

## Onshore Grab Sample

Sample: CR-33  
Sample Taken By: D. Phelps  
Sample Collected On: 11/6/09  
Splits? N/A

County: Collier  
Latitude: 25° 58' 20.8"  
Longitude: 81° 44' 14.1"  
Datum: WGS 84  
Surf. Elev: N/A  
Datum: N/A

### Fine Data Summary

Total Sample Weight	57.528 grams
Total Fines in Sample	0.538 grams
Total Percent Fines	0.93 %

### Dry Sieving Summary

Total Sample Weight	57.071 grams
Total Digested Weight	53.523 grams
Total Carbonate Weight	3.548 grams
Total Silica %	93.78 %
Total Carbonate %	6.22 %
Carbonate/Silica Ratio	0.066

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-33

Total Sample Mass: 57.071 grams

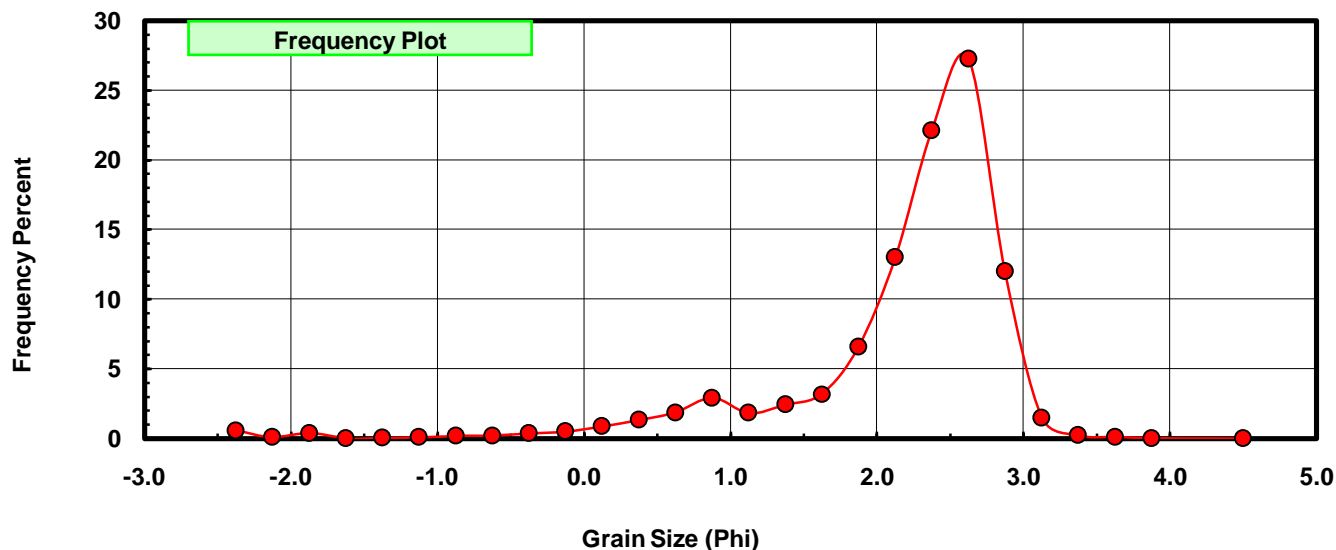
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.334	0.585	0.585
-2.00	-2.125	0.060	0.105	0.690
-1.75	-1.875	0.225	0.394	1.085
-1.50	-1.625	0.016	0.028	1.113
-1.25	-1.375	0.035	0.061	1.174
-1.00	-1.125	0.061	0.107	1.281
-0.75	-0.875	0.113	0.198	1.479
-0.50	-0.625	0.124	0.217	1.696
-0.25	-0.375	0.218	0.382	2.078
0.00	-0.125	0.297	0.520	2.599
0.25	0.125	0.508	0.890	3.489
0.50	0.375	0.766	1.342	4.831
0.75	0.625	1.067	1.870	6.700
1.00	0.875	1.665	2.917	9.618
1.25	1.125	1.051	1.842	11.459
1.50	1.375	1.400	2.453	13.912
1.75	1.625	1.833	3.212	17.124
2.00	1.875	3.752	6.574	23.699
2.25	2.125	7.428	13.015	36.714
2.50	2.375	12.629	22.129	58.842
2.75	2.625	15.559	27.263	86.105
3.00	2.875	6.859	12.018	98.123
3.25	3.125	0.851	1.491	99.615
3.50	3.375	0.132	0.231	99.846
3.75	3.625	0.065	0.114	99.960
4.00	3.875	0.015	0.026	99.986
5.00	4.50	0.008	0.014	100.000

