Onshore Grab Sample

Sample: FK-65
Sample Taken By: D. Phelps
Sample Collected On: 12/8/10
Splits? N/A

County: Franklin
Latitude: 29° 56' 31.8" N
Longitude: 84° 20' 21.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	50.104	grams
Total Fines in Sample	0.097	grams
Total Percent Fines	0.19	%

Dry Sieving Summary

Total Sample Weight	50.084	grams
Total Digested Weight	49.924	grams
Total Carbonate Weight	0.160	grams
Total Silica %	99.68	%
Total Carbonate %	0.32	%
Carbonate/Silica Ratio	0.003	

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-65

Total Sample Mass: 50.084 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	0.028	0.056	0.056
-1.00	-1.125	0.015	0.030	0.086
-0.75	-0.875	0.085	0.170	0.256
-0.50	-0.625	0.529	1.056	1.312
-0.25	-0.375	1.470	2.935	4.247
0.00	-0.125	3.074	6.138	10.385
0.25	0.125	3.723	7.434	17.818
0.50	0.375	6.874	13.725	31.543
0.75	0.625	9.781	19.529	51.072
1.00	0.875	12.302	24.563	75.635
1.25	1.125	9.706	19.379	95.014
1.50	1.375	2.126	4.245	99.259
1.75	1.625	0.087	0.174	99.433
2.00	1.875	0.032	0.064	99.497
2.25	2.125	0.021	0.042	99.539
2.50	2.375	0.027	0.054	99.593
2.75	2.625	0.030	0.060	99.653
3.00	2.875	0.042	0.084	99.736
3.25	3.125	0.110	0.220	99.956
3.50	3.375	0.012	0.024	99.980
3.75	3.625	0.003	0.006	99.986
4.00	3.875	0.004	0.008	99.994
5.00	4.50	0.003	0.006	100.000

Statistical Results			
Mean:	0.6649	phi	(0.6307 mm)
Standard Dev:	0.4849	phi-units	(0.7146 mm)
Skewness:	-0.1075	dimensionless	
Kurtosis:	5.4396	dimensionless	
5th Moment:	10.4567	dimensionless	
6th Moment:	97.0228	dimensionless	
RARD *	0.7292	dimensionless	
Median	0.6113	phi	(0.6546 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

