Onshore Grab Sample

Sample: CR-27
Sample Taken By: D. Phelps
Sample Collected On: 1/27/10
Splits? N/A

County: Collier
Latitude: 26° 1' 50.3"
Longitude: 81° 46' 18.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.213	grams
Total Fines in Sample	0.283	grams
Total Percent Fines	0.41	%

Dry Sieving Summary

Total Sample Weight	67.944	grams
Total Digested Weight	42.772	grams
Total Carbonate Weight	25.172	grams
Total Silica %	62.95	%
Total Carbonate %	37.05	%
Carbonate/Silica Ratio	0.589	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-27

Total Sample Mass: 67.944 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.638	3.883	3.883
-2.00	-2.125	0.326	0.480	4.362
-1.75	-1.875	0.882	1.298	5.661
-1.50	-1.625	0.827	1.217	6.878
-1.25	-1.375	0.883	1.300	8.177
-1.00	-1.125	1.082	1.592	9.770
-0.75	-0.875	1.218	1.793	11.562
-0.50	-0.625	2.205	3.245	14.808
-0.25	-0.375	2.272	3.344	18.152
0.00	-0.125	2.162	3.182	21.334
0.25	0.125	1.846	2.717	24.051
0.50	0.375	1.527	2.247	26.298
0.75	0.625	1.436	2.114	28.412
1.00	0.875	2.132	3.138	31.550
1.25	1.125	1.575	2.318	33.868
1.50	1.375	2.558	3.765	37.632
1.75	1.625	3.061	4.505	42.138
2.00	1.875	4.831	7.110	49.248
2.25	2.125	6.866	10.105	59.353
2.50	2.375	9.329	13.730	73.084
2.75	2.625	10.773	15.856	88.939
3.00	2.875	5.911	8.700	97.639
3.25	3.125	1.301	1.915	99.554
3.50	3.375	0.210	0.309	99.863
3.75	3.625	0.069	0.102	99.965
4.00	3.875	0.016	0.024	99.988
5.00	4.50	0.008	0.012	100.000

Statistical Results			
Mean:	1.3846	phi	(0.383 mm)
Standard Dev:	1.5168	phi-units	(0.3495 mm)
Skewness:	-1.0215	dimensionless	
Kurtosis:	2.9067	dimensionless	
5th Moment:	-5.6177	dimensionless	
6th Moment:	13.4742	dimensionless	
RARD *	1.0955	dimensionless	
Median	1.8936	phi	(0.2691 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