Statistical Results			
Mean:	2.1655	phi	(0.2229 mm)
Standard Dev:	0.8363	phi-units	(0.5601 mm)
Skewness:	-2.4843	dimensionless	
Kurtosis:	11.1587	dimensionless	
5th Moment:	-50.8838	dimensionless	
6th Moment:	250.9300	dimensionless	
RARD *	0.3862	dimensionless	
Median	2.2751	phi	(0.2066 mm)

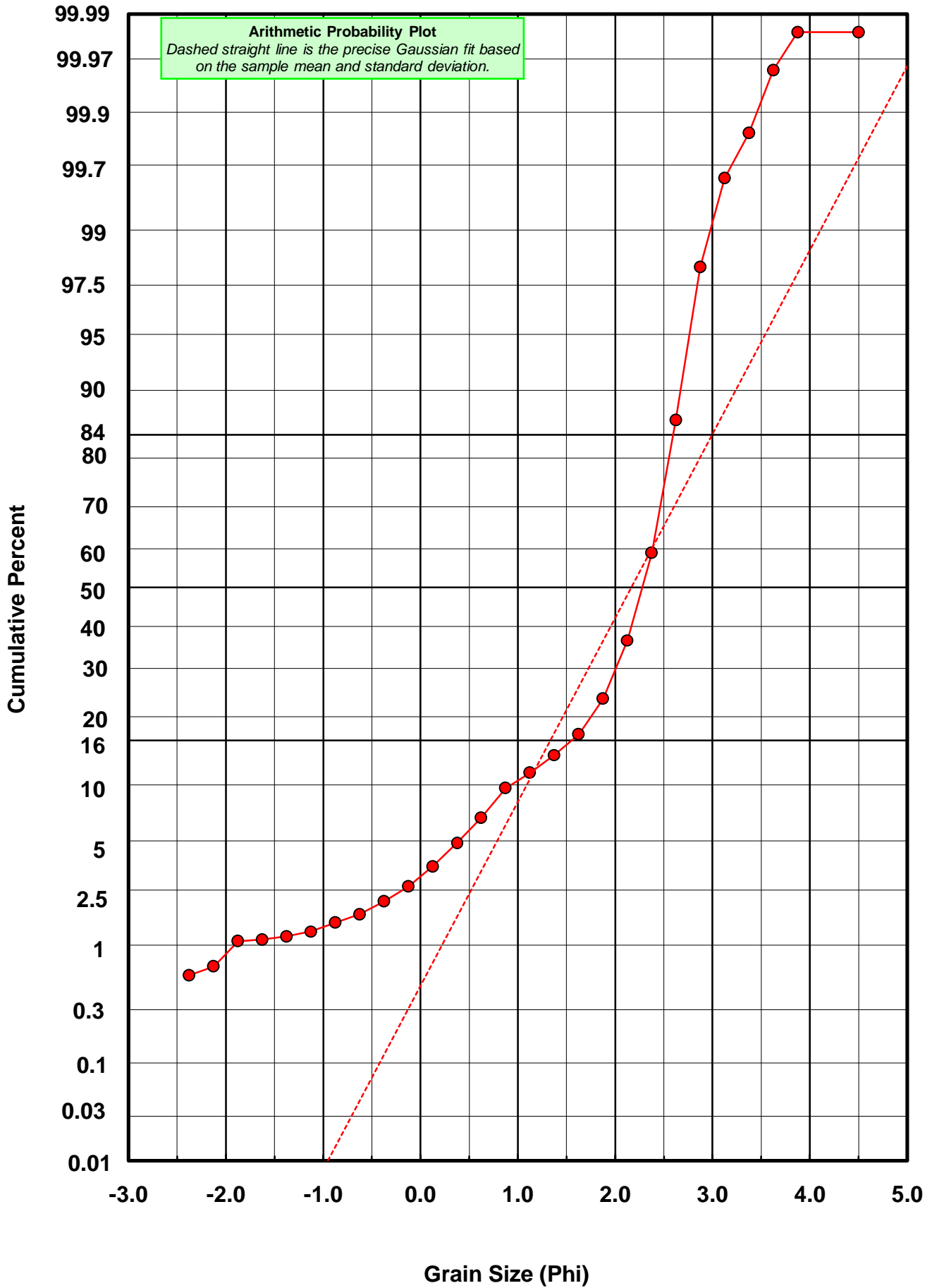
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# CR-33



