Onshore Grab Sample

Sample: FK-30-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/11/10
Splits? N/A

County: Franklin
Latitude: 29° 40' 11.3" N
Longitude: 84° 50' 18.3" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	65.543	grams
Total Fines in Sample	0.054	grams
Total Percent Fines	0.08	%

Dry Sieving Summary

Total Sample Weight	65.566	grams
Total Digested Weight	64.684	grams
Total Carbonate Weight	0.882	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-30-BB

Total Sample Mass: 65.566 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	0.188	0.287	0.287
-0.75	-0.875	0.017	0.026	0.313
-0.50	-0.625	0.329	0.502	0.814
-0.25	-0.375	0.184	0.281	1.095
0.00	-0.125	0.035	0.053	1.148
0.25	0.125	0.038	0.058	1.206
0.50	0.375	0.645	0.984	2.190
0.75	0.625	1.142	1.742	3.932
1.00	0.875	3.937	6.005	9.937
1.25	1.125	5.973	9.110	19.046
1.50	1.375	9.931	15.147	34.193
1.75	1.625	13.904	21.206	55.399
2.00	1.875	12.675	19.332	74.731
2.25	2.125	10.640	16.228	90.959
2.50	2.375	4.452	6.790	97.749
2.75	2.625	1.131	1.725	99.474
3.00	2.875	0.232	0.354	99.828
3.25	3.125	0.089	0.136	99.963
3.50	3.375	0.013	0.020	99.983
3.75	3.625	0.007	0.011	99.994
4.00	3.875	0.003	0.005	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.6444	phi	(0.3199 mm)
Standard Dev:	0.5326	phi-units	(0.6913 mm)
Skewness:	-1.0524	dimensionless	
Kurtosis:	6.3682	dimensionless	
5th Moment:	-21.5480	dimensionless	
6th Moment:	107.3666	dimensionless	
RARD *	0.3239	dimensionless	
Median	1.5613	phi	(0.3388 mm)

* RARD = reciprocal absolute relative dispersion (see below)

