Onshore Grab Sample

Sample: FK-22-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/11/10
Splits? N/A

County: Franklin
Latitude: 29° 36' 51.2" N
Longitude: 84° 57' 23.7" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.097	grams
Total Fines in Sample	0.005	grams
Total Percent Fines	0.01	%

Dry Sieving Summary

Total Sample Weight	57.246	grams
Total Digested Weight	55.448	grams
Total Carbonate Weight	1.798	grams
Total Silica %	96.86	%
Total Carbonate %	3.14	%
Carbonate/Silica Ratio	0.032	

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-22-BB

Total Sample Mass: 57.246 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	0.170	0.297	0.297
-1.75	-1.875	0.000	0.000	0.297
-1.50	-1.625	0.014	0.024	0.321
-1.25	-1.375	0.041	0.072	0.393
-1.00	-1.125	0.076	0.133	0.526
-0.75	-0.875	0.066	0.115	0.641
-0.50	-0.625	0.241	0.421	1.062
-0.25	-0.375	0.139	0.243	1.305
0.00	-0.125	0.155	0.271	1.576
0.25	0.125	0.332	0.580	2.156
0.50	0.375	1.544	2.697	4.853
0.75	0.625	3.659	6.392	11.244
1.00	0.875	8.321	14.536	25.780
1.25	1.125	10.864	18.978	44.758
1.50	1.375	13.046	22.789	67.547
1.75	1.625	10.111	17.662	85.209
2.00	1.875	5.283	9.229	94.438
2.25	2.125	2.321	4.054	98.492
2.50	2.375	0.628	1.097	99.589
2.75	2.625	0.169	0.295	99.885
3.00	2.875	0.039	0.068	99.953
3.25	3.125	0.015	0.026	99.979
3.50	3.375	0.006	0.010	99.990
3.75	3.625	0.003	0.005	99.995
4.00	3.875	0.002	0.003	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.2743	phi	(0.4134 mm)
Standard Dev:	0.5285	phi-units	(0.6933 mm)
Skewness:	-1.2867	dimensionless	
Kurtosis:	9.3953	dimensionless	
5th Moment:	-43.0944	dimensionless	
6th Moment:	269.4129	dimensionless	
RARD *	0.4148	dimensionless	
Median	1.1825	phi	(0.4406 mm)

* RARD = reciprocal absolute relative dispersion (see below)

