Onshore Grab Sample

Sample: FK-48-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/2/10
Splits? N/A

County: Franklin
Latitude: 29° 48' 10.8" N
Longitude: 84° 35' 27" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	44.928	grams
Total Fines in Sample	0.029	grams
Total Percent Fines	0.06	%

Dry Sieving Summary

Total Sample Weight	44.809	grams
Total Digested Weight	44.839	grams
Total Carbonate Weight	-0.030	grams
Total Silica %	100.07	%
Total Carbonate %	-0.07	%
Carbonate/Silica Ratio	-0.001	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FK-48-BB

Total Sample Mass: 44.809 grams

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	0.021	0.047	0.047
-0.25	-0.375	0.012	0.027	0.074
0.00	-0.125	0.010	0.022	0.096
0.25	0.125	0.032	0.071	0.167
0.50	0.375	0.161	0.359	0.527
0.75	0.625	0.606	1.352	1.879
1.00	0.875	2.249	5.019	6.898
1.25	1.125	6.278	14.011	20.909
1.50	1.375	14.627	32.643	53.552
1.75	1.625	13.597	30.344	83.896
2.00	1.875	5.338	11.913	95.809
2.25	2.125	1.452	3.240	99.049
2.50	2.375	0.298	0.665	99.714
2.75	2.625	0.081	0.181	99.895
3.00	2.875	0.020	0.045	99.940
3.25	3.125	0.014	0.031	99.971
3.50	3.375	0.007	0.016	99.987
3.75	3.625	0.001	0.002	99.989
4.00	3.875	0.004	0.009	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.4690	phi	(0.3612 mm)
Standard Dev:	0.3322	phi-units	(0.7943 mm)
Skewness:	-0.1706	dimensionless	
Kurtosis:	5.4383	dimensionless	
5th Moment:	-2.1573	dimensionless	
6th Moment:	104.0488	dimensionless	
RARD *	0.2261	dimensionless	
Median	1.3478	phi	(0.3929 mm)

* RARD = reciprocal absolute relative dispersion (see below)

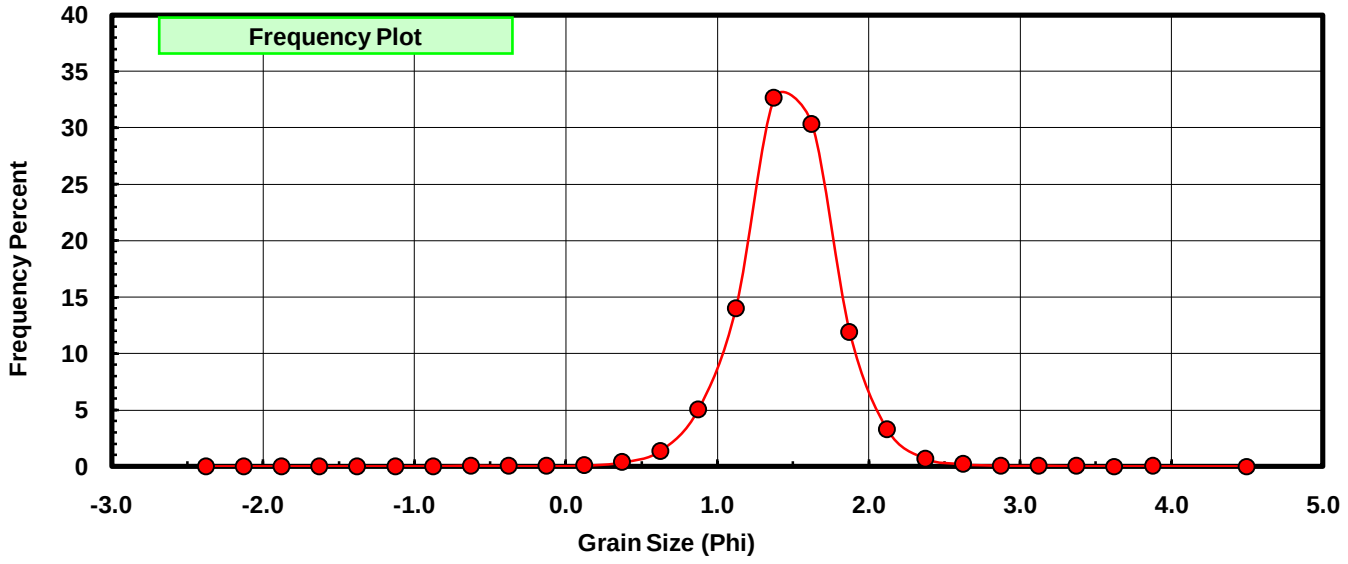
Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