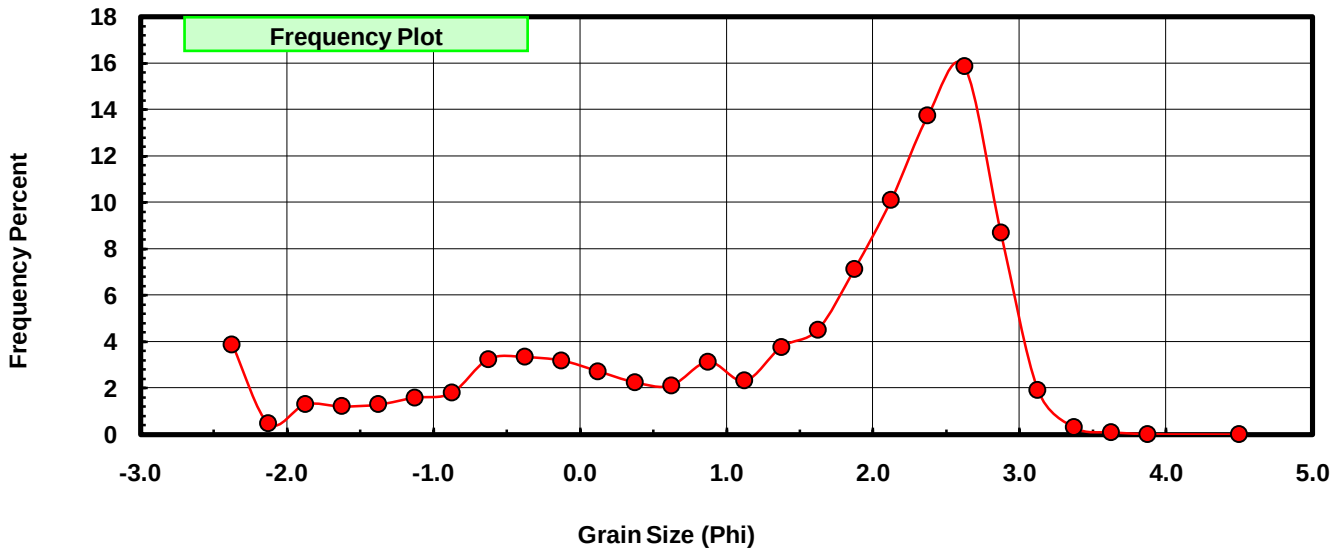
Statistical Explanation

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 Basillle 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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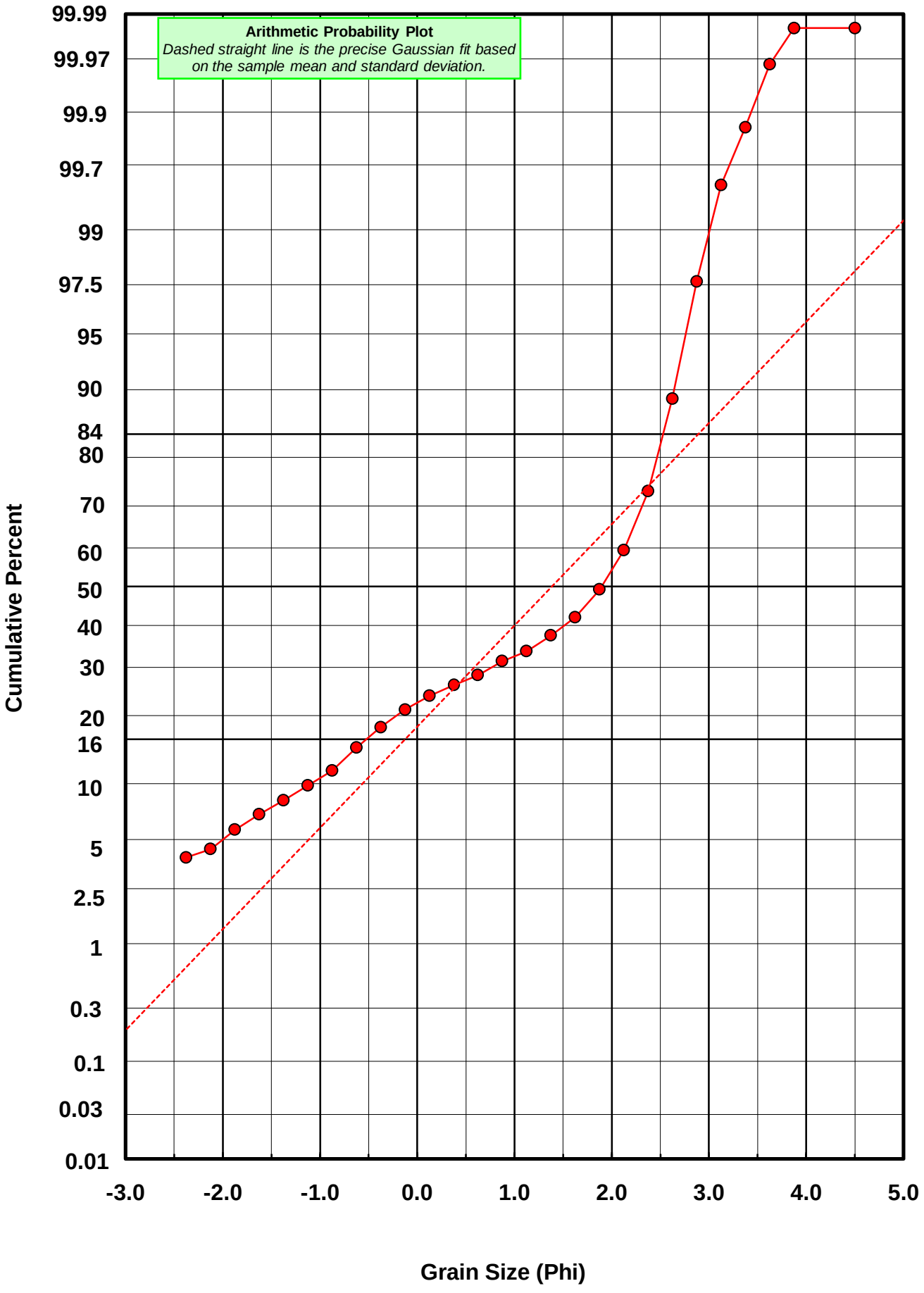
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
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60
50
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30
20
16
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0.01
-3.0
-2.0
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2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-27

