Onshore Grab Sample

Sample: FK-41-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/11/10
Splits? N/A

County: Franklin
Latitude: 29° 45' 46.5" N
Longitude: 84° 41' 36.1" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	81.675	grams
Total Fines in Sample	0.003	grams
Total Percent Fines	0.00	%

Dry Sieving Summary

Total Sample Weight	81.512	grams
Total Digested Weight	80.408	grams
Total Carbonate Weight	1.104	grams
Total Silica %	98.65	%
Total Carbonate %	1.35	%
Carbonate/Silica Ratio	0.014	

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-41-BB

Total Sample Mass: 81.512 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	0.079	0.097	0.097
-1.50	-1.625	0.035	0.043	0.140
-1.25	-1.375	0.020	0.025	0.164
-1.00	-1.125	0.155	0.190	0.355
-0.75	-0.875	0.122	0.150	0.504
-0.50	-0.625	0.378	0.464	0.968
-0.25	-0.375	0.305	0.374	1.342
0.00	-0.125	0.360	0.442	1.784
0.25	0.125	0.612	0.751	2.535
0.50	0.375	1.573	1.930	4.464
0.75	0.625	2.558	3.138	7.603
1.00	0.875	3.121	3.829	11.431
1.25	1.125	4.993	6.125	17.557
1.50	1.375	9.286	11.392	28.949
1.75	1.625	18.067	22.165	51.114
2.00	1.875	18.654	22.885	73.999
2.25	2.125	12.816	15.723	89.722
2.50	2.375	6.227	7.639	97.361
2.75	2.625	1.927	2.364	99.725
3.00	2.875	0.164	0.201	99.926
3.25	3.125	0.051	0.063	99.989
3.50	3.375	0.006	0.007	99.996
3.75	3.625	0.001	0.001	99.998
4.00	3.875	0.001	0.001	99.999
5.00	4.50	0.001	0.001	100.000

Statistical Results			
Mean:	1.6507	phi	(0.3185 mm)
Standard Dev:	0.5878	phi-units	(0.6654 mm)
Skewness:	-1.4584	dimensionless	
Kurtosis:	7.0463	dimensionless	
5th Moment:	-26.4034	dimensionless	
6th Moment:	126.6740	dimensionless	
RARD *	0.3561	dimensionless	
Median	1.6124	phi	(0.327 mm)

* RARD = reciprocal absolute relative dispersion (see below)