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-33

Total Carbonate Mass: 4.356 grams

% Carbonate: 6.2 %

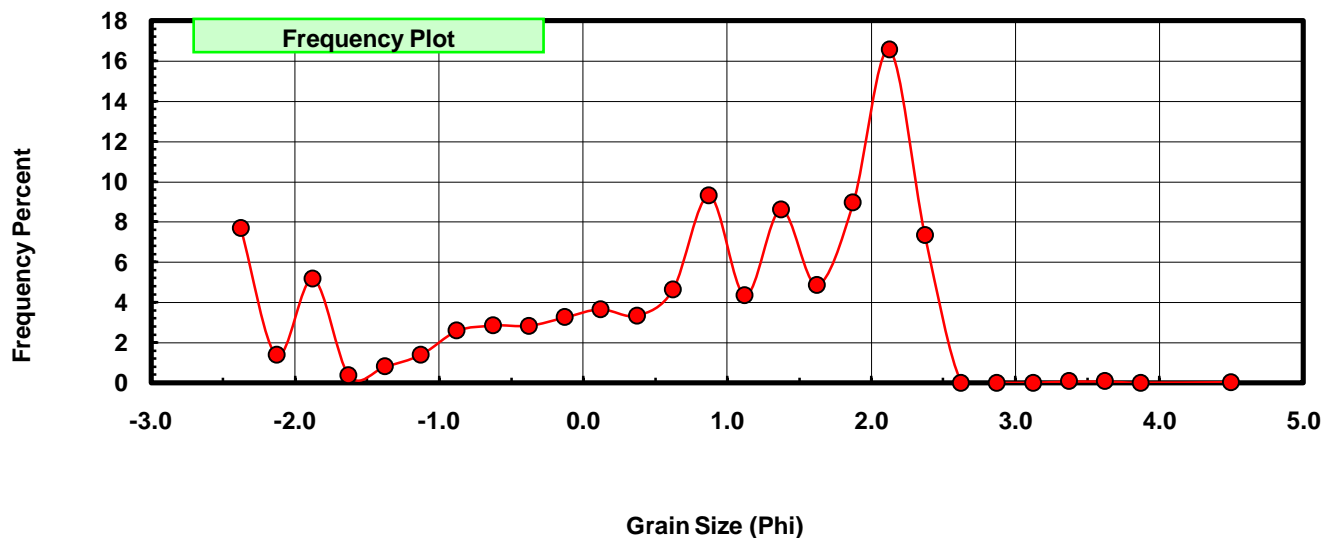
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.334	7.668	7.668
-2.00	-2.125	0.060	1.377	9.045
-1.75	-1.875	0.225	5.165	14.210
-1.50	-1.625	0.016	0.367	14.578
-1.25	-1.375	0.035	0.803	15.381
-1.00	-1.125	0.061	1.400	16.781
-0.75	-0.875	0.113	2.594	19.376
-0.50	-0.625	0.124	2.847	22.222
-0.25	-0.375	0.123	2.824	25.046
0.00	-0.125	0.142	3.260	28.306
0.25	0.125	0.159	3.650	31.956
0.50	0.375	0.145	3.329	35.285
0.75	0.625	0.201	4.614	39.899
1.00	0.875	0.405	9.298	49.197
1.25	1.125	0.189	4.339	53.535
1.50	1.375	0.375	8.609	62.144
1.75	1.625	0.212	4.867	67.011
2.00	1.875	0.390	8.953	75.964
2.25	2.125	0.721	16.552	92.516
2.50	2.375	0.319	7.323	99.839
2.75	2.625	0.000	0.000	99.839
3.00	2.875	0.000	0.000	99.839
3.25	3.125	0.000	0.000	99.839
3.50	3.375	0.003	0.069	99.908
3.75	3.625	0.003	0.069	99.977
4.00	3.875	0.000	0.000	99.977
5.00	4.500	0.001	0.023	100.000

