

Onshore Grab Sample

Sample: CR-35
Sample Taken By: D. Phelps
Sample Collected On: 11/6/09
Splits? N/A

County: Collier
Latitude: 25° 57' 15.6"
Longitude: 81° 45' 11"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	43.712 grams
Total Fines in Sample	0.251 grams
Total Percent Fines	0.57 %

Dry Sieving Summary

Total Sample Weight	43.549 grams
Total Digested Weight	19.464 grams
Total Carbonate Weight	24.085 grams
Total Silica %	44.69 %
Total Carbonate %	55.31 %
Carbonate/Silica Ratio	1.237

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-35

Total Sample Mass: 43.549 grams

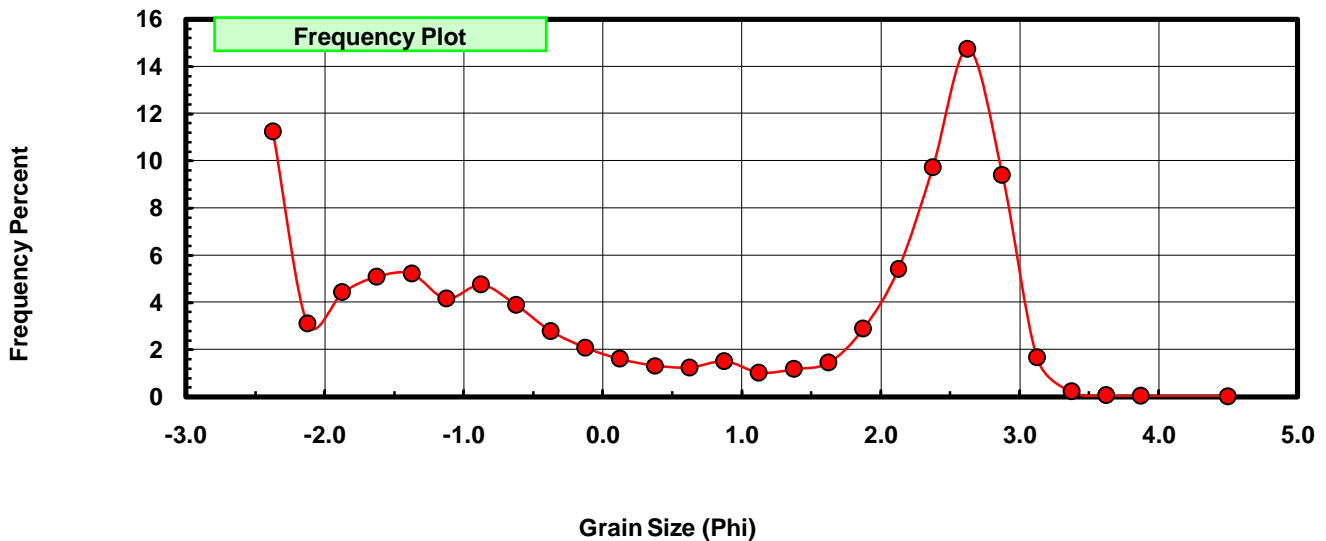
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.895	11.240	11.240
-2.00	-2.125	1.347	3.093	14.333
-1.75	-1.875	1.924	4.418	18.751
-1.50	-1.625	2.211	5.077	23.828
-1.25	-1.375	2.267	5.206	29.034
-1.00	-1.125	1.808	4.152	33.186
-0.75	-0.875	2.067	4.746	37.932
-0.50	-0.625	1.691	3.883	41.815
-0.25	-0.375	1.212	2.783	44.598
0.00	-0.125	0.901	2.069	46.667
0.25	0.125	0.698	1.603	48.270
0.50	0.375	0.575	1.320	49.590
0.75	0.625	0.537	1.233	50.823
1.00	0.875	0.652	1.497	52.320
1.25	1.125	0.443	1.017	53.338
1.50	1.375	0.507	1.164	54.502
1.75	1.625	0.628	1.442	55.944
2.00	1.875	1.256	2.884	58.828
2.25	2.125	2.347	5.389	64.217
2.50	2.375	4.229	9.711	73.928
2.75	2.625	6.417	14.735	88.663
3.00	2.875	4.090	9.392	98.055
3.25	3.125	0.719	1.651	99.706
3.50	3.375	0.091	0.209	99.915
3.75	3.625	0.021	0.048	99.963
4.00	3.875	0.010	0.023	99.986
5.00	4.50	0.006	0.014	100.000