Total Carbonate Mass: 25.671 grams

% Carbonate: 37.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.638	10.276	10.276
-2.00	-2.125	0.326	1.270	11.546
-1.75	-1.875	0.882	3.436	14.982
-1.50	-1.625	0.827	3.222	18.203
-1.25	-1.375	0.883	3.440	21.643
-1.00	-1.125	1.082	4.215	25.858
-0.75	-0.875	1.218	4.745	30.603
-0.50	-0.625	2.205	8.589	39.192
-0.25	-0.375	2.272	8.850	48.043
0.00	-0.125	2.162	8.422	56.464
0.25	0.125	1.829	7.125	63.589
0.50	0.375	1.501	5.847	69.436
0.75	0.625	1.360	5.298	74.734
1.00	0.875	1.812	7.059	81.793
1.25	1.125	0.963	3.751	85.544
1.50	1.375	1.093	4.258	89.802
1.75	1.625	0.392	1.527	91.329
2.00	1.875	0.488	1.901	93.230
2.25	2.125	0.612	2.384	95.614
2.50	2.375	0.797	3.105	98.718
2.75	2.625	0.327	1.274	99.992
3.00	2.875	0.000	0.000	99.992
3.25	3.125	0.000	0.000	99.992
3.50	3.375	0.000	0.000	99.992
3.75	3.625	0.002	0.008	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:	-0.1764	phi	(1.1301 mm)
Standard Dev:	1.3318	phi-units	(0.3973 mm)
Skewness:	0.0593	dimensionless	
Kurtosis:	2.2768	dimensionless	
5th Moment:	0.5753	dimensionless	
6th Moment:	6.5067	dimensionless	
RARD *	7.5488	dimensionless	
Median	-0.3169	phi	(1.2456 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 Basillle et al. 2002
Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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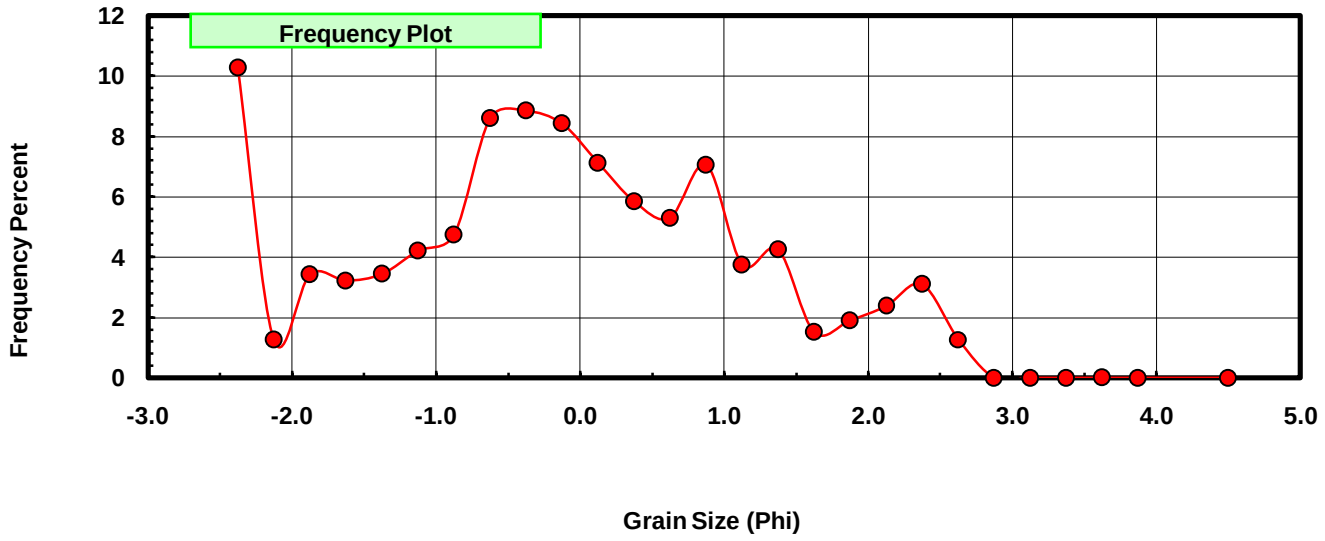

