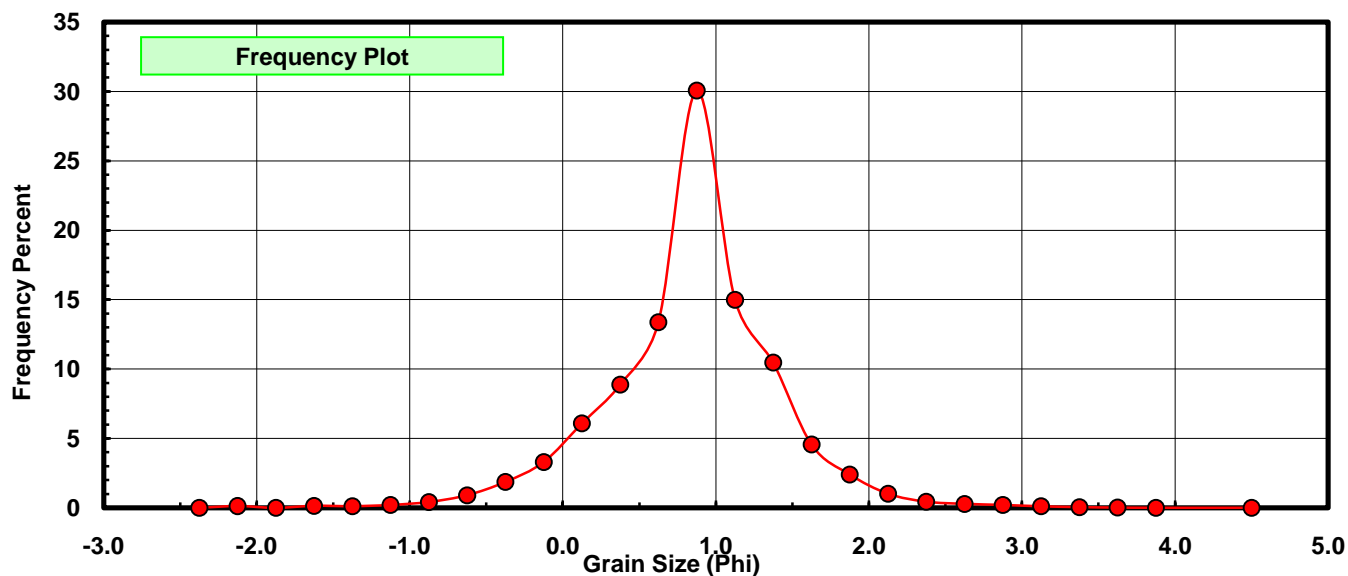
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.073	0.126	0.126
-1.75	-1.875	0.000	0.000	0.126
-1.50	-1.625	0.083	0.143	0.269
-1.25	-1.375	0.068	0.117	0.386
-1.00	-1.125	0.119	0.205	0.590
-0.75	-0.875	0.244	0.420	1.010
-0.50	-0.625	0.528	0.909	1.919
-0.25	-0.375	1.083	1.864	3.784
0.00	-0.125	1.914	3.295	7.078
0.25	0.125	3.530	6.077	13.155
0.50	0.375	5.157	8.877	22.032
0.75	0.625	7.763	13.363	35.396
1.00	0.875	17.470	30.073	65.469
1.25	1.125	8.709	14.992	80.460
1.50	1.375	6.075	10.458	90.918
1.75	1.625	2.648	4.558	95.476
2.00	1.875	1.395	2.401	97.878
2.25	2.125	0.589	1.014	98.891
2.50	2.375	0.256	0.441	99.332
2.75	2.625	0.166	0.286	99.618
3.00	2.875	0.120	0.207	99.824
3.25	3.125	0.063	0.108	99.933
3.50	3.375	0.028	0.048	99.981
3.75	3.625	0.009	0.015	99.997
4.00	3.875	0.001	0.002	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	0.8409	phi	(0.5583 mm)
Standard Dev:	0.5806	phi-units	(0.6687 mm)
Skewness:	-0.3319	dimensionless	
Kurtosis:	5.4692	dimensionless	
5th Moment:	-5.4503	dimensionless	
6th Moment:	66.9109	dimensionless	
RARD *	0.6905	dimensionless	
Median	0.7464	phi	(0.5961 mm)