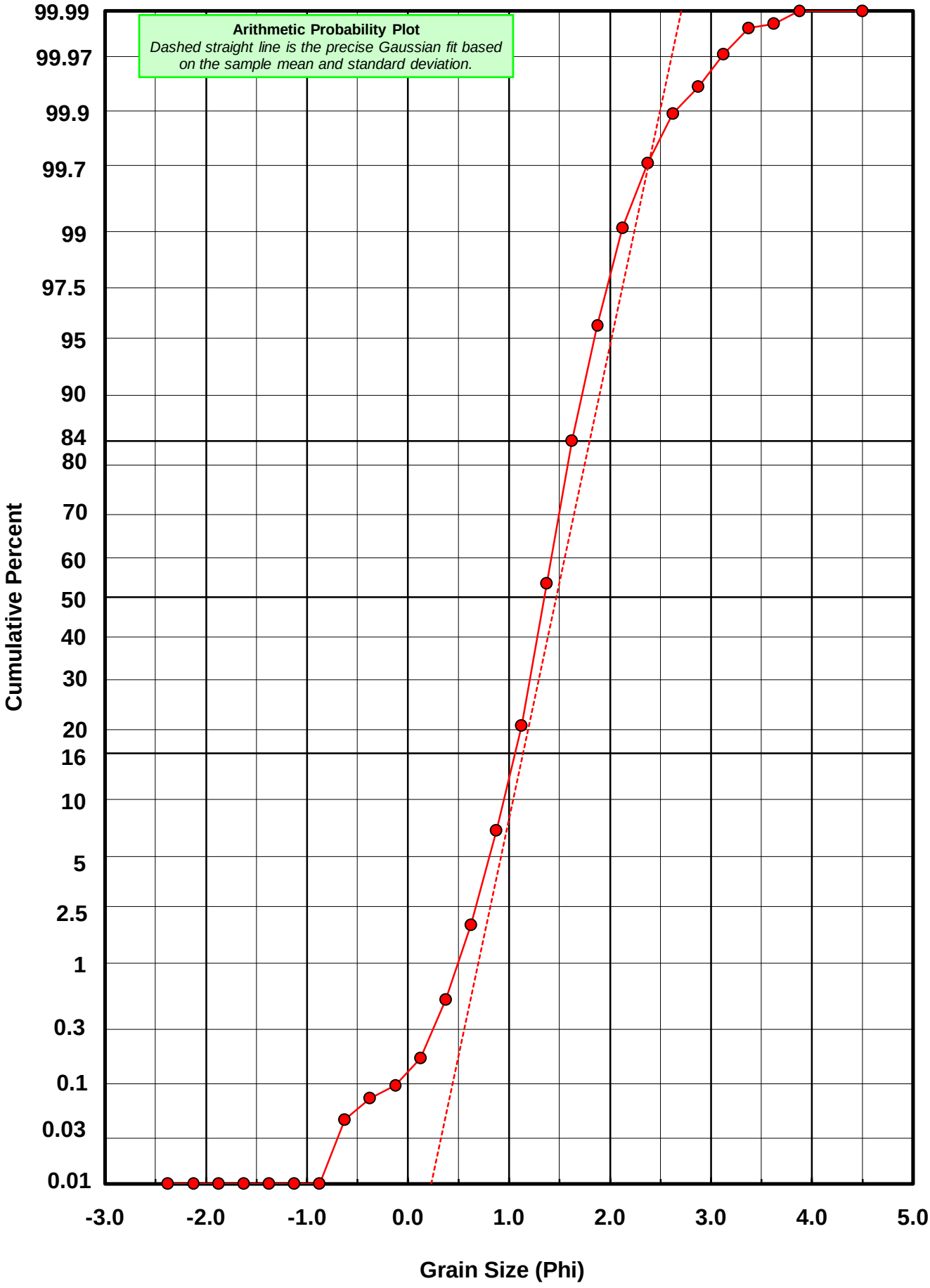
For Further Explanation, See Basillle et al. 2002

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)



FK-48-BB


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
70
60
50
40
30
20
16
10
5
2.5
1
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)