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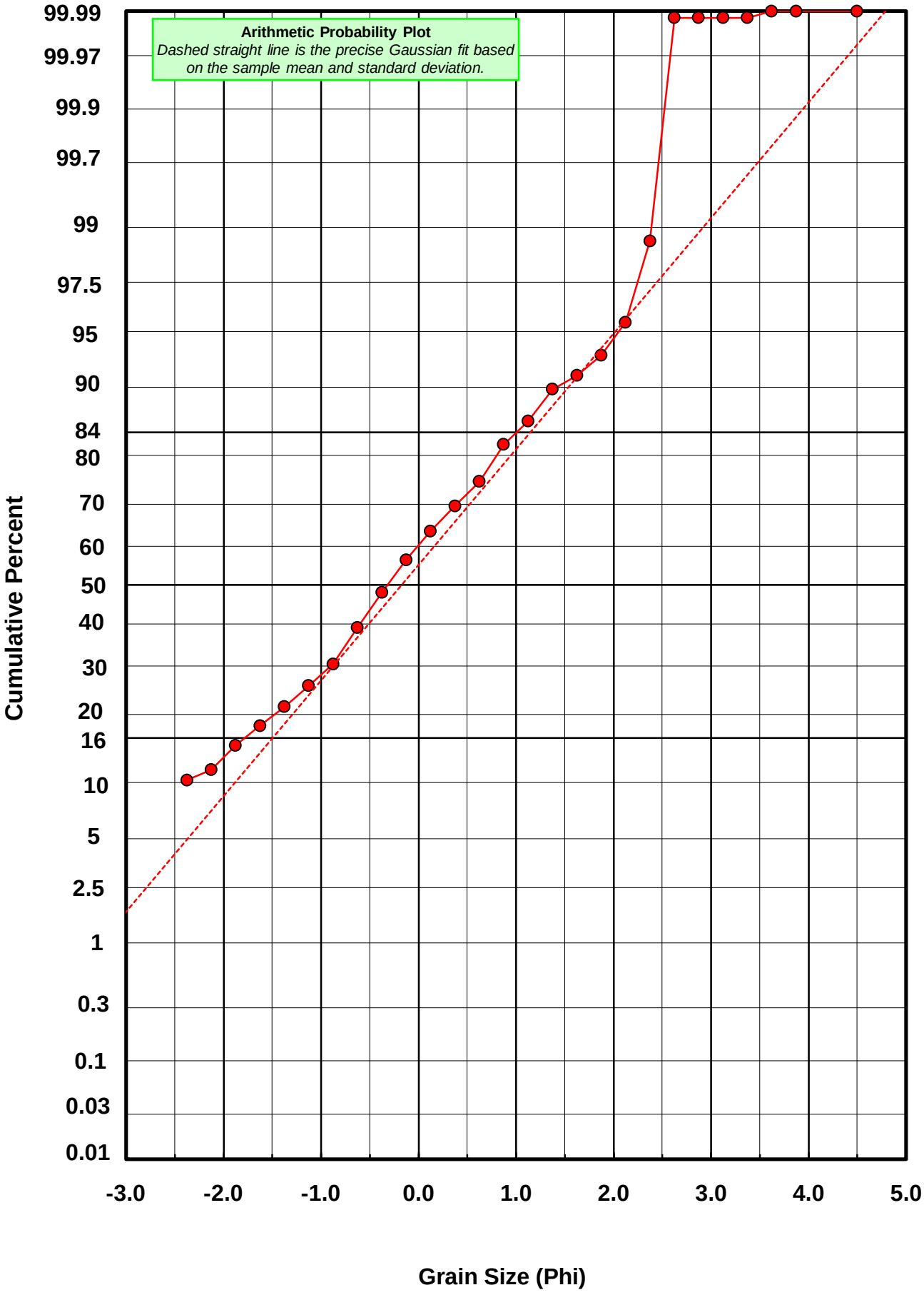
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0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-27

