

**Onshore Grab Sample**

**Sample:** DU-03-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** Duval  
**Latitude:** 30° 21' 42.6"  
**Longitude:** 81° 23' 49.8"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 48.438 grams  
Total Fines in Sample 0.539 grams  
Total Percent Fines 1.10 %

**Dry Sieving Summary**

Total Sample Weight 47.937 grams  
Total Digested Weight 46.921 grams  
Total Carbonate Weight 1.016 grams  
Total Silica % 97.88 %  
Total Carbonate % 2.12 %  
Carbonate/Silica Ratio 0.022

**General Comments:**

None

**Description**

Worked By: C. Fischler  
Reviewed and Edited By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-03-MB

Total Sample Mass: 47.937 grams

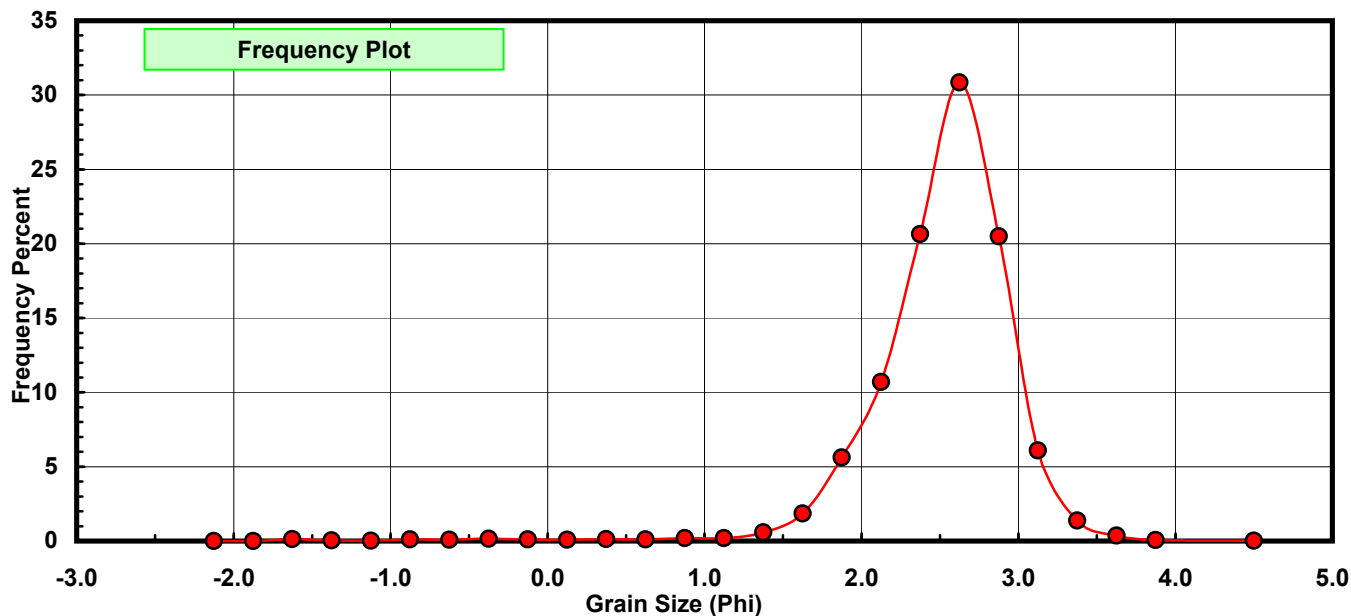
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.065	0.136	0.136
-1.25	-1.375	0.016	0.033	0.169
-1.00	-1.125	0.009	0.019	0.188
-0.75	-0.875	0.047	0.098	0.286
-0.50	-0.625	0.042	0.088	0.373
-0.25	-0.375	0.069	0.144	0.517
0.00	-0.125	0.052	0.108	0.626
0.25	0.125	0.045	0.094	0.720
0.50	0.375	0.064	0.134	0.853
0.75	0.625	0.048	0.100	0.953
1.00	0.875	0.090	0.188	1.141
1.25	1.125	0.092	0.192	1.333
1.50	1.375	0.276	0.576	1.909
1.75	1.625	0.889	1.855	3.763
2.00	1.875	2.698	5.628	9.391
2.25	2.125	5.131	10.704	20.095
2.50	2.375	9.896	20.644	40.739
2.75	2.625	14.784	30.840	71.579
3.00	2.875	9.823	20.491	92.071
3.25	3.125	2.920	6.091	98.162
3.50	3.375	0.659	1.375	99.537
3.75	3.625	0.179	0.373	99.910
4.00	3.875	0.035	0.073	99.983
5.00	4.500	0.008	0.017	100.000