Statistical Results			
Mean:	0.5015	phi	(0.7064 mm)
Standard Dev:	2.0212	phi-units	(0.2464 mm)
Skewness:	-0.1266	dimensionless	
Kurtosis:	1.3198	dimensionless	
5th Moment:	-0.4325	dimensionless	
6th Moment:	2.0050	dimensionless	
RARD *	4.0306	dimensionless	
Median	0.4581	phi	(0.7279 mm)

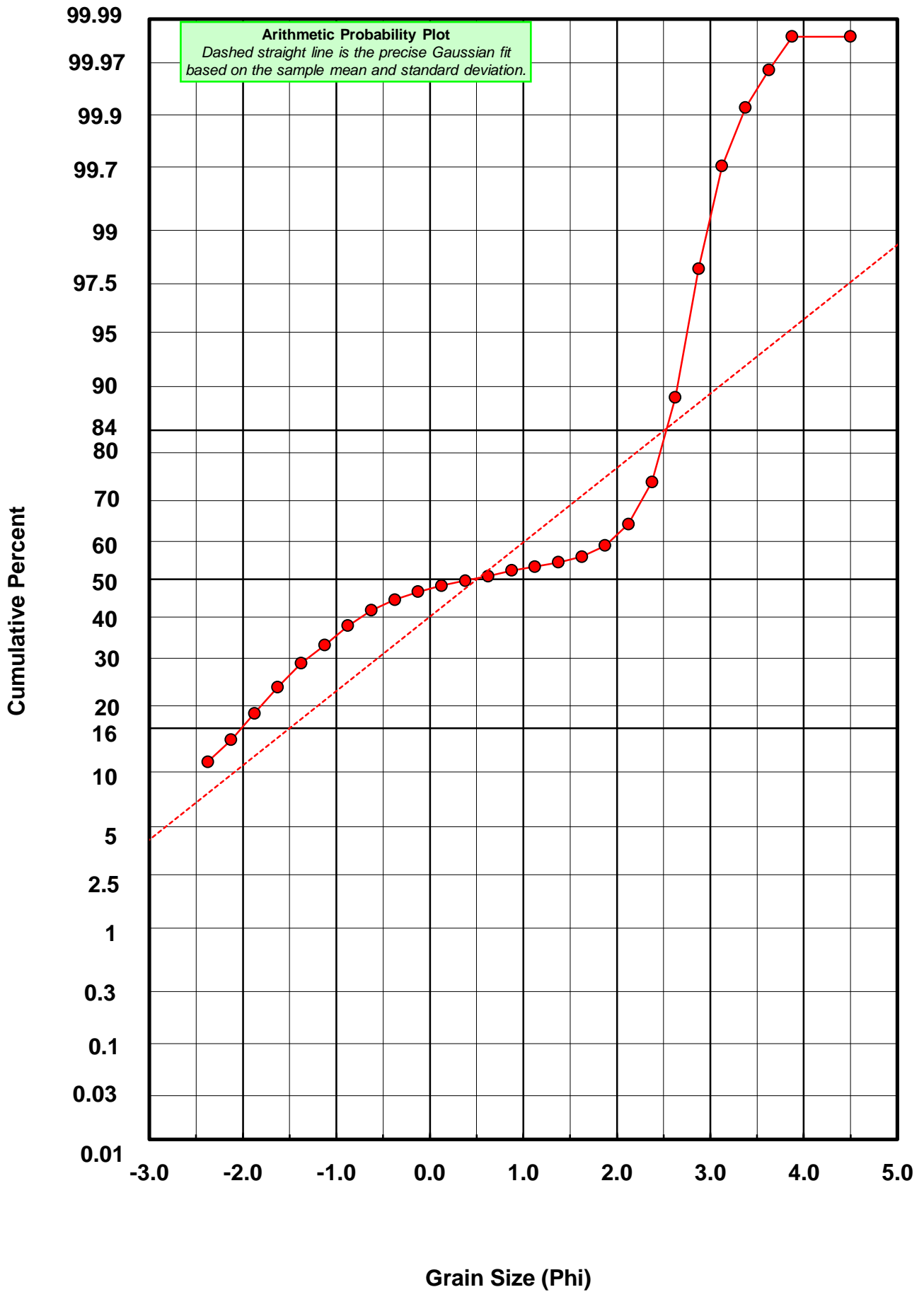
* RARD = reciprocal absolute relative dispersion (see below)