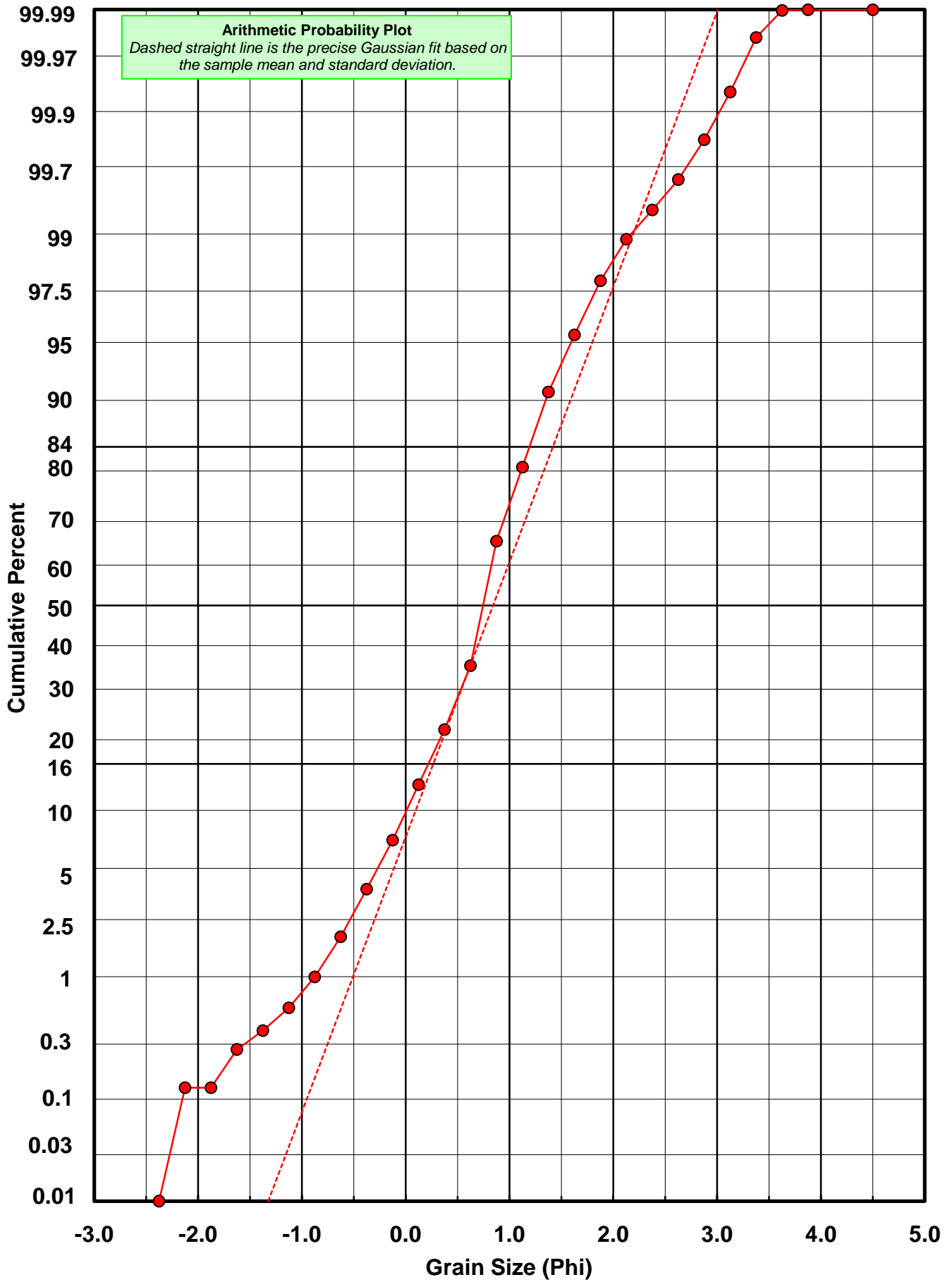
* RARD = reciprocal absolute relative dispersion (see below)