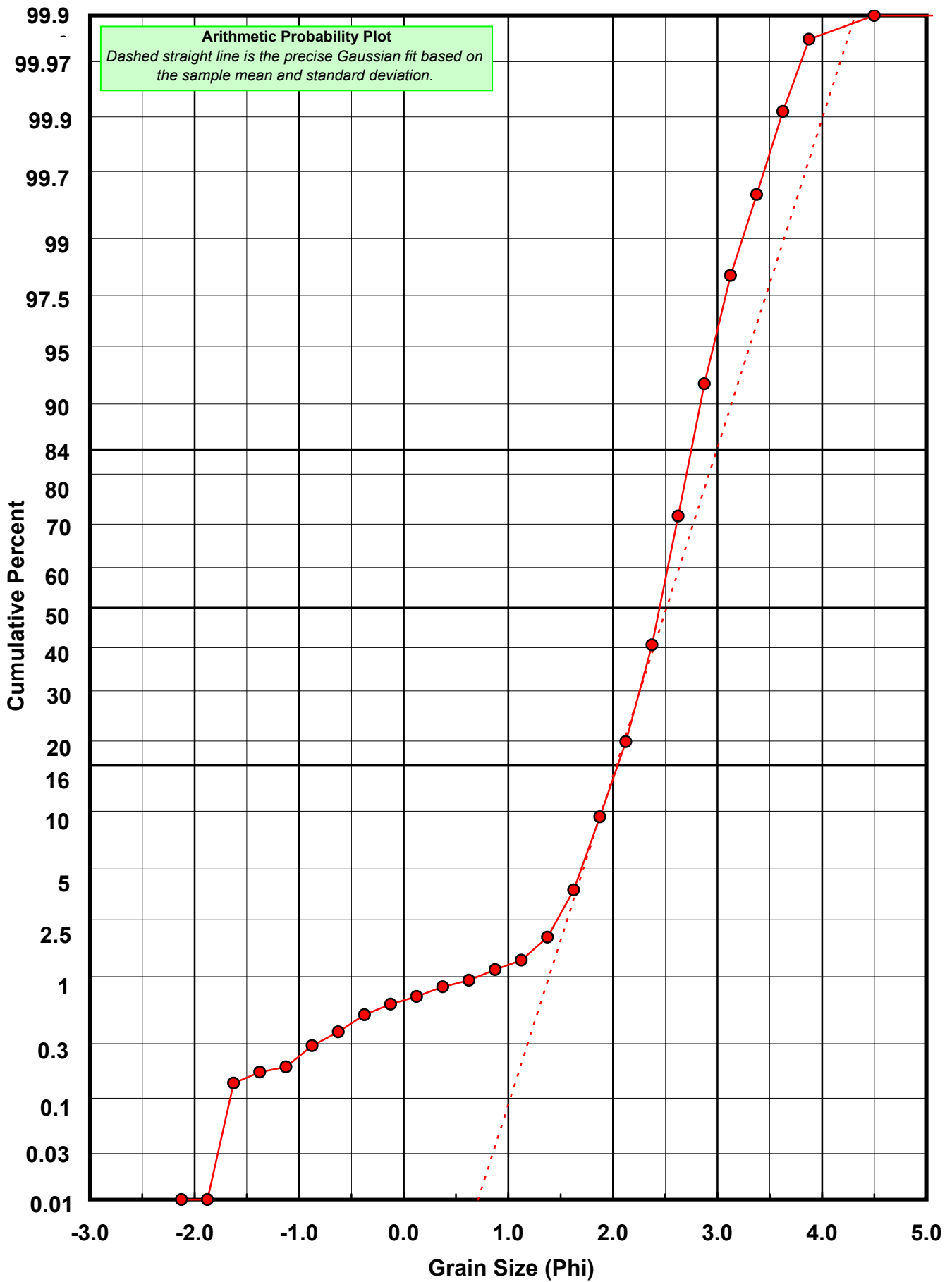
Statistical Results			
Mean:	2.5140	phi	(0.1751 mm)
Standard Dev:	0.4840	phi-units	(0.715 mm)
Skewness:	-2.6378	dimensionless	
Kurtosis:	19.1709	dimensionless	
5th Moment:	-130.2561	dimensionless	
6th Moment:	984.4566	dimensionless	
RARD *	0.1925	dimensionless	
Median	2.4501	phi	(0.183 mm)

\* 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 Calculation Sheets
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)





# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DU-03-MB

Total Carbonate Mass: 1.216 grams

% Carbonate: 2.1 %

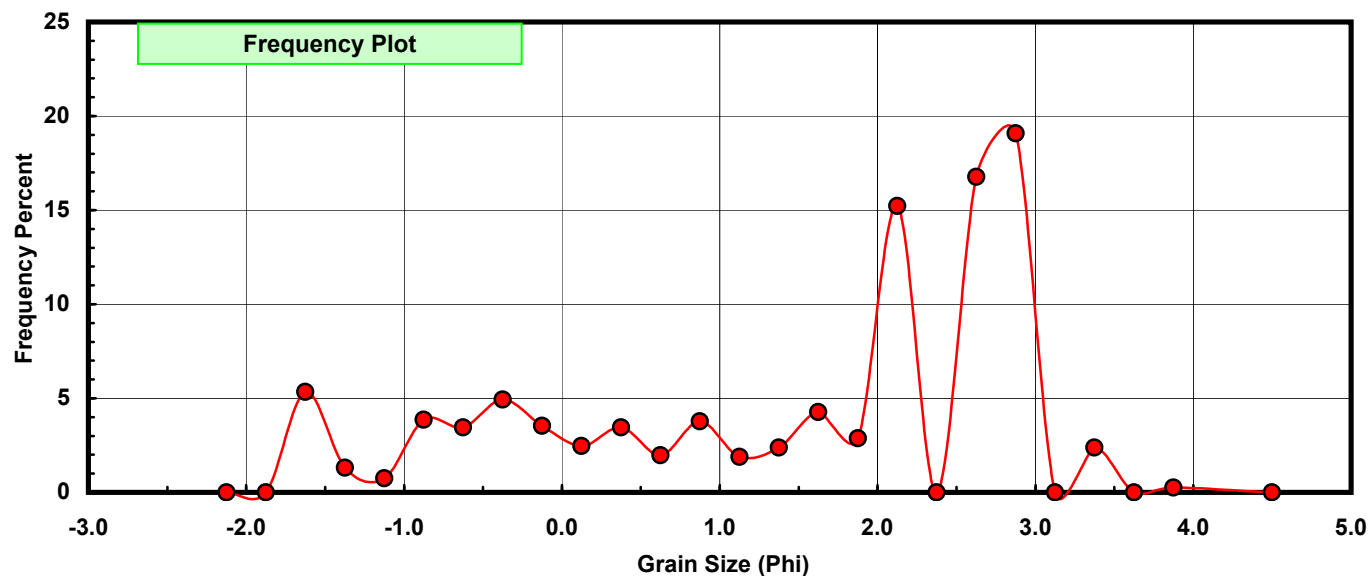
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.065	5.345	5.345
-1.25	-1.375	0.016	1.316	6.661
-1.00	-1.125	0.009	0.740	7.401
-0.75	-0.875	0.047	3.865	11.266
-0.50	-0.625	0.042	3.454	14.720
-0.25	-0.375	0.060	4.934	19.655
0.00	-0.125	0.043	3.536	23.191
0.25	0.125	0.030	2.467	25.658
0.50	0.375	0.042	3.454	29.112
0.75	0.625	0.024	1.974	31.086
1.00	0.875	0.046	3.783	34.868
1.25	1.125	0.023	1.891	36.760
1.50	1.375	0.029	2.385	39.145
1.75	1.625	0.052	4.276	43.421
2.00	1.875	0.035	2.878	46.299
2.25	2.125	0.185	15.214	61.513
2.50	2.375	0.000	0.000	61.513
2.75	2.625	0.204	16.776	78.289
3.00	2.875	0.232	19.079	97.368
3.25	3.125	0.000	0.000	97.368
3.50	3.375	0.029	2.385	99.753
3.75	3.625	0.000	0.000	99.753
4.00	3.875	0.003	0.247	100.000
5.00	4.500	0.000	0.000	100.000

