

**Onshore Grab Sample**

**Sample:** DU-07-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** Duval  
**Latitude:** 30° 18' 12.8"  
**Longitude:** 81° 23' 28.7"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 54.887 grams  
Total Fines in Sample 0.053 grams  
Total Percent Fines 0.10 %

**Dry Sieving Summary**

Total Sample Weight 54.777 grams  
Total Digested Weight 53.989 grams  
Total Carbonate Weight 0.788 grams  
Total Silica % 98.56 %  
Total Carbonate % 1.44 %  
Carbonate/Silica Ratio 0.015

**General Comments:**

Pre-Digestion: -2.00 through -0.50 phi are Organics Only; Post-Digestion: 0.00 through 0.25 phi are Organics Only

**Description**

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

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-07-BB

Total Sample Mass: 54.777 grams

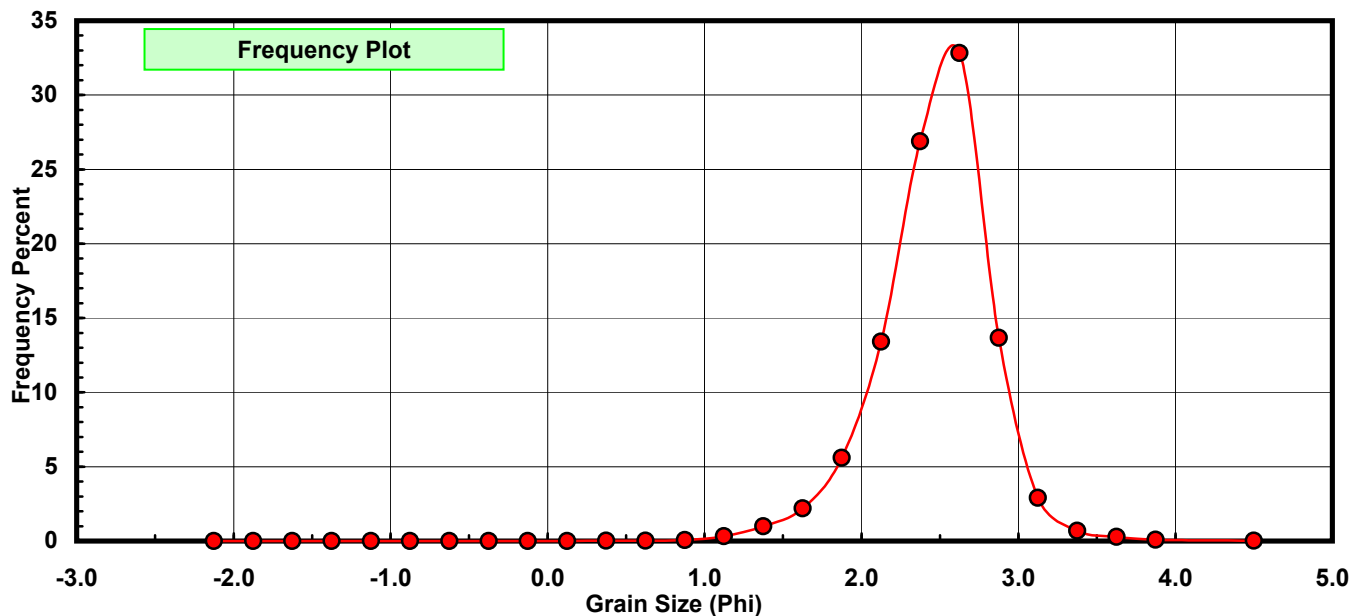
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.004	0.007	0.007
-1.75	-1.875	0.000	0.000	0.007
-1.50	-1.625	0.000	0.000	0.007
-1.25	-1.375	0.000	0.000	0.007
-1.00	-1.125	0.000	0.000	0.007
-0.75	-0.875	0.001	0.002	0.009
-0.50	-0.625	0.002	0.004	0.013
-0.25	-0.375	0.000	0.000	0.013
0.00	-0.125	0.000	0.000	0.013
0.25	0.125	0.003	0.005	0.018
0.50	0.375	0.006	0.011	0.029
0.75	0.625	0.011	0.020	0.049
1.00	0.875	0.035	0.064	0.113
1.25	1.125	0.173	0.316	0.429
1.50	1.375	0.541	0.988	1.417
1.75	1.625	1.207	2.203	3.620
2.00	1.875	3.064	5.594	9.214
2.25	2.125	7.340	13.400	22.614
2.50	2.375	14.729	26.889	49.503
2.75	2.625	17.980	32.824	82.327
3.00	2.875	7.486	13.666	95.993
3.25	3.125	1.597	2.915	98.908
3.50	3.375	0.378	0.690	99.598
3.75	3.625	0.154	0.281	99.880
4.00	3.875	0.052	0.095	99.974
5.00	4.500	0.014	0.026	100.000

