





Prepared in cooperation with the Bureau of Ocean Energy Management

2014 Seafloor Sediment Analysis and Mapping - Southern Maine

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Disclaimer

This report is preliminary, but data and information published herein are accurate to the best of our knowledge. Data synthesis, summaries and related conclusions may be subject to change as additional data are collected and evaluated. While the Maine Coastal Program makes every effort to provide useful and accurate information, investigations are site-specific and applicability of results to other regions in the state is not yet warranted. The Maine Coastal program does not endorse conclusions based on subsequent use of the data by individuals not under their employment. The Maine Coastal Program disclaims any liability, incurred as a consequence, directly or indirectly, resulting from the use and application of any of the data and reports produced by staff. Any use of trade names is for descriptive purposes only and does not imply endorsement by The State of Maine.

For an overview of the Maine Coastal Mapping Initiative (MCMI) information products, including maps, data, imagery, and reports visit http://www.maine.gov/dacf/mcp/planning/mcmi/index.htm.

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ABSTRACT

One goal of the Maine Coastal Program's cooperative agreement with the Bureau of Ocean Energy was to characterize offshore sediment deposits in order to identify potential sand resources that may be used for beach nourishment in the event of an erosional storm. In 2014, the Maine Coastal Mapping Initiative collected 28 sediment samples in the federal portion of the focus area located offshore of Kennebunkport in Southern Maine, though 49 additional samples were collected nearer to shore. Samples were processed to determine the relative concentrations of gravel, sand, and mud (Folk 1954), and the sand fraction was further analyzed to determine the degree of sorting and the distribution of grain sizes within the fraction (Wentworth 1922). Additionally, sediment color (Munsell, 1923) was also determined to further explore the potential compatibility of nourishing existing beaches with sediment dredged from offshore deposits. Although sand was more abundant closer to shore, 16 out of the 28 samples collected in federal waters contained >50% sand (mean sand composition of all samples = $46.3\% \pm 22$. 4%). Prior to sediment dredging for beach nourishment purposes, more extensive coring and/or sub-bottom profiling would need to be conducted to estimate the volumes of these sediment deposits. In addition, these data are a critical component of benthic habitat classification and modeling performed by MCMI (see Ozmon, 2016). Overall, these data have a variety of applications and are an invaluable resource to public and private agencies who wish to more effectively manage and understand coastal and marine resources.

Introduction

Sustainable management and extraction of Maine's coastal and marine resources are necessary to ensure effective coastal resiliency and conservation efforts. The collection and analysis of geophysical and seafloor sediment data allow state and federal agencies to proactively identify the resources available to enhance resiliency, improve management of resources within their jurisdiction, and develop a more comprehensive understanding of potential resources. A key component of coastal resiliency and conservation efforts is access to quality nearshore and offshore sand and gravel resources. However, quantitative assessments for many of these resources have been conducted in mostly state waters (e.g. Kelley et al., 1997a, b). Recently, the Bureau of Ocean Energy Management (BOEM) has recognized the need to identify additional outer continental shelf (OCS) sand resources for beach nourishment and coastal restoration projects because sand resources in state waters are either diminishing or are of poor quality, or otherwise unavailable (U.S. Department of the Interior, 2014). The goals of this investigation are to describe and characterize marine sediment samples in the coverage area approximately 3-8 nm offshore of Kennebunkport, ME, to enable benthic habitat classification via the federallyapproved Coastal and Marine Ecological Classification Standard (CMECS; FGDC, 2012), identify potential sediment resources for beach nourishment as outlined by BOEM, and investigate the relationship between sediment grain size and multibeam backscatter intensity to refine interpretations of seafloor sediment distribution across mapped areas.

Objectives

- Identify and map seafloor sand resources in the North Atlantic OCS focus areas established in the Maine Coastal Program's (MCP) cooperative agreement with BOEM
- Investigate the relationship between sediment grain size and multibeam backscatter intensity to map seafloor sediment types
- Characterize sediment grain size distributions and sorting to support benthic habitat classification

Focus Area

The 2014 focus area was chosen outside of Wells Embayment, where fluvial sand deposits from the discharge of the Little, Mousam, and Kennebunk Rivers were expected to have occurred due to the glacial history of the area (Figure 1). Kelley et al. (1987) documented sand deposits in the region nearshore and observed gravel bands in between the sandy and rocky zones. Existing literature also indicates that mixed gravel and sand substrates are common in Maine's coastal regions where water depth does not exceed 50 m (Kelley et al. 1987).

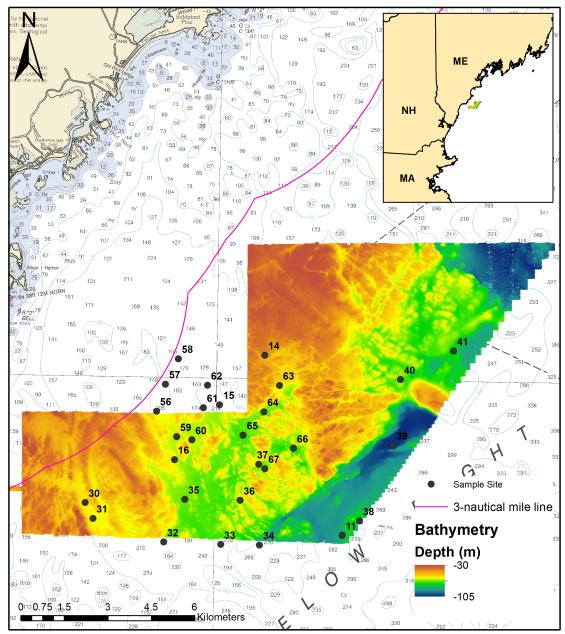


Figure 1. MCMI 2014 survey area bathymetry and grab sample sites (black circles with sample ID number) relative to 3-nautical mile line (state-federal jurisdiction boundary).

Methods

In the BOEM focus area, grab sample locations were selected in areas where preliminary analyses of multibeam echosounder (MBES) backscatter intensity data suggested the presence of a predominantly sandy and/or gravelly seafloor. Although a variety of environmental, geometric, and other external factors must be considered when interpreting backscatter data, the signal has been shown to directly relate to unconsolidated sediment grain size and seafloor roughness (Lurton and Lamarche, 2015), which makes this technique desirable for the purposes

of this investigation. In addition to interpretations of MBES backscatter and depth data, the decisions to sample in areas immediately adjacent to the coverage area were influenced by a review of navigational chart bathymetry and existing literature that pertained to the seafloor geology (e.g. Barnhardt et al., 1997; 1998; and Kelley et al., 1997; 1998) of the focus area.

The bottom sampler used was a clamshell style 9 x 9" Ponar grab sampler. Immediately upon retrieval, the sediment surface was partitioned into two subsamples; a minimum of 1000 cm³ was set aside for grain-size analysis and the remainder was sieved for infaunal analysis (for details, see Ozmon, 2015). Sediment subsamples were then bagged, labeled, and stored in coolers before and during transport to the sedimentology laboratory at the University of Maine (UMaine).

At each location where the sampler returned empty after three attempts a hard substrate (e.g. bedrock, boulders, etc.) was inferred. The x and y coordinates (WGS84, UTM Zone 19N meters; GPS horizontal accuracy at surface ± 3 m) of each attempt were logged to account for vessel drift in between sampling attempts. Coordinates were not recorded until the sampler reached bottom and when the wench tether was visually confirmed to have a vertical/near-vertical orientation relative to a flat sea surface. The depth for each location was determined in real time using a hull-mounted single-beam fathometer and was not referenced to a specific vertical datum (e.g. MLLW). Thus, the vertical uncertainty associated with depths recorded for each site may be as much as the typical tidal range in the focus area (approximately 3 m).

Sediment samples were analyzed using standard laboratory techniques for the textural analyses. Sieve methods were used to determine the proportion of gravel-, sand-, and mud-sized particles to classify the overall sample using Folk classification scheme (Folk 1954; Figure 2 and Table 1). Grain-size statistical parameters were calculated by graphical and moment methods for the sand-sized portion of samples that contained greater than 20% sand-sized particles (Wentworth, 1922). This process was automated for samples processed at UMaine using a Rapid Sediment Analyzer settling tube. The remainder of each bulk sample was preserved for archiving at MCP in Augusta, ME.

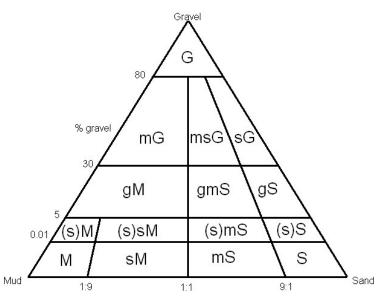


Figure 2. Sediment classification ternary diagram. Uppercase letters indicate predominant size component (m, = mud, s = sand, g = gravel, (s) = slightly gravelly). From Folk, 1954.

Table 1. Ternary diagram from Figure 3 modified from Folk (1954) to include classification R (rock or boulders) in table format.

Folk Code	Description	% gravel	Sand:Mud
R	Rock or Boulders	-	-
G	Gravel	80-100	-
sG	Sandy gravel	30-80	> 9:1
msG	Muddy sandy gravel	30-80	1:1-9:1
mG	Muddy gravel	30-80	< 1:1
gS	Gravelly sand	5-30	> 9:1
gmS	Gravelly muddy sand	5-30	1:1-9:1
gM	Gravelly mud	5-30	< 1:1
(s)S	Slightly gravelly sand	0.01-5	> 9:1
(s)mS	Slightly gravelly muddy sand	0.01-5	1:1-9:1
(s)sM	Slightly gravelly sandy mud	0.01-5	1:9-1:1
(s)M	Slightly gravelly mud	0.01-5	< 1:9
S	Sand	0-0.01	> 9:1
mS	Muddy Sand	0-0.01	1:1-9:1
sM	Sandy Mud	0-0.01	1:9-1:1
M	Mud	0-0.01	< 1:9

Results

Between May and November 2014, a total of 28 samples were collected in federal waters within and adjacent to the approximately 40 mi² (107 km²) survey area. Table 2 contains a summary of sample depth and grain size analyses.

Table 2. Summary of sediment sample depth and grain size analyses.

Sample ID	Depth ¹ (m)	Gravel (%)	Sand (%)	Mud (%)	S:M	Folk (1954)	Sand-sized Fraction Wentworth (1922)
K0011	87.2	52.43	7.01	40.56	0.17	mG	med. sand, poorly sorted
K0014	54.0	58.53	29.59	11.88	2.49	sG	coarse sand, well sorted
K0015	68.4	0.24	67.60	32.16	2.10	mS	fine sand mod. well sorted
K0016	65.6	0.92	55.88	43.20	1.29	mS	fine sand, mod. well sorted
K0030	61.0	6.20	62.36	31.44	1.98	mS	med. sand, mod. sorted
K0031	60.8	1.26	56.74	42.00	1.35	mS	fine sand, mod. well sorted
K0032	71.5	0.53	60.14	39.33	1.53	mS	fine sand, mod. sorted
K0033	74.0	8.13	64.80	27.07	2.39	mS	med. sand poorly sorted
K0034	85.5	3.28	35.71	61.01	0.59	sM	fine sand, mod. sorted
K0035	72.9	0.53	67.93	31.54	2.15	mS	fine sand, poorly sorted
K0036	70.0	90.36	0.42	9.22	0.05	G	-
K0037	71.0	45.96	36.70	17.35	2.12	msG	coarse sand, mod. sorted
K0038	82.0	55.45	11.80	32.75	0.36	mG	med. sand, poorly sorted
K0039	102.0	0.50	28.71	70.79	0.41	sM	fine sand, poorly sorted
K0040	73.0	28.72	44.28	27.00	1.64	gmS	med. sand, mod. sorted
K0041	77.3	2.75	61.84	35.42	1.75	mS	fine sand, mod. sorted
K0056	64.5	0.81	63.15	36.04	1.75	mS	fine sand, mod. sorted
K0057	62.8	33.51	40.79	25.70	1.59	gmS	coarse sand, mod. sorted
K0058	55.2	47.60	32.38	20.02	1.62	msG	coarse sand, mod. sorted
K0059	66.5	8.06	50.84	41.10	1.24	mS	med. sand, poorly sorted
K0060	66.0	6.96	73.59	19.45	3.78	mS	fine sand, mod. sorted
K0061	65.4	4.13	59.95	35.92	1.67	mS	med. sand poorly sorted
K0062	57.8	16.75	45.50	37.75	1.21	gmS	coarse sand, mod. sorted
K0063	60.8	4.92	73.24	21.84	3.35	mS	med. sand, mod. well sorted
K0064	70.4	39.44	32.05	28.52	1.12	msG	fine sand, mod. well sorted
K0065	72.7	4.31	56.85	38.84	1.46	mS	fine sand, mod. sorted
K0066	74.4	10.93	56.93	32.15	1.77	gmS	med. sand, mod. sorted
K0067	71.5	5.23	69.27	25.50	2.72	mS	med. sand, mod. sorted

¹Depth measurements were recorded in real time and may differ from multibeam bathymetry data by \pm 3m (i.e. the expected tidal range within the coverage area).

Appendix A contains additional data such as coordinates and Munsell colors for each sample. Table 3 illustrates the distribution of samples based on 10-m depth intervals. All samples were collected at depths ranging from 54 to 102 m but were mostly concentrated between 60 to 80 m. No samples were collected at depths less than 50 m or greater than 102 m, which generally reflects the lack of extensive unconsolidated substrate at depths less than 50 m, the general absence of depths less than 50 m in the survey area, and the scarcity of predominantly sandy material at depths greater than 80 m in federal waters within the survey area. A total of 16 samples were predominantly (>50% by weight) sand, 4 predominantly gravel, and 2 predominantly mud. The six remaining samples contained a mixture of all three size-fractions that were < 50% by weight.

Table 4 contains a summary of the distribution among samples based on grain-size analyses using the Folk (1954) classification system modified to include rocky/bouldery (R) substrates as well as unknown substrates. The backscatter map in Figure 3 illustrates the results shown in Table 4, where samples are colored based on Folk (1954) classification and the darkest shades of gray generally represent fine-grained, muddy sediments (e.g. mostly silt and clay), lighter shades represent progressively coarser material (e.g. sand and gravel); the lightest shades (e.g. white) represent bare rock. Although these conventions are useful for gross interpretations of sediment composition/distribution, there are many variables that can affect the backscatter intensity for a given substrate (e.g. beam angle incidence, slope, roughness, water content, biota, variations within water column, etc.; Lurton and Lamarche, 2015).

Table 3. Summary of sample depth distribution.

Depth (m)	Number of Samples
< 50	0
50-59.99	3
60-69.99	10
70-79.99	11
80-89.99	3
>90	1

The sand-sized fraction of these samples were most frequently composed of fine or medium sand (graphic mean) and were commonly moderately or poorly sorted (Table 5; Appendix B). One sample, K0036 contained much less than the required 20%% sand-sized material and thus was not assigned a Wentworth classification (Appendix B).

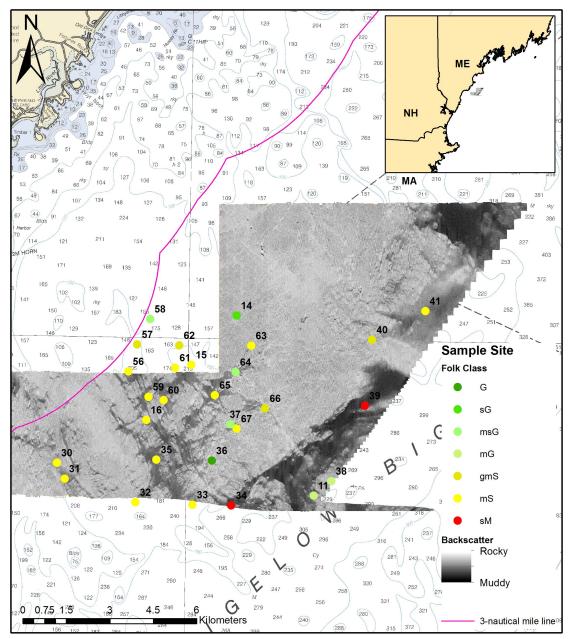


Figure 3. Sample sites colored (circles) based on Folk (1954) classification overlain with backscatter intensity, where darker colors indicate the presence of softer sediments, such as mud or clay, and lighter colors indicate the presence of harder substrates, such as bedrock or boulders.

Table 4. Summary of sample distribution based on modified Folk (1954).

Folk Code ID	Folk Class.	# of Samples
1	R	0
2	G	1
3	sG	1
4	msG	3
5	mG	2
6	gS	0
7	gmS	4
8	gM	0
9	(s)S	0
10	(s)mS	0
11	(s)sM	0
12	(s)M	0
13	S	0
14	mS	15
15	sM	2
16	M	0
17	Unknown	0

Table 5. Summary of graphic mean and sorting for sand-sized portion of qualifying samples.

of

Graphic Mean Size	# of Samples
V. Coarse Sand	0
Coarse Sand	5
Med. Sand	11
Fine Sand	11
V. Fine Sand	0
0 4 7 1	
Sorting (graphic std. dev.)	# of Samples
0 10 1	01
std. dev.)	Samples
v. Well Sorted	Samples 0
v. Well Sorted Well Sorted	Samples 0 3
v. Well Sorted Well Sorted Mod. Well Sorted	0 3 3

Discussion

The distribution of sediment types was consistent with existing interpretations of seafloor morphology within and adjacent to the focus area (e.g. Barnhardt et al., 1997; 1998 and Kelley, et al., 1997a, b). The majority of seafloor within the survey area consisted of rocky outcrops at less than 60 m depth (Fig. 4). The occurrences of sandy surficial deposits at depths less than 60 m were limited to discontinuous, shallow valleys in the highly-fractured bedrock. Although numerous, these deposits were spatially discontinuous and presumably thin. Limited grain-size data (e.g. K0014) also suggest that the cleanest (e.g. lack of fine-grained/muddy sediment) sands and gravels within the survey area were present in this type of setting at similar depths. Laterally extensive surficial deposits of predominantly sandy and/or gravelly material within the survey area were scarce and were restricted to the most prominent valleys in between outcrops and at depths ranging from 60 - 75 m. Although the majority of samples from 60 - 75 m depth were predominantly sand (e.g. mS, gmS), a considerable proportion of mud was very common (mean % mud = 32.8). Overall, grain-size data indicate that predominantly fine (e.g. mud) sediments are most common as depth increases beyond approximately 70 m and is a common trend observed along the coast of Maine (e.g. Kelley et al., 1997; Barnhardt et al., 1998).

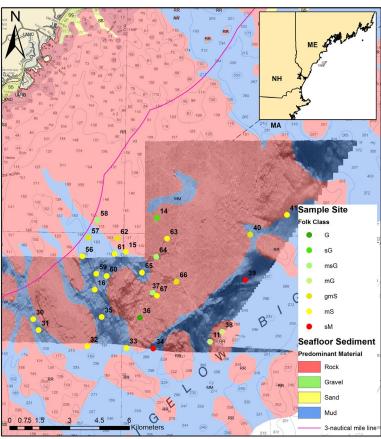


Figure 4. Generalized seafloor sediment map from Barnhardt et al. (1996) showing interpreted extent of seafloor substrates (Barnhardt et al., 1998) and sample site Folk (1954) classification.

BOEM was most interested in sand deposits at depths < 30 m for this investigation. Although the data collected by MCMI suggest that these deposits are mostly absent in the focus area, the sampling and survey data collected in deeper waters allow the characterization of sediment and geographic extent of the unconsolidated sediment in federal waters. In addition, the data collected by MCMI can serve as a resource to refine existing seafloor sediment and bathymetric maps of the region. Once final bathymetry and backscatter data products are generated, MCMI plans to perform in-depth spatial assessments of potential sand deposits at pre-defined depth intervals (e.g. 5 m, 10 m) in federal water within the 2014 coverage area.

Conclusions

During the 2014 survey season, MCMI collected a total of 28 bottom samples within the 40 mi² survey area. Analyses of grain-size, bathymetry, and backscatter data suggest that laterally extensive surficial deposits of predominantly sandy and/or gravelly material within the survey area were scarce and were restricted to the most prominent valleys in between outcrops and at depths ranging from 60 - 75 m. The occurrences of sandy surficial deposits at depths less than 60 m were limited to discontinuous, shallow valleys in the highly-fractured bedrock. Although numerous, these deposits were spatially discontinuous and presumably thin. Overall, data collected by MCMI indicate very low sand and gravel resource potential using traditional methods in the survey area offshore of Southern Maine.

In addition, these data are a critical component of benthic habitat classification and modeling performed by MCMI (see Ozmon, 2016). Overall, these data have a variety of applications and are an invaluable resource to public and private agencies who wish to more effectively manage and understand coastal and marine resources.

References

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Appendix A – Sample Site Coordinates and Munsell Colors

Sample ID	Northing (m)	Easting (m)	Munsell Color (Wet)
K0011	4793249	396247	2.5Y 4/2, dark grayish brown
K0014	4799476	393576	5Y 4/2, olive gray
K0015	4797768	392012	5Y 4/2, olive gray
K0016	4795869	390453	5Y 4/2, olive gray
K0030	4794383	387360	5Y 4/2, olive gray
K0031	4793836	387631	5Y 4/3, olive
K0032	4793022	390078	5Y 4/3, olive
K0033	4792935	392049	5Y 5/3, olive
K0034	4792914	393393	5Y 4/3, olive
K0035	4794495	390803	5Y 4/3, olive
K0036	4794461	392722	gravel
K0037	4795710	393364	5Y 4/3, olive
K0038	4793749	396850	5Y 4/4, olive
K0039	4796360	398011	5Y 4/4, olive
K0040	4798634	398262	5Y 4/4, olive
K0041	4799625	400101	5Y 4/3, olive
K0056	4797547	389835	5Y 4/3, olive
K0057	4798476	390142	5Y 4/4, olive
K0058	4799357	390586	5Y 4/1, dark gray
K0059	4796662	390527	5Y 4/4, olive
K0060	4796550	391052	5Y 4/2, olive gray
K0061	4797666	391451	5Y 4/3, olive
K0062	4798441	391593	5Y 4/3, olive
K0063	4798433	394083	5Y 4/4, olive
K0064	4797521	393541	5Y 4/3, olive
K0065	4796718	392826	5Y 4/3, olive
K0066	4796265	394562	5Y 4/2, olive gray
K0067	4795558	393578	5Y 4/3, olive

Coordinates are listed in projected coordinate systems WGS 84 UTM Zone 19N (meters).