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)



MT-10



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-10

Total Carbonate Mass: 34.543 grams

% Carbonate: 59.4 %

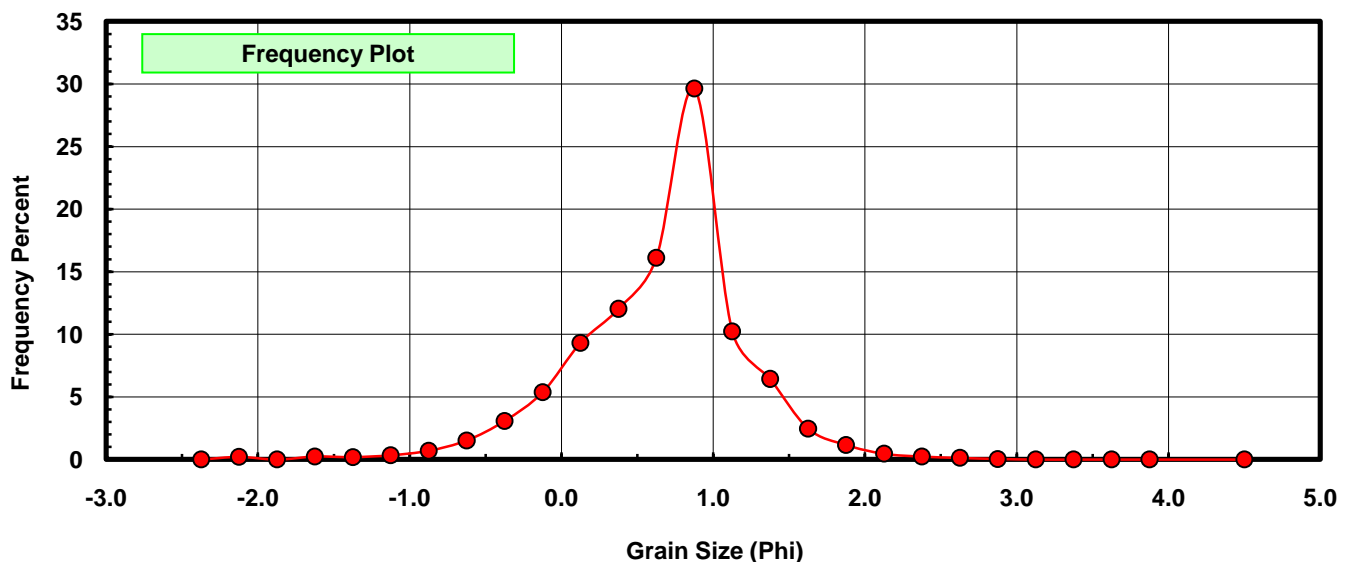
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.073	0.211	0.211
-1.75	-1.875	0.000	0.000	0.211
-1.50	-1.625	0.083	0.240	0.452
-1.25	-1.375	0.068	0.197	0.648
-1.00	-1.125	0.119	0.344	0.993
-0.75	-0.875	0.244	0.706	1.699
-0.50	-0.625	0.528	1.529	3.228
-0.25	-0.375	1.066	3.086	6.314
0.00	-0.125	1.856	5.373	11.687
0.25	0.125	3.221	9.325	21.011
0.50	0.375	4.159	12.040	33.052
0.75	0.625	5.568	16.119	49.171
1.00	0.875	10.236	29.633	78.803
1.25	1.125	3.538	10.242	89.046
1.50	1.375	2.225	6.441	95.487
1.75	1.625	0.854	2.472	97.959
2.00	1.875	0.403	1.167	99.126
2.25	2.125	0.159	0.460	99.586
2.50	2.375	0.082	0.237	99.823
2.75	2.625	0.045	0.130	99.954
3.00	2.875	0.016	0.046	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:	0.6538	phi	(0.6356 mm)
Standard Dev:	0.5793	phi-units	(0.6693 mm)
Skewness:	-0.6273	dimensionless	
Kurtosis:	4.9815	dimensionless	
5th Moment:	-9.3673	dimensionless	
6th Moment:	56.4808	dimensionless	
RARD *	0.8861	dimensionless	
Median	0.6320	phi	(0.6453 mm)