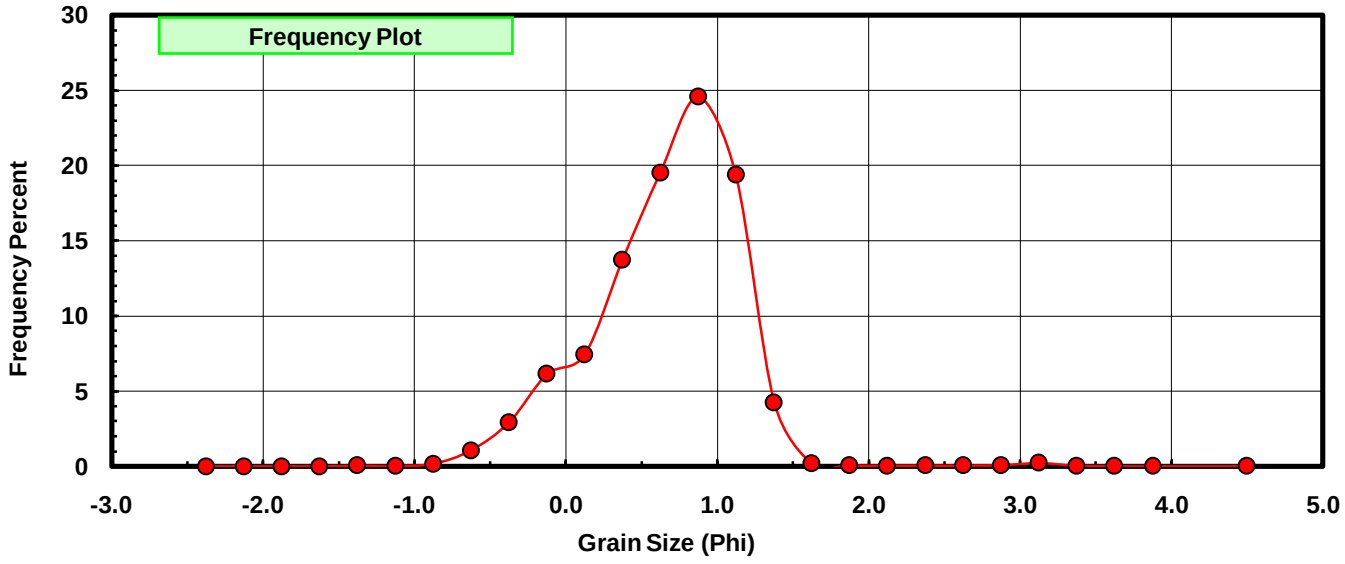
Statistical Explanation

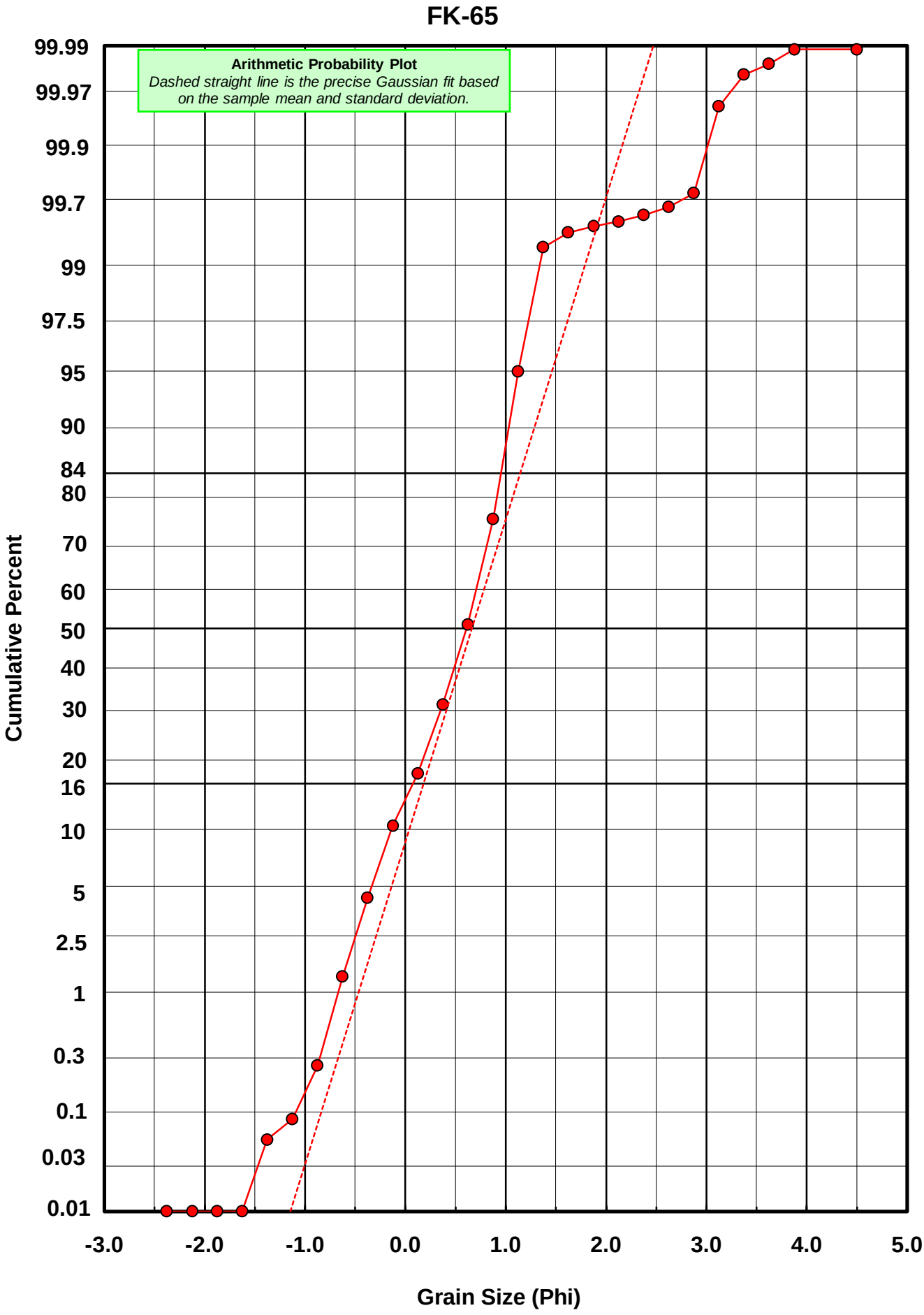
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-65
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)