

**Onshore Grab Sample**

**Sample:** ES-33-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 3/30/11  
**Splits?** N/A

**County:** Escambia  
**Latitude:** 30° 21' 15.2" N  
**Longitude:** 87° 1' 10.7" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	52.839 grams
Total Fines in Sample	0.059 grams
Total Percent Fines	0.11 %

**Dry Sieving Summary**

Total Sample Weight	52.857 grams
Total Digested Weight	50.684 grams
Total Carbonate Weight	2.173 grams
Total Silica %	95.89 %
Total Carbonate %	4.11 %
Carbonate/Silica Ratio	0.043

**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: ES-33-BB

Total Sample Mass: 52.857 grams

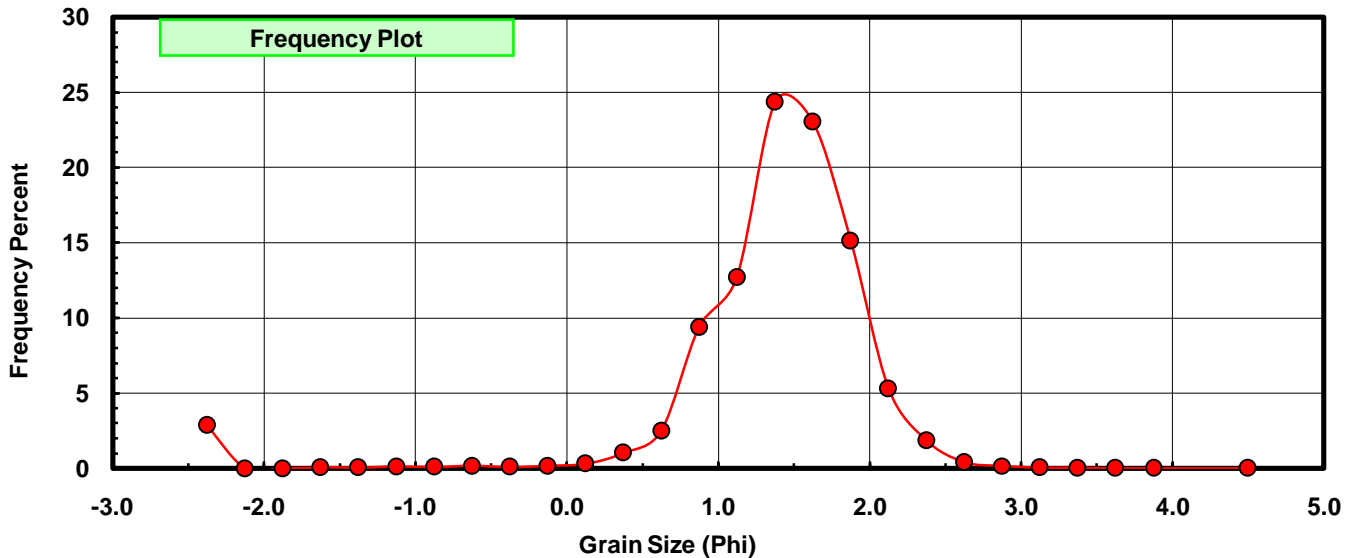
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.513	2.862	2.862
-2.00	-2.125	0.000	0.000	2.862
-1.75	-1.875	0.000	0.000	2.862
-1.50	-1.625	0.031	0.059	2.921
-1.25	-1.375	0.027	0.051	2.972
-1.00	-1.125	0.066	0.125	3.097
-0.75	-0.875	0.051	0.096	3.194
-0.50	-0.625	0.083	0.157	3.351
-0.25	-0.375	0.054	0.102	3.453
0.00	-0.125	0.086	0.163	3.615
0.25	0.125	0.161	0.305	3.920
0.50	0.375	0.541	1.024	4.944
0.75	0.625	1.317	2.492	7.435
1.00	0.875	4.964	9.391	16.827
1.25	1.125	6.719	12.712	29.538
1.50	1.375	12.884	24.375	53.913
1.75	1.625	12.175	23.034	76.947
2.00	1.875	8.005	15.145	92.092
2.25	2.125	2.802	5.301	97.393
2.50	2.375	0.983	1.860	99.253
2.75	2.625	0.225	0.426	99.678
3.00	2.875	0.091	0.172	99.851
3.25	3.125	0.034	0.064	99.915
3.50	3.375	0.021	0.040	99.955
3.75	3.625	0.009	0.017	99.972
4.00	3.875	0.007	0.013	99.985
5.00	4.50	0.008	0.015	100.000

Statistical Results			
Mean:	1.3430	phi	(0.3942 mm)
Standard Dev:	0.7916	phi-units	(0.5777 mm)
Skewness:	-3.0382	dimensionless	
Kurtosis:	15.0407	dimensionless	
5th Moment:	-67.6876	dimensionless	
6th Moment:	319.4559	dimensionless	
RARD *	0.5894	dimensionless	
Median	1.3349	phi	(0.3964 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 Basille 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)



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