Total Digested Mass: 42.772 grams

% Silica: 63.0 %

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	0.017	0.040	0.040
0.50	0.375	0.026	0.061	0.101
0.75	0.625	0.076	0.178	0.278
1.00	0.875	0.320	0.748	1.026
1.25	1.125	0.612	1.431	2.457
1.50	1.375	1.465	3.425	5.882
1.75	1.625	2.669	6.240	12.122
2.00	1.875	4.343	10.154	22.276
2.25	2.125	6.254	14.622	36.898
2.50	2.375	8.532	19.948	56.846
2.75	2.625	10.446	24.423	81.268
3.00	2.875	6.303	14.736	96.004
3.25	3.125	1.360	3.180	99.184
3.50	3.375	0.257	0.601	99.785
3.75	3.625	0.067	0.157	99.942
4.00	3.875	0.017	0.040	99.981
5.00	4.500	0.008	0.019	100.000

Statistical Results			
Mean:	2.3398	phi	(0.1975 mm)
Standard Dev:	0.4873	phi-units	(0.7134 mm)
Skewness:	-0.6664	dimensionless	
Kurtosis:	3.5208	dimensionless	
5th Moment:	-5.7757	dimensionless	
6th Moment:	25.5206	dimensionless	
RARD *	0.2083	dimensionless	
Median	2.2892	phi	(0.2046 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation
Calculations based on the Method of Moments
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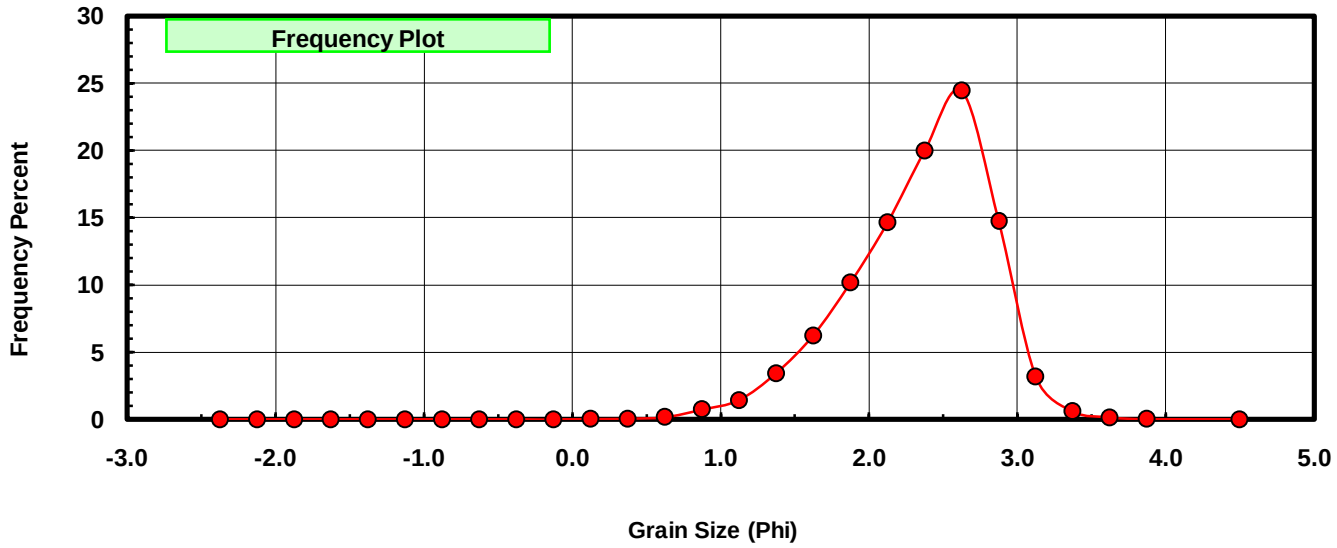