Appendix B – Rapid Sediment Analyzer Raw Data

```
5.31 # 0.00
   6.71 % 0.00
7.11
                         9.00
                                                                                                   # 3,87
   8.81 # 0.89
   7.11 8 0.00
 11.01 * 0.10
                  8 U.41
  13.01 + 0.01
 14.21 # 0.01
15.51 # 0.02
  16.81
         # W.13
  18.11
            3 Q.17
              # 0.27
 20,0;
 21.91
23.81
25.81
                 * 8.36
                  # 0.41
                   * 0.43
 28.31
39.91
                   # 0.46
# 0.45
  34.11
37.31
                   ¥ 0.45
                    * 0.49
                     * 0.52
                     # 0.52
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 39.41
                    * 0.51
  54.61
                     * 0.51
                     * 0.58
 50.41
                           .61
* 0.82
* 1.05
* 1.28
 44.71
                      * 0.61
                                         1.28

* 1.47

* 2.25

* 2.87

* 3.16

* 3.50

* 3.84

* 4.47

* 4.47

* 4.47

* 4.47

* 5.12

* 5.39
 81.41
 90.41
100.01
110.71
123.76
137.81
153.86
172.41
193.51
244.71
27á.11
311.91
353.51
401.61
457.31
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$ 5.72
521.97
597.41
SEC
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UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0003-SC
WATER TEMP.: 19
PHI
                  TIME
                                    TIME
                                                      INTERVAL
                  EXPECT
                                    OBSERV
                                                     WEIGHT: GRAMS
                   7.22
8.27
9.54
                                                     3.87
 -1.00
                                   8.40
                                  9.48
9.72
11.36
 -0.75
                                                     6.66
 -0.50
                                                    0.00
                  11.07
12.94
15.24
 -0.25
                                                     0.00
  0.00
                                                    0.54
                                   15.54
                                                    0.01
  0,25
                  18.08
21.63
                                                    0.15
0.19
  0.50
0.75
                                  18.07
21.91
                                  26.41
32.19
39.87
  1.00
                  26.12
                                                    0.07
                  31.85
39.25
  1.25
                                                    0.60
  1.50
                                                    0.09
                                   49.43
  1.75
                  48.93
                                                     6.90
  62.23
78.92
102.60
                61.74
78.92
102.23
                                                    0.08
                                                    0.40
0.54
                134.19
178.42
                                 134.62
178.78
                                                    8.66
                                                    0.77
   3.25
                 249.09
                                  240.24
                                                    0.83
  3.50
3.75
                                 326.64
                 326.51
                                                    0.80
                 449.00
                                 449.39
                                                    8.75
                                 619.83
  4.00
                619.49
                                                    0.40
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT:
                        10,1500
```

WEIGHT ERROR)5%

LOOD3-SE PLOY Zof3

```
04-01-2005
SAMPLE NUMBER: K0003-SC
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       (i) 21
(i) 1<sub>a</sub>
                                                                                                                                 100%
                                                                    50%
PHI
-1.00
                                                       # 38.09
-6.75
                                                       * 38.89
-0.50
                                                       * 38.09
-0.25
                                                       ÷ 38.89
                                                            # 43,41
# 43.50
+0.00
+0.25
+0.50
                                                               * 44.98
                                                                  * 46.85
* 47.54
+0.75
+1.00
+1.25
                                                                   # 47.54
+1.50
                                                                   # 48.43
                                                                   # 40.

* 49.43

* 49.21

* 53.15

* 58.46

* 64.96

* 72.54

* 80.71

* 89.58

* 76.06

* 107
+1.75
+2.00
+2.25
+2.50
+2.75
+3.00
+3.25
+3.75
+4.00
                                                                                                                                   £100.00
PHI
        5.0000% = -1.2172
       16.0000% = -1.1450
25.0000% = -1.0859
PHI
PHI
PHI
       50.0000% =
                       2.0500
PHI
       75.0000% =
                       3.0753
       94.0000% = 95.0000% =
                       3.3545
3.7145
PHI
PHI
HODE=
             -1.0000 PHI
                                    38.0905 CUH WT%
MODE=
             -0.5000 PHI
                                    39.0705 CUM WT%
                                   43.4055 CUH HT%
MODE=
              0.0000 PHI
               8.7580 PHI
#00E=
                                   46.9504 CUH WT%
                                   48.4252 CUM WT%
80.7087 CUM WT%
              1.5000 PHI
3.2500 PHI
HODE=
M00E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                             1.4198
                                                    HEDIUM SAND
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                            1.8721
-8.3726
                                               : POORLY SORTED
: STRONGLY COARSE SKEWED
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                             0.4957
                                               : VERY PLATYKURTIC
NORMALIZED KURTOSIS:
                             0.3269
```

MEAN X= 1.2832
VARIANCE= 4.0210
SKEWNESS= -0.0673
STD DEVIATION= 2.0052
KURTOSIS= 1.2156

K0003-55 page 3 & 3

K0007-SA Rage lof Z

```
207.57.00
               * 0.38
                * 0.38
                # 0.38
                * 0.38
                * 0.38
  9.41
                # 0.37
               # 0.36
  9.11
9.71
               * 0.36
 10.41
                # 0.37
11.01
                # 8.39
                # 0.37
                # Q.41
 15.51
                 # 0.42
 16.81
                 # 0.4d
                 # 0.46
 18.81
                  # 0.48
 19.91
 21.91
23.81
25.81
                  * 0.48
                  ¥ 0.49
                  # 8.49
 28.31
                  * 0.46
                 * 6.45
 30.81
 34.91
                  * 8.51
                   € 0.57
 37.21
 4 1 1
                    * 0.59
                    * 0.61
 44.91
 49.41
                    # 0.62
 54.51
60.31
                    # 0.57
                          * 0.93
66.71
73.71
                                   * 1.28
                                                   # 1.99
                                                               ¥ 2.63
 81.41
                                                                         £ 3.87
 98.4;
                                                                                     # 3.59
100.01
                                                                                                * 4.13
110.95
                                                                                                           # 4,66
123.71
                                                                                                                     ¥ 5.10
                                                                                                                            å = 5.47
* 5.74
137,8
153.71
172.31
                                                                                                                                      # 5.91
193.41
                                                                                                                                         * 4.03
217.15
                                                                                                                                          # 6.12
244.71
                                                                                                                                            # 6.17
27á.01
                                                                                                                                             # 6.21
311.91
                                                                                                                                             # 6.24
353.54
                                                                                                                                             £ 6.26
401.51
                                                                                                                                             ± 6.20
457.23
                                                                                                                                              # 6.27
521.81
                                                                                                                                              £ 6.27
597.41
                                                                                                                   E
                                                                                                                                        3
                                                           GRAMS
                                                                                              4
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
94-91-2005
SAMPLE NUMBER: KØØØ7-SA
WATER TEMP.: 21.5
PHI TIME
                                 TIME
                                                 INTERVAL
PHI
                                 OBSERV
                                                  WEIGHT: GRAMS
                EXPECT
-1.00
-0.75
                 7.20
9.24
                                                0.38
                                 7.19
                                9.45
9.72
                                                 0.00
                 9.50
                                                0.00
 -0.50
                11.02
12.85
                                11.04
                                                 0.02
 -8.25
  0.00
                                                0.00
                15.12
17.92
21.48
25.78
31.36
38.53
                                15.49
  8.25
                                                 9.95
                               18.01
21.86
25.76
31.52
38.55
                                                8.64
  0.50
                                                 0.02
  9.75
  1.60
                                                0.01
  1.25
                                                 9.99
                                                0.11
                47.88
                                48.11
                                                 9,85
  1.75
                                60.30
                                                0.21
                60.19
  2.00
                                76.95
                                                 1,45
  2.25
                 74.63
                               99.36
  2.50
                98.84
                                                 1.28
                                                 1.30
                               129.40
               129.18
  2.75
                               171.03
                                                0.86
  3.90
               171.06
```

```
04-01-2005
 SAMPLE NUMBER: K0007-SA
CUMULATIVE CURVE OF DATA WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                            50%
       PHI
-1.80
            £ 6.00
-0.75
-0.50
             £ 6.00
            * 6.00
            # 6.32
-0.25
            € 6.32
+0.00
            * 7.11
* 7.74
* 9.06
+0.25
+0.50
+0.75
             * 8.21
* 8.21
* 9.75
* 18.74
+1.00
+1.50
+1.75
+2.00
                   # 14.06
+2.25
                                              ¥ 36.97
                                                                    # 57.19
+2.50
+2.75
                                                                                           ± 77.73
                                                                                                         # 91.31
+3.00
+3.25
                                                                                                                £ 97.00
+3.50
                                                                                                                 # 99.05
+3.75
                                                                                                                  * 99.84
+4.00
                                                                                                                   #100.00
    5.0000% = -1.0418
16.0000% = 2.0212
25.0000% = 2.1194
50.0000% = 2.4111
75.0000% = 2.7168
PHI
PHI
PHI
PHI
PHI
                   2.8655
3.1622
PHI
     84.0000% =
PHI
      95.0000% =
           -1.0000 PHI
M00E=
                                6.8032 CUM WY%
                                6.3191 CUM MTZ
MODE=
            -0.2500 PHI
MODE=
            0.2500 PHI
                                7.1070 CUM WT%
                               9.9525 CUM WT%
36.9668 CUM WT%
77.7251 CUM WT%
#ODE=
             1.5000 PHI
MODE=
            2.2500 PHI
             2.7500 PHI
#ODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                    2.4326 : FINE SAND
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                         0.8480
                                         : MODERATELY SORTED
                        -0.2832
                                         : COARGE SKEWED
GRAPHIC KURTOSIS:
                         2.8839
                                         : VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                        8.7425
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
            2.3404
MEAN X=
VARIANCE=
                      0,9720
SKEWNESS=
                     -2.3751
STO DEVIATION=
                    0.9859
KURTOSIS=
                      8.4961
```

```
5.8:
                            # 0.89
£-0,40
  6.81
  *-0.12
7.11 * 0.12
7.71 * 0.33
  8.3! *-0.01
  7.01
       #-0.04
  9,81 #-0.02
 10.31 +-8.81
 11.51 +-0.01
 14.11 # 0.02
 15.41 *-8.81
 16.71 # 0.08
 18.81 # 0.07
 19.91 * 0.06
21.81 * 0.07
        # W.07
 23.71
 25.67
         £ 0.08
          # 0.10
 30.81
          * 6.13
 33.91
           # Ø.17
            # 8.19
  37.11
 41.01
            # 0.24
 44.81
              ₩ 8.27
 49.31
54.41
               ¥ 0.33
                  £ 8,48
                           # 0.81
 50.21
                                               ¥ 1.73
 66.61
73.71
                                                                        # 2.82
                                                                                        * 3.53
 91.33
                                                                                                    * 4, 1
 90.31
                                                                                                                       * 4.98
* 5.33
* 5.60
* 5
                                                                                                              * 4.58
 99.91
:10.8:
123.61
137.41
153.71
172.21
                                                                                                                                               * 5.98
193.34
217.11
                                                                                                                                               # 6.03
                                                                                                                                                # 6.05
244.6;
                                                                                                                                                # 4.07
275.91
                                                                                                                                                * 6.09
353.41
                                                                                                                                                 * 0.13
401.45
                                                                                                                                                 £ 6.13
457.11
                                                                                                                                                 * 5.12
521.71
597.31
                                                                                                                                                 # 6.12
SEC
                                                              GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0004 SE
WATER TEMP.: 18.5
                                  TIME
                                                    INTERVAL
PHI
                 TIME
                                                    WEIGHT: GRAMS
                                  099ERV
                 EXPECT
                                 7.74
8.34
9.77
11.53
                  7.22
                                                  0.03
 -1.00
                                                  6.60
 -0.75
-0.50
                  9.55
                                                  0.00
 -0.25
                 11.09
                                                  0.01
  0.00
                 12.94
                                 13.51
                                                  0.07
                 15.26
18.11
  0.25
0.50
                                 15.37
                                                   6.69
                                                  0.06
                                 18.61
  0.75
                 21.68
                                 21.99
                                                  0.02
                                                  0.02
                 26.19
                                 26.30
  1.00
                                 32.02
39.71
49.32
                                                   8.80
                  31.95
  1.25
  1.50
                 39,40
                                                  0.08
                 49.15
                                                   0.10
  1.75
  2.00
2.25
2.50
2.75
                62.07
79.40
102.94
135.23
                                62.12
79.42
103.09
                                                  0.74
                                                  2.31
1.33
                                                   4.96
                                135.72
                179.96
242.34
329.80
  3.00
                                180.54
                                                  0.37
   3.25
                                                  0.11
                                242.66
                                330.32
                                                  0.04
                452.84
                                453.24
                                                   0.04
```

626.35

TOTAL IMMERSED WEIGHT: 6.060406 CUM. TOT. WEIGHT: 6.2000

626.75

4.00

0.00

K0006-SB page Zofe

```
04-01-2005
SAMPLE NUMBER: K0006 S8
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                            567
       PHI
-1.00 * 0.48
-0.75 * 0.49
-8.50 * 8.48
-0.25 # W.65
+6.00 * 0.97
+0.25 € 0.97
+0.56 * 1.94
+0.75 * 2.26
       * 2.58
* 3.55
* 4.84
+1.00
+1.25
+1.50
+1.75
          * 6.45
                          # 19.39
+2.00
                                                                   # 55.65
+2.25
                                                                                           # 77.10
+2.50
                                                                                                         * 98.97
+2.75
                                                                                                                * 96.94
+3.00
                                                                                                                  * 79.71
+3.25
                                                                                                                   * 99.35
+3.50
                                                                                                                   £100,00
+3.75
                                                                                                                    £100.00
+4.08
      5.0000% = 16.0000% =
                   1.5250
PHI
PHI
                   2.2121
2.4756
2.6244
2.9189
     25.0000% =
PHI
PHI
     50.0000% =
PHI
      75.0000% =
     84.0000% =
PHI
PHI 95.0000% =
                                 0.4839 CUM WT%
#0DE=
           -1.0000 PHI
           0.0000 PHI
                                0.9677 CUM WT%
MODE=
                               1.9355 CUM WT%
55.6452 CUM WT%
           0.5000 PHI
MODE=
            2.2500 PHI
3.7500 PHI
MODE=
                              100.0000 CUH WT%
M00E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                    : FINE SAND
: WELL SORTED
                          2.2622
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                         0.3798
                       0.1184
1.3249
0.5699
                                         : FINE SKEWED
: LEPTOKURTIC
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                      2.3431
MEAN X=
VARIANCE=
                      0.2632
                     -2.1660
0.5130
SKEWNESS=
STD DEVIATION=
KURTOSIS=
                     14.5143
```

619.49

TOTAL INHERSED WEIGHT:

4.00

619.61

6.060606 4 9500 0.10

```
5.71 # 0.02
6.31 # 0.04
7.01 # 8.03
   7.4: 8-0.01
                         # 8.91
  8.21
                    ¥ 0.55
  9.91
  9.61 # 0.00
 10.11 # 0.12
                   # 0.54
 10.81
 12.11
    K-0,19
  13.31 *-0.92
 14.6! € 0.00
 15.91 # 0.08
 17.21
19.51
         # 0.12
          * G. 16
          # 0.18
 20.41
            # 0.21
 22.31
 24.21
            # 0.23
 26.11
            ¥ 0.25
             # 0.29
 28.71
              # 8.32
 31.34
               * 0.36
* 0.39
 34.51
 37.71
 41.51
                # 0.42
 45.41
                 ¥ 0.45
                 € 0.49
 49.81
 55.01
                  # 0.54
                   # 0.57
                      1.57
* 9.72
* 1.66
 60.71
 67.11
 74.11
                                       ¥ 1 ± 4
 81.81
                                                # 1.96
 90.84
                                                          * 2.42
100.4
                                                                                   * 3.71

* 4.89

* 4.74

* 5.80

* 5.26

* 5.46

* 5.43

* 5.43
                                                                  £ 2.81
111.31
                                                                            # 3.29
124.11
138.21
154.21
172.71
193.91
217.61
245.11
276.41
312.34
                                                                                                                                # 5.79
353.91
                                                                                                                                  * 5.91
401.91
                                                                                                                                    # 6.00
457.61
522.31
597.81
                                                                                                                                     # 6.05
                                                                                                                                      £ 6.09
                                               2 GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
GAMPLE NUMBER: K0004-SA
WATER TEMP.: 19
PHI TIME
PHI
                                TIME
                                                INTERVAL
                                OBSERV
                EXPECT
                                                WEIGHT: GRAMS
                7.22
 -1.00
                                7.63
                                               0.00
 -8.75
                                9.99
                                               9,56
                               9.55
11.47
                9.54
 -0.50
                                               0.00
               11.07
12.94
                                              0.00
0.26
 -0.25
                               13.01
 0.00
  9.25
                15.24
                               15.26
                                               0.07
                18.08
                               18.45
                                              0.13
 0.50
  0.75
                21.63
                               21.69
                                               0.84
  1.00
                26.12
                               26.14
                                              0.05
                               31.91
39.60
                                              0.07
                31.85
  1.25
  1.50
                39.25
                                              0.09
  1.75
                               49.21
                                              0.09
                49.93
              61.74
78.92
102.23
                              62.81
                                              0.08
  2.00
  2.25
2.50
2.75
3.00
                             79.31
102.32
                                               0.87
                                              1.06
               134.19
                              134.34
                                              1.10
              178.42
                             178.50
                                              0.92
                              249.52
  3.25
               240.09
                                              0.69
                                              0.48
  3.50
               326.51
                             327.02
  3.75
               448.08
                             448.59
                                               0.30
```

K0094-5A PAX Z + 3

```
04-01-2005
SAMPLE NUMBER: K0004-SA
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                          50%
      97
PHI
-1.00 * 0.00
-0.75
              # 8.06
-0.50
              # 8.95
-0.25
               * 8.06
                   * 11.89
+0.00
+0.25
+0.50
                   £ 12.81
                     * 14.59
+0.75
                     * 15.25
+1.09
+1.25
                       * 15.97
                       # 15.98
+1.50
                        ¥ 18.27
+1.75
                          # 19.42
                            * 20.58
+2.00
                                         # 33.09
+2.25
+2.50
                                                         * 49.35
                                                                          # 64.17
+2.75
                                                                                        * 77.41
+3.00
                                                                                                  # 87.34
+3.25
                                                                                                          * 94.24
+3.50
+3.75
                                                                                                               # 98.56
                                                                                                                #100.00
+4.00
PHI
       5.00001 =
                   -0.0449
                   1.0671
PHI
      14.0000% =
      25.0000% =
PHI
                     2.0884
      50.0000% =
                     2.5261
PHI
PHI
      75.0000% =
                     2.9545
      84.0000% =
                     3.1659
PHI
PHI
      95.0000% =
                     3.5438
MODE=
           -0.7500 PHI
                                9.9576 CUN WT%
                               11.7986 CUM WT%
            0.0000 PHI
MODE=
            0.5000 PHI
1.5000 PHI
                               14.6763 CUN WT%
MODE=
                               18.2734 CUM WT%
MODE=
             2.7500 PHI
                               64.1727 CUM WT%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                    : FINE SAND
                         2.2331
1.2046
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                                         : POORLY SORTED
                         -0.4718
                                            STRONGLY COARSE SKEWED
                                         10
                                         : VERY LEPTOKURTIC
                         2.0766
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
                         0.6750
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
-1.3843
1.2349
  KURTOSIS=
                           3.9649
                                       K0004-SC page (of 3
    5,71
         K-0.04
    6.51
         8-0.04
    7.31
         8-0.04
    7.71
         ±-0,04
    8.61
        #-0.04
    9.01
        *-8.04
   9.91
                          # Ø.76
  19.31
               * Q.27
  11.11
  4-0,45
  12.01
               # 0.29
          # 0.07
  13.31
  14.61
           ¥ Ø.13
  15.91
17.21
18.51
            ₹ 0.17
             # 0.19
             ¥ 0.23
  20.41
              * 0.27
               * 0.20
  22.31
  24.21
               ₹ 0.28
  26.11
                # 0.31
  28.71
                # 0.34
                * 0.35
* 0.39
  31.31
  34.41
                 # 0.39
  37.61
  41.51
45.31
                  # 0.44
                   * 0.45
  49.81
                   # 0.49
                   # 9.51
  54.91
                    # 0.51
# 0.55
# 0.75
# 1.05
# 1.43
# 1.77
  60.71
                   * 0.51
  67.11
  74.11
  91.81
  70.81
 100.41
                                                                           * 3.14

* 3.57

* 4.26

* 4.56

* 4.83

* 5.06

* 5.27

* 5.44

* 5.4
 111.31
                                                       * 2.18
 124.11
                                                                  # 2.67
138.1:
154.21
172.71
 193.91
217.61
245.11
274.41
312.31
353.91
401.91
                                                                                                                                * 5.58
457.61
                                                                                                                                  # 5.68
522.3/
597.81
                                                                                                                                    ¥ 5.75
                                                                                                                                    # 5.80
                                                           GRAMS
                                                                        3
                                                                                                                    5
                                                                                                                                         ò
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0004-SC
WATER TEMP.: 19
PHI TIME
PHI
                                 TIME
                                                  INTERVAL
                 EXPECT
                                 OBSERV
                                                  WEIGHT: GRANS
-1.00
-0.75
                 7.22
8.27
                                7.30
9.56
9.88
                                                0.00
                                                 0.00
 -0.50
                 9.54
                                                0.80
 -0.25
                 11.07
                                11.09
                                                 0.00
                12.94
15.24
                                13.34
15.26
  0.00
                                                0.52
  0.25
                                                0.04
  0.50
                18.08
                                18.45
                                                0.10
  0.75
                 21.63
                                21.64
                                                0.05
                26.12
31.85
39.25
                               26.14
31.91
39.54
49.21
  1.00
  1.25
                                                0.06
                                                0.05
  1.75
                49.93
                                                0.05
  2.00
2.25
                               62.01
79.25
                61.74
                                                0.06
                79.92
                                                0.41
  2.50
               102.23
                               102.32
                                                0.89
  2.75
               134.19
                               134.29
                                                1.19
```

120004-SA

lage 3 of 3

YAKIAMLE=

SKEWNESS= STD DEVIATION=

3.00

3.25

178.42

240.09

178.50

249.57

1.00

0.78

1.324/

3.50 326.51 327.02 0.55 3.75 448.08 449.63 0.33 4.00 619.49 619.55 0.15 TOTAL IMMERSED WEIGHT: 6.060606 CUM. TOT. WEIGHT: 7.0600 PERCENT WEIGHT ERROR: 16.4900