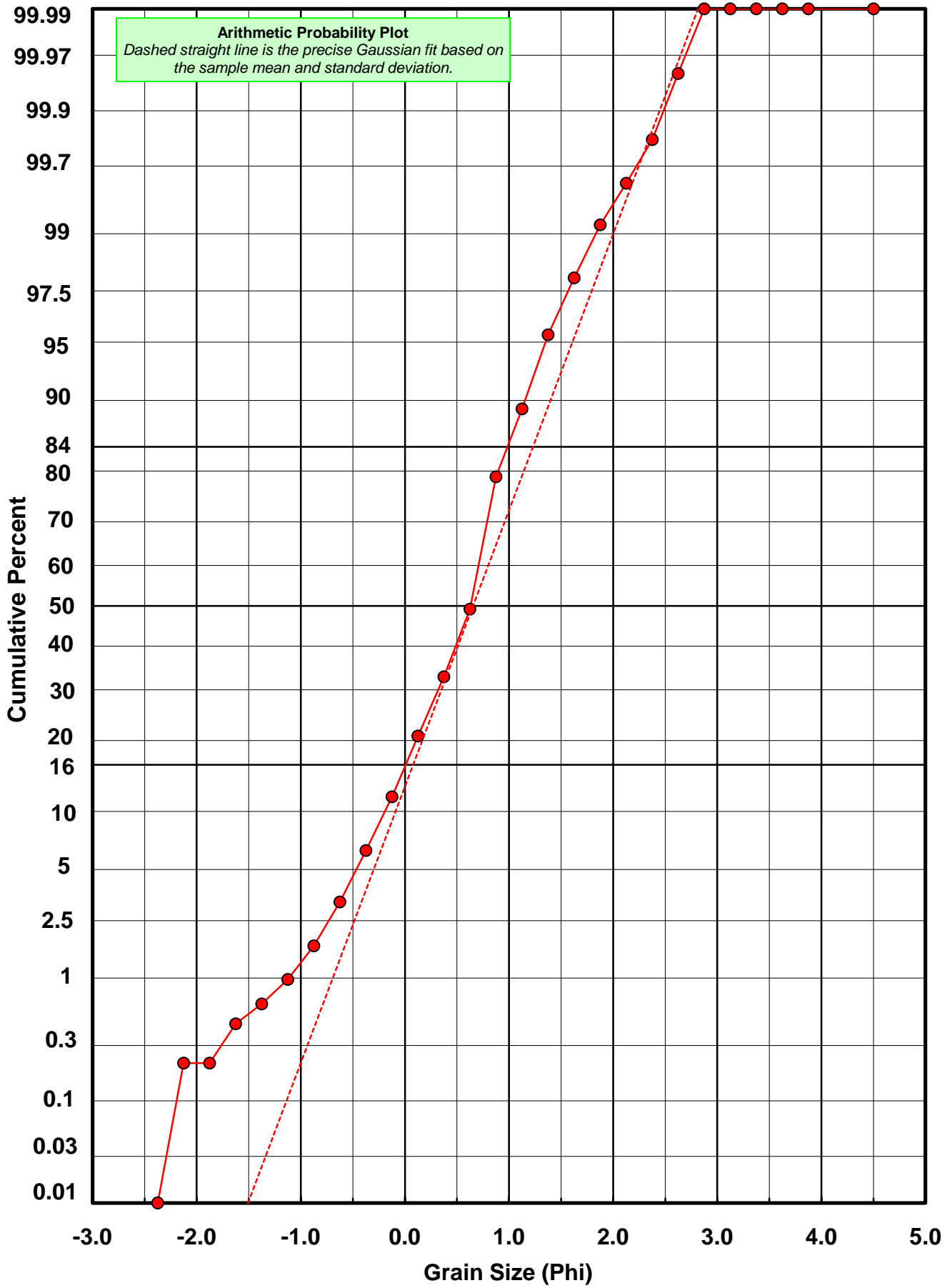
* RARD = reciprocal absolute relative dispersion (see below)