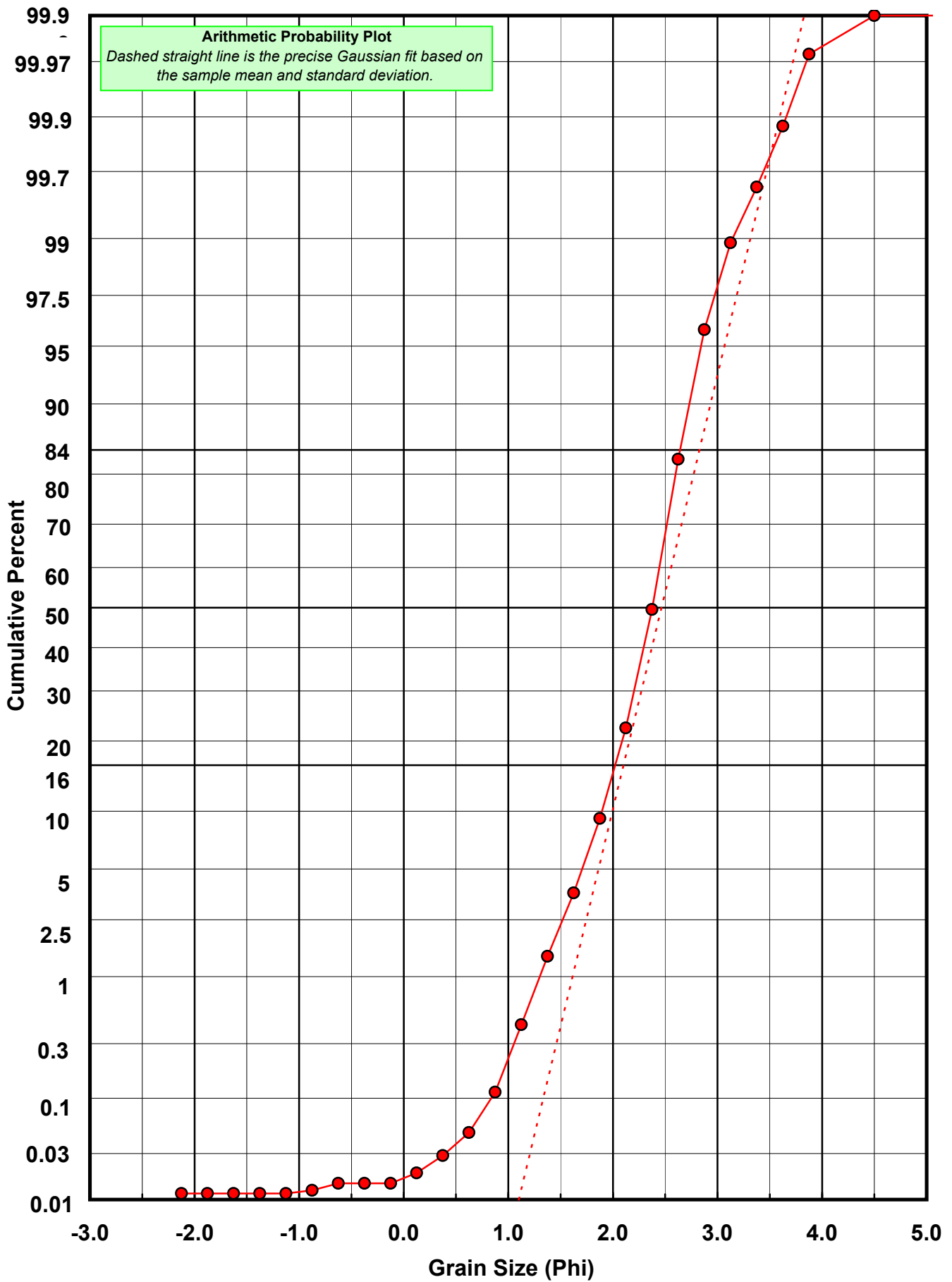
Statistical Results			
Mean:	2.4657	phi	(0.181 mm)
Standard Dev:	0.3664	phi-units	(0.7757 mm)
Skewness:	-0.6516	dimensionless	
Kurtosis:	6.7540	dimensionless	
5th Moment:	-30.7033	dimensionless	
6th Moment:	362.9269	dimensionless	
RARD *	0.1486	dimensionless	
Median	2.3788	phi	(0.1923 mm)

