Onshore Grab Sample

Sample: FK-23-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/11/10
Splits? N/A

County: Franklin
Latitude: 29° 37' 16.5" N
Longitude: 84° 56' 32.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	55.443	grams
Total Fines in Sample	0.023	grams
Total Percent Fines	0.04	%

Dry Sieving Summary

Total Sample Weight	55.403	grams
Total Digested Weight	55.082	grams
Total Carbonate Weight	0.321	grams
Total Silica %	99.42	%
Total Carbonate %	0.58	%
Carbonate/Silica Ratio	0.006	

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-23-BB

Total Sample Mass: 55.403 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	0.101	0.182	0.182
-0.75	-0.875	0.020	0.036	0.218
-0.50	-0.625	0.122	0.220	0.439
-0.25	-0.375	0.191	0.345	0.783
0.00	-0.125	0.016	0.029	0.812
0.25	0.125	0.026	0.047	0.859
0.50	0.375	0.180	0.325	1.184
0.75	0.625	0.149	0.269	1.453
1.00	0.875	1.052	1.899	3.352
1.25	1.125	3.377	6.095	9.447
1.50	1.375	10.339	18.661	28.109
1.75	1.625	14.007	25.282	53.391
2.00	1.875	13.186	23.800	77.191
2.25	2.125	8.642	15.598	92.789
2.50	2.375	3.067	5.536	98.325
2.75	2.625	0.631	1.139	99.464
3.00	2.875	0.134	0.242	99.706
3.25	3.125	0.038	0.069	99.774
3.50	3.375	0.112	0.202	99.977
3.75	3.625	0.004	0.007	99.984
4.00	3.875	0.008	0.014	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.7064	phi	(0.3064 mm)
Standard Dev:	0.4407	phi-units	(0.7368 mm)
Skewness:	-1.1370	dimensionless	
Kurtosis:	9.5485	dimensionless	
5th Moment:	-38.9492	dimensionless	
6th Moment:	253.6217	dimensionless	
RARD *	0.2583	dimensionless	
Median	1.5915	phi	(0.3318 mm)

* RARD = reciprocal absolute relative dispersion (see below)