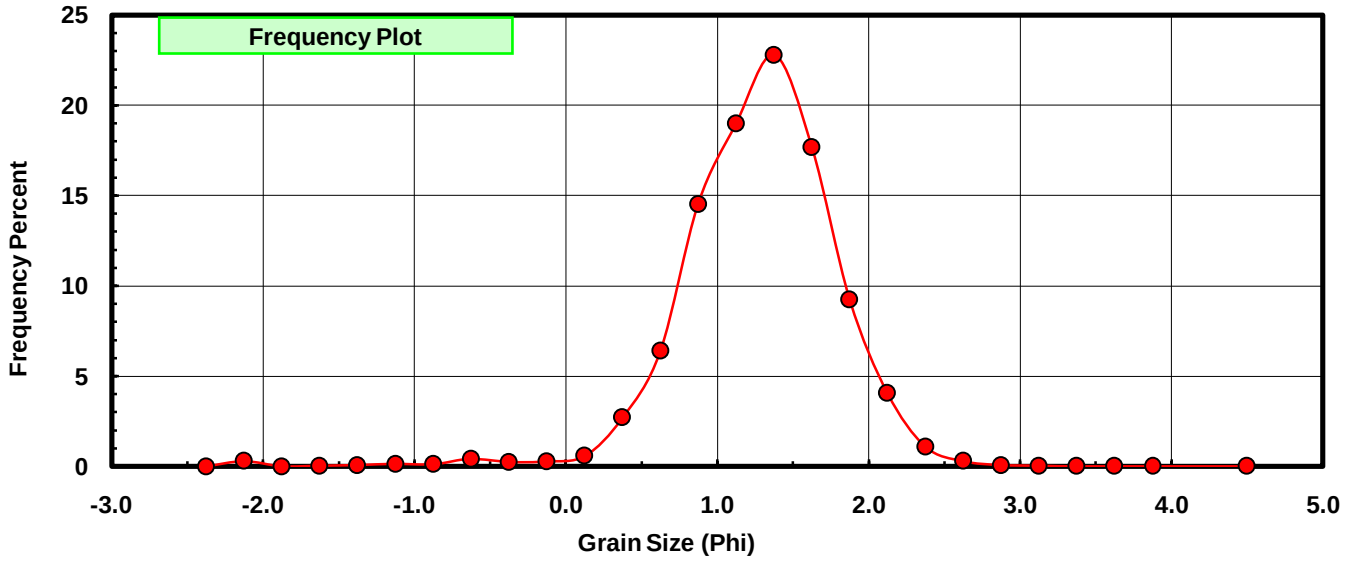
Statistical Explanation

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

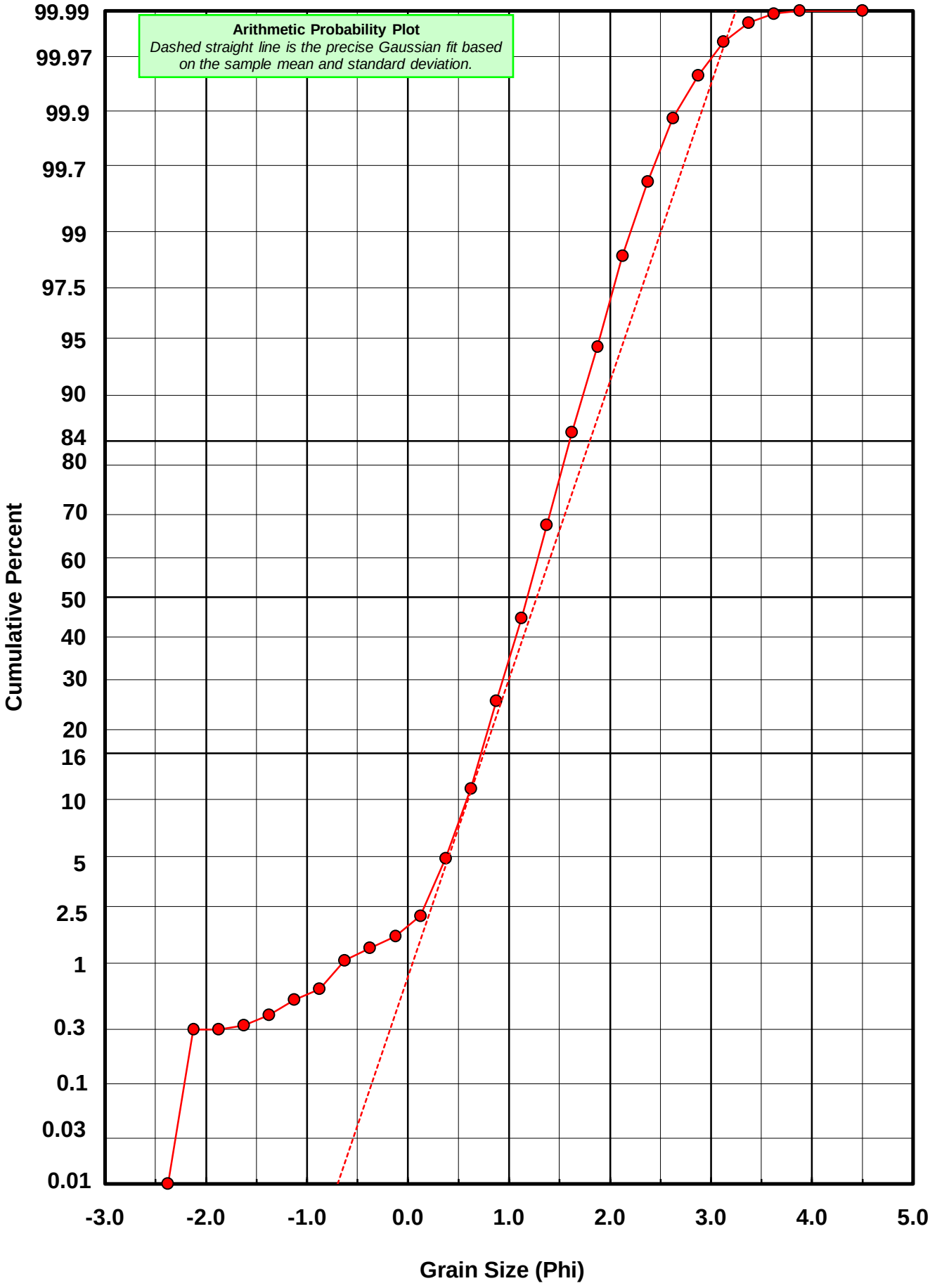
For Further Explanation, See Basillle et al. 2002

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-22-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)