9.9999

WEIGHT ERROR)5%

KOOOY-SC Page Zef 3

```
04-01-2005
SAMPLE NUMBER: K0004-SC
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                             50%
                                                                                                                    100%
      07
PHI
-1.00 + 0.00
-0.75 ± 0.00
-0.50
                  ¥ 11.33
                  # 11.33
-0.25
                           ¥ 10.79
+0.00
+0.25
+0.50
                            # 19,55
                             ¥ 20.95
+0.75
                              ¥ 21.67
+1.00
                              ₹ 22.95
+1.50
                                £ 23.65
                                # 24,36
+1.75
                                  ¥ 25.21
+2.00
                                         € 31.02
+2.25
+2.50
                                                       ¥ 43.63
                                                                         # 60.48
+2.75
                                                                                          # 74.65
+3.00
                                                                                                     * 85.41
+3.25
                                                                                                              ¥ 93.20
+3.50
                                                                                                                   * 97.88
+3.75
                                                                                                                      #100.00
+4.00
       5.0000% =
PHI
                    -0.6397
      14.0000% =
PHI
                    -0.0915
                    1.9375
2.5945
      25.0000% = 50.0000% =
PHI
PHI
PHI
      75.0000% =
                     3.0082
                     3.2172
3.5962
PHI
      94.0000% =
PHI
      95.0000% =
            -0.5000 PHI
H00E=
                                11.3314 CUM WT%
                               18.6969 CUM WT%
20.9632 CUM WT%
22.9462 CUM WT%
            0.0000 PHI
MODE=
MODE=
             0.5000 PHI
MODE=
             1.2500 PHI
                                60.4916 CUM WTZ
             2.7500 PHI
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                         1.9067
                                   : MEDIUM SAND
: POORLY SORTED
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                          1.4690
INCL GRAPH SKEWNESS:
                         -0.5753
                                          : STRONGLY COARSE SKEWED
                                          : VERY LEPTOKURTIC
GRAPHIC KURTOSIS:
                          1.6214
WORMALIZED KURTOSIS:
                          0.6185
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
K0004-SC Page 3 of 3
  KURTOSIS=
                        2.6398
   5.71 ± 0.01
6.31 ± 0.01
   7.01 + 0.01
    7.41 + 0.01
   8.21 # 0.01
   9.91 # 0.81
   7.51 + 0.00
   19.21 * 9.00
  10.81 + 0.00
  12.11 * 0.01
  13.31 € 0.04
  14.61 * 0.01
  15.91 + 0.06
  17.21
         * 9.04
  18.51
         * 0.06
  20.41
         # 0.08
  22.31
         # 0.05
         # 0.06
         £ 0.08
  26.11
  28.71
          * 9.10
  31.31
          ž 8.11
  34.41
          # 9.12
  37.71
           # 0.15
  41.51
           # 0.16
  45.41
           # 0.16
  49.81
          * 0.13
  55.01
           * Ø.22
  60.71
            3 W.21
            # 0.23
  67.11
  74.11
                     ¥ 0.68
  81.81
                                        # 1.64
  90.91
                                                         * 2.57
 100.41
                                                                     # 3.20
 111.31
                                                                               * 3.73
124.11
138.21
                                                                                         £ 4,27
                                                                                                  # 4.73
                                                                                                        * 5.89
* 5.36
 154.21
 193.91
217.61
                                                                                                                 # 5.53
                                                                                                                    ₹ 5.72
₹ 5.77
 245.11
 275.41
 312.31
 353.91
                                                                                                                      * 5.93
 401.91
                                                                                                                      # 5.84
                                                                                                                      * 5.86
* 5.87
 457.6
522.31
597.81
                                                                                                                        ¥ 5.91
                                                     GRAMS
                                                                 3
                                                                                    4
                                                                                                       5
                                                                                                                          ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
84-01-2005
SAMPLE NUMBER: K0007-SC
WATER TEMP.: 19
PHI
              TIME
                             TIME
                                            INTERVAL
                              OBSERV
               EXPECT
                                            WEIGHT: GRANS
 -1.00
                7.22
                             7.63
                                           0.01
                8.27
 -0.75
                             8.87
                                           0.00
 -0.50
                9.54
                            10.16
                                           0.00
               11.07
 -0.25
                             11.42
                                           8.00
              12.94
15.24
  0.00
                            13.34
                                           0.04
                            15.26
                                           0.00
  0.50
                            18.45
              18.08
                                           0.03
                            21.64
  0.75
               21.63
                                          0.99
              26.12
31.85
  1.00
                            26.14
                                          0.03
  1.25
                             31.96
                                           0.04
  1.50
                            39.60
              39.25
                                           0.04
  1.75
              48.93
                            49.21
                                           8.99
                            62.01
79.25
  2.00
              61.74
                                           0.08
  2.25
              78.92
                                           1.09
  2.50
2.75
                                           2.01
1.32
0.79
              102.23
                           102.32
                           134.34
              134.19
  3.00
              178.42
  3.25
3.50
                           240.62
327.02
                                           0.30
              240.09
              326.51
                           449.48
  3.75
              448.08
                                           0.05
             619.49
                           619.61
  4.00
                                           0.08
TOTAL INMERSED WEIGHT:
                         6.00000
CUM. TOT. WEIGHT:
                     6.0100
```

1.8/34

-1.0360

1.3687

VARIANCE=

SKEWNESS=

STO DEVIATION=

PERCENT WEIGHT ERROR:

-0.8350

```
04-01-2005
SAMPLE NUMBER: K0007-SC
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                50%
       0%
PHI
-1.88 + 9.17
-0.75 * 0.17
-0.50 * 0.17
-0.25 * 0.17
+9.60
       # 0.83
+0.25
+0.50
        * 1.33
+0.75
       € 1.33
        * 1.83
* 2.50
* 3.16
* 3.16
+1.00
+1.25
+1.50
+1.75
           * 4.49
+2.00
+2.25
+2.50
+2.75
                                  * 22.63
                                                                         * 56.07
                                                                                                  # 78.04
                                                                                                                  * 91.19
+3.00
                                                                                                                       * 96.17
* 97.84
+3,25
+3.50
                                                                                                                           # 98.67
+3.75
                                                                                                                            #100.00
+4.00
PHI
        5.0000% =
                       2.0070
PHI
       15.0000% =
                       2.1586
                       2.2677
2.4546
PHI
       25.0000% =
       50.0000% =
PHI
                       2.7154
2.8634
PHI
       75.0000% =
PHI
       84.0000% =
PHI
      95.0000% =
MODE=
             -1.0000 PHI
                                   9.1664 CUH WT%
             -0.5000 PHI
                                   0.1664 CUM WT%
MODE=
MODE=
              0.0000 PHI
                                   0.8319 CUN WT%
                                   1.3311 CUM WT%
MAOF=
             0.5000 PHI
                                   2.4959 CUM WTZ
              1.2500 PHI
#00E=
H00E=
              2.5000 PHI
                                  56.0732 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                      : FINE SAND
GRAPHIC MEAN:
                            2.4922
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                            0.3556
                                             : WELL SORTED
                            0.2021
                                             : FINE SKEWED
GRAPHIC KURTOSIS:
                            1.0841
                                                 MESOKURTIC
NORMALIZED KURTOSIS:
                            0.5202
EDITORING ARE PARAMETERS BY THE HETHOR OF HOHENTS:
```

```
120009-SC Page 3of3
 STD DEVIATION=
                         0.4995
 KURTOSIS=
                        13,4470
                                        40002-5B page (of 3
          * 0.08
   5.71
   5,41
          * 9.98
   7.71
          * 0.07
   9.31
          * 0.07
   9.91
          € 0.07
   9.61
         # 0.08
  10.21
10.91
          £ 0.08
          * 0.13
  12.11
             € 0.21
  13.41
              # 0.22
  14.71
              # 0.27
  16.01
                  # 0.45
  17.21
                     * 0.61
  19.5
                       # 8.49
  20.41
                          * 0.83
  22.41
                           # 0.99
  24.31
                            # 0.93
  26.21
                            # 8.93
  28.81
                            # Ø.97
  31.31
                             * 1.02
 34.51
                              * 1.08
                               # 1.07
 41.61
                               # 1.10
 45.41
49.91
                                * 1,15
                                # 1.18
  55.91
                                   ¥ 1.27
 60.71
                                      £ 1.46
                                               8
.73
* 1.94
* 2.12
* 2.31
* 2.54
* 2.82
* 3.86
* 3.33
* 3.62
* 3.88
* 4.13
* 4.35
* 4.38
* 4.38
* 4.38
* 4.38
 67.21
                                          * 1.60
 74.21
81.91
                                            ¥ 1.73
 99.81
180.41
111.31
124.15
154.21
172.81
173.91
217.61
245.11
276.51
312.41
                                                                                                            * 4.79
353.91
                                                                                                               # 4.97
                                                                                                                   # 5,13
407.0
457.71
                                                                                                                      ÷ 5.27
÷ 5.37
522.31
597.91
                                                                                                                         # 5.43
                                                         GRAMS
                                                                                                                Ţ.
                                                                                                                                     ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0002-95
WATER TEMP.: 19
PHI
                TIME
                                TIME
                                                INTERVAL
                                OBSERV
                EXPECT
                                                WEIGHT: GRAMS
                 7.22
8.27
 -1.00
                                7.68
                                               0.07
-0.75
                                               0.00
                                8.29
                               9.55
11.47
 -0.50
                 9.54
                                               0.01
                11.07
 -0.25
                                               9.11
 0.00
                12.94
                               13.40
                                               0.03
 8.25 0.50
                15,24
                               15.32
                                               0.12
                               18.50
                                               0.35
  0.75
                21.63
                               21.75
                                               8.18
  1.00
                26.12
31.85
                               26.19
32.02
                                               0.06
                                               0.09
  1.50
                39.25
                               39.45
                                               0.06
                              49.21
62.01
79.31
  1.75
               49.93
                                               8.89
                                              0.33
0.39
  2.25
2.50
                78.92
                             102.38
              102.23
                                               0.46
               134.19
                              134.40
                                               8.63
```

MEAN X=

3.00

3.25

3.50

178.42

248.89

326.51

178.56

240.62

327.08

0.72

0.61

0.55

VARIANCE=

SKEWNESS=

2.5982

0.2495

-1.7006

K0002-SB pay Zof 3

0.20

```
94-81-2005
SAMPLE NUMBER: K0002-68
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.00
       # 1.28
-0.75
       # 1,28
       * 1.47
* 3,49
* 4.64
-0.50
-0.25
+0.00
+0.25
+0.50
+0.75
             € 6.24
                     * 12.66
                        # 15.96
                          * 17.86

* 18.72

* 19.82

* 21.47

* 27.52

* 34.68
                          # 17.06
+1.00
+1.25
+1.50
+1.75
+2.88
+2.25
+2.50
                                                       ¥ 43.12
+2.75
                                                                     * 54.68
                                                                                    ¥ 47.89
                                                                                                * 79.88
+3.25
                                                                                                            * 89.17
+3.50
+3.75
                                                                                                                    € 96.33
+4.66
                                                                                                                        #199.00
PHI
       5.0000% =
                      0.1094
PHI
      16.0000% =
                     0.7583
                      1.8958
      25.0000% =
PHI
                       2.6488
PHI
       50.0000% =
       75.0000% =
                      3.1588
PHI
PHI
       34.0000% =
                       3.3718
      95.0000% =
                      3.7035
PHI
            -1.0000 PHI
                                  1.2844 CUM WT%
MODE=
            -0.2500 PHI
0.5000 PHI
                                 3.4862 CUM WT%
12.6606 CUM WT%
MODE=
MODE=
             1.2500 PHI
MODE=
                                18.7156 CUM WT%
                                 67.8899 CUM WT%
MODE=
             3.0000 PHI
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                  2,2597
                                      : FINE SAND
GRAPHIC MEAN:
                          1.1979
INCL GRAPH STD DEV:
                                            : POORLY SORTED
                                            : STRONGLY COARSE SKEWED
INCL GRAPH SKEWNESS:
                         -9.4299
```

```
K0002-SB Page 363
 FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                        2.4601
1.3178
 VARIANCE=
  SKEWNESS=
                       -1.0284
 STD DEVIATION=
                        1.1479
 KURTOSIS=
   5.61 # 0.01
                                               K0008-SA
                                                                           Page (of 3
   6.31 ¥ 0.02
   4.91 * 0.02
7.51 * 0.02
   8.21 * 0.02
   9.81 * 9.02
   9.41 # 0.02
  10.11 * 0.01
  10.81 # 0.01
  12.01 ± 0.02
13.31 ± 0.02
  14.4: # 9.05
         # 0.10
  15.81
  17.11
           * 0.19
  18,41
            ₹ 0.21
  20.31
               * 9.31
  22.21
               # 0.36
  24.21
                 ₹ 0.47
  26.11
                  * 8.49
  28.71
                  * Ø.56
  31.21
                   # 0.54
  34.41
                   * 8.55
  37.61
                   € 0.54
  41.51
                   * 8.53
  45.31
                  * 0.52
  49.81
                   * 0.59
  54.91
                   # 0.57
                        £ 8.85
  60.61
 67.11
                              # 1.14
  74.11
                                   ¥ 1.38
 B1.8¦
                                              # 1.76
 90.74
                                                        ± 2.50
                                                                                    * 4.00
* 4.75
* 5.94
* 5.42
* 5.42
* 5.52
100.31
                                                                  # 3.02
 111.2
                                                                             * 3.53
124.01
139.11
154.11
172.71
193.81
217.51
245.01
276.4
312.31
353.81
                                                                                                                       # 5.72
# 5.76
# 5.79
401.91
457.51
522.21
                                                                                                                         # 5.81
597.81
                                                                                                                         £ 5.82
                                                     GRAMS
                                                                                                                            6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0008-SA
WATER TEMP.: 19
PHI TIME
                              TIME
                                             INTERVAL
               EXPECT
                             OBSERV
                                             WEIGHT: GRAMS
-1.00
               7.22
9.27
                             7.52
                                            0.02
-0.75
                              9.94
-0.50
               9.54
                             10.10
                                            0.00
 -0.25
               11.07
                             11.36
                                            0.00
                            13.29
15.21
 0.00
              12.94
                                           0.01
  0.25
              15.24
                                            0.05
 0.50
              18.08
                            18.40
                                           0.14
                            22.24
26.74
              21.63
                                            0.15
 1.00
              26.12
  1.25
              31.85
                            31.95
                                            9.05
 1.50
              39.25
48.93
                            39.54
                                           0.00
                            49.15
                                            0.03
 2.00
2.25
2.50
                            61.95
              61.74
                                           0.35
              78.92
                                           0.81
             102.23
                           102.27
                                           1.39
 2.75
             134.19
                           134.29
 3.00
             178.42
                           178.45
                                           0.82
 3.25
                           240.57
             240.09
                                           8.40
 3.50
             326.51
                           326.97
                                           0.10
 3.75
                           449.57
```

NURMALIZED KURTUSIS:

449.00

A19.49

419.50

4.00

0.09

W. 5384

TOTAL IMMERSED WEIGHT: 6.000000 CUM. TOT. WEIGHT: 5.8300 PERCENT WEIGHT ERROR: -3.8050

10008-SA page 2 of 3

```
04-01-2005
SAMPLE NUMBER: K0008-SA
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.00 # 0.34
-0.75 * 0.34
-0.50 * 0.34
-0.25 + 0.34
+0.00 # 0.51
+0.25 * 1.37
+0.50 * 3
           ¥ 3.77
             * 6.35
+0.75
+1.00
                # 9.43
                * 9.43
+1.50
+1.75
                        * 15.95
+2.00
+2.25
+2.50
+2.75
+3.00
                                         * 29.85
                                                                     * 53.69
                                                                                           ¥ 73.76
                                                                                                           * 87.82
+3.25
+3.50
+3.75
                                                                                                                   # 94.68
                                                                                                                       ¥ 99.31
+4.50
       5.0000% =
PHI
PHI
      16.0000% =
                     2.0009
PHI
      25.0000% =
                     2.1628
                     2.4613
2.7721
      50.0000% =
PHI
      75.0000% =
PHI
                     2.9321
3.2757
PHI
      84.0000% =
PHI
      95.0000% =
            -1.8800 PHI
                                  0.3431 CUM WT%
M00E=
            -0.5000 PHI
0.7500 PHI
                                 0.3431 CUM WTZ
6.3465 CUM WTZ
MODE=
MODE=
             2.5000 PH1
                                 53.6878 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                    : FINE SAND
                        2.4648
GRAPHIC MEAN:
                                           : MODERATELY WELL SORTED
: COARSE SKEWED
INCL GRAPH STD DEV:
                          0.6353
INCL GRAPH SKEWNESS:
                          -0.1879
GRAPHIC KURTOSIS:
                          1.7869
                                            : VERY LEPTOKURTIC
HODBALTIEN PHOTOETE
```

FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: 40008-SA garg 3253 MEAN X= 2.4910 VARIANCE= 0.5179 -1.4964 8.7196 SKEWNESS= STD DEVIATION= KURTOSIS= 6.2698 K0007-5B Mage 1 of 3 5.41 * 6.66 6.01 # 0.00 6.61 # 0.00 7.31 k-0.01 7.91 ±-0.01 8.61 #-0.01 9.21 *-0.01 9.81 #-0.01 10.5: 1-0.01 13.0; * 0.01 14.3; * 0.02 15.61 # 0.04 16.7! * 0.04 18.2! * 0.03 20.2; * 0.02 20.0; * 0.02 22.0; * 0.01 23.9; * 0.02 25.0; * 0.03 28.4; * 0.05 31.01 * 0.09 34.21 37.31 * 0.12 * 0.13 41.21 * 0.15 # 0.17 49.51 54.71 * 0.18 # 8.21 60.41 * 0.37 44.81 73.81 ¥ 0.75 * 1.48 91.51 # 1.96 70.51 # 2.50 109.11 # 3.84 111.01 # 3.59 123.86 137.91 153.91 * 4 10 # 4.53 # 4.89 172.41 193.61 217.21 £ 5.17 ₹ 5.37

GRAMS

3

4

¥ 5.52

* 5.61 * 5.66 * 5.71 * 5.78 * 5.79 * 5.80

6

UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 04-01-2005 SAMPLE NUMBER: K0007-SE

244.81 276.11 312.01 353.61

401.6: 457.3: 522.0: 597.5:

WATER TEMP.		TYME	THEFTHAL
PHI	TIME	TIME	
	EXPECT	OBSERV	
-1.00	7.22	7.30	0.00
-0.75	8.27	8.56	3,69
-0.50	8.27 9.54	9.83	0.00
-0.25	11.07	\$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}	8.01
0.00	12.94	13.01	0.01
8.25	15.24	15.59	0.03
0.50	18.68	18.18	0.00
0.75	21.63	21.97	0.00
1.04	26.12	26.47	0.03
1.25	31.85	32.24	8,84
1.50	39.25	39.27	9.05
1.75	48.93	49.54	0.03
	61.74	62.34	0.30
2.25	70.92	78.98	1.37
7 50	102.23		1.33
2.75	134.19		1.27
3.00	178.42	178.83	0.80
3.25	240.09	240.29	8.35
3.50	326.51	326.69	0.12
3.75	448.08	448.35	8.87
4.00	619.49	619.88	0.00
TOTAL IMMER			80 8 90 80
CUM. TOT. WE			
PERCENT WEI			
1 FUPFAL MET.	Dill Fillight	5:5000	

K0007-SB page 2

+3.80 +3.25 +3.50 +3.75 +3.80	page	363
PHI 5.0000% = 1.8096 PHI 16.0000% = 2.0753 PHI 25.0000% = 2.1711 PHI 50.0000% = 2.4427 PHI 75.0000% = 2.7269 PHI 84.0000% = 2.8772 PHI 95.0000% = 3.1775 MBDE= 0.2500 PHI 0.8576 CUM WT% MBDE= 1.2500 PHI 2.4014 CUM WT% MBDE= 2.2500 PHI 32.4185 CUM WT%		
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: INCL GRAPH STD DEV: INCL GRAPH SKEWNESS: INCL GRAPH SKEWNESS: INCL GRAPHIC KURTOSIS: INCRMALIZED KURTOSIS: INC		
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN X= 2.5656 VARIANCE= 0.2332 SKEWNESS= -1.2050 STD DEVIATION= 0.4829 KURTOSIS= 9.6530		

* 90.74 * 96.74 * 98.80 *100.00 *100.00

```
5.51 # 0.00
   5.21 + 0.01
   6.8: # 0.00
   7.51 4-0.01
   3.11 x-0.01
   8.7; #-0.0i
9.3; #-0.8i
  10.01 4-0.02
  19.51 *-8.81
  11.71
         # 0.05
          * 8.12
  14.41
           # 0.16
  15.71
17.81
            # 4.17
            £ 0.17
  18.31
             # 0.20
  20.21
             # 0,22
             * 9.23
  24.01
             # 0,24
  25.01
             * 0.27
  28.61
               * 0.31
  31.11
               * 0.33
  34.31
37.51
               # 0.36
                * 0.39
                # 0.40
  45.21
                 # 0.47
  49.71
                 * 0.43
                 # 0,45
  54.81
                  # 0.53
  60.51
                         # 0.85
  66.91
  74.01
                                         # 1.56
  91.7;
                                                       * 2.25
  98.61
                                                                   ¥ 2.78
 100.21
                                                                              # 3.31
                                                                                         # 3.82
 111.11
                                                                                                    # 4,34
                                                                                                            # 4.77
# 5.18
 123.91
 138.01
 154.01
 172.61
                                                                                                                         # 5.33
 193.71
                                                                                                                             * 5.49
 217.41
                                                                                                                              # 5.60
 244.91
                                                                                                                               * 5.68
                                                                                                                                * 5.73
* 5.78
 276.31
312.11
                                                                                                                                  + 5.81
 481.71
                                                                                                                                  * 5.83
 457.51
                                                                                                                                  # 5.86
                                                                                                                                   * 5.89
* 5.90
 522.14
597.61
                  1 2 GRANS 3 4
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE WUMBER: KOOOS-SE
WATER TEMP.: 21.5
PHI TIME
                                           INTERVAL
WEIGHT: GRAMS
0.00
                                TIME
                               OBSERV
                EXPECT
 -1.00
                 7.20
                                7.46
                                            0.00
0.00
0.01
                                8.67
 -0.75
                  8.24
 -0.50
                 9.50
                                9.99
                11.82
12.84
15.12
17.92
                               17.18
 -0.25
  0.00
  9.25
                                              0.05
                                            0.03
6.03
  0.50
                               18.29
  0.75
                21.49
                                21.47
                25.78
31.36
38.53
                               25.97
31.74
38.77
48.38
  1.00
                                             8.84
8.84
  1.25
  1.50
  1.75
                47.88
                                            0.10
1,42
1.29
0.80
                               60.52
77.17
98.97
  2.00
                60.19
  2.25
2.50
2.75
               76.63
98.84
              129.18
171.06
                              129.67
171.31
229.53
  3.00
                                              0.32
  3.25
               229.29
               310.77
                              310.87
  3.50
                                              0.14
               425.25
  3.75
                              425.45
                                               0.07
  4.00
               586.55
                             586.76
                                               0.05
TOTAL IMMERSED WEIGHT: 6.060606
CUN. TOT. WEIGHT: 5.9200
```

```
04-01-2005
SAMPLE NUMBER: K0008-50
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                       50%
       13 %
13 %
                                                                                                                                       100%
        PHI
-1.00 * 0.00
-0.75 * 0.00
-0.50 * 0.00
-0.25 * 0.51
+0.00
+0.25
+0.50
         # 2.36
# 3.21
           # 3.72
           * 4.22
+0.75
            * 4.98
* 5.91
* 6.93
* 7.60
* 9.29
+1.00
+1.75
+2.00
                                                   # 33.28
+2.25
+2.50
+2.75
                                                                                * 55.07
                                                                                                            ₽ 76.69
                                                                                                                             ¥ 98,20
+3.00
                                                                                                                                    ± 95.61

± 97.97

± 97.16
+3.25
+3.50
+3.75
+4.00
                                                                                                                                          *100.00
                        1.0250
2.0699
2.1637
PHI
        5.0000% =
PHI
        16.0000% =
        25.0000% =
PHI
                          2.4419 2.7305
        50.0000% =
PHI
PHI
        75.0000% =
                          2.8953
3.2219
PHI
        84.0000% =
       95.0000% =
PHI
                                     2.3649 CUN WT%
5.9122 CUM WT%
33.2770 CUM WT%
#00E=
               0.0000 PHI
               1.2500 PHI
2.2500 PHI
MODE=
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 2.4657 : FINE SANI INCL GRAPH STD DEV: 0.5367 : MODERATEL
                                          : FINE SAND
INCL GRAPH STD DEV:
                                                 : MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                              -0.1011
1.5887
                                                 : COARSE SKEWED
: VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                               9.6137
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
VARIANCE= 8.4360

SKEWNESS= -1.7950

STD DEVIATION= 8.6603

KURTOSIS= 8.2754
```