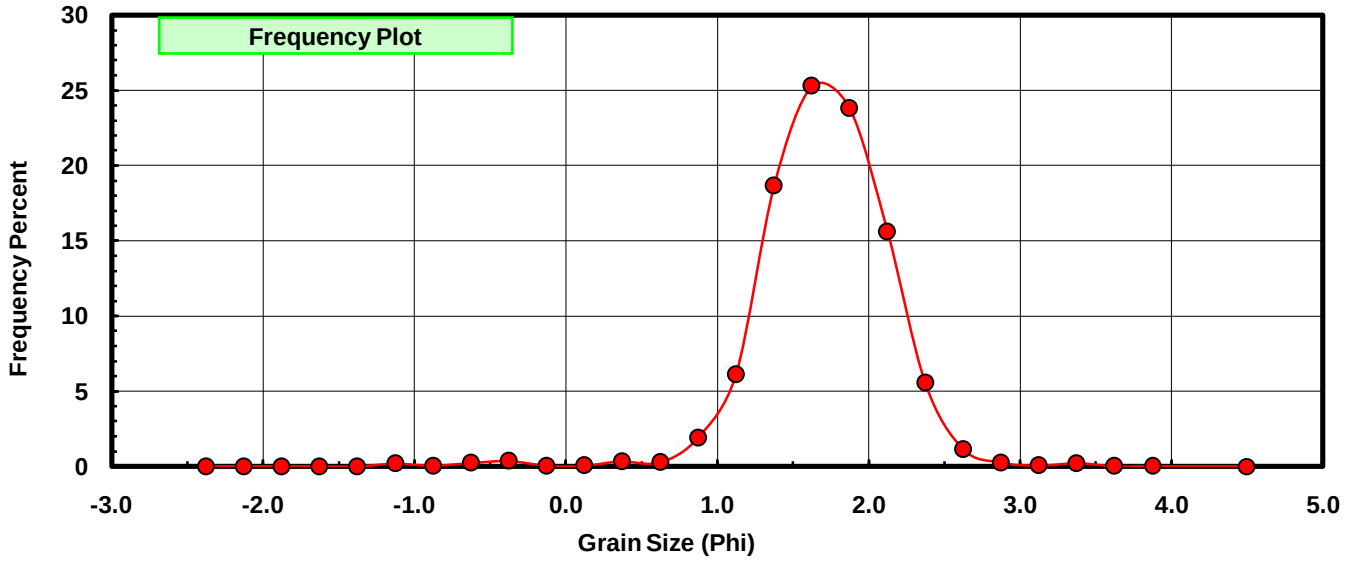
Statistical Explanation

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

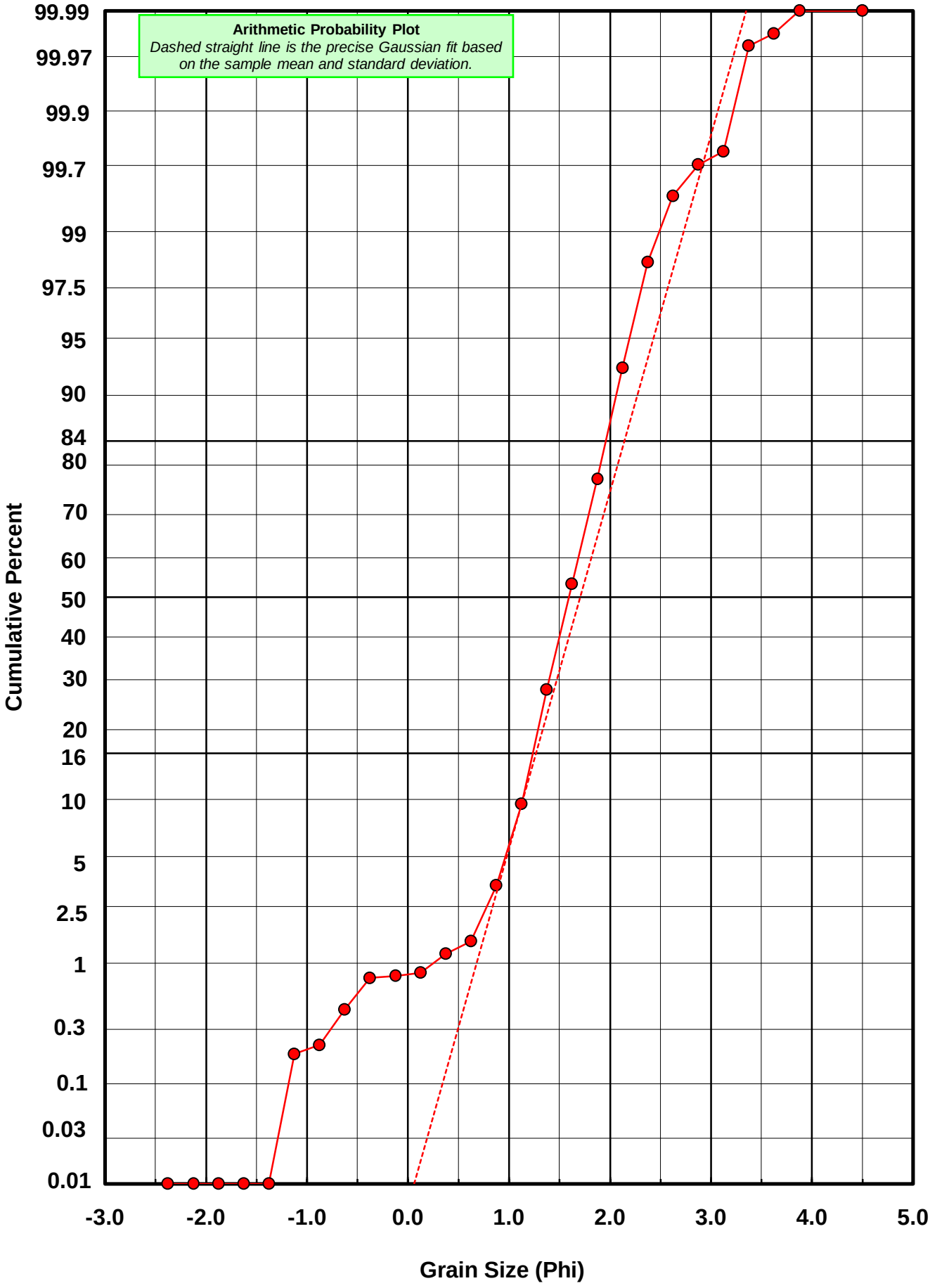
For Further Explanation, See Basillle et al. 2002

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-23-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)