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)



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Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-35

Total Carbonate Mass: 24.301 grams

% Carbonate: 55.3 %

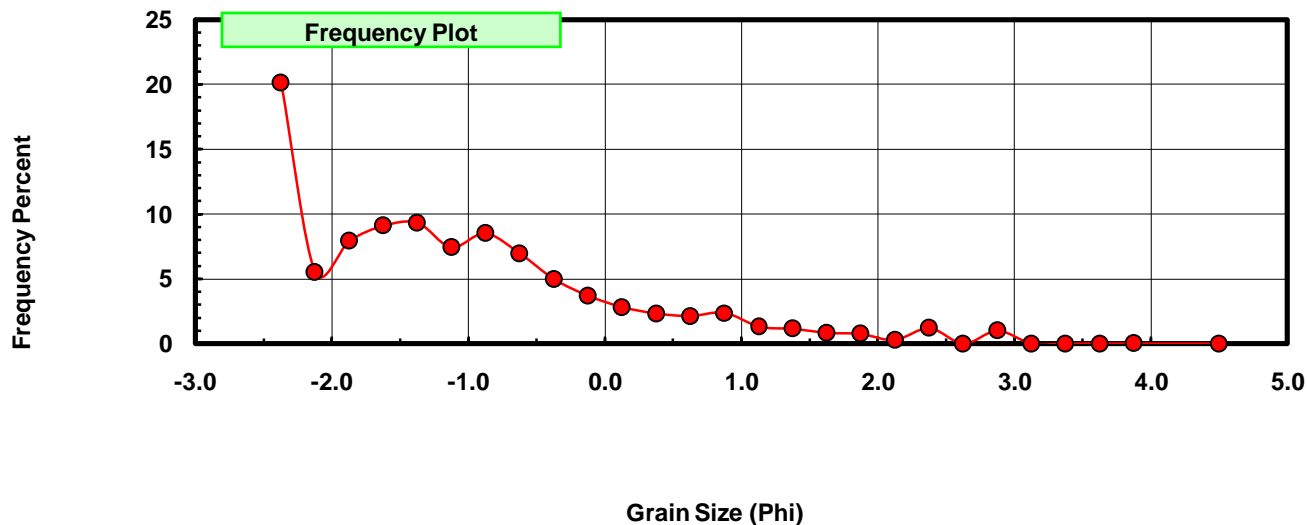
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.895	20.143	20.143
-2.00	-2.125	1.347	5.543	25.686
-1.75	-1.875	1.924	7.917	33.604
-1.50	-1.625	2.211	9.098	42.702
-1.25	-1.375	2.267	9.329	52.031
-1.00	-1.125	1.808	7.440	59.471
-0.75	-0.875	2.067	8.506	67.977
-0.50	-0.625	1.691	6.959	74.935
-0.25	-0.375	1.212	4.987	79.923
0.00	-0.125	0.901	3.708	83.630
0.25	0.125	0.687	2.827	86.457
0.50	0.375	0.565	2.325	88.782
0.75	0.625	0.517	2.127	90.910
1.00	0.875	0.580	2.387	93.297
1.25	1.125	0.323	1.329	94.626
1.50	1.375	0.281	1.156	95.782
1.75	1.625	0.208	0.856	96.638
2.00	1.875	0.187	0.770	97.408
2.25	2.125	0.072	0.296	97.704
2.50	2.375	0.294	1.210	98.914
2.75	2.625	0.000	0.000	98.914
3.00	2.875	0.249	1.025	99.938
3.25	3.125	0.000	0.000	99.938
3.50	3.375	0.003	0.012	99.951
3.75	3.625	0.003	0.012	99.963
4.00	3.875	0.005	0.021	99.984
5.00	4.500	0.004	0.016	100.000