Statistical Results			
Mean:	0.6767	phi	(0.6256 mm)
Standard Dev:	1.4946	phi-units	(0.3549 mm)
Skewness:	-0.7841	dimensionless	
Kurtosis:	2.4223	dimensionless	
5th Moment:	-3.5724	dimensionless	
6th Moment:	8.0795	dimensionless	
RARD *	2.2085	dimensionless	
Median	0.9213	phi	(0.528 mm)

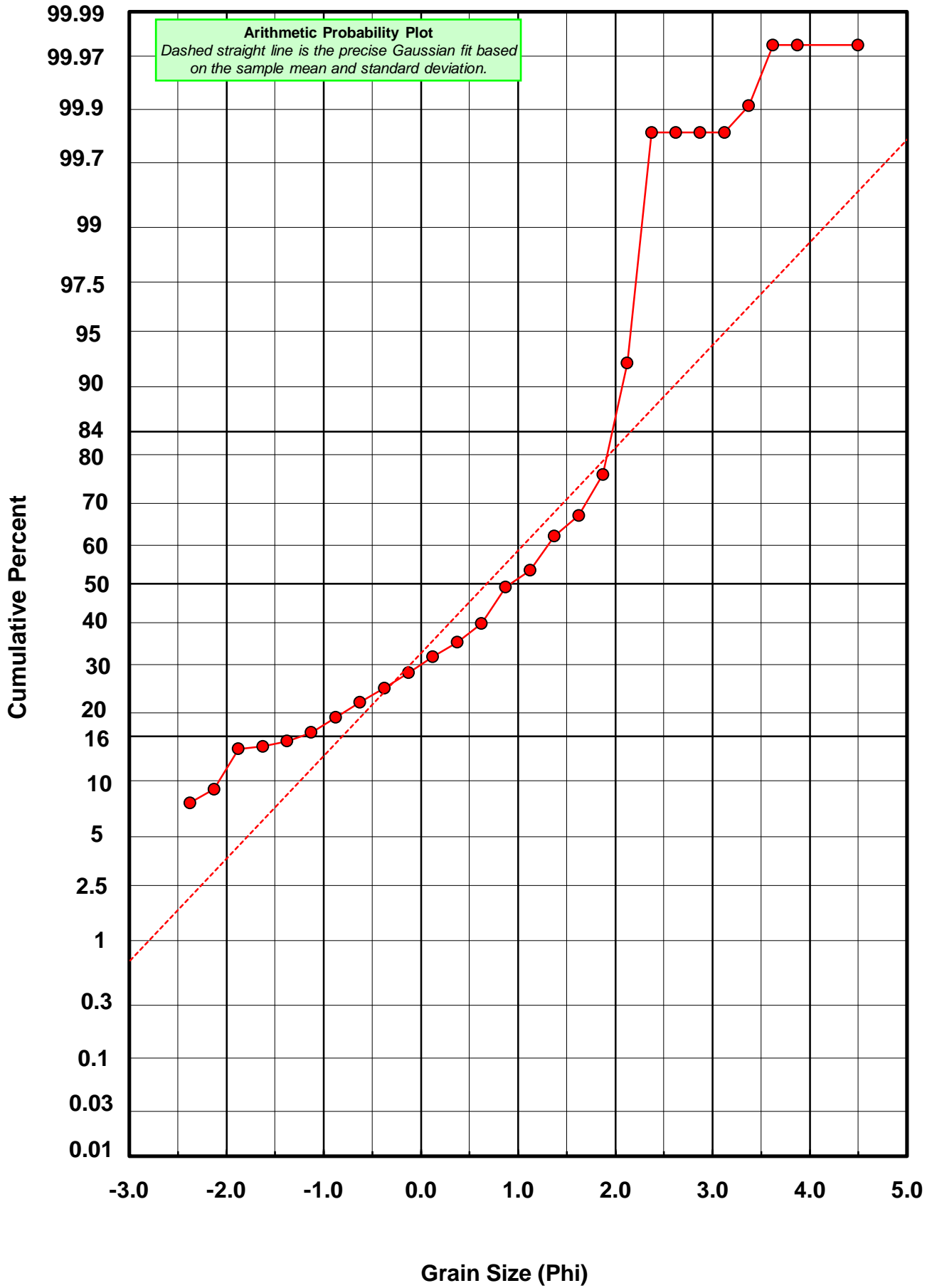
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# CR-33