K0008-SB page 3 of 3

```
K0002-SA page ( of 3
```

```
5.71 ± 0.07
6.31 ± 0.09
7.01 ± 0.09
7.61 ± 0.09
              # 0.09
               * 9.09
    8.71
8.91
               # 0.09
               * 0.09
    9.41
               # 0.09
    10.21
              * 0.10
   10.81
              # 0.13
   12.11
                 * 0.23
   13,31
                   # 0.33
                         * 0.53
   15.91
17.21
19.51
                            # 0.65
                                ₹ 0.77
                                  # 0.89
   20.41
                                    ¥ 9.94
   22.31
                                     # 1.02
                                      ¥ 1.06
   26.11
28.71
                                       * 1,11
                                         * 1.19
                                             .22
# 1.31
# 1.40
# 1.59
# 1.73
# 1.73
  31.31
34.51
37.71
                                          # 1.22
# 1.31
                                                       1.73
* 1.86
* 2.93
* 2.16
* 2.31
* 2.58
* 2.69
* 2.93
* 3.41
* 3.64
* 3.71
* 4.47
* 4.485
* 5.23
* 5.23
* 5.54
* 5.63
* 5.73
* 5.88
   41.51
  45.41
   49.81
  55.01
  69.71
  67.11
74.11
  81.81
  98.81
 100.41
111.37
124.11
138.21
154.21
172.71
193.91
217.61
245.11
 274.41
312.31
 353.91
401.91
457.61
522.31
597.81
SEC
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
94-81-2695
9
福
```

	M8ER: K0002-SA		
WATER TEN	P.: 21.5		
PHI	TIME	TIME	INTERVAL
	EXPECT	OBSERV	WEIGHT: GRAMS
-1.00	7.20	7.63	9.09
-0.75	9.24		
		8.23	0.00
-0.50	9.50	9.55	0.00
-0.25	11.07	11.47	V = 11
0.00	12.86	13.34	0.13
0.25	15.12	15.32	0.26
4.50	17.92	17.90	0.25
9.75	21.40	21.69	0.16
1.00	25.78	26.14	0.10
1.25	31.36		
		31.96	0.13
1.50	38.53	30.94	0.19
1.75	47.98	47.89	0.25
7.99	60.19	60.69	0.35
2.25	76.63	76.73	0.34
2.50	98.84	99.14	0.54
2.75	129.18	129.23	0.59
7.90	171_55A	171 47	
- 1 . effet	171.375	111 41	A 五人

```
229.29
310.77
   3.25
                                  229.75
                                                      0.68
                                  311.04
  3,50
                                                      0.47
                 425.25
586.55
   3.75
                                 425.61
586.93
                                                      0.35
  4.00
                                                      0.22
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 5.7900
PERCENT WEIGHT ERROR: -4.4
                               -4.4650
```

K0002-5A rage 2 of 3

```
04-01-2005
 SAMPLE NUMBER: K0802-SA
CUMULATIVE CURVE OF DATA WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       87.
                                                                                                                      100%
               PHI
        # 1.55
# 1.55
# 1.55
# 5.75
-1.00
-0.75
-0.50
-0.25
+0.00
+0.25
                  # 10.19
                          *.68

17.44

* 19.17

* 21.42

* 24.70

* 29.92

* 35.96

* 49.93
                       # 14.68
+0.50
t0.75
                          # 17.44
+1.00
+1.25
+1.50
+1.75
+2.25
+2.50
+2.75
+3.00
                                                              ± 50.26
                                                                           * 50.28
                                                                                        € 71.68
                                                                                                   # 92.84
+3.25
+3.50 +3.75
                                                                                                            £ 90.16
                                                                                                                   # 96.20
+4.00
                                                                                                                       £100.00
PHI
        5.0000% =
                     -8.9779
PHI
      16.0000% =
                     0.6194
       25.0000% =
                      1.5175
2.4931
3.8882
PHI
      50.0000% = 75.0000% =
PHI
PHI
                      3.3184
3.7884
PHI
      84.0000% =
PHI
       95.0000% =
            -1.0000 PHI
MODE=
                                 1.5544 CUM WT%
MODE=
             0.5000 PHI
                                14.6005 CUN WT%
MODE=
             2.0000 PHI
                                35.0604 CUM WT%
71.6753 CUM WT%
             3.0000 PHI
MODE=
```

```
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
0.4977

FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
FINE SAND
```

K0002-SA 8age 3 of 3

```
K0002-5c page ( of 3
```

9.50

11.82

12.86

10.10

11.36

13.29

0.01

0.04

0.09

-0.50

-0.25

0.00

FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:

2.3074 1.4329 -0.7992

1.1970

2.7774

MEAN X=

VARIANCE= SKEWNESS=

STD DEVIATION= KURTOSIS=

```
5.41 + 0.06
   6.31 # 0.06
   5.91
7.51
         * 0.05
         # 0.05
   8.21 + 0.05
   8.81 # 8.87
   9.41
         £ 0.08
          * 6.68
  10.11
          # 0.10
  10,81
  12.01
            * 8.15
  13.34
             # 0.21
  14.51
                * 0.31
  15.81
17.11
                 # 0.42
                  * 8.45
  18.41
                    ₩ 0.57
  20.31
22.21
                      # 9.61
                        * 0.70
  24.21
                         * 0.75
                         # 0.79
  26.11
  28.51
                          # 0.84
  31.21
                           ¥ 0.88
  34.41
                            ¥ Ø.93
  37.61
                             € 0.96
  41.41
                             £ 1.00
  45.31
                               # 1.07
  49.81
                                 ± 1.15
  54.91
                                   * 1.26
  60.61
                                     # 1.39
  67.11
                                        # 1.48
                                                   * 2.10

* 2.30

* 2.57

* 3.32

* 3.54

* 3.77

* 4.85

* 4.33

* 4.87

* 5.06

* 5.26

* 5.42

* 5.42
  74.11
                                         * 1.57
                                            * 1.72
* 1.90
 81.81
  90.71
 100.31
 111.21
124.01
 138.14
154.11
 172.71
193.81
217.5
245.01
276.41
312.31
353.84
401.81
457.51
522.21
597.81
                                                                                                                                # 5.66
                                                           GRANS
                                                                                                                  5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
84-01-2005
SAMPLE NUMBER: K0002-SC
WATER TEMP.: 21.5
PHI TIME
                                TIME
                                                 INTERVAL
                                08SERV
7.52
                EXPECT
                                                 WEIGHT: GRAMS
 -1.00
                                                0.05
                 7.20
 -0.75
                 8.24
                                 9.84
                                                0.02
```

```
0.50
                    17.92
21.46
25.78
                                        18,48
                                                            0.20
                                        21.58
                                                            0.09
   1.00
                                                            0.13
                     31,36
   1.25
                                        31.95
                                                            9.10
                     38.53
47.88
                                        30.88
   1.50
                                                            0.09
   1.75
                                        49.49
                                                            0.15
   2.00
                    60.19
                                       60.63
                                                            0.25
                                      74.67
99.08
129.78
171.42
                   75.53
98.84
129.10
                                                            9,23
   2.50
2.75
                                                            8.47
                                                            0.58
   3.00
                   171.06
                                                            0.64
   3.25
3.50
                   229.29
310.77
                                      229.64
310.93
                                                            0.60
                                                            0.68
   3.75
                   425.25
                                      425.56
                                                            8.57
   4.00
                   584.55
                                      584.87
                                                            0.50
TOTAL IMMERSED WEIGHT: 6.868606
CUM. TOT. WEIGHT: 5.6500
PERCENT WEIGHT ERROR: -6.7750
WEIGHT ERROR )5%
```

Kocoz-sc page 2 of 3

```
04-01-2005
SAMPLE NUMBER: K0002-SC
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       0%
PHI
-1.00 ± 0.88
-0.75 ± 1.24
-0.50 * 1.42
-0.25 * 2.12
+0.00 * 3.72
+0.25
               * 6.55
+0.50
                  * 10.09
                    * 11.68
* 13.98
+0.75
+1.00
                        € 15.75
+1.25
+1.50
+1.75
                          * 17.35
* 20.00
+2.00
                                   # 24.42
+2.25
                                        * 28.5@
                                                  * 36.81
+2.75
+3.86
+3.25
                                                              # 47.08
                                                                           * 59.41
                                                                                        # 69.03
+3,50
+3,75
+4,00
                                                                                                     * 91.05
                                                                                                                 * 91.15
                                                                                                                            *100.00
PHI
       5.0000% = 0.1133
PHI 15.0000% = 1.2989
```

20.0000% = 7.0000 PHI 50.0000% = 2.8145 PHI 75.0000% = PHI 84.0000% = PHI 95.0000% = 3.3741 3.5728 3.8587 -1.0000 PHI #0DE= 0.9950 CUM WT% M00E= 0.5000 PHI 10.0885 CUM WT% 13.9823 CUM WT% HODE= 1,0000 PHI 24.4248 CUM WT% 58.4071 CUM WT% MODE= 2.0000 PHI 3.0000 PHI MODE= MODE= 3.5000 PHI 81.0619 CUM WTZ FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: 2.5587 1.1385 GRAPHIC MEAN: : FINE SAND INCL GRAPH STD DEV: : POORLY SORTED : STRONGLY COARSE SKEWED INCL GRAPH SKEWNESS: GRAPHIC KURTOSIS: -0.3891 1,1466 : LEPTOKURTIC NORMALIZED KURTOSIS: 0.5341

K0002-5c

FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:

MEAN X= VARIANCE= 2.6469 1.3224 SKEWNESS= -1.1118 STD_DEVIATION= 1.1500 KURTOSIS= 3.5449

586.55

TOTAL IMMERSED WEIGHT:

4.00

584.54

6.060606

0.02

```
5.31 * 0.06
5.91 * 0.05
          # 0.05
   0.61
   7.31
          * 0.05
   7.81
          # 0.05
          * 8.05
   9.21
          # 0.04
   9.81
          * 0.07
  19.41
           # 0.09
  11.71
            * 0.18
  13.81
             # 0.22
  14.31
             * 0.23
  15.51
             # 0.22
  16.81
              ¥ 0.24
  19.11
              + 0.30
  20.01
               * 0.34
  21.91
                 # 0.39
  23.91
                 # 8.41
  25.81
                  # 0.42
  28.31
                  # 8.43
  30.91
                  # 0,43
 34.11
                  * 0.44
                  # 0.44
  41.1
                  * 8.48
 45.01
                   * 0.48
  49.41
                   * 0.50
 54.51
                    # 0.56
                           # 0.81
  69.31
 66.71
                                   # 1.30
  73.83
                                                 # 1.98
 81.41
                                                             # 2.45
  90.41
                                                                         * 2.99
                                                                                    # 3,54
100.01
                                                                                               # 4.86
110.94
                                                                                                                 * 4.97

* 5.28

* 5.55

* 5.71

* 5.
123.71
                                                                                                         # 4.55
153.81
 172.41
193.51
217.21
                                                                                                                                      # 5.89
244.71
276.01
                                                                                                                                       $ 5.94
311.91
                                                                                                                                       £ 5.97
353.54
                                                                                                                                       * 6.90
# 6.02
457.31
521.91
                                                                                                                                         # 6.04
                                                                                                                                         # 6.04
597.54
                                                                                                                                         8 6.05
                                                           GRANS
                                                                                                                   5
                                                                                                                                        i
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0008-SC
WATER TEMP.: 21.5
PHI
                TIME
                                 TIME
                                                  INTERVAL.
                                09SERV
7.25
8.51
                 EXPECT
                                                  WEIGHT: GRAMS
 -1.00
                 7.20
                                                0.05
 -0.75
                 8.24
                                                8.86
                 9.50
11.02
 -0.50
                                9.77
                                                0.02
 -0.25
                                11.89
                                                8.87
                               12.96
15.54
  0.00
                12.86
                                                0.69
                15.12
  0.25
                                                6.00
  0.50
                               18.12
21.91
                                                0.08
  0.75
                 21.40
                                                0.09
  1.00
                25.78
                               25.76
                                                0.03
                               31.58
38.55
  1.25
                 31.36
                                                8.61
  1.50
                38.53
                                                0.03
  1.75
                47.88
                               48.16
                                                8.84
                              68.30
77.00
77.36
127.09
  2.00
                                                0.31
1.33
                60.19
  2.25
                76.63
  2.50
2.75
                                                1.37
                98.84
               129.19
171.06
  3.00
                              229.36
311.31
               229.29
310.77
  3.25
                                                0.32
  3.50
                                                0.12
  3.75
               425.25
                               425.23
                                                0.05
```

PERCENT WEIGHT ERROR: -0.1750

40008-SC 844 2063

```
04-01-2005
 SAMPLE NUMBER: K0009-SC
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
           PHI
 -1.00 ± 0.83
 -0.75
      # 0.83
-0.50 * 1.16
-0.25 * 2.31
        * 3.64
* 3.64
+0.00
+0.25
+0.50
           * 4.95
           * 6.45
           * 6.74
* 7.11
* 7.49
* 8.26
+1.00
+1.50
+2.00
                 * 13.39
+2.25
                                          # 35.37
                                                                 * 59.02
+2.75
+3.88
+3.25
                                                                                     # 78.35
                                                                                                   ¥ 91.40
                                                                                                        # 96.69
+3.50
                                                                                                           * 99.48
                                                                                                           € 99.67
十月、日经
                                                                                                            *100.00
      5.0000% =
16.0000% =
                  0.5049
2.0297
2.1320
PHI
PHI
PHI
      25.0000% =
                   2.4115
2.7088
2.8582
PHI
      50.0000% =
      75.0000% = 04.0000% =
PHI
PHI
                   3.1699
PHI
     95.0000% =
#00E=
           -1.0000 PHI
                              0.8264 CUM WT%
           0.0000 PHI
0.7500 PHI
MODE=
                              3.6364 CUM WT%
6.4463 CUM WT%
MODE=
H00E=
            2.5000 PHI
                             58.0165 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                   : FINE SAND
GRAPHIC MEAN:
                        2.4331
INCL GRAPH STD DEV:
                        0.6106
                                       : MODERATELY WELL SORTED
INCL BRAPH SKEHNESS:
                       -0.1760
                                       : COARSE SKEWED
                                       : VERY LEPTOKURTIC
GRAPHIC KURTOSIS:
                        1.8922
NORMALIZED KURTOSIS:
                        0.6542
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
10001-5A page 1083
   5.71 #-0.01
   6.41 #-0.01
7.01 #-0.01
7.61 # 0.00
   8.31 * 0.00
   8.71 # 0.00
   9.41 * 0.62
  10.21 # 0.02
  18.81 7 8.88
  12.11 * 0.00
13.41 * 0.03
  14.7! # 0.02
  15.91 1-0.81
  17.21
        #-0.05
 18.51
        £-0.03
 20.41 # 0.02
  22.41 # 0.04
  24,31
         + 0.46
          € 0.08
  26.21
 28.81
          * 0.10
 31.31
34.51
           * 6.12
           # 0.14
  37.71
            # 0.15
           * 0.16
 41.61
  45.41
 49.91
55.01
            # 0.18
             * 0.20
 60.71
             ₹ 0.23
 67.21
74.21
              # 0.27
               # 0.35
                       # 0.65
 91.91
 90.81
                                    # 1.26
100.41
                                                 * 1.89
                                                                                  * 3.48

* 3.95

* 4.16

* 4.41

* 4.63

* 4.83

* 5.81
111.31
                                                             # 2.45
                                                                         * 3.88
138.21
154.25
172.81
193.93
217.61
245.13
276.51
312.31
                                                                                                                        # 5.17
                                                                                                                           # 5,32
353.91
481.95
                                                                                                                             * 5.45
457.61
                                                                                                                               # 5.55
522.3;
597.9;
                                                                                                                                # 5.42
                                                                                                                                 ¥ 5,68
SEC
                                                           GRAMS
                                                                                              4
                                                                                                                   5
                                                                                                                                         6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0001-SA
WATER TEMP.: 21.5
PHI TIME
                                                  INTERVAL
PHI
                                 TIME
                 EXPECT
                                 OBSERV
                                                  WEIGHT: GRANS
 -1.00
-0.75
                 7.20
8.24
                                 7.63
8.29
                                                0.00
                                                 0.00
                                 9.55
 -0.50
                 9.50
                                                0.02
 -0.25
                 11.07
                                                 0.00
                                11.47
                                13.40
15.32
                12.86
  0.00
                                                0.84
                15.12
17.92
21.40
  0.25
                                                 0.00
  0.50
0.75
                                18.01
                                                0.00
                                21.69
                                                0.11
                25.78
31.36
38.53
                               26.19
31.96
38.99
  1.00
                                                0.02
  1.25
                                                0.04
                                                0.04
  1.75
                47.88
                                47.94
                                                0.02
                                60.74
  2.00
                60.19
                                                0.05
```

10008-56 pag 3083

VARIANCE=

SKEWNESS= STD DEVIATION= KURTOSIS=

2.25

76.63

76.79

0.29

0.5624

-2.1488 0.7500

9.2284

3.00	171.06	129.23 171.53 229.75	1.39 0.95 0.58
3.50	310.77 425.25 586.55	311.84 425.67	0.44 0.34 0.17
CUM. TOT.	HERSED WEIGHT: WEIGHT: 5 WEIGHT ERROR:	.7880	

K0001-5A page 2 of 3

```
04-01-2005
SAMPLE NUMBER: K0001-SA
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
          07
                                                                                             50%
           PHI
-1.80 * 0.80
-0.75 * 0.00
-0.50 * 0.35
-0.25 * 0.35
-0.25 * 0.35 

+0.96 * 1.64 

+0.25 * 1.04 

+0.56 * 1.04 

+0.56 * 2.94 

+1.60 * 3.29 

+1.25 * 3.98 

+1.56 * 4.67 

+1.75 * 5.62 

+2.06 * 5.88 

+2.56 * 9.34 

+7.56
+2.25
+2.50
+2.75
+3.25
+3.25
+3.75
+4.00
                                                                  ¥ 33.94
                                                                                                          # 57.09
                                                                                                                                                       # 83.56
# 91.18
                                                                                                                                       £ 73.53
                                                                                                                                                                             # 97.06
                                                                                                                                                                                   *199.06
PHI
           5.0000% =
                                1.7375
PHI
                                2.3202
2.4151
2.6763
          16.0000% =
          25.0000% = 50.0000% =
PHI
PHI
          75.0000% =
84.0000% =
PHI
                                 3.4366
                                 3.2643
3.6625
PHI
PHI
         95.0000% =
MODE=
                   -0.5000 PHI
                                                  0.3468 CUM WT%
                                                  1.0391 CUM WT%
2.9412 CUM WT%
3.9792 CUM WT%
MODE=
                    0.0000 PHI
                    0.7500 PHI
1.2500 PHI
MODE=
MODE=
                    2.7500 PHI
                                                 57.0934 CUN WT%
M00E=
```

FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: 2.7536 K0001-SA Rage 3 of 3 GRAPHIC MEAN: : FINE SAND INCL GRAPH STO DEV: 0.5277 : MODERATELY WELL SORTED INCL GRAPH SKEWNESS: 0.1352 : FINE SKEWED GRAPHIC KURTOSIS: 1.2694 LEPTOKURTIC NORMALIZED KURTOSIS: 9.5594 FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN X= 2.8140 0.4126 VARIANCE= SKEWNESS= -1.5148 STD DEVIATION= 0.6424 KURTOSIS= 9,4234 K0001-SC page lat 3 5.21 # 0.01 5.8: * 0.80 6.41 # 0.00 7.11 * 0.01 7.71 # 0.01 9.3/ # 0.01 9.01 # 0.02 9.71 # 0.03 10.31 + 0.07 11.51 # 0.15 # 0.19 ₹ 8.24 14.1 15.41 # 0.28 16.7 # 0.32 19.81 # 0.32 19.91 * 0.36 21.83 # 0.36 23.71 # 0.39 25.61 # 0.43 28.21 * 8.46 30.81 33.91 37.21 * 8.48 * 8.49 # 8.49 65 0.79 * 1.80 * 1.80 * 2.17 * 2.49 * 2.36 * 3.51 * 4.41 * 4.62 * 4.82 * 5.82 * 5.36 * 5.36 41.0 * 0.53 44.91 # 0.65 49.31 * 8.79 54,41 39.21 66.61 73.7 81.31 90.31 99.91 110.94 123.61 137.71 153.71 172.21 193.31 217.11 244.41 275.91 311.8 353.44 461.41 # 5.49 457.11 # 5.68 # 5.68 521.81 597.35 * 5.74 GRAMS 5 UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 04-01-2005 SAMPLE NUMBER: KOODI-SC