\* 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-07-BB

Total Carbonate Mass: 1.464 grams

% Carbonate: 1.4 %

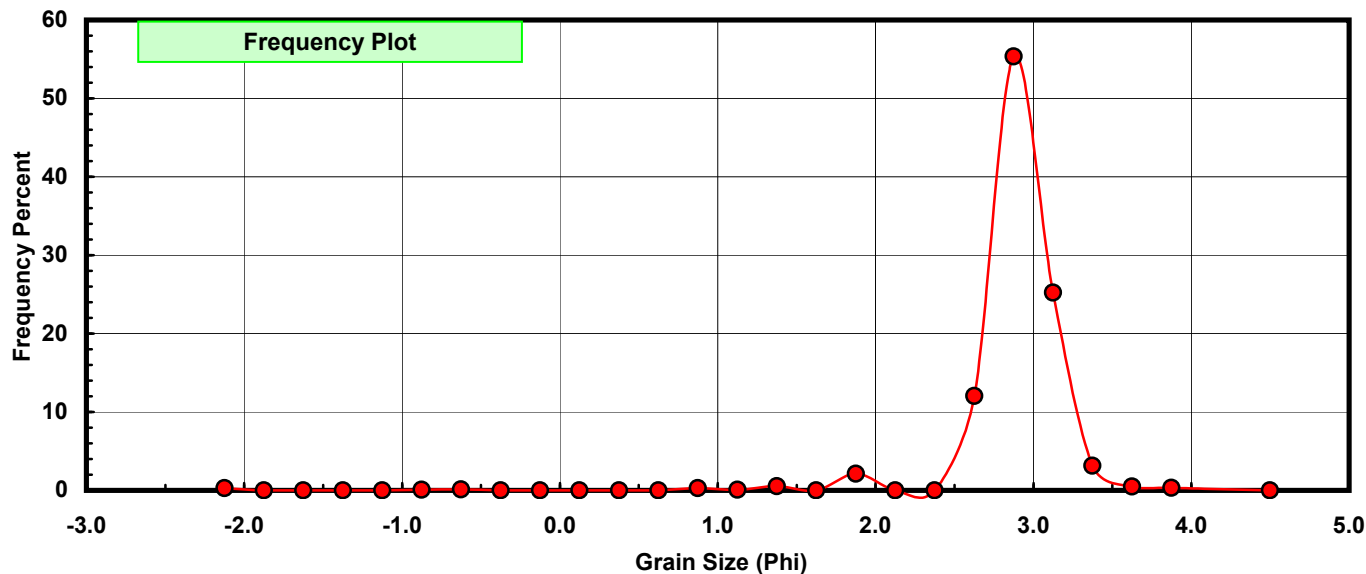
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.004	0.273	0.273
-1.75	-1.875	0.000	0.000	0.273
-1.50	-1.625	0.000	0.000	0.273
-1.25	-1.375	0.000	0.000	0.273
-1.00	-1.125	0.000	0.000	0.273
-0.75	-0.875	0.001	0.068	0.342
-0.50	-0.625	0.002	0.137	0.478
-0.25	-0.375	0.000	0.000	0.478
0.00	-0.125	0.000	0.000	0.478
0.25	0.125	0.000	0.000	0.478
0.50	0.375	0.000	0.000	0.478
0.75	0.625	0.000	0.000	0.478
1.00	0.875	0.004	0.273	0.751
1.25	1.125	0.001	0.068	0.820
1.50	1.375	0.008	0.546	1.366
1.75	1.625	0.000	0.000	1.366
2.00	1.875	0.031	2.117	3.484
2.25	2.125	0.000	0.000	3.484
2.50	2.375	0.000	0.000	3.484
2.75	2.625	0.176	12.022	15.505
3.00	2.875	0.810	55.328	70.833
3.25	3.125	0.369	25.205	96.038
3.50	3.375	0.046	3.142	99.180
3.75	3.625	0.007	0.478	99.658
4.00	3.875	0.005	0.342	100.000
5.00	4.500	0.000	0.000	100.000