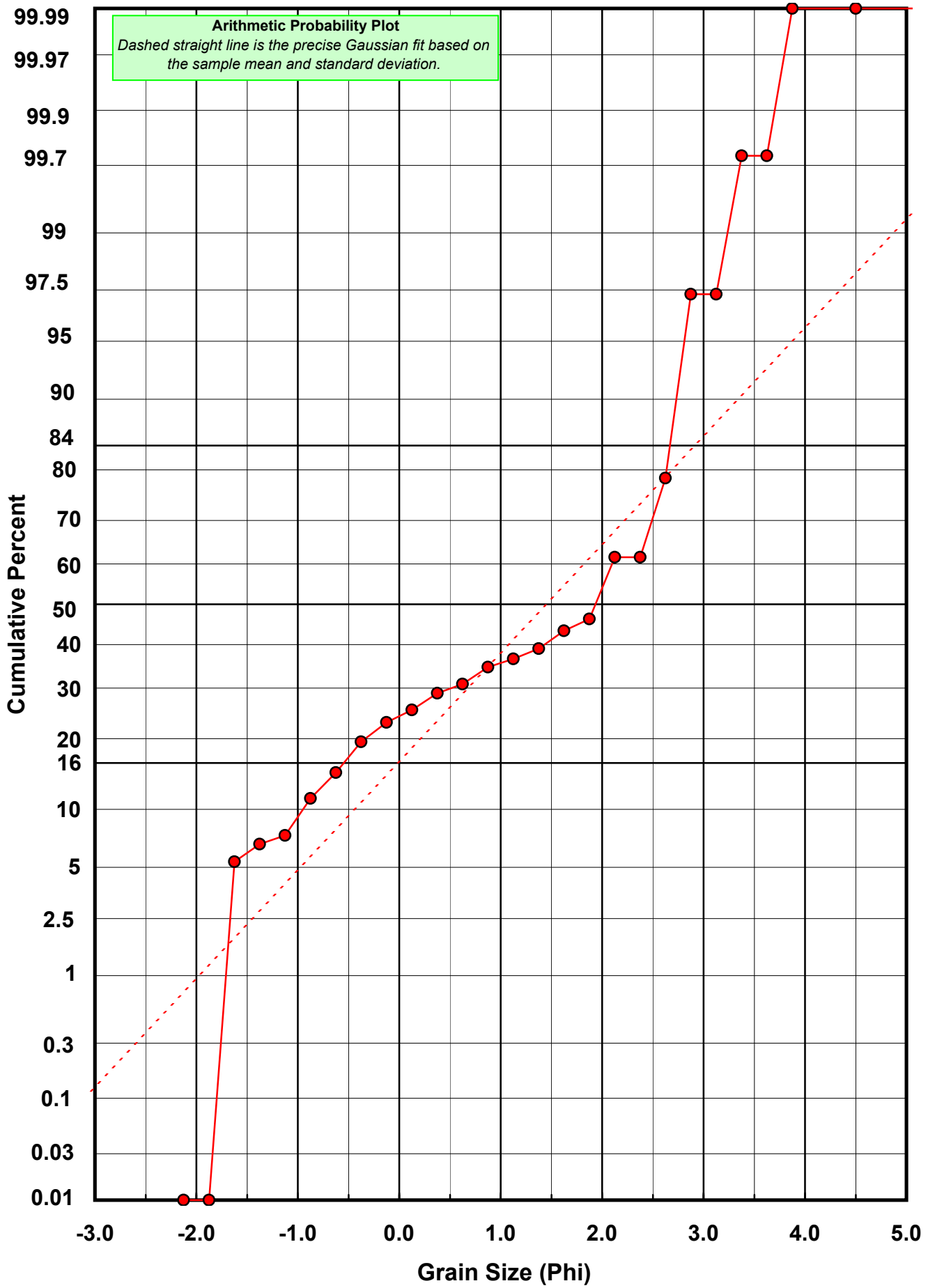
Statistical Results			
Mean:	1.4496	phi	(0.3661 mm)
Standard Dev:	1.4759	phi-units	(0.3595 mm)
Skewness:	-0.6992	dimensionless	
Kurtosis:	2.1416	dimensionless	
5th Moment:	-2.9963	dimensionless	
6th Moment:	6.6931	dimensionless	
RARD *	1.0181	dimensionless	
Median	1.9358	phi	(0.2614 mm)

\* 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 Calculation Sheets	
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)





# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-03-MB

Total Digested Mass: 46.913 grams

% Silica: 97.9 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.009	0.019	0.019
0.00	-0.125	0.009	0.019	0.038
0.25	0.125	0.015	0.032	0.070
0.50	0.375	0.022	0.047	0.117
0.75	0.625	0.024	0.051	0.168
1.00	0.875	0.044	0.094	0.262
1.25	1.125	0.069	0.147	0.409
1.50	1.375	0.247	0.527	0.936
1.75	1.625	0.837	1.784	2.720
2.00	1.875	2.663	5.676	8.396
2.25	2.125	4.946	10.543	18.939
2.50	2.375	10.027	21.374	40.313
2.75	2.625	14.580	31.079	71.392
3.00	2.875	9.591	20.444	91.836
3.25	3.125	2.988	6.369	98.205
3.50	3.375	0.630	1.343	99.548
3.75	3.625	0.180	0.384	99.932
4.00	3.875	0.032	0.068	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5417	phi	(0.1717 mm)
Standard Dev:	0.3885	phi-units	(0.7639 mm)
Skewness:	-0.7444	dimensionless	
Kurtosis:	5.6352	dimensionless	
5th Moment:	-18.6400	dimensionless	
6th Moment:	119.8896	dimensionless	
RARD *	0.1528	dimensionless	
Median	2.4529	phi	(0.1826 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 Calculation Sheets	
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)