WATER TEMP.: 21.5
PHI TIME TIME INTERVAL
EXPECT OBSERV WEIGHT: GRAMS

	f & day for	7.6 1.7	W a 12.2
-0.75	8.24	8.34	8.80
-0.50	9.50	9.66	0.07
-0.25	11.62	11.53	0.12
8.86	12.86	12.85	0.04
0.25	15.12	15.37	0.09
0.50	17.92	17.96	0.04
0.75	21.40	21.88	8.84
1.00	25.78		
1.25		24.30	0.08
	31.36	31.41	0.04
1.50		39.10	0.02
1.75	47.98	48.05	₩.26
2.80	∆0.19	60.19	0.29
2.25	76.63	74.84	0.52
2.50	78.84	99.25	0.90
2.75	129.18	129.34	0.95
3.00	171.06	171.58	0.75
3.25	229,29	229.86	8.54
3.50	310.77	311.15	0.49
3.75	425,25	425.72	0.35
4.80	586.55	587.04	
			0.18
	ERSED WEIGHT:		
CUM. TOT.			
	EIGHT ERROR:	שבנף, כ-	
WEIGHT ERF	(UK)5%		

K0001-SC Page 22

```
*100.00
  PHI
          5.0000% =
                        0.2906
         16.0000% = 25.000% =
  PHI
                        1.8852
2.1839
  PHI
                                                                                                           KODDI-SC page 3 of 3
  PHI
         50.0000% =
                         2.6039
         75.0000% =
  PHI
                         3.0590
  PHI
                        3.3027
3.6739
         34.0000% =
  PHI 95.0000% =
               -1.0000 PHI
  #00E=
                                     0.1745 CUH WT%
              -0.2500 PHI
0.2500 PHI
  MODE=
                                     2.4178 CUM WT%
  MODE=
                                     4.8866 CUM WT%
                1.0000 PHI
  MODE=
                                    7.6789 CUM WT%
  MODE=
                2.7500 PHI
                                    59.4859 CUM WT%
  FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 2.5973 : FINE SAND
                                        : FINE SAND
  INCL GRAPH STD DEV:
INCL GRAPH SKEWWESS:
                            0.8670
-0.1908
                                              : MODERATELY SORTED
                                              : COARSE SKEWED
  GRAPHIC KURTOSIS:
                             1.5844
                                              : VERY LEPTOKURTIC
  NORMALIZED KURTOSIS:
                             0.6131
 FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                          2,4182
  VARIANCE=
                          0.8070
                        -1.3729
  SKEWNESS=
  STO DEVIATION=
                       0.8983
  KURTOSIS=
                          5.4339
     40001-5B page 1 of 3
   5.71 @ 0.00
6.41 * 0.00
   7.01 + 0.00
   7.61 + 0.00
8.31 + 0.00
   8.9; # 0.00
  7.41 + 6.09
10.21 + 6.09
  10.81 * 0.00
 12.01 × 0.00
12.11 × 0.66
13.31 × 0.64
14.71 × 0.68
15.71 × 0.68
17.21 × 0.66
  18,51
         # 0.88
  20.41
          * 0.11
          # 0.12
  22.41
  24.31
           # 8.16
            # 0.23
  26.21
            ¥ 0.21
  29.71
  31.31
            # 0.22
  34.51
             £ 0.24
 37.71
             # 0.25
             * 0.2á
  41.51
 45.41
             # 8.26
  49.91
             # 0.29
 55.01
60.71
             # 8.29
                9:36

• 9:45

• 9:45

• 1:04

• 1:35
              * 0.36
 67.11
 74.21
                                                     * 2.23

* 3.19

* 3.97

* 4.46

* 4.69

* 4.87

* 5.08

* 5.25

* 5.57

* 5.6
 81.91
 90.91
                                            # 1.79
100.41
111.31
124.11
138.24
154.21
172.81
193.91
217.61
745.1
276.51
312.41
353.91
401.91
457.61
```

+4.68

Youth

SEC	 E		er sec sec 140 ft c co	i		 Z	GRANG
UNIVER:	9177 OF 2005			SEDIMENT	AHALY		DRANG
SHAFER MATER PHI		1 K0001 21.5 TIME	-58	TIME		FRITCH	
-1.0750 -8.5250 -9.5250 -9.025	MHERGE T. WEI(50,750 11,02 12,40 11,02 12,80 15,12 17,92 21,40 25,78 31,36 38,53 47,89 76,63 98,84 129,18 171,06 229,29 340,75 425,25 55 0 WEIGH	5.7	085ERV 7.63 8.29 9.55 11.47 13.32 17.90 21.69 26.19 38.99 47.74 76.78 99.14 129.23 171.53 229.74 129.23 171.53 229.75 86.98		1446.000.000.000.000.000.000.000.000.000.	FAL F: GRAMS

K0001-5B

```
+1.75
+1.75
           # 4.90
+2.75
+2.75
+2.75
+3.25
+3.25
+3.75
             * 5.75
                        # 14.54
                                   ¥ 30.30
                                                               # 49.56
                                                                                   # 67.60
                                                                                                £ 90.04
                                                                                                           ¥ 88.97
+3.75
                                                                                                                  # 96.50
+4.00
                                                                                                                       #100.00
                     1.0187
PHI
       5.00007 =
PHI
                    2.2732
2.4160
2.7561
       15.0000% =
       25.0000% =
PHI
                                                                                                                     K0001-SB
Yazz 3 & 3
PHI
     50.0000% =
PHI
       75.0000% =
                    3.1488
                    3.3610
3.7003
PHI
       94.9999% =
     95.0000% =
PHI
M00E=
            0.0000 PHI
                                 0.7005 CUM HT%
             1.0000 PHI
1.7500 PHI
                                 4.0280 CUM WT%
4.9037 CUM WT%
MODE=
MODE=
                                49.5622 CUM WT%
MODE=
             2.7500 PHI
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                          2.7968
0.5570
GRAPHIC MEAN:
                                          : FIME SAND
INCL GRAPH STD DEV:
                                           : MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                          0.0579
1.0523
                                           : MEAR SYMMETRICAL
                                           : MESOKURTIC
NORMALIZED KURTOSIS:
                          0.5127
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                      2.8616
```

VARIANCE=

SKEWNESS=

KURTOSIS=

STD DEVIATION=

0.4355

-1.3038

0.6600

6.7134

4.00

580.22

INTAL INHERSED WEIGHT:

580.47

6.959A9A

0.02

```
5.21 ± 0.08
5.81 ± 0.0
            * 0.07
   6.51
            ¥ 0.10
            * 0.10
            * 0.11
    9.41
            # 0.11
   9-11
             # 0.15
  9.71
19.31
             5 6,19
              # W.21
               * 0.22
  11.61
  12.91
               # 0.24
               # 0.27
  15.41
               € 0.27
               £ 0.29
               * 0.29
* 0.36
  18.01
  19.91
  21.81
               # 0.30
  23.71
25.61
28.21
                * 0.32
* 0.33
                 * 8.36
  30.81
                 # 0.39
  34.01
                  # G.4J
  37.21
                   # 0,47
  41.61
                   # 0.55
                      * 0.63
  44.91
  49.41
                            £ 0.8;
                                       # 1.31
  60.31
                                                      ¥ 2.02
                                                                                                       * 4.20

* 4.55

* 4.72

* 5.23

* 5.52

* 5.73

* 5.87

* 5.97
  56.61
                                                                           £ 2.93
  73.7
                                                                                           # 3.66
 99.91
 116.8
123.81
137.71
153.71
193.41
217.11
                                                                                                                                                 7 6.86
244.61
275.91
                                                                                                                                                 * 6.09
311.81
                                                                                                                                                   # 6.14
353.41
                                                                                                                                                   £ 5.15
401.51
457.13
521.81
597.33
                                                                                                                                                   # 6.18
                                                                                                                                                   # 6.18
                                                                                                                                                   # 6.19
                                                              SRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 84-81-2005
SAMPLE NUMBER: K0006-SA
WATER TEMP.: 22
PHI
                 TIME
                                  TIME
                                                    INTERVAL
                 EXPECT
                                  OBSERV
                                                    WEIGHT: GRAMS
 -1.00
                                  7.74
                  7.19
                                                   0.11
                  9.24
9.49
 -0.75
                                  9.46
                                                   0.00
 -0.50
                                  9.66
                                                   0.08
 -0.25
                 11.01
                                 10.98
                                                   8.81
                                 12.85
15.43
17.96
  0.00
                 12.85
15.18
                                                  0.04
  0.25
                                                   0.03
                 17.88
  0.50
                                                  0.02
                 21.35
25.72
31.26
  0.75
                                 21.89
                                                  0.01
  1.00
                                 26.36
  1.25
                                 31.47
                                                  0.05
                 38.40
  1.50
                                 38.44
                                                  0.11
                                 48.05
60.25
  1.75
                 47.67
                                                   0.24
  2.00
                 59.89
                                                  1.28
  2.25
2.50
                76.19
98.19
                                 76.23
                                                   1.95
                                                  1.01
                                 98.64
                               128.74
169.71
227.28
               128.23
  3.00
3.25
               169.65
227.23
                                                  0.35
  3.50
               307.75
                                307.96
                                                  0.06
  3.75
                420.87
                                421.27
                                                  0.03
```

* 0.19 # 0.18

0.18

0.18 \$ Q.17

* 0.19 # 8.19

₩ 0.27 ₩ 0.23

0.23

* 0.23

0.25

0.31 * 0.33 * 0.34

0.35 # Ω R

9.4;

9.11

9.81 10.41

11.61 12.91 14.21

15.51

16.81

18.11

20.01

23.01 25.71

L0006-54 page 2 of 2

```
04-01-2005
 SAMPLE NUMBER: K0006-SA
CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                               100%
PHI
       # 1.78
# 1.78
-1.00
-0.75
-0.50
-0.25
         ¥ 3.07
          * 3.23
+0.00+0.25
          * 3.88
* 4.36
+0.50
           # 4.68
+0.75
           # 4.85
# 5.49
+1.00
           * 4.30
* 8.08
+1,25
+1.50
+1.75
                 * 11.95
+2.00
                                          # 32.63
+2.25
                                                                          * 62.52
+2.50 +2.75
                                                                                           * 78.84
                                                                                                       a 98.47
+3.00
                                                                                                             # 96.12
+3.25
                                                                                                               * 98.22
+3.50
                                                                                                                 # 99.68
+3.75
+4.00
                                                                                                                 #100.00
PHI
       5.0000% =
                   0.9094
                   1.7989
1.9077
2.1453
PHI
      16.0000% =
      25.0000% =
PHI
PHI
      50.0000% =
PHI
      75.0000% =
                    2.4412
      94.0008% =
95.0000% =
                    2.6110
2.9504
PHI
PHI
                                1.7771 CUM WY%
M00E=
           -1.8000 PHI
            -0.5000 PHI
                               3.0695 CUM WTZ
3.8772 CUM WTZ
MODE=
MODE=
            0.0000 PHI
                               62.5202 CUN MT%
            2.2500 PHI
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                                   : FINE SAND
                         2.1850
INCL GRAPH STD DEV:
                         8.5274
                                         : MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                        -0.0505
                                        : NEAR SYMMETRICAL
                                            VERY LEPTOKURTIC
                         1.6447
NORMALIZED KURTOSIS:
                         8.6219
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                     2.2072
VARIANCE=
                      0.5382
                     -2.2588
0.7336
SKEWNESS=
STO DEVIATION=
KURTOSIS=
                     10.5864
                                                     K0003-5B Page (of3
 5.71
6.51
7.21
         * 0.18
          ¥ 0.18
         # 0.18
```

```
38.91
34.01
37.21
                  * 0.38
                  # 0.39
                                                                                                       K0003-SB Page Zef3
                  # 0.40
                  £ 0.42
  41.11
 44.91
                   # 0,44
 49.41
                   £ Ø, 40
 54.51
                   + 0.49
 60.34
                    * 0.52
                           62

8.73

* 1.47

* 1.47

* 1.73

* 2.03

* 2.76

* 3.00

* 3.34

* 3.72

* 4.49

* 4.49

* 4.49

* 5.21

* 5.66

* 5.81
                    # 0.56
 óó.71
 73.81
                      # 0.62
 81.41
                        * 0.73
 90.41
160.01
116.91
123.71
137.91
153.81
172.31
193.41
217.11
244.71
276.01
311.91
353.51
401.51
457.21
521.81
597.41
                                                               GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE WUMBER: K0003-SB
WATER TEMP.: 22
PHI TIME
                                                    INTERVAL
PHI
                                   TIME
                  EXPECT
                                   OBSERV
                                                    WEIGHT: GRAMS
 -1.80
-0.75
                  7.19
8.24
                                   7.19
9.45
                                                   0.18
                                                   9.99
 -0.50
                  9.49
                                  9.77
                                                   0.01
                                 11.04
12.90
15.40
                 11.01 12.85
 -0.25
                                                   0.99
                                                   0.04
  0.00
                 15.10
17.88
21.35
25.72
31.26
  9.25
                                                   0.61
  0.50
6.75
                                                   0.02
                                 18.07
                                                   0.09
                                  21.91
                                 25.70
31.52
38.50
  1.00
                                                   8.02
  1.25
                                                   0.03
                                                   0.03
0.05
  1.50
                 38.40
                 47.67
  1.75
                                 49.11
  2.00
2.25
2.50
                 59.89
                                 60.30
                                                   0.06
                 76.19
98.19
                                 76.29
98.70
                                                   9.13
                                                   0.45
  2.75
                129.23
                                 128.80
                                                   8.75
                169.65
227.23
307.75
  3.00
3.25
                                169.77
227.39
                                                   0.81
                                                   0.82
  3.50
                                308.02
                                                   8.97
                420.87
                                421.33
                                                   0.96
                580.22
                                589.72
  4.00
                                                   0.46
```

TOTAL IMMERSED WEIGHT: 6.060606

CUM. TOT. WEIGHT: PERCENT WEIGHT ERROR:

5.7800

-4.4300

K0003-5B Page 3cf 3

```
04-01-2005
SAMPLE NUMBER: K0003-SB
CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                           50%
PHI
          # 3.11
# 3.11
# 3.29
-1.00
-0.75
-0.50
-0.25
          * 3.29
           * 3.98
+0.00
+0.25
           # 4.15
+0.50
           # 4.50
+0.75
            * 5.88
+1.00
            € 6.23
+1.25
             # 5.75
+1.50
              # 7.27
+1.75
               * 9.13
               # 9.17
+2.00
+2.25
                  × 11.42
                          £ 19.20
+2.50
+2.75
                                        # 32.18
+3.00
                                                       # 46.19
                                                                      # 60.38
+3.25
                                                                                        # 77.16
+3.50
+3.75
                                                                                                        ¥ 92.84
+4.00
                                                                                                                *100.08
941
       5.0000% =
                     0.5906
PHI
      16.0000% =
                     2.3971
PHI
      25.0000% =
                     2.6117
      50.0000% =
                     3.0671
PHI
PHI
      75.0000% =
                     3.4678
                     3.4149
3.8429
      84.0000% =
PHI
PHI
      95.0000% =
=300M
           -1.0000 PHI
                                3.1142 CUM WT%
#ODE=
            -0.5000 PHI
                                3.2872 CUM WT%
                                3.9792 CUM WT%
5.8824 CUM WT%
MODE=
            0.0000 PHI
             0.7500 PHI
MODE=
            1.2500 PHI
MODE=
                                6.7474 CUM WT%
             3.5000 PHI
                               77.1626 CUM WT%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                         3.0264
                                    : VERY FINE SAND
                        0.7972
-9.3116
                                        : MODERATELY SORTED
: STRONGLY COARSE SKEWED
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                         1.5569
                                            VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                         0.6009
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                      2.9814
MEAN X=
VARIANCE=
                      1.0058
                     -2.3989
SKEWNESS=
STD DEVIATION=
                     1.0029
KURTOSIS=
                      9,4029
                                                                       K0005-5B page 1083
  5.21
     4-0.19
      4-0,09
 6.81
      *-0.09
      4-0.07
 8.11
      K-0.06
 8.51
      4-0.05
```

9.41

9.81

H-0.05

*-0.04 10.6! #-0.01

```
12.91
        # 0.05
 14.11
         * 9.12
                                           10005-5B rage 2 of 3
          # 0.09
          * 9.12
 16.61
          € 0.12
 18.01
 19.91
21.81
           # 0.14
           # 0.15
 23.71
           # 0.17
 25.61
           # 0.18
 28.21
           # 9.28
 30,81
            ÷ 0.22
 33.91
37.11
            £ 0.25
            # ∅.28
 41.01
             * 0.38
             € 0.32
 44.81
 49.31
              * 0.35
 54.41
               # 0.42
 60.21
                3 0.4d
 65.51
73.71
                  # 0.58
                       * 8.79
                             ;
* 1.18
* 1.48
* 1.83
 81.31
 90.31
 99.91
                                                     # 2.27
                                                                       * 3.21

* 3.62

* 3.99

* 4.32

* 4.90

* 5.19

* 5.19
110.81
                                                               # 2.75
123.61
137.61
172.21
193.31
217.11
244.51
275.91
                                                                                                                   # 5.33
311.81
353.41
                                                                                                                        * 5.59
* 5.67
401.41
457.11
521.71
                                                                                                                          ₹ 5.71
₹ 5.73
597.31
                                                2 GRANS 3
       Ø
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0005-SB
WATER TEMP.: 22
               TIME
                              TIME
                                              INTERVAL
PHI
                               OBSERV
                                              WEIGHT: GRANS
               EXPECT
                               7.19
 -1.00
                7.19
                                             0.00
-0.75
                8.24
                               9.51
                                             0.02
-0.50
               9.49
                              9.77
                                             0.01
                                             0.05
 -0.25
 0.00
               12.85
                              12.85
                                             0.04
                             15.37
17.94
21.98
               15.10
17.88
                                             9.04
  ₹.25
                                             0.03
  0.50
  0.75
               21.35
                                             0.03
               25.72
31.26
                                             0.04
  1.00
                              26.30
  1.25
                              31.41
                                             0.03
  1,50
               38.40
                             38.44
                                             0.07
                                             0.06
                              48.00
  1.75
               47.67
  2.00
2.25
               59.89
                             60.19
                                             0.11
               76.19
                              76.18
                                             0.42
  2.50
2.75
3.00
3.25
                             98.59
               98.19
                                             0.91
              129.23
                             129.69
                                             1.13
                                             1.02
              169.65
                            169.66
              227.23
                             227.28
                                             0.79
  3.50
3.75
              307.75
                            307.96
                                            0.58
              420.97
                             421.22
                                             8.31
  4.00
              580.22
                            580.61
                                             0.11
TOTAL IMMERSED WEIGHT: 5.060606
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR:
                       5.8000
                           -4.3000
```

```
04-01-2005
SAMPLE NUMBER: K0005-SB
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.00 * 0.00
-0.75 * 0.34
-0.50 * 0.52
-0.25 # 1.38
+0.00
        # 2.07
# 2.76
+0.25
+0.50
          * 3.28
+0.75
          * 3.79
          # 4,48
+1.80
+1.25
           # 5.00
             * 6.21
+1.58
+1.75
             # 7.24
+2.00
                4 9.14
                        # 16.38
+2.25
+2.50
+2.75
                                          # 32.07
                                                               £ 51.55
                                                                                  2 69.14
+3.00
+3.25
+3.50
                                                                                                 # 82.76
                                                                                                            ¥ 92.76
                                                                                                                 € 98.10
+3.75
                                                                                                                   ¥100.00
+4.00
PHI
       5.0000% =
                    1.2500
                     2.2369
2.3874
PHI
       16.0000% =
PHI
       25.0000% =
      50.0000% =
                      2.7301
PHI
      75.0000% =
PHI
                     3.1076
                    3.2810
PHI
      94.9090% =
                     3.6048
PHI
      95.0000% =
            -0.7500 PHI
                                0.3448 CUM MT%
=3@8#
           -0.2500 PHI
0.2500 PHI
                                1.3793 CUM WTZ
2.7586 CUM WTZ
MODE=
MODE=
MODE=
            1.0000 PHI
                                4.4828 CUM WT%
             1.5000 PHI
                                 5.2059 CUM WT%
MODE=
                               51.5517 CUM WT%
MODE=
             2.7500 PHI
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                    : FINE SAND
GRAPHIC MEAN:
                         2.7493
INCL GRAPH STD DEV:
                          0.6178
                                         : MODERATELY WELL SORTED
: COARSE SKEWED
INCL GRAPH SKEWNESS:
                         -0.1009
                          1.3400
GRAPHIC KURTOSIS:
                                          : LEPTOKURTIC
NORMALIZED KURTOSIS:
                         0.5726
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                      2.7776
0.5543
MEAN X=
VARIANCE=
SKEWNESS=
                     -1.8715
STD DEVIATION=
                      0.7512
KURTOSIS=
                      8.3357
  5.4:
```

```
ž-0.09
 6.41
   #-0.09
 6.81
    #-0.08
 7.51
    ¥-0.07
 9.11
    *-0.05
 9.81
    *-0.03
 9.51 * 0.06
10.21
      # Ø.10
10.61 * 0.08
11.91
       * 0.16
13.11
         # 0.21
            s 0 31
```

K0005-5A page (of 3

```
15.71
                * 8.31
  17.01
                 # 0.39
  18.21
                  # 0.43
                                                                                       K0005-5A page 2 of 3
  20.11
                  # 0.47
  22.11
                   # 0.50
  24.01
25.91
                   # 0.52
                    * 0.53
  28.51
                    ¥ Ø.55
  31.11
                    ¥ 0,56
  34.31
                    # 0.57
  37.51
                    # 0.58
                    ₹ 0.58
  41.31
  45.11
                     * 0.59
 49.61
                     * 0.60
 54.81
                     # 0.42
 60.51
                      # 0.64
                      # 8.65
 73.91
                       * 0.70
 91.5
                          £ 8.83
                                 1.15
 90,61
100.24
                                           ¥ 1.47
                                                     # 2.14
1 1 1 1 1
                                                                               * 3.45

* 3.47

* 4.46

* 4.73

* 4.76

* 5.16

* 5.16
                                                             * 2.57
 123.91
138.01
                                                                        £ 3.03
153.91
172.51
193.71
217.31
244.91
276.2
312.1/
353.71
                                                                                                                          * 5.42
* 5.48
401.71
457.41
522.14
597.81
                                                                                                                            * 5.54
                                                                                                                             ₹ 5.57
                                                          GRAMS
                                                                       3
                                                                                            \frac{j\xi}{2}
                                                                                                                 5
                                                                                                                                     6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0005-SA
WATER TEMP.: 22
PHI
                TIME
                                TIME
                                                 INTERVAL
                                OBSERV
                EXPECT
                                                 WEIGHT: GRAMS
                7.19
 -1.00
                                7.46
                                                0.00
 -0.75
-0.50
                                9.79
                                                9.94
                                               0.09
 -9.25
                               11.28
                                                0.06
                12.85
15.18
17.88
  0.00
                               13,12
                                               0.09
  9.25
                               15.10
                                                0.10
  0.50
                               18.23
                                               0.12
                21.35
25.72
31.26
  9.75
                               21.47
                                                9.96
                               25,92
31,74
                                               0.04
  1.00
  1.25
                                               0.04
                               38.72
47.67
  1.50
                38.40
                                               0.01
  1.75
                47.47
59.89
                                               9.02
                               60.47
                                               0.04
  2.25
2.50
2.75
                76.19
                               76.51
                                               8.09
                               98.26
               98.19
128.23
                                               0.83
                              128.35
                                               1.18
                              169.99
227.61
  3.00
               169.65
                                               1.05
  3.25
3.50
               227.23
307.75
                                               0.00
                              308.24
                                               0.55
  3.75
               420.87
                              428.94
                                               0.32
  4.00
              580.22
                              588.34
                                               0.11
TOTAL IMMERSED WEIGHT:
                           6.060606
CUM. TOT. HEIGHT:
                         5.6300
PERCENT WEIGHT ERROR:
                             -7.1050
```