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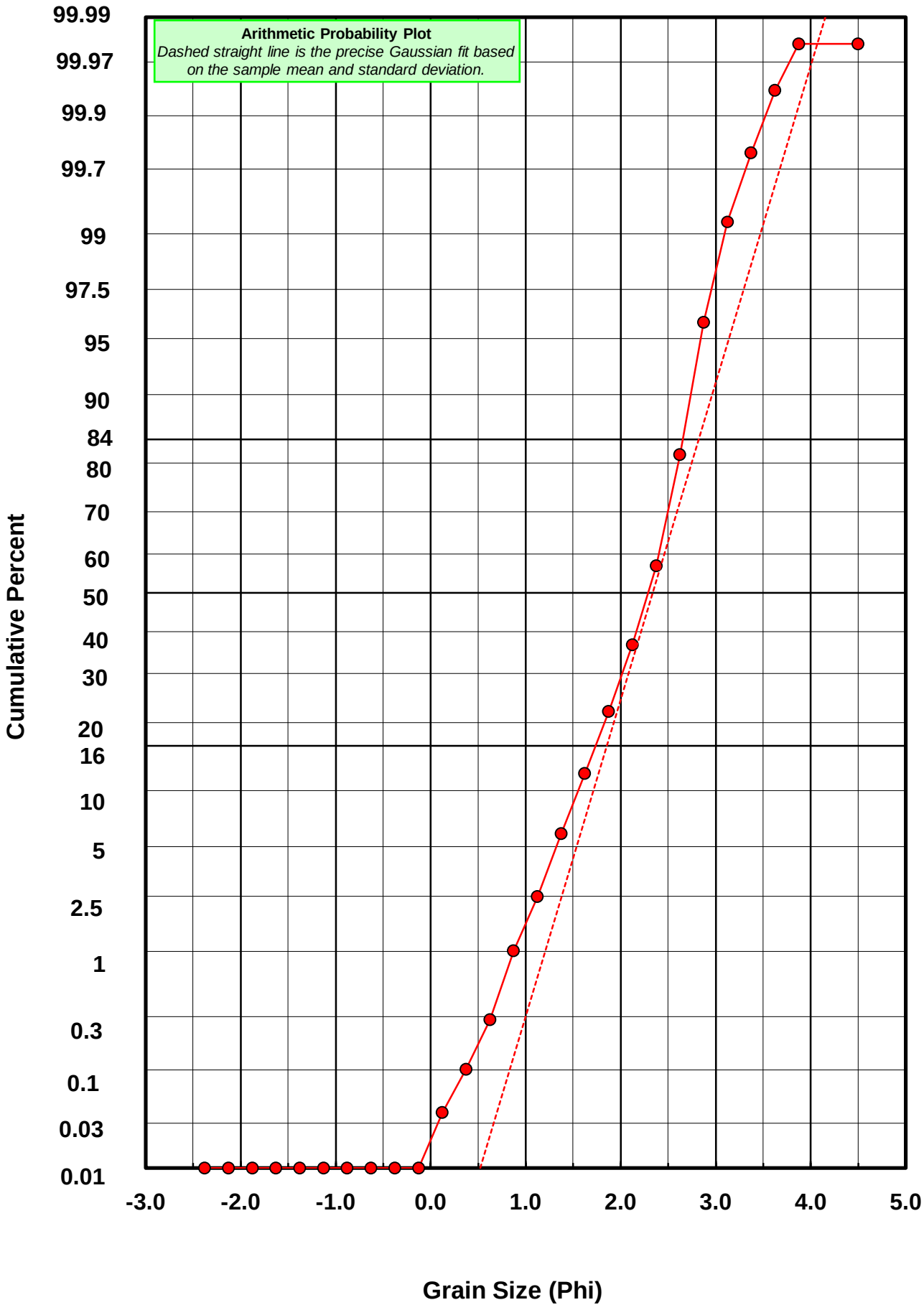
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5.0
Grain Size (Phi)