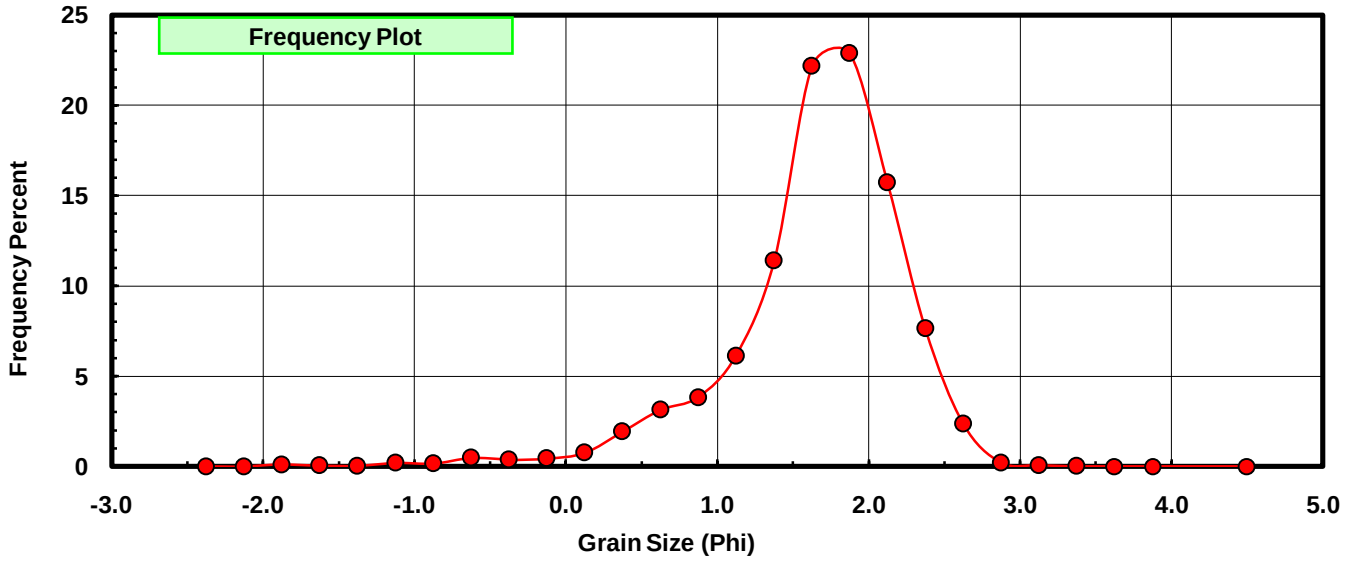
Statistical Explanation

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

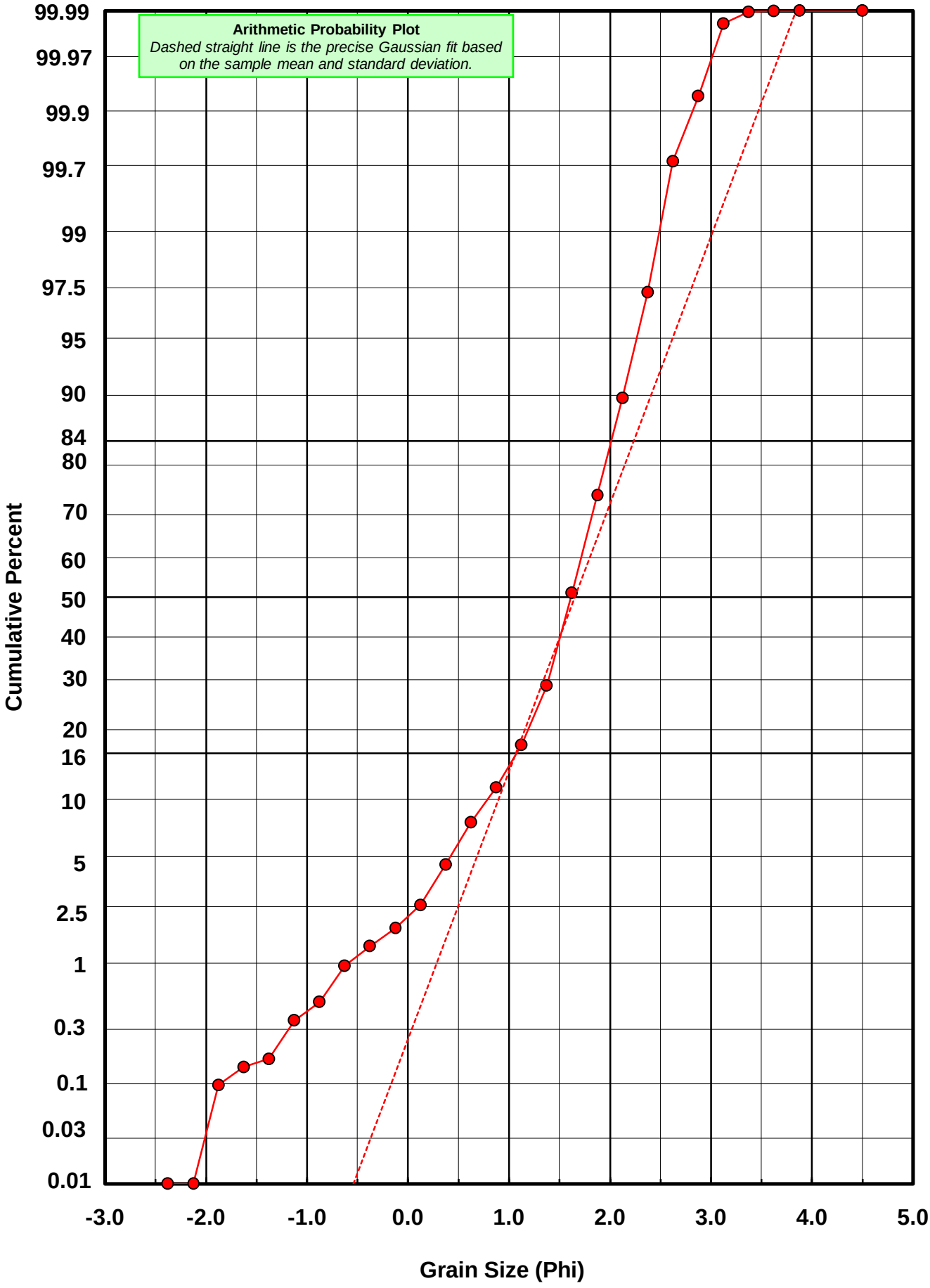
For Further Explanation, See Basillle et al. 2002

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-41-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)