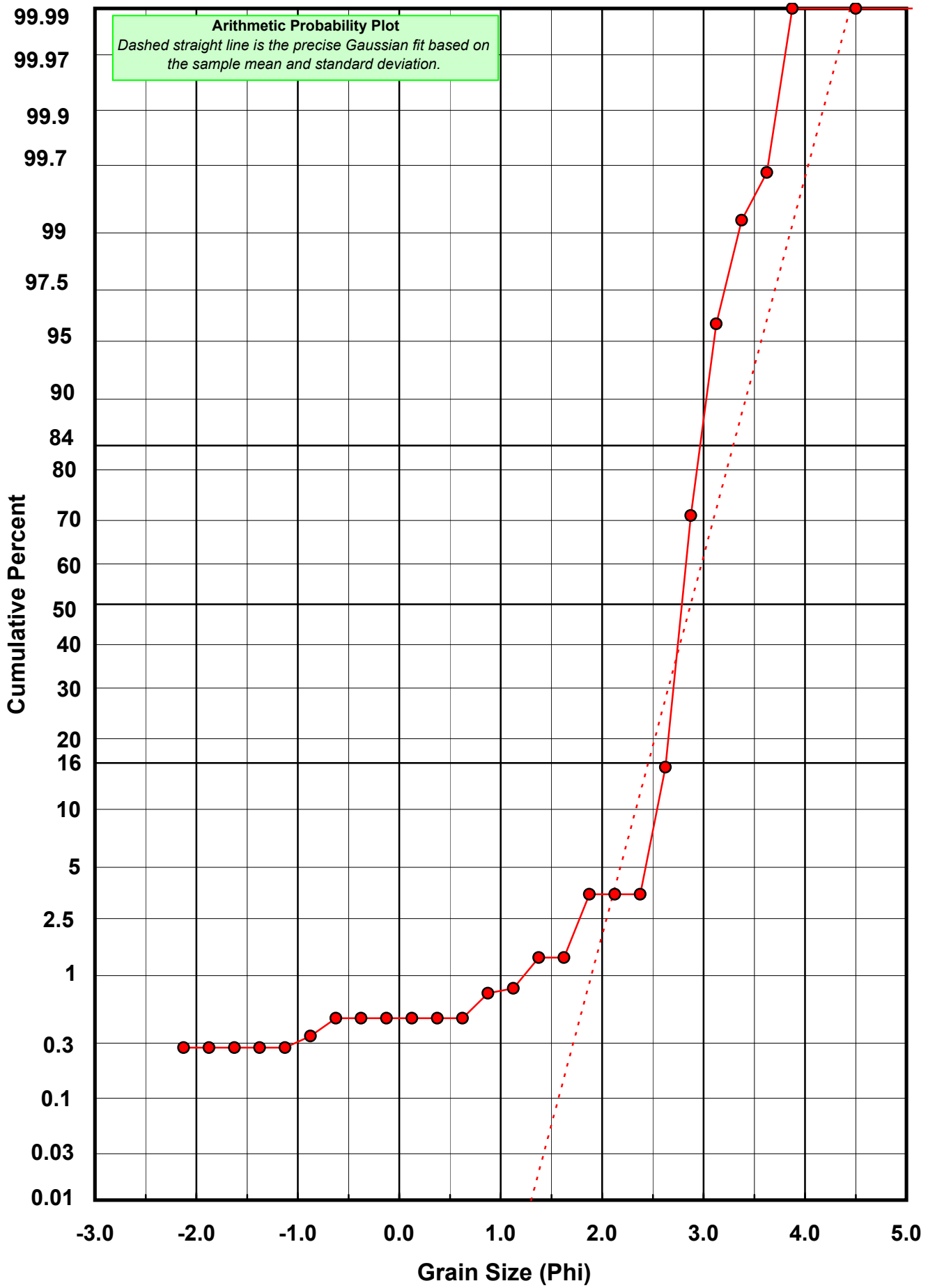
Statistical Results			
Mean:	2.8736	phi	(0.1364 mm)
Standard Dev:	0.4223	phi-units	(0.7462 mm)
Skewness:	-6.4931	dimensionless	
Kurtosis:	67.6566	dimensionless	
5th Moment:	-737.0900	dimensionless	
6th Moment:	8336.5365	dimensionless	
RARD *	0.1470	dimensionless	
Median	2.7809	phi	(0.1455 mm)

\* 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-07-BB

Total Digested Mass: 53.979 grams

% Silica: 98.6 %

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	0.000	0.000	0.000
0.00	-0.125	0.003	0.006	0.006
0.25	0.125	0.004	0.007	0.013
0.50	0.375	0.015	0.028	0.041
0.75	0.625	0.011	0.020	0.061
1.00	0.875	0.031	0.057	0.119
1.25	1.125	0.172	0.319	0.437
1.50	1.375	0.533	0.987	1.425
1.75	1.625	1.260	2.334	3.759
2.00	1.875	3.033	5.619	9.378
2.25	2.125	7.781	14.415	23.793
2.50	2.375	14.902	27.607	51.400
2.75	2.625	17.804	32.983	84.383
3.00	2.875	6.676	12.368	96.751
3.25	3.125	1.228	2.275	99.026
3.50	3.375	0.332	0.615	99.641
3.75	3.625	0.147	0.272	99.913
4.00	3.875	0.047	0.087	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4496	phi	(0.1831 mm)
Standard Dev:	0.3582	phi-units	(0.7802 mm)
Skewness:	-0.5805	dimensionless	
Kurtosis:	4.9184	dimensionless	
5th Moment:	-8.8828	dimensionless	
6th Moment:	62.4976	dimensionless	
RARD *	0.1462	dimensionless	
Median	2.3623	phi	(0.1945 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)