WEIGHT ERROR >5%

```
04-01-2005
 SAMPLE NUMBER: K0005-SA
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                          50%
                                                                                                             190%
PHI
-1.00 # 0.00
-0.75 # 0.71
-8.59
       ¥ 2.31
-0.25
         ¥ 3.37
 +0,00
           * 4.97
+0.25
             ¥ 6.75
 +0.50
                £ 9.95
+0.75
                 # 10.46
+1.00
+1.25
                 # 11.37
+1.50
                  * 11.55
+1.75
                  * 11.90
                  £ 12.61
+2.00
+2.25
                    # 14.03
+2.59
+2.75
                                     * 28.77
                                                           £ 49.73
+3.88
                                                                              # 68.38
+3.25
+3.50
                                                                                             * B2.59
                                                                                                      # 92.36
+3.75
                                                                                                             ₹ 98.05
+4.00
                                                                                                               *100.00
PHI
       5.0000% =
                   0.0037
PHI
                   2.2834
2.4360
      16.0000% =
PHI
      25.0000% =
PHI
      50.0000% =
                     2.7536
                    3.1164
PHI
      75.0000% =
                   3.2868
PHI
      94.0000% =
PHI
     95.0000% =
                     3.6160
₩0₽E=
           -0.5000 PHI
                               2.3091 CUM WTZ
HODE=
            0.5000 PHI
1.2500 PHI
                              0.8810 CUM WT%
11.3677 CUM WT%
MODE=
MODE=
            2.7500 PHI
                              49.7336 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                      2.7743
                                   : FINE SAND
INCL GRAPH STD DEV:
                         0.7990
                                        : MODERATELY SORTED
INCL GRAPH SKEWNESS:
                        -0.2302
                                        : COARSE SKEWED
GRAPHIC KURTOSIS:
                        2.1758
                                        : VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                         0.6851
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
           2.6776
0.9793
MEAN X=
VARIANCE=
SKEWNESS=
                    -1.8422
STD DEVIATION=
                    0.9996
KURTOSIS=
                     5.9945
```

```
5.51 2-8.02
 6.2( #-0.02
 6.81
    #-0.03
 7.61
    *-0.04
 8.21
    *-0.03
 8.91 *-0.02
 9.41 + 0.01
10.01 + 0.05
10.61 + 0.07
        * 0.14
11.91
13.21
        # 0.18
14.51
        £ 0.16
15.81
        * 0.19
17.01
          # Ø.21
18.31
         # ∅.22
20.21
         # 0.23
          F 0 24
```

K0004-5B page (cf3

```
24.01
              * 0.25
* 0.27
  26.01
                                                                                           K0004-5B Page 7 of 3
  29.61
               # 8.28
  31.11
               # 0.30
  34.31
               # 8.35
  37.51
                # 0.38
  1.31
                * 0.39
 45.21
49.71
                 * 0.41
                 # 0.43
 54.81
                 # 0.44
  69.61
                  # 0.47
 66.91
                  * 0.50
                      * 0.66
  74.91
 81.71
90.71
                              * 1.06
                                         * 1.55
                                                                               * 3.45

* 4.23

* 4.54

* 4.81

* 5.03

* 5.21

* 5.36

* 5.48

* 5.64

* 5.7
100.31
                                                  # 1.98
 111.21
                                                            # 2.46
124.01
                                                                       # 3.00
138.01
154.11
172.61
193.71
217.41
245.01
276.31
312.11
353.81
401.8;
457.51
                                                                                                                                * 5.71
* 5.77
* 5.81
522.11
597.71
SEC
                                                          GRANS
        100
                                                                                                                  5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0004-SB
WATER TEMP.: 22
                TIME
                                                 INTERVAL
PHI
                                TIME
                                OBSERV
                EXPECT
                                                 WEIGHT: GRANS
                 7.19
 -1.00
                                7.57
                                                0.00
-0.75
-0.50
                                8.23
                                               0.01
                 9.49
                                9.99
                                                0.08
                               11.31
 -0.25
                11.01
                                                0.05
                12.85
15.10
 0.00
                               13.18
                                               0.08
                                               8.01
0.03
  0.25
                               15.15
                17.88
  0.50
                               18.34
  0.75
                21.35
                               21.53
                                               0.82
  1.00
                25.72
31.26
                               25.97
31.80
                                               0.03
  1.25
                                               0.04
  1.50
                38.40
                               38.83
                                               0.08
                               47.78
  1.75
               47.67
59.89
                                               0.03
                                               0.05
 2.25
2.50
2.75
                76.19
                               76.56
                                               0.22
               98.19
                               98.37
                                               1.21
               129.23
                              129.41
  3.00
               169,65
                              170.04
                                               1.03
 3.25
3.50
3.75
              227.23
307.75
                              227.66
                                               0.72
                                               0.45
0.32
                              300.29
                              421.00
               420.87
 4.00
              580.22
                             580.39
                                               0.13
TOTAL IMMERSED WEIGHT: 6.060606
```

CUM. TOT. WEIGHT:

PERCENT WEIGHT ERROR:

5.8400

```
04-01-2005
 SAMPLE NUMBER: K0004-SB
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                    58%
      PHI
-1.08 x 0.00
-0.75 + 0.17
-0.50 + 1.54
       € 2.40
-0.25
        * 3.77
* 3.94
+0.00
+0.25
+0.50
         * 4.45
         # 4.79
+0.75
          $ 5.31
+1.80
+1.25
          £ 5.99
           * 7.36
* 7.88
+1.50
+1.75
+2.00
             ¥ 9.73
+2.25
                 # 12.50
+2.50
                                     * 33.22
+2.75
                                                          # 54.62
+3.00
                                                                                     * 84.59
* 92.29
*
                                                                          ¥ 72.26
+3.25
+3.50
+3.75
                                                                                                  * 97.77
+4.00
                                                                                                    #100.00
PHI
      5.0000% =
                 0.8500
                 2.2922
PHI
     16.0000% =
PHI
     25.0000% =
      50.0000% =
PHI
                   2.6968
                 3,9556
PHI
     75.0000% =
                 3.2381
PHI
     84.0000% =
PHI
     95.0000% =
                  3.6234
MODE=
          -0.5000 PHI
                            1.5411 CUM WT%
           0.0000 PHI
₩8DE=
                            3.7671 CUM WT%
MODE=
           0.5000 PHI
                            4.4521 CUM WT%
           1.5000 PHI
                            7.3630 CUM WT%
MODE=
MODE=
           2.7500 PHI
                           54.6233 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                   2.7421 : FINE SAND
INCL GRAPH STD DEV:
                      0.6567
                                    : MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
                     -0.0925
                                    : NEAR SYMMETRICAL
GRAPHIC KURTOSIS:
                     1.7361
                                    : VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                      0.6345
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
          2.7410
VARIANCE=
                   0.6563
SKEHNESS=
                  -2.0587
STD DEVIATION=
                  0.8101
KURTOSIS=
                   8.6949
                                          £0003-5A
                                                                     page (of 3
 5.21 + 0.05
5.91 + 0.05
 6.51 # 0.05
 7.11
7.71
      * 0.05
      € 0.06
 8.4:
      # 8.85
 9.11
9.71
      € 0.05
      # 9.96
 10.31
      * 0.05
11.51
      * 0.05
      # 0.08
 14.11
       * 8.11
15.41
16.71
       # 0.11
       # 0.12
18.01
       # 0.13
19.91
        * 0.15
```

21.81

23.71 95 A! # M.17

* 0.17

```
29.21
           * 8.18
 30.81
           * 0.19
            ¥ 8.20
 34.81
 37.21
            # 0.21
                                                                                   KOW3-SA PEGE Zof3
 41.61
            # 0.22
 44.91
            ₩ 0.23
 49.31
             * 0.24
 54.41
             # 0.26
 50.21
              # 0.27
             € 0.29
 66.61
73.71
              * 0.31
                   33

1.48

* 1.20

* 1.58

* 1.79

* 2.38

* 2.75

* 3.13

* 3.43

* 4.18

* 4.56

* 4.72

* 5.23

* 5.45

* 5.45
 81.34
              # 0.33
                ¥ 8.48
 90.31
 79.91
118.8;
123.61
137.71
153.71
172.23
193.41
217.11
244.61
275.91
311.81
353.41
401.41
457.14
521.81
                                                                                                                              ¥ 5.62
597.31
                                                                                             iş.
                                                                                                                  5
                                                          GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0003-SA
WATER TEMP.: 22
PHI TIME
                                TIME
                                                 INTERVAL
                EXPECT
7.19
                                 OBSERV
                                                 WEIGHT: GRAMS
                                7.74
                                                0.06
 -1.80
 -0.75
                 8.24
                                9.40
                                                0.68
                                                0.01
                                9.66
11.53
                 9.49
 -0.50
                11.01
 -9.25
  0.99
                12.85
                               12.85
                                                0.03
                               15.37
17.96
                                                8.63
                 15.16
  9.25
                17.88
21.35
  0.50
0.75
                                                9.02
                                                8.84
                                21.98
                                                0.01
  1.00
                25.72
                               26.39
                               31.41 38.44
                31.26
                                                9.81
  1.25
                                                0.02
  1.50
                38.40
  1.75
                47.67
                                48.05
                                                0.03
  2.80
2.25
2.50
                59.89
                               60.19
                                                0.03
                                                8.85
                 76.19
                                76.23
                98.19
                               98.64
                                                0.29
               128.23
                               129.74
                                                9.74
  2.75
               149.65
227.23
                              169.66
227.28
                                                9.98
  3.00
                                                9.93
  3.25
  3.50
               307.75
                              307.96
                                                0.88
                                                0.71
               428.87
                               421.27
                              580.67
                                                0.54
               590.22
  4.00
TOTAL IMMERSED WEIGHT: 6.060606
                          5.6100
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR:
WEIGHT ERROR >5%
```

-7.4350

```
94-91-2095
 SAMPLE NUMBER: K0003-SA
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                         50%
                                                                                                           199%
PHI
 -1.00 * 1.07
-0.75
-0.50
-0.25
       # 1.07
       ¥ 1.25
       # 1.25
        ± 1.78
± 2.32
 +0.00
+0.25
         * 2.67
         £ 3.39
+0.75
          ¥ 3.57
€ 3.74
 +1.00
+1.25
          # 4.10
           # 4.63
# 5.17
+1.75
+2.00
+2.25
            * 6.06
+2.50
+2.75
                 ± 11.23
                               ¥ 24.42
+3.00
                                                 # 41.89
+3.25
                                                                  * 58,47
+3.58
+3.75
                                                                                  # 74.15
                                                                                                  # 90.37
+4.00
                                                                                                             *100.00
PHI
       5.0000% =
                    1.9208
PHI
      16.0000% =
                    2.5904
PHI
      25.0000% =
                    2.7583
      50.0000% =
PHI
                     3.1223
                    3,5130
PHI
      75.0000% =
PHI
      94.0000% =
                    3.4518
PHI
                    3.8701
      95.0000% =
           -1.0000 PHI
                               1.0695 CUM WTZ
MODE=
           -0.5000 PHI
MODE=
                              1.2478 CUM WT%
MODE=
            0.2500 PHI
                               2.3173 CUM WT%
            0.7500 PHI
                              3.3868 CUM WTZ
MODE=
#0DE=
            3.0000 PHI
                              41.8895 CUM WT%
H00E=
            3.7500 PHI
                             90.3743 CUM WTZ
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                        3.1215
GRAPHIC MEAN:
                                      : VERY FINE SAND
INCL GRAPH STD DEV:
                        9.5607
                                           MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
                       -0.1175
                                          COARSE SKEWED
                                       n
GRAPHIC KURTOSIS:
                        1.0595
                                       : MESOKURTIC
NORMALIZED KURTOSIS:
                        0.5142
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                     3.1435
VARIANCE=
                     9.4169
SKEHNESS=
                    -2.6910
STD DEVIATION=
                     0.7954
KURTOSIS=
                    13.0908
                                                     K0006-56 page ( of 3
  5.71 * 0.81
 6.41 # 0.02
  7.01 * 0.02
 7.61
       * 0.04
```

9.31 # 9.96 8.91 # 0.07 9.61 * 9.11 10.21 € 0.10 10.91 * 0.13 12.11 ¥ 0.15 13.41 # 0.16 14.7 ₹ 0.16 16.01 * 0.14 # 0.16 19.51 * 0.13 20.41 # 0.16 22.41 # 0.18

```
¥ 0.22
  26.21
  28.81
             ₹ 0.27
              * 0.31
  31.31
                                                                                       K0006-56 Phy Z of 3
  34.51
              # 0.33
  37.71
              * 0.36
 41.61
               # 0.40
  45.41
                # 0.45
 49.91
                  € 0.58
                            £ 1.00
 60.71
                                        # 1.66
  67.21
                                                         # 2.48
 74.21
81.91
                                                                        # 3.28
                                                                                           * 4.36
* 4.79
* 5.89
* 5.35
* 5.
                                                                                   ¥ 3.88
 78.81
199.41
4 4 1 4 3 1
124.11
138.21
                                                                                                                     # 5.61
# 5.67
# 5.72
154.21
172.81
193.91
217.61
245.11
                                                                                                                        * 5.75
* 5.78
276.51
312.41
353.91
                                                                                                                        # 5.80
                                                                                                                         # 5.82
                                                                                                                         ₹ 5.84
₹ 5.85
402.01
457.71
522.31
                                                                                                                         * 5.89
* 5.90
597.91
                                                                                                                          # 5.91
          i 2 GRANS
                                                             3 4
                                                                                                         5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0006-SC
WATER TEMP.: 22
PHI
               TIME
                             TIME
                                             INTERVAL
               EXPECT
                            OBSERV
                                             WEIGHT: GRAMS
-1.00
-8.75
                7.19
8.24
                             7.63
                                            0.04
                                            0.02
               9.49
 -0.50
                             7.61
                                           0.05
 -0.25
                             11.53
                                           0.03
 0.00
               12.85
                             13.40
                                           0.02
  0.25
               15.10
                             15.32
                                           0.00
               17.88
21.35
                             17.90
  0.50
                                          0.00
                                           0.03
0.04
  0.75
                             21.75
               25.72
31.26
  1.00
                             26.19
                             31.30
  1.25
                                          8.87
               38.40
47.67
                            39.39
47.94
                                           0.05
  1.50
  1.75
                                            0.13
 2.00
2.25
2.50
              59.89
                            60.14
                                           1.09
               76.19
                            76.78
98.53
                                           1.92
              98.19
                                           1.22
  2.75
              128.23
                            128.63
                                           2.69
  3.00
             169.65
227.23
                            170.26
                                           0.26
  3.25
                            227.22
                                            0.09
 3.50
3.75
             307.75
                            307.91
                                           0.06
              420.87
                            421.15
                                           0.04
  4.00
             580.22
                            580.56
                                           0.05
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 5.9200
```

CUM. TOT. WEIGHT: PERCENT WEIGHT ERROR:

-2.3200

```
04-01-2005
 SAMPLE NUMBER: K0006-50
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                     50%
                                                                                                    100%
      PHI
-1.80 ± 0.69
-0.75 ± 1.01
-0.50 ± 1.90
       £ 1.85
       * 2.36
* 2.78
* 2.78
-0.25
+0.00
+0.50
        * 2.70
+0.75
        # 3.21
+1.00
         * 3.99
         * 5.41
+1.25
          ₹ 6.25
+1.50
+1.75
           * 8,45
+2.00
                                ¥ 26.85
+2.25
                                                              # 59.29
+2.50
+2.75
                                                                                   ± 79.98
                                                                                              # 91.55
                                                                                                  * 95.95
+3.00
+3.25
+3.50
                                                                                                   ¥ 97.47
                                                                                                    ¥ 99,49
+3.75
                                                                                                    * 99.16
+4.80
                                                                                                      £190.09
PHI
       5.0000% =
                 1,1833
                 1.9526
1.9748
2.1784
PHI
      16.0000% =
      25.0000% =
PHI
PHI
      50.0000% =
                 2.4496
PHI
     75.0000% =
                 2.5990
2.9462
PHI
     94.0000% =
PHI
     95.0000% =
          -1.0000 PHI
#00E=
                             0.6757 CUM WT%
MODE=
          -0.5000 PHI
                            1.8581 CUM WT%
HODE=
           1.2500 PHI
                            5.4054 CUM WT%
MODE=
           2.2500 PHI
                            59.2905 CUM WY%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                : FINE SAND
GRAPHIC MEAN:
                      2.2063
INCL GRAPH STD DEV:
                       0.4509
                                     : WELL SORTED
INCL GRAPH SKEWNESS:
                     -0.0075
                                    : NEAR SYMMETRICAL
GRAPHIC KURTOSIS:
                      1.5510
                                        VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                     0.6080
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                   2.2753
VARIANCE=
                   0.4115
SKEWNESS=
                  -2.1329
STO DEVIATION=
                  0.6415
KURTOSIS=
                  12.3296
 5.5: # 0.05
                                                     Koop5=5C page (at 3
 6.21 ± 0.06
6.81 ± 0.04
 7.51 # 0.03
 8.11 ± 0.02
8.71 ± 0.01
 9.41 * 0.82
10.11 + 0.06
 10.51
      £ 0.08
11774
       ₩ 0.12
       # 0.10
        # 0.12
 15.81
        * 8.11
17.01
        # 0.11
 18.31
        * 0.14
        # 0.17
20.31
```

22.21

24.11

26.01

8.19

0.20

÷ 0.23

```
31.11
             # 0.26
 34.31
37.51
             * 0.29
* 0.31
                                                                                                  K0005-SC 1982243
 41.31
              # 0.32
              * 0.33
 45.21
 49.71
              # 0.34
 54.81
               * 0.38
               # 0.40
 60.61
 67.01
                # 6.43
 74.01
                  * 0.53
                        * 9.95
 81.71
 90.71
                                  # 1.36
                                             * 1.89
100.31
                                                     # 2.3å
111.21
                                                               £ 2,85
124.61
                                                                                  * 3.75
# 4.13
* 4.45
* 4.74
* 5.88
                                                                         * 3.34
138.01
154.11
193.71
217.41
245.01
                                                                                                               * 5.21
* 5.38
276.31
312.11
                                                                                                                     * 5.52
* 5.65
353.81
481.81
                                                                                                                         * 5.71
* 5.76
457.51
522.11
597.71
                                                                                                                          # 5.80
                              SEC
       0
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0005-SC
WATER TEMP.: 22
PHI TIME
                              TIME
                                             INTERVAL
PHI
               EXPECT
                              OBSERV
                                             WEIGHT: GRANS
 -1.00
-0.75
                7.19
                              7,46
8,73
                                             0.03
                                             0.00
 -0.50
                9,49
                             10.05
                                             9.05
 -0.25
               11.01
                             11.31
13.23
                                             9.93
               12.85
12.85
17.89
21.35
25.72
35.72
                                             0.01
  0,00
  0.25
                             15.15
                                           0.01
                             18.34
21.53
                                           ed. Bi
  0.50
                                            0.05
  9.75
  1.00
                             26.03
                                           0.04
                                            0.03
  1.25
                              31.80
  1.50
               38.40
47.67
                             38.83
47.79
                                             0.05
                                             0.02
               59.89
                             59.92
                                           0.07
  2.00
  7.25
2.50
2.75
               76.19
98.19
                             74.54
98.37
                                           1.16
                                            8,23
                                            1.23
              128.23
                             129.41
              169.65
227.23
307.75
                            170.04
227.66
                                            1.06
  3.00
  3.25
3.50
                                             9.75
                             308.35
                                            0.52
                                             0.31
              420.87
                             421.00
  3.75
  4.00
              580.22
                            580.39
                                             6.12
TOTAL IMMERSED WEIGHT: 6.060606
CUM, TOT, WEIGHT: 5.8100
```