Statistical Results			
Mean:	-1.0732	phi	(2.1041 mm)
Standard Dev:	1.2162	phi-units	(0.4304 mm)
Skewness:	1.0812	dimensionless	
Kurtosis:	3.8502	dimensionless	
5th Moment:	9.2987	dimensionless	
6th Moment:	28.4069	dimensionless	
RARD *	1.1332	dimensionless	
Median	-1.4294	phi	(2.6934 mm)

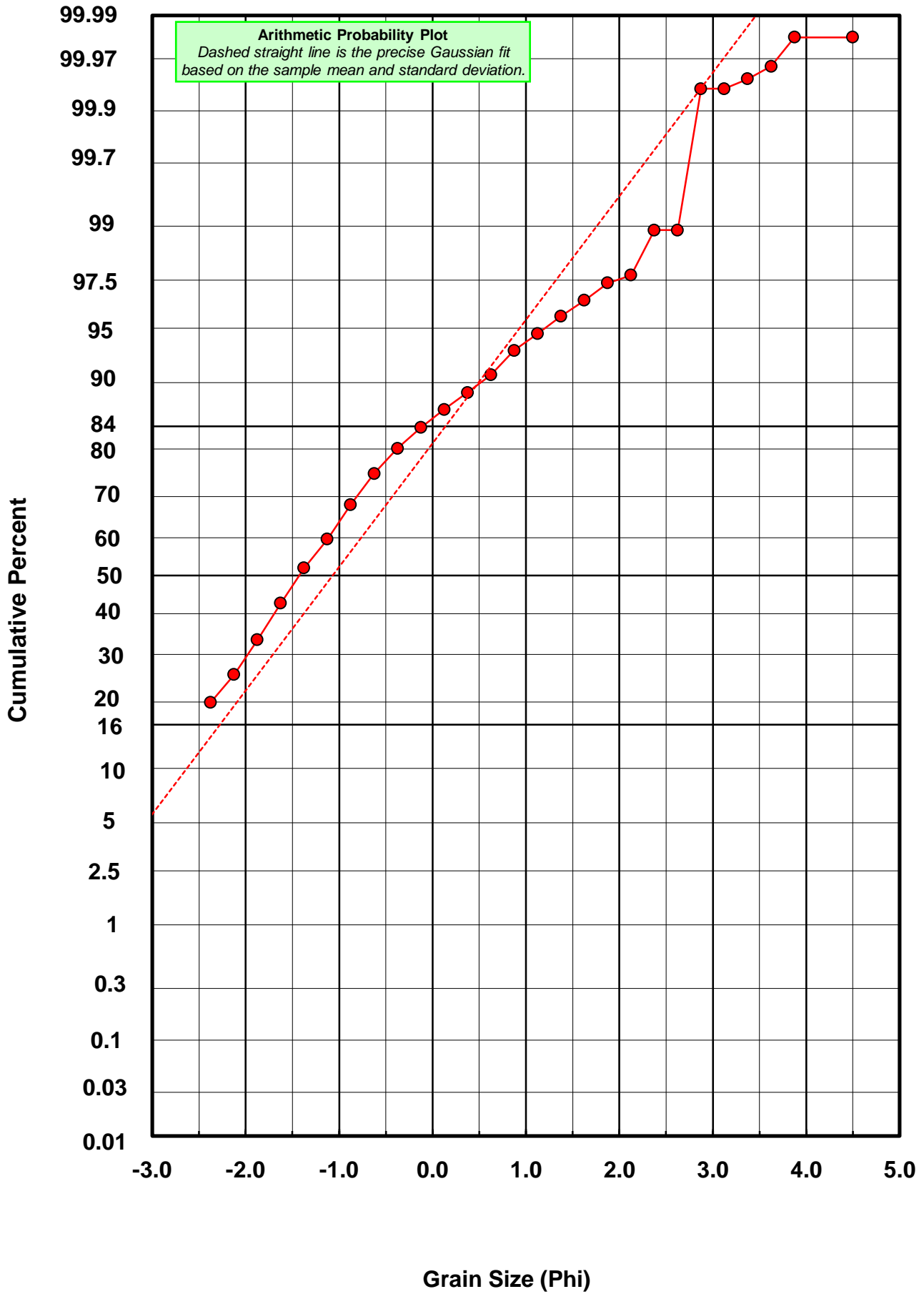
* RARD = reciprocal absolute relative dispersion (see below)