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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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-10

Total Digested Mass: 23.575 grams

% Silica: 40.6 %

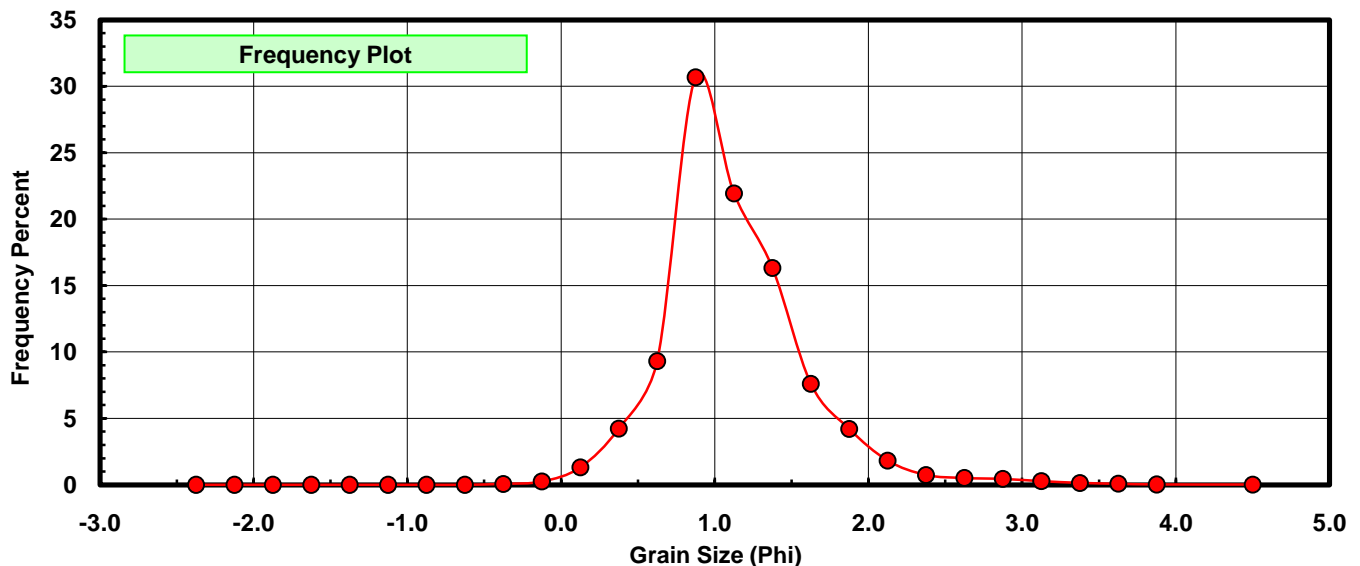
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.017	0.072	0.072
0.00	-0.125	0.058	0.246	0.318
0.25	0.125	0.309	1.311	1.629
0.50	0.375	0.998	4.233	5.862
0.75	0.625	2.195	9.311	15.173
1.00	0.875	7.234	30.685	45.858
1.25	1.125	5.171	21.934	67.792
1.50	1.375	3.850	16.331	84.123
1.75	1.625	1.794	7.610	91.733
2.00	1.875	0.992	4.208	95.941
2.25	2.125	0.430	1.824	97.765
2.50	2.375	0.174	0.738	98.503
2.75	2.625	0.121	0.513	99.016
3.00	2.875	0.104	0.441	99.457
3.25	3.125	0.065	0.276	99.733
3.50	3.375	0.034	0.144	99.877
3.75	3.625	0.018	0.076	99.953
4.00	3.875	0.006	0.025	99.979
5.00	4.500	0.005	0.021	100.000

Statistical Results			
Mean:	1.1181	phi	(0.4607 mm)
Standard Dev:	0.4793	phi-units	(0.7173 mm)
Skewness:	1.1117	dimensionless	
Kurtosis:	6.3655	dimensionless	
5th Moment:	21.2732	dimensionless	
6th Moment:	109.8128	dimensionless	
RARD *	0.4286	dimensionless	
Median	0.9222	phi	(0.5277 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
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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