PERCENT WEIGHT ERROR: -4.135@

```
04-01-2005
 SAMPLE NUMBER: K0005-SC
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       PHI
-1.00 + 0.52
-0.75 + 0.52
-0.50 + 1.38
        € 1.89
€ 2.87
-0.25
+0.00
+0.25
        # 2.24
+0.50
         * 2.75
+0.75
          * 3.61
+1.00
          * 4,30
          ¥ 4.82
+1.25
           $ 5.68
$ 6.02
+1.50
+1.75
            * 7.23
* 11.19
+2.00
+2.25
+2.59
                                        # 31.15
+2.75
                                                               ¥ 52.32
                                                                                   ¥ 70.57
+3.00
+3.25
+3.50
                                                                                                 * 83.65
                                                                                                           * 92.60
+3.75
                                                                                                                # 97.93
+4.80
                                                                                                                  #100.00
                   1.3025
2.3103
2.4230
2.7226
3.0847
3.2598
3.6125
PHI
       5.0000% =
      14.0898% = 25.0008% =
PHI
PHI
PHI
     50.0000% =
      75.0000% =
PHI
      94.0000% =
PHI
PHI
     95.0000% =
           -1.0000 PHI
MODE=
                                0.5164 CUM WTZ
           -0.5000 PHI
0.7500 PHI
MODE=
                                1.3769 CUM WT%
                               3.6145 CUM WTZ
5.6799 CUM WTZ
52.3236 CUM WTZ
MODE=
            1.5000 PHI
2.7500 PHI
MODE=
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                 2.7642 : FINE GAND
DEV: 0.5874 : MODERATELY WELL SORTED
NESS: -0.0490 : NEAR SYMMETRICAL
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                         1.4396
                                         : LEPTOKURTIC
NORMALIZED KURTOSIS:
                         @.589a
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
           2.7939
0.5512
MEAN X=
VARIANCE=
SKEHNESS=
                     -2.2169
STD DEVIATION=
KURTOSIS=
                     0.7424
                     10.7007
```

```
5.71 #-0.01
    6.31 *-0.01
   7.8: 4-0.61
7.5: 4-0.01
   8.21 #-0.01
9.91 *-0.01
  7.4: + 0.00
10.2: + 0.00
  10.81 * 0.01
  12.11 + 0.94
  13.31 # 0.07
  14.71
             # 0.14
             * 0.15
  17.21
             # 0.18
  19.51
             # 0.18
  29.41
             # 0.19
  22.31
24.21
              # 0.21
              * 0.23
  26.11
              # 0.24
  28.71
              * 0.25
  31.31
               # 0.27
  34.51
37.71
               # 0.29
               # 0.30
  41.54
  45.41
49.91
                 # 0.37
                  # 0.42
  55.01
                   # W.44
  60.71
                    # W.5i
                          # 0.80
  67.11
  74.11
                                        * 1.31
                                                     # 1.94
  18.18
  90.91
                                                                 # 2.44
100.41
                                                                            # 2.92
                                                                                         # 3.4F
 111.31
                                                                                                             * 4.42
# 4.79
* 5.89
124.11
138.21
                                                                                                   # 3,79
154.21
                                                                                                                                  # 5.31
# 5.48
193.91
217.61
                                                                                                                                         £ 5.60
245.11
276.41
312.31
                                                                                                                                          # 5.49
                                                                                                                                            * 5.8¢
* 5.84
353.91
401.91
457.61
522.31
                                                                                                                                              * 5.87
* 5.88
597.81
                                                                                                                                              £ 5.90
                                                               GRAMS
                                                                             3
                                                                                                                           5
                                                                                                    12
                                                                                                                                                 ά
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0015
WATER TEMP.: 21
PHI TIME
PHI
                                   TIME
                                                     INTERVAL
                  EXPECT
                                   OBSERV
                                                     WEIGHT: GRAMS
                  7.20
8.25
9.51
                                  7.53
8.23
9.55
 -1.00
                                                   0.00
-0.75
-0.50
                                                   0.00
                                                   0.01
 -0.25
                  11.03
                                  11.47
                                                   0.02
                 12.88
15.14
                                 13.34
15.32
  0.00
                                                   0.05
  9.25
                                                   0.09
  0.50
                 17.95
                                  18.45
                                                   0.02
  8.75
                 21.44
25.85
31.45
                                  21.69
                                                   0.02
                                 26.14
31.96
38.99
  1.00
                                                   0.04
  1.25
                                                   0.03
                 38.67
  1.50
                                                   0.03
                                 48.55
60.74
                 49.08
                                                   0.10
                 68.49
77.87
99.49
  7.00
                                                   0.11
  2.25
                                                   1.10
  2.50
2.75
                                                   1.27
                                 99.79
                130.15
                                 130.50
                172.49
                                172.74
231 A7
```

0.89

3.00

j.,50 3.75 514.72 313.83 430.12 593.36 429.69 592.96 4.00 9.00 TOTAL IMMERSED WEIGHT: 6.060406 CUM. TOT. WEIGHT: 5.9100 PERCENT WEIGHT ERROR: -2.4850

KOO15 toge Zef Z

```
84-81-2005
SAMPLE NUMBER: KØØ15
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUNULATIVE TOTAL
                                                              56%
PHI
-1.00 K 0.00
-0.75 × 0.00
-0.50 * 0.17
-0.25 # 0.51
+0.09
       ¥ 1.35
        ¥ 2.88
+0.25
         * 3.21
* 3.55
* 4.23
+0.50
+0.75
+1.00
         # 4,74
# 5,25
# 6,94
+1.25
+1.50
+1.75
              ¥ 9.80
+2.00
+2.25
+2.50
                                    # 27,41
                                                              * 48.98
                                                                                       # 71.24
+2.75
                                                                                                        ¥ 8á.29
FJ.00
                                                                                                                 € 94.08
+3,25
+3.50
                                                                                                                        £100.00
+3.75
                                                                                                                        *100.00
+4.00
                   1.3792
2.8987
2.2176
PHI
       5.00001 =
     16.0000% =
PHI
     25.00001 =
PHI
     50.0000X = 2.5123
75.0000X = 2.8125
84.0000X = 2.9619
95.0000X = 3.3149
PHI
PHI
PHI
PHI
            0.2500 PHI
1.0000 PHI
                                  2.8765 CUN WT%
MODE=
                                 4.2301 CUM WT7
MODE=
MODE=
             2.7500 PHI
                                71.2352 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                  2.5236 : FINE SAND
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKENNESS:
                                           : MODERATELY WELL SORTED
                          0.5096
                                           : MEAR SYMMETRICAL
                         -0.0457
                          1.3336
0.5715
GRAPHIC KURTOSIS:
                                           : LEPTOKURTIC
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN \rm X= 2.5821
VARIANCE=
                      0.4999
                      -1.8351
SKEWNESS=
STD DEVIATION=
                     0.6403
KURTOSIS=
                       9.7239
```

5.71 * 0.00 6.31 * 0.00 7.01 + 0.00 7.61 ± 0.00 8.21 ± 0.00 9.91 * 9.00 9.41 + 0.00 10.21 + 0.00 10.81 + 0.00 12.11 + 0.00 13.31 + 0.00 14.61 # 0.00 15.91 * 0.01 17.21 * 0.03 18.5! # 0.02 20.4: * 0.03 22.3: E 0.07 10023-A

page (of3

```
19 6 1
          6 9,95
   26.11
           # 49.10
                                                                           10023-A
   28.71
            * 4.11
                                                                                                        page 2 of 3
           # 0.12
  31.31
  34.51
37.71
            F 位, 14
             # 0.15
   41.51
             # 0.18
  45.41
49.91
             # 0.20
             ₹ Ø.22
  55.01
             ₩ Ø.25
              £ 0.30
  69.71
                # 0.35
  67.11
   74.11
                 # 0.46
  81.81
                  ¥ 0.45
                    * 0.58
                         36

3.68

* 0.86

* 1.14

* 2.02

* 2.39

* 2.78

* 3.14

* 3.48

* 3.87

* 4.26

* 4.65

* 4.95

* 5.19

* 5.19
  90.84
                      € 0.68
 100.41
 1 1 1 2 1
 124.11
138.21
 154.21
172.71
 193.91
 217.61
 245.11
 276.41
 353.91
 401.91
 457.65
 522.31
 597.91
                                                                                                                        ¥ 5.36
 SEC
                                                          GRAMS
                                                                                                                                    6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
 04-01-2005
SAMPLE NUMBER: KØØ23-A
 WATER TEMP.: 21
                TIME
PHI
                                FIME
                                                 INTERVAL
                 EXPECT
                                OBSERV
                                                 WEIGHT: GRAMS
 -1.500
                 7.20
                                7.63
                                               0.00
 -9.75
                 9.25
                                8.23
                                               0.99
 -0.50
                 9.51
                                9.55
                                               0.00
                11.03
 -8.25
                               11.47
                                               0.00
  0.00
                12.88
                               13.34
                                               0.00
                15.14
   0.25
                               15.26
                                               9.61
  0.50
                               18.45
                                               0.01
   0.75
                21.44
                               21.69
                                               9.92
                25.85
31.45
  1.00
                               26.14
31.95
                                               0.06
   1.25
                                               8.93
  1.50
                38.67
                               38.94
                                               0.03
                               40.55
   1.75
                48.08
                                               0.05
  2.00
2.25
               60.49
77.07
99.49
                              60.74
77.39
99.79
                                               0.09
                                               9.12
  2.50
                                               0.25
               130.15
                              130.50
                                               0.61
  3.00
               172.49
                              172.74
                                               0.74
  3.25
               231.39
                              231.62
                                               0.95
  3.50
               313.83
                              314,22
                                              0.91
              429.69
592.96
                             439.12
593.36
  3.75
                                               0.93
  4.00
                                               0.56
TOTAL IMMERSED WEIGHT: 5.060606
CUM. TOT, WEIGHT: 5.3700
PERCENT WEIGHT ERROR: -11.3950
```

WEIGHT ERROR >5%

£ 5.38

```
94-01-2005
SAMPLE NUMBER: KM023-A
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                      387
      _____
PHI
-1.00 # 0.00
-0.75 ± 0.00
-0.50 * 8.00
-0.25 * 0.00
+0.00 + 0.00
+0.25 ± 0.19
+0.50 ± 0.37
+0.75 # 0.74
<1.00 € 1.84
+1.25
+1.58
       * 2.42
        * 2.98
* 3.91
+1.75
+2.00
+2.25
           * 5.59
* 7.82
+2.50
                 # 12.48
+2.75
                             * 23.84
+3.00
                                           # 37.62
+3.25
                                                            * 55.31
                                                                             # 72.25
+3.50
+3.75
                                                                                              # 89.57
+4.00
                                                                                                         #190.00
                  1.9125
PHI
      5.0000% =
     16.0000% =
PHI
                   2.5775
PHI
     25.0000% =
                  2.7711
PHI
      50.0000% =
                   3.1750
PHI
      75.0000% =
PHI
     94.0000% =
                   3.6696
     95.0000% =
PHI
                   3.8801
          1.0000 PHI
3.2500 PHI
                            1.8622 CUM WT%
55.3073 CUM WT%
MODE=
MODE=
            3.7500 PHI
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                 VERY FINE SAND
GRAPHIC MEAN:
                      3.1497
                                     : MODERATELY WELL SORTED
: COARSE SKEWED
INCL GRAPH STD DEV:
                       0.5711
INCL GRAPH SKEWNESS:
                      -0.1987
GRAPHIC KURTOSIS:
                       1.0493
                                      : MESOKURTIC
NORMALIZED KURTOSIS:
                       0.5120
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                    3.2076
HEAN X=
VARIANCE=
                    0.3934
SKEWNESS=
                   -1.4305
STO DEVIATION=
                    0.6274
KURTUSIS=
                     4.0950
                                                                      K0014 page 1 of 3
 5.21 # 0.01
 5.91 * 0.00
 6.51 # 0.00
 7.1; * 0.0;
7.8; * 0.00
 9.41 # 0.82
9.1: * 0.08
9.7: * 0.
10.3:
        * 0.15
* 0.37
 11.61
                            * 1.23
 12.91
                                              # 2.23
 14.21
                                                            * 3.0a
                                                                         % 3.78
% 4.25
 15.41
 16.7
                                                                                          ÷ 4,79
18.01
                                                                                                 * 5.09
 19.91
```

21.81

```
25.61
28.21
                                            K0014 page 2 83
  30.81
  34.91
                                                                                                                           ¥ 5.87
¥ 5.91
  41.61
  44.91
                                                                                                                            £ 5.96
  49.41
  54.51
                                                                                                                            + 5.94
                                                                                                                            # 5.95
 óá.ó¦
                                                                                                                            ¥ 5.96
  81.31
                                                                                                                            £ 5.97
                                                                                                                            $ 5.97
                                                                                                                           £ 5.97
+ 5.97
 109.01
 110.94
 123.61
                                                                                                                            € 5,97
 137.71
153.71
                                                                                                                            * 5.98
                                                                                                                             # 5.98
# 5.98
 193.41
                                                                                                                             # 5.99
                                                                                                                             # 5.99
244.61
                                                                                                                            * 6.00
 275.91
                                                                                                                             * 6.81
311.81
                                                                                                                            * 6.02
 353.41
                                                                                                                             4 6.04
401.51
                                                                                                                             # 6.02
457.11
                                                                                                                             # 6.03
521.81
                                                                                                                             # 6.84
597.41
                                                                                                                             1 6.04
        0 1 2 GRAMS 3
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
94-81-2095
SAMPLE NUMBER: K0014
WATER TEMP.: 21
PHI TIME
                        TIME INTERVAL GRAMS 7.79 8.00 8.48 0.02 9.46 0.14 11.58 1.07 12.85 1.00
               EXPECT
7.20
 -1.00
 -0.75
                9.25
 -0.50
                9.51
               11.03
 -0.25
               12.88
  0.00
                                         0.25
               15.14
                             15.43
               17.95
21.44
  8.50
                             18.01
  0.75
                             21.90
  1.00
               25.85
                             26.47
  1.75
               31.45
                             31.63
39.10
               38.67
  1.75
               48.08
                             48.11
               60.49
                            61.97
77.49
99.96
  2.00
              77.97
99.49
                                         0.07
  2.25
  2.50
                                         0.00
0.02
0.01
0.02
  2.75
              138.15
                            130.66
             172.49
231.39
                            173.12
  3.90
  3.25
                            231.78
314.39
  3.50
              313.83
  3.75
              429.69
                            430.29
                                          9.91
  4.00
              592.96
                            593.52
                                           0.01
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT:
                     6.0400
```

PERCENT WEIGHT ERROR: -0.3400

```
04-01-2005
 SAMPLE NUMBER: K0014
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                         50%
                                                                                                           100%
       PHI
-1.00 # 0.00
-0.75 * 0.33
-0.50 * 2.65
                          # 20.36
-0.25
+6.00
                                            # 36.92
+0.25
                                                                      € 62.25
                                                                                        * 79.30
+0.50
                                                                                                £ 97.75
£ 91.89
+0.75
+1.00
+1.25
                                                                                                         # 95,70
                                                                                                           # 97.52
+1.50
+1.75
                                                                                                            * 98.51
+2.00
                                                                                                            * 98.51
                                                                                                           # 98.84
€2.50
                                                                                                            * 99.94
                                                                                                           * 98,84
+2.75
+3.00
                                                                                                            $ 99.17
+3.25
                                                                                                            # 99.34
                                                                                                             * 99.67
+3.50
+3.75
                                                                                                             ¥ 99.83
+4.88
                                                                                                             #100.00
    5.0000% = -0.4668
16.0000% = -0.3116
PHI
PHI
     25.0000% = -0.1800
50.0000% = 0.1291
75.0000% = 0.4369
PHI
PHI
PHI
                  8.6390
1.2043
PHI
    84.0000% =
     95.0000% = 1.2
= -0.2500 PHI
PHI
#00E=
                              20.3642 CUM WT%
           0.2500 PHI
                              62.2517 CUM WT%
MODE=
            2.2500 PHI
3.0000 PHI
                             98.8411 CUM WTZ
99.1722 CUM WTZ
99.6689 CUM WTZ
#00E=
MODE=
            3.5000 PHI
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 0.1522 : COARSE SA
                                 : COARSE SAND
INCL GRAPH STD DEV:
                        0.4909
                                        : WELL SORTED
INCL GRAPH SKEWNESS:
                        0.1798
                                       : FINE SKEWED
GRAPHIC KURTOSIS:
                        1.1103
                                       : LEPTOKURTIC
NORMALIZED KURTOSIS:
                        0.5261
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
           0.3344
HEAN X=
VARIANCE=
                     0.3395
SKEWNESS=
                     2.1506
STD DEVIATION=
                    0.5827
KURTOSIS=
                    11.4048
```

```
5.61 * 0.00
 6.31 + 0.00
 6.71 # 0.00
 7.5: * 0.00
8.21 ± 0.00
8.81 ± 0.01
7.41 ± 0.01
10.81 + 0.03
12.01 + 0.03
13.31
       * 0.05
14.61
         # 0.15
15.81
          # 0.23
           # 0.23
17.11
18,41
          # 0.24
```

K0016

page (of 3

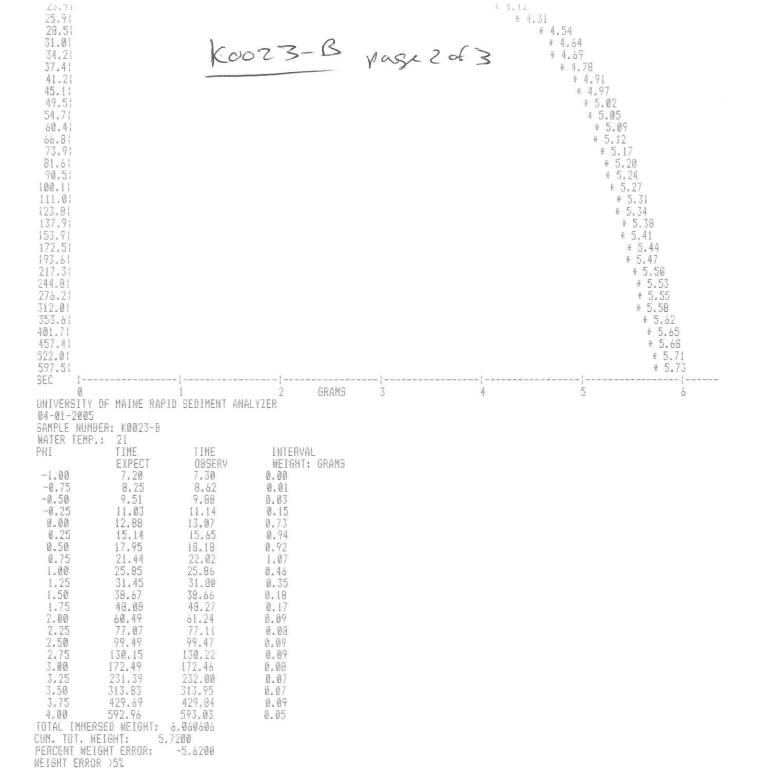
```
$ M.Zo
  20.01
  22.21
             # Ø.28
  24.21
             * 0.31
                                                                                     K0016 Page 2053
             # 0.34
  26.11
  28.71
              # 0.39
               # 0,44
  31.21
                 # 0.49
  34.41
 37.61
                 ¥ Ø.54
  41.51
                 # 9.69
                  * 0.66
 45.31
 49.81
                    * 0.73
 54.91
                      * 0.81
                           * 1.00
 69.61
                                  * 1.43
 67.11
 74.11
                                          # 1.94
 81.81
                                                   ¥ 2.35
 90.71
                                                              ¥ 2.87
100.31
                                                                      # 3.34
                                                                              ₹ 3.79
                                                                                     # 4.20
# 4.55
 111.21
124.01
139.11
                                                                                                  # 4.83
# 5.86
154.11
172.71
                                                                                                         # 5.25
# 5.38
193.81
217.51
245.01
                                                                                                              £ 5.48
276.41
                                                                                                               # 5,56
312.31
                                                                                                                 £ 5.61
                                                                                                                 # 5.66
# 5.69
353.81
401.71
                                                                                                                  # 5.72
# 5.74
457.63
522.21
597.91
                                                                                                                   * 5.7á
                                                                                                                   -----
                                             2 GRAMS 3
       50
                                                                                                                       ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 04-01-2005
SAMPLE NUMBER: K0016
WATER TEMP.: 21
out TIME
                         TIME
00SERV
PHI
                                           INTERVAL
              EXPECT
                                           WEIGHT: GRAMS
               7.20
9.25
                            7.52
8.84
 -1.00
                                          0.00
 -8.75
                                          8.89
 -0.50
               9.51
                            10.10
                                          0.02
              11.03
 -0.25
0.00
                            11.35
                                          9.91
                            13.29
                                          0.02
  0.25
                            15.21
                                          0.15
              17.95
 0.50
                            18.40
                                          0.04
  8.75
                            21.58
                                          9.04
              25.85
                            26.08
 1.00
                                          0.06
  1.25
              31.45
                            31.95
                                         0.11
 1.50
                                          0.11
              38.67
                            38.88
                            48.49
              49.09
                                          0.15
  2.00
              60.49
                           60.63
                                         0.35
              77.07
99.49
                           77.28
99.48
 2.25
2.50
                                          1.02
                                          1.23
  2.75
             139.15
                           130.44
                                         1.06
 3.00
             172.49
                           172.68
                                         0.69
                          231.56
314.17
  3.25
             231.39
                                          0.38
 3.50
             313.83
                                          0.18
  3.75
             429.69
                           430.05
                                         0.07
 4.00
             592.96
                          593.30
                                          0.05
TOTAL IMMERSED WEIGHT: 5.060605
```

-4.9600

CUM. TOT. WEIGHT: : :
PERCENT WEIGHT ERROR:

```
04-01-2005
SAMPLE NUMBER: KODIA
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                     50%
          _____
PHI
-1.00 # 0.00
-0.75 € 0.00
-0.50 + 0.35
-0.25 # 0.52
+0.00 ± 0.87
+0.25
       # 3.47
+0.50
         k 4.17
+0.75
         # 4.86
           $ 5.90
€ 7.81
+1.80
+1.25
+1.50
              # 7.72
# 12.33
+1.75
                       # 18.40
+2.00
+2.25
+2.50
                                        # 36.11
                                                             * 57,47
+2.75
                                                                               ¥ 75.87
                                                                                           ₩ 87.85
+3.00
                                                                                                # 94.44
+3.25
                                                                                                    ¥ 97.57
+3.50
+3.75
                                                                                                     # 99.13
                                                                                                      #100.00
+4.00
                0,7833
1,9011
2,0931
PHI
      5.0000% =
PHI
      14.0000% =
     25.0000% =
PHI
                 2.4126
PHI
     50.0000% =
                 2.7382
PHI
     75.0000% =
                   2.9197
PHI
     84,0000% =
                  3.2944
PHI
     95.0000% =
          -0.5000 PHI
0.2500 PHI
                             0.3472 CUM WT%
HODE=
                            3.4722 CUM WT%
57.4653 CUM WT%
MODE=
MODE=
           2.5000 PHI
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                      2.4112 : FINE SAND
INCL GRAPH STD DEV:
                                     : MODERATELY WELL SORTED
                      0.6351
INCL GRAPH SKEWNESS:
                      -0.1510
                                        COARSE SKEWED
GRAPHIC KURTOSIS:
                       1.5954
                                     : VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                       0.6147
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                   2.4579
MEAN X=
VARIANCE=
                   0.5122
SKEWNESS=
                   -1.3227
STD DEVIATION=
                   0.7157
KURTOSIS=
                    5,8936
```

```
5.41 # 0.00
                                                             KOOZ3-B rage (cf3
 6.81 * 8.80
6.71 ± 0.00
7.31 ± 0.00
8.01 + 0.00
 9.61 # 9.01
9.21 * 0.02
9.91 * 0.04
10.51 * 0.0
       € 0.09
11.9
            # 8.34
                      € 0.92
13.11
                             * 1.32
14.34
                                      * 1.86
15.6
                                                  ¥ 2.47
16.91
                                                       # 2.78
18,21
                                                                    * 3.43
20.11
                                                                          # 3.85
22_01
```



```
04-01-2005
SAMPLE NUMBER: K0023-8
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                            50%
                                                                                                                 100%
      8%
       PHI
-1.80 ± 0.80
-0.75 ± 0.17
-0.50 ± 0.76
-0.25
        * 3.32
                        ¥ 16.08
+0.00
                                          # 32.52
+0.25
+0.50
                                                                               * 67.31
* 75.35
* 81.47
* 8
                                                            * 48.60
+0.75
+1.000
                                                                                                   * 84.52
* 87.59
+1.50
+1.75
                                                                                                       * 99.16
+2.00
                                                                                                         # 90.56
+2.25
                                                                                                          # 92.13
                                                                                                            # 93.71
+2.75
                                                                                                              * 95.10
+3.00
                                                                                                              * 96.33
* 97.55
+3.25
+3.50
                                                                                                                   *190.00
+4.88
       5.0000% = -0.2171
     16.0000% = -0.0016
25.0000% = 0.1356
56.0000% = 0.5187
PHI
PHI
PHI
                   0.9891
PHI
      75.0000% =
            00% = 1.4511
00% = 2.9812
0.2500 PHI
0.7500 PHI
     94.0000% =
PHI
PHI
      95.0000% =
                               32.5175 CUM WT%
MODE=
MODE=
                               67.3077 CUM WT%
             2.5000 PHI
3.7500 PHI
                               92.1329 CUM WT%
99.1259 CUM WT%
MODE=
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 0.6561 : COARSE SAN
                                   : COARSE SAND
INCL GRAPH STD DEV:
                                          : MODERATELY SORTED
                          8.8478
                                         : STRONGLY FINE SKEWED
: VERY LEPTOKURTIC
INCL GRAPH SKEWNESS:
                         0.4118
GRAPHIC KURTOSIS:
                          1.5358
NORMALIZED KURTOSIS:
                          0.6056
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                      0.8715
VARIANCE=
                       0.8552
SKEWNESS=
STD DEVIATION=
                      1.5643
KURTOSIS=
                      5,1414
```