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	
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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-35

Total Digested Mass: 19.464 grams

% Silica: 44.7 %

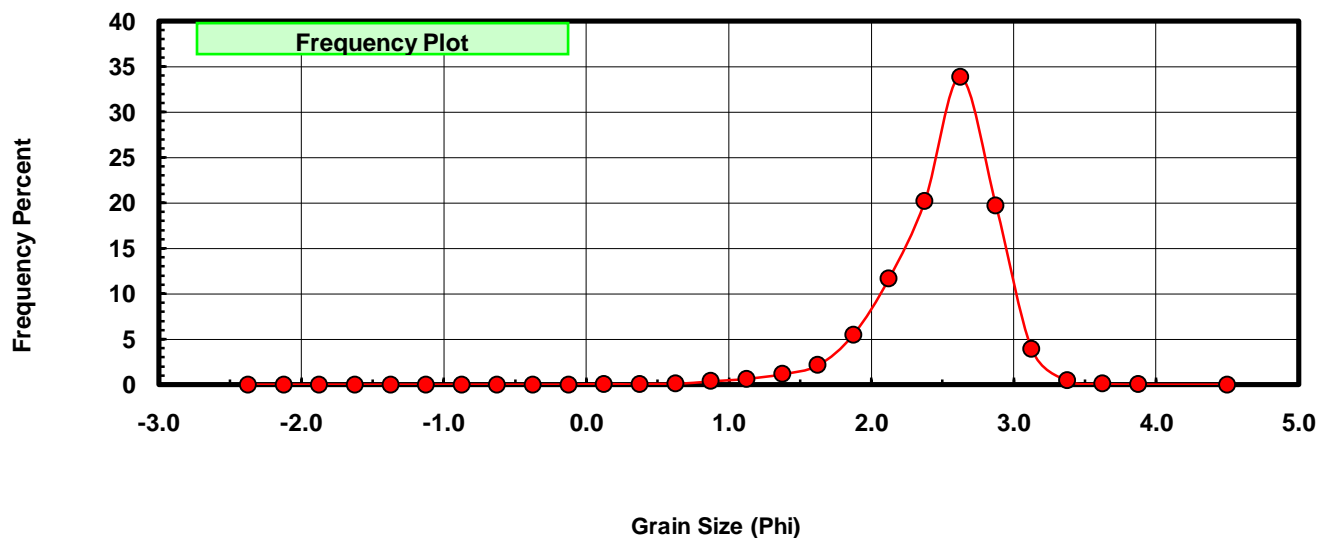
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.011	0.057	0.057
0.50	0.375	0.010	0.051	0.108
0.75	0.625	0.020	0.103	0.211
1.00	0.875	0.072	0.370	0.581
1.25	1.125	0.120	0.617	1.197
1.50	1.375	0.226	1.161	2.358
1.75	1.625	0.420	2.158	4.516
2.00	1.875	1.069	5.492	10.008
2.25	2.125	2.275	11.688	21.696
2.50	2.375	3.935	20.217	41.913
2.75	2.625	6.590	33.857	75.771
3.00	2.875	3.841	19.734	95.505
3.25	3.125	0.762	3.915	99.419
3.50	3.375	0.088	0.452	99.872
3.75	3.625	0.018	0.092	99.964
4.00	3.875	0.005	0.026	99.990
5.00	4.500	0.002	0.010	100.000

Statistical Results			
Mean:	2.4921	phi	(0.1777 mm)
Standard Dev:	0.4063	phi-units	(0.7545 mm)
Skewness:	-1.1310	dimensionless	
Kurtosis:	5.6200	dimensionless	
5th Moment:	-17.0950	dimensionless	
6th Moment:	81.1666	dimensionless	
RARD *	0.1630	dimensionless	
Median	2.4347	phi	(0.185 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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