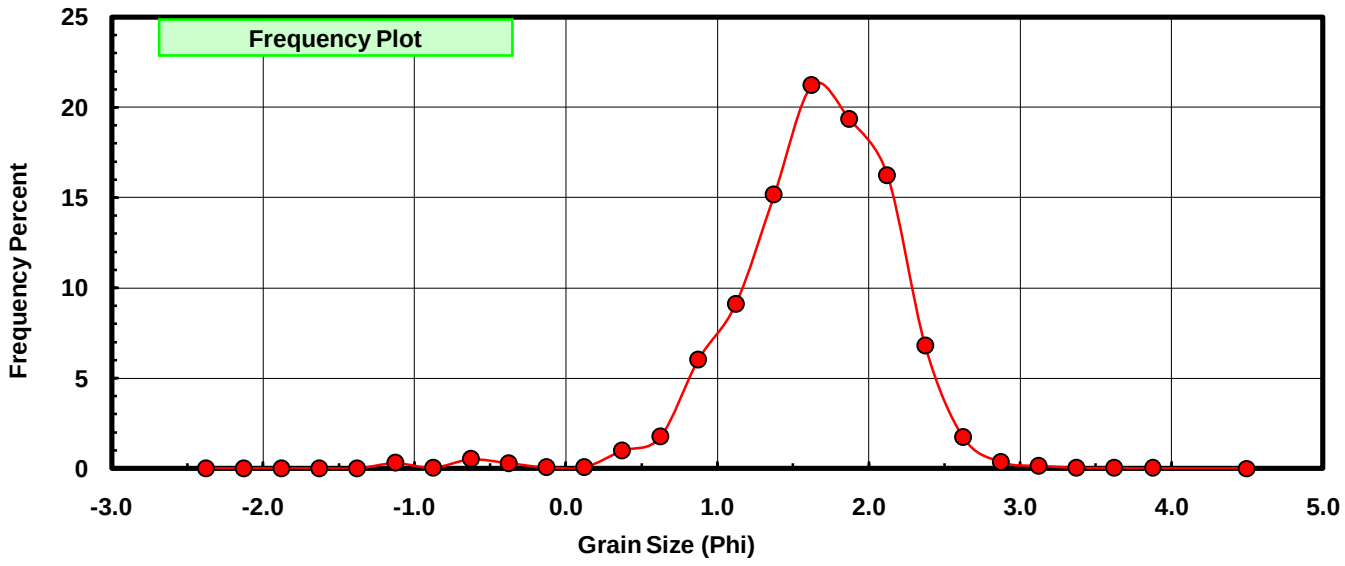
Statistical Explanation

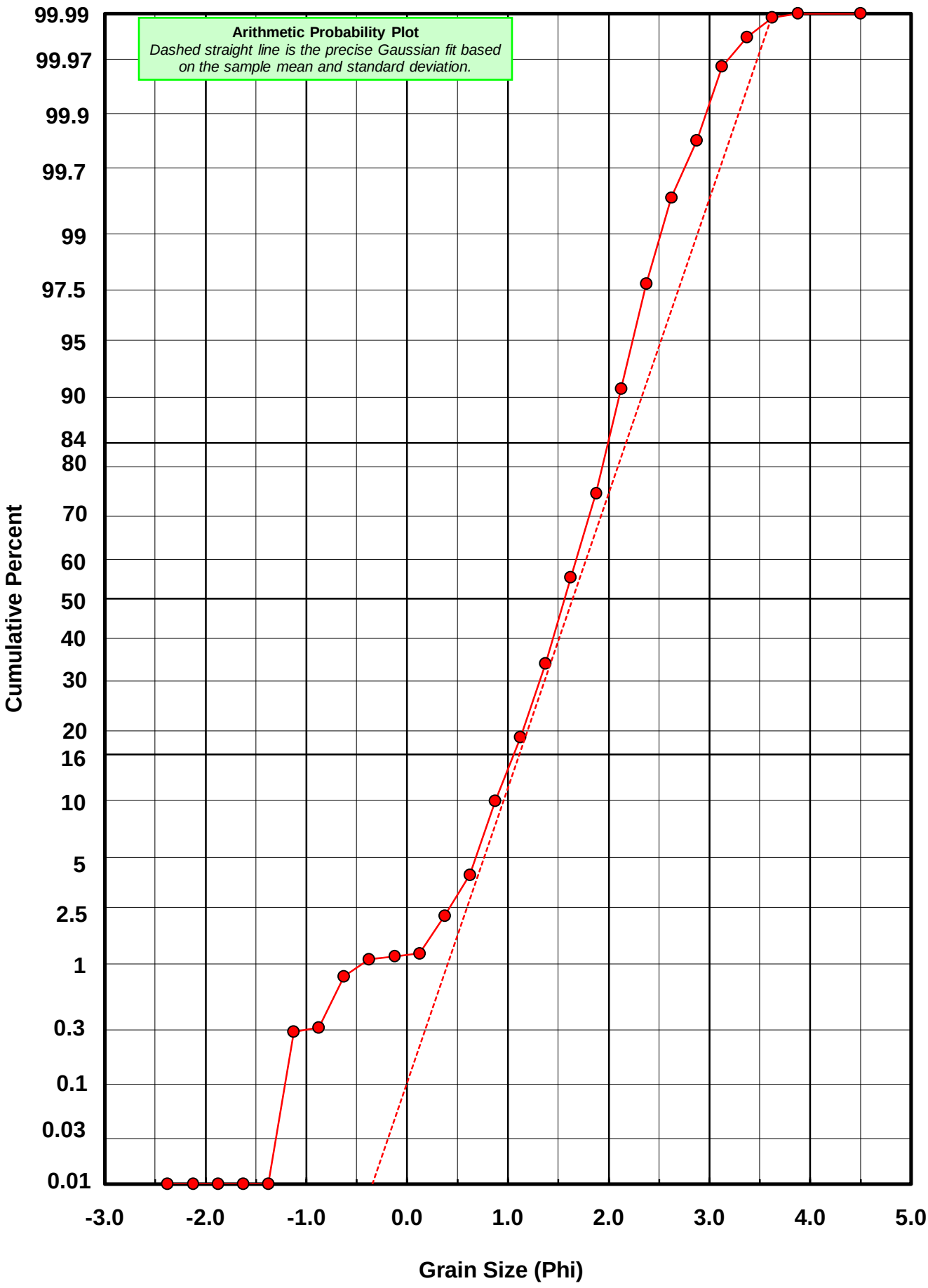
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-30-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)