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-33

Total Digested Mass: 53.523 grams

% Silica: 93.8 %

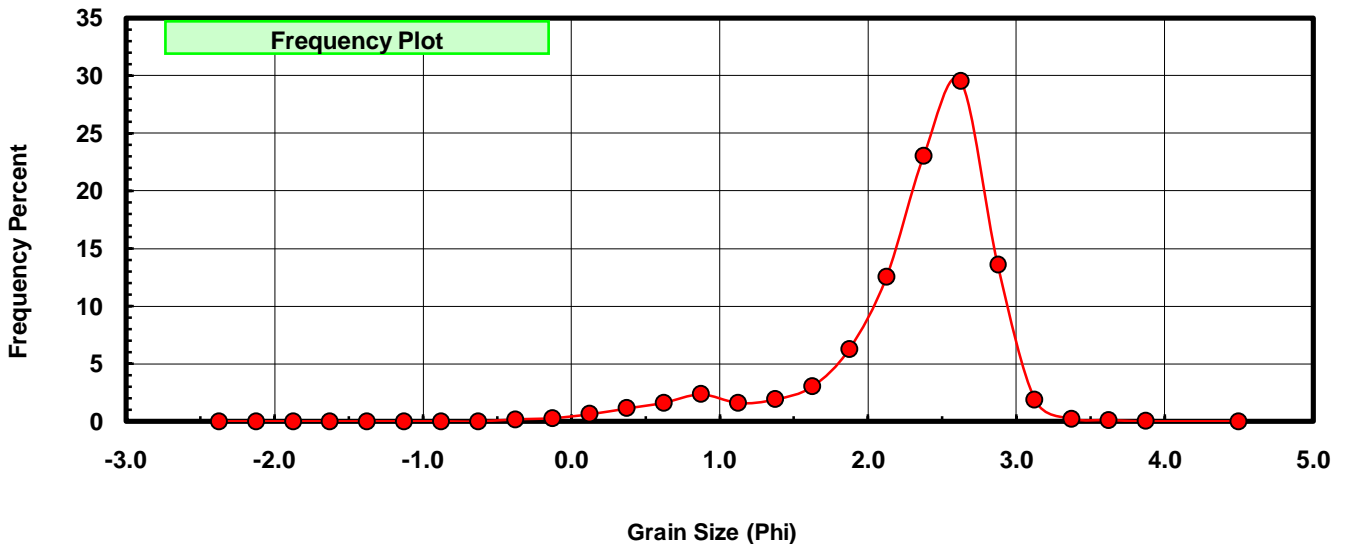
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.095	0.177	0.177
0.00	-0.125	0.155	0.290	0.467
0.25	0.125	0.349	0.652	1.119
0.50	0.375	0.621	1.160	2.279
0.75	0.625	0.866	1.618	3.897
1.00	0.875	1.260	2.354	6.252
1.25	1.125	0.862	1.611	7.862
1.50	1.375	1.025	1.915	9.777
1.75	1.625	1.621	3.029	12.806
2.00	1.875	3.362	6.281	19.087
2.25	2.125	6.707	12.531	31.618
2.50	2.375	12.310	22.999	54.618
2.75	2.625	15.789	29.499	84.117
3.00	2.875	7.269	13.581	97.698
3.25	3.125	1.018	1.902	99.600
3.50	3.375	0.129	0.241	99.841
3.75	3.625	0.062	0.116	99.957
4.00	3.875	0.016	0.030	99.987
5.00	4.500	0.007	0.013	100.000

Statistical Results			
Mean:	2.2971	phi	(0.2035 mm)
Standard Dev:	0.6064	phi-units	(0.6568 mm)
Skewness:	-1.6786	dimensionless	
Kurtosis:	6.0914	dimensionless	
5th Moment:	-18.2630	dimensionless	
6th Moment:	64.4991	dimensionless	
RARD *	0.2640	dimensionless	
Median	2.3248	phi	(0.1996 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)



# CR-33