K0010 tag (of 2

```
5.21 # 0.00
    5.81 + 0.01
   6.51 # 0.00
    7.11 #-0.01
7.71 # 0.00
   9.41 * 8.66
7.11 * 8.01
7.71 * 6.01
  10.31
          1 0.04
  11.61
12.71
            * 8,17
                   # 0.38
                         # 0.63
  14.21
  15.41
                             ₩ 0.77
  16.71
                                £ 图. 76
  18.01
19.91
                                  F 1.03
                                     ¥ 1,18
                                         F 1.30
  23.81
25.71
                                              B 1.48
                                                             * 2.16

* 2.46

* 2.79

* 3.86

* 3.24

* 3.39

* 3.49

* 3.49
                                                  # 1.64
# 1.80
  28.2
  30.81
  34.61
  41.0
  44.91
  49.41
  54.51
                                                                                                  * 3.61
* 3.70
  68.3
 64.71
73.75
                                                                                                      # 3.80
 81.41
                                                                                                        * 3.87
  90.31
                                                                                                         * 3.94
 79.91
 110.9
                                                                                                             본 최, 원급
123.61
                                                                                                              # 4.13
137.71
                                                                                                               * 4.17
153.71
172.31
                                                                                                                # 4.21
                                                                                                                 ¥ 4.24
193.41
                                                                                                                 # 4.27
217.13
                                                                                                                  # 4.29
244.61
                                                                                                                   # 4.31
276.01
311.81
                                                                                                                   # 4.36
353.41
401.51
                                                                                                                    ž Å, Å;
                                                                                                                      # 4.43
457.13
                                                                                                                     F B . B .
521.81
597.41
                                                                                                                     # 4,45
                                                                                                                     * 4,46
                                                                    GRANS
                                                                                                                                   17.7
                                                                                                                                                           ò
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
84-81-2885
SAMPLE NUMBER: KODIO
WATER TEMP.: 2:
PHI TIME
PHI
                                     TIME
                                                         INTERVAL
                  EXPECT
                                     OBSERV
                                                        WEIGHT: GRANS
 -1.00
-0.75
                   7.20
8.25
                                     7.74
8.40
                                                       0.00
                                                       0.00
 -0.50
                    9.51
                                    9.72
                                                       0.01
                                   11.58
12.90
15.43
                   11.03
 -0.25
                                                       8.11
                  12.88
                                                       0.26
  8.00
  0.25
                                                       0.39
  0.50
                  17.95
                                    18.01
                                                       0.26
                                                       6.27
6.37
  8.75
                  21.44
                                    21.86
                  25.85
31.45
                                    26.36
31.52
  1.00
  1.25
                                                       8.56
  1.50
                                   39.10
48.71
                                                       0.71
                  38.67
                  48.09
                                                       0.43
                 60.49
77.87
99.49
                                   61.02
77.55
99.90
                                                       0.25
8.21
  2.00
  2.25
2.50
2.75
                                                      0.16
                                  130.66
173.07
231.79
314.39
                 136.15
172.49
231.39
                                                       8.16
  3.00
                                                      0.09
  3.25
                                                       0.06
  J.50
                 313.83
                                                       0.08
                 429.69
592.96
                                  430.28
  3.75
                                                       0.05
  4.00
```

593.46

4.4600

TOTAL IMMERSED WEIGHT: 4.484848

CUM. TOI. WEIGHT:

0.03

```
04-01-2005
 SAMPLE NUMBER: KOGIG
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       67
              PHI
 -1.00 & 0.00
-0.75 * 0.00
-0.50 * 0.22
-0.25 * 2.
          # 2.69
                         * 17.26
* 23.09
* 29.15
                 # 8,52
 +0.00
+0.25
+0.50
 +0.75
                                                 E 37.44
 +1.00
+1.25
+1.50
                                                               * 50.00
                                                                                  * 65.92
                                                                                            # 75.55
+1.75
+2.00
+2.25
+2.50
                                                                                                  * 81.17
                                                                                                       # 85.87
                                                                                                           # 89.46
+2.75
                                                                                                               # 93.95
+7.66
                                                                                                                 £ 95.07
+3.25
                                                                                                                   # 96,41
                                                                                                                     # 98.21
+3.50
+3.75
                                                                                                                      # 79.33
 +4,00
                                                                                                                       #100.00
       5.0000% = -0.1510
16.0000% = 0.2139
PHI
PHI
PHI
       25.00001 =
                    0.5787
                     1.2500
1.7355
2.1505
2.9917
PHI
       50.0000% =
PHI
       75.0000% =
981
       94.0000% =
PHI
      75.00007 =
HODE=
              0.2500 PHI
                                 17.2646 CUM WT%
                                 65.9193 CUM WT%
93.0493 CUM WT%
H00E=
             1.5000 PHI
              2.7500 PHI
HODE=
HODE=
              3.5000 PHI
                                 99.2063 CUM WY%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                           1.2048
0.9603
                                     : MEDIUM SAMO
                                            : HODERATELY SORTED
INCL GRAPH SKEWNESS:
                          0.8192
                                           : MEAR SYMMETRICAL
GRAPHIC KURTOSIS:
MORMALIZED KURTOSIS:
                           1.1134
0.5268
                                            : LEPTOKURTIC
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN X= 1:3789
VARIANCE=
                        0.8542
SKEWNESS=
                       0.4421
STD DEVIATION=
KURTUSIS=
                        9.9242
                       2,9608
```

```
5.5( + 0.00
6.21 # 0.01
6.71 # 0.02
 7.51 # 0.03
8.11 × 0.03
8.81 × 0.03
8.81
 9.41 # 0.02
10.11 # 0.02
10.61 # 9.03
11.91 # 0.06
      € W.Wó
        * 8.11
         # 0.13
15.81
         # 0.16
          ¥ 0.21
            # 8.25
            + 0.32
+ 0.37
20.31
                · 说。月分
24.11
26.01
                  * 0.58
                    ¥ 0.68
28,41
```

X0028 Yaq (0+3

0.13 8.09

0.05

3.75 4.00

592.94

6.060606 6.0300

-0.5050

TOTAL IMMERSED WEIGHT: CUM. TOT. WEIGHT: 6.

PERCENT WEIGHT ERROR:

```
04-01-2005
SAMPLE NUMBER: K0020
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       0%
-1.00 # 0.50
-0.75 + 0.50
-0.50 * 0.50
-0.25 + 0.03
        * 1.99
* 2.82
+0.00
+0.25
+0.50
            표 축.취임
             * 6.14
+0.75
                  ₹ 9.78
+1.00
+1.25
                       £ 14.26
                                 * 22.72
                                                  * 37.98
+1.75
                                                                     * 55.06
+2.00
+2.25
+2.50
+2.75
                                                                                   # 67.33
                                                                                                ₹ 77.78
                                                                                                        € 86.07
                                                                                                                ¥ 92.04
+3.00
                                                                                                                    # 95.52
# 97.48
# 99.17
+3,25
+3.50
+3.75
                                                                                                                         £100.00
+4.00
PHI
        5.0000% =
                      0.5798
PHI
       16.0000% =
                     1.3014
                      1.5374
       25.0000% =
PHI
       50.0000% =
PHI
PHI
       75.0000% =
                      2.4335
                       2.6876
PHI
      94.0000% =
                       3.2125
       95.0000% =
PHI
#0DE=
            -1.0000 PHI
                                  0.4975 CUM WT%
                                  1.9900 CUM WT%
MODE=
             0.0000 PHI
              2.0000 PHI
                                 55.0500 CUN WT%
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                           1.9716
0.7456
GRAPHIC MEAN:
                                           2 MEDIUM SAND
INCL GRAPH STD DEV:
                                               MODERATELY SORTED
INCL GRAPH SKEWNESS:
                           0.0379
                                            : WEAR SYMMETRICAL
                           1.2045
                                            : LEPTOKURTIC
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
HEAN X=
                        2.9572
VARIANCE=
                        0.6064
                      -0.4062
SKEWNESS=
STO DEVIATION=
KURTOSIS=
                       0.7787
                        4.1535
```

5.4: E-0.01 5.11 * 9.00 5.81 # 0.00 7.41 *-0.61 8.0! # 0.01 8.61 * 9.82 9.31 # 8.88 9.91 # 8.82 10.5: * 0.06 11.81

13.11

14.41

15.61

15.91 18.71

20.11 22.11 24.01 25.91

29.5

31.01 34.21 * 0.12

0.20 # 0.24

* 0.29

* 8.35

0.40 # 0.52

0.63 # 0.72 * 0.83

0.92 # 1.00

E 1,19

KOOIL page (of 3

```
91,21
45,11
                                           1 1.37
                                           E 1 . 4 1
  49.61
                                              * 1,49
                                               * 1.54
                                                                                                                Kooll page 7 of 3
  54.71
  60.51
                                                # 1.59
                                                 # 1.64
  66.91
  73.91
                                                  * 1.49
  81.61
                                                   # 1.75
  90.61
                                                     ¥ 1.91
                                                      * 1.87
* 1.95
 100.71
 111.11
123.01
137.91
                                                          * 2.03
                                                            * 2.18
153.91
172.51
                                                            * 2.17
* 2.24
 193.61
                                                                * 2.31
* 2.37
                                                                    # 2.42
# 2.47
 244,91
276.21
312.11
353.71
                                                                     £ 2.51
                                                                      # 2,54
                                                                      # 2.57
401.71
 457.41
                                                                       * 2.50
522.11
597.61
                                                                        ₹ 2.62
* 2.64
                                                                   GRANS
                                                                                                         \hat{E_{i}^{k}}
                                                                                                                                 5
                                                                                                                                                        6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0011
WATER TEMP.: 21
PHI
                  TIME
                                     TIME
                                                        INTERVAL
                                     08SERV
7.36
                   EXPECT
                                                        WEIGHT: GRANS
                   7.20
8.25
 -1.80
                                                      0.00
 -0.75
                                     9.62
                                                       0.03
                  9.51
11.03
 -0.50
                                     9.94
                                                      0.00
 -0.25
                                    11.20
                                                       0.06
  0.00
                  12.88
                                   13.12
                                                      0.12
                  15.14
17.95
21.44
   0.25
                                    15.65
                                                      0.09
  0.50
                                   18.23
                                                      0.11
   0.75
                                    21.42
                                                       0.19
                  25.85
                                    25.92
   1.00
                                                      0.24
                   31.45
                                                      0.22
0.27
   1.25
                                    31.69
   1.50
                  38.67
                                   30.72
   1.75
                  49.08
                                   48.33
                                                      8.15
  2.00
2.25
2.50
2.75
3.00
3.00
                  60.49
77.07
99.49
                                   60.47
77.11
99.52
                                                      0.12
                                                      9.13
                                                      0.15
                 130.15
172.49
                                   130.28
                                                      0.20
                                  172.52
231.40
                                                      0.17
                 231.39
   3.25
                                                      8.16
  3.50
3.75
                 313.83
429.69
                                  314.00
                                                      0.11
                                  429.84
593.14
                                                      0.09
  4.00
                 592.96
                                                      0.05
TOTAL IMMERSED WEIGHT: 2.818182
CUM. TOT. WEIGHT: 2.6500
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR:
```

-5.9677

WEIGHT ERROR)5%

```
84-81-2005
SAMPLE NUMBER: KO011
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.88 × 0.89
-0.75 ¥ 1.13
-0.50 + 1.13
              * 7.92
* 11.32
* 15.47
* 22.64
-0.25
        ₹ 3.40
+0.00
+0.25
+0.50
+8.75
                                        * 31.70
+1.00
                                                 + 40.00
+1.25
                                                            * 50.19
+1.50
                                                                  £ 55.85
                                                                           .38

* 65.28

* 70.94

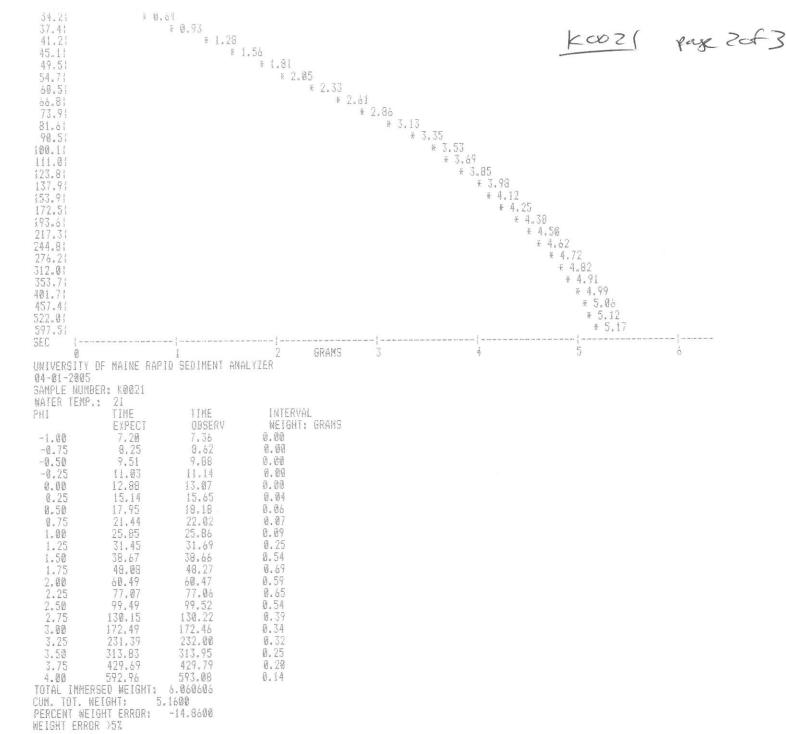
* 78.49

* 84.91

* 90.94

* 9
                                                                       # 48.39
+2.00
+2.25
+2.50
+2.75
+3.00
+3.25
                                                                                                            * 95.09
+3.50
                                                                                                               # 98.11
+3.75
                                                                                                                 #190.00
+4.00
PHI
       5.0000% =
                   -0.1615
      16.0000% = 25.0000% =
                   0.5184
0.8151
PHI
PHI
PHI
      50.0000% =
                    1.4954
      75.0000% = 84.0000% =
                     2.6344
2.9647
PHI
PHI
PHI
      95.0000% =
                     3.4943
                                1.1321 CUM WT%
7.9245 CUM WT%
            -0.7500 PHI
#QDE=
MODE=
            0.0000 PHI
                               31.5981 CUM WT%
             1.0000 PHI
MODE=
                               50.1887 CUM WT%
             1.5000 PHI
HODE=
             2.7500 PHI
                               78.4906 CUM WT%
#80E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                         1.6595
                                         : MEDIUM SAND
                         1.1655
                                         a POURLY SORTED
INCL GRAPH STD DEV:
                                         : FINE SKEWED
INCL GRAPH SKEWNESS:
                         0.1474
GRAPHIC KURTOSIS:
                                            PLATYKURTIC
                         0.8236
NORMALIZED KURTOSIS:
                          0.4515
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                       1.7877
MEAN X=
VARIANCE=
                      1,2915
                      0.0339
SKEWNESS=
STD DEVIATION=
                      1.1364
                       2.1912
KURTOSIS=
                                                            Koozl page lot3
  5.41 * 0.00
  4.01 x-0.01
```

6.71 * 0.00 7.41 * 0.00 8.01 + 0.00 9.61 + 0.00 7.21 + 0.00 9.91 * 0.00 10.51 € 0.00 11.81 # 0.00 13.11 + 0.00 14.31 + 0.01 15.61 + 0.04 16.91 # 0.09 # 0.10 18.21 20.11 * 0.13 22.01 + 0.17 23.91 # 8.20 25.91 # 0.26 29.51 # 0.37



```
04-01-2005
SAMPLE NUMBER: K0021
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                                        190%
                                                               50%
      0%
            PHI
-1.00 ± 0.00
-0.75 + 0.00
-0.50 * 0.00
-0.25 + 0.00
+0.00 # 0.00
+8.25 * 8.78
+8.50 * 1.94
+8.75 * 3.29
+1.88 * 5.84
                  £ 9.88
+1.25
+1.58
                              * 20.35
                                              # 33.72
+1.75
+2.80
                                                           * 45.16
                                                                                     * 68.22
* 75.78
* 82.36
* 88.57
* 9
                                                                          # 57.75
+2.50
+2.75
+3.00
+3.25
+3.50
+3.75
+4.88
                                                                                                                   £ 93.41
                                                                                                                       # 97.29
                                                                                                                           *100.00
      5.0000% =
16.0000% =
                      0.7944
1.3961
PHI
PHI
                      1.5870
PHI
       25.0000% =
                       2.0962
2.7244
       50.0000% =
PHI
       75.0000% =
PHI
       84.0000% =
PHI
                       3.0459
      95.0000% = 3.6
= 1.7500 PHI
                       3.6025
PHI
                                 33.7209 CUN WT%
MODE=
                                 57.7519 CUM WT%
HODE=
              2.2500 PH1
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                           2,1861
0.8126
                                       : FINE SAND
GRAPHIC MEAN:
                                            : MODERATELY SORTED
: FINE SKEWED
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                            0.1583
                           0.9398
                                             : MESOKURTIC
MORMALIZED KURTOSIS:
                            0.4845
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                        2.2912
VARIANCE=
                        0.6411
                        0.1504
SKEWNESS=
STD DEVIATION=
                        0.8007
KURTOSIS=
                        2.6092
```

K0025 Page 1 of 2

```
5.41 8-6.01
5.11 8 8.60
   6.71 8-0.01
    7.41 x-0.01
   8.01 + 0.00
   8.61 × 0.01
   9.31 # 0.02
    9.91 + 0.07
  18.51
           # 0.13
  11.91
            # 0.17
              # 0.21
               F 0.30
  14.4
                  # 0,42
  15.01
                    8 49
  15.91
  18.21
                     # 0.58
   20.11
                       # 8.60
  22,11
24.01
                         # 0.78
                                16
1.76
* 1.86
* 1.18
* 1.36
* 1.87
* * 2.18
* 2.58
* 2.83
* 3.22
* 3.55
* 3.89
* 4.19
* 4.53
* 4.88
* 5.23
* 5.23
* 5.23
* 5.39
                           # 9.86
  25..91
28.51
                             # 8.96
                                # 1.06
  31.01
  34.21
37.51
  41.21
  45.11
  49.6
  54.71
  69.5
 66.91
73.91
 81.61
 90.65
 100.21
 1 1 1 1 1
123.81
137.91
151.91
                                                                                                                                    # 5.53
 172.5
193.61
                                                                                                                                       # 5.73
                                                                                                                                        ₹ 5.79
244.91
276.21
                                                                                                                                           * 5.98
* 5.93
353.74
401.71
                                                                                                                                             # 5.98
457.43
522.11
                                                                                                                                             * 5.00
                                                                                                                                             # 6.01
597.61
                                                                                                                                             ₹ á.07
                                                     2 GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0025
WATER TEMP.: 26
PHI TIME
PHI
                                  TIME
                                                   INTERVAL
                 EXPECT
                                  OBSERV
                                                   WEIGHT: GRAMS
                  7.21
8.26
 -1.00
                                  7.36
                                                  0.00
                                 9.62
9.94
11.26
 -0.75
                                                  8.82
 -8.50
                  9,53
                                                  0.06
 -0.25
                 11.05
                                                  9.09
  0.00
                 12.91
                                 13.07
                                                  0.06
  0.25
                 15.19
                                 15.55
                                                  8.21
                                10.23
22.09
  8.50
                 18.01
                                                  0.16
  0.75
                 21.54
                                                  ₩.20
  1.00
                 25.98
                                 26.58
                                                  0.20
                                31.69
39.32
49.93
61.24
                 31.65
                                                  0.23
  1.50
                38.96
49.50
                                                 0.54
8.70
                                                  0.79
  2.00
                61.11
  2.25
                 77.99
                                 78.43
                                                  0.81
  2.50
               190.84
                               100.95
                                                 0.75
                               132.28
175.70
               132.14
                                                  0.51
  3.80
               175.41
                                                 0.32
  3.25
                235.67
                               235.98
                                                  0.19
               320.00
                               320.38
                                                 0.18
```

8.8! * 9.92 9.41 + 0.04 10.11

18.71

12.91

14.5 15-81 17-11 18.31 22.21 24.11 * 9.09

0.21

* 1.00 * 1.42

¥ 2.20

0.04

```
84-01-2005
 SAMPLE NUMBER: K0025
CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.00 x 0.00
-0.75 ≠ 0.33
-0.50 + 1.32
         # 2.65
# 3.64
-0.25
+0.00
               £ 7.12
£ 9.77
+0.25
+0.50
                     * 13.88
+0.75
+1.00
                         # 16.39
+1.25
+1.58
+1.75
                              £ 20.20
                                         * 29.47
                                                       # #1.86
                                                                     ¥ 54,14
+2.00
+2.25
+2.50
                                                                                      # 57.55
                                                                                                    ₹ 79.97
                                                                                                             € 98,41
+2.75
                                                                                                                    * 93.71
+3.00
+3.25
                                                                                                                          * 98.51
* 99.34
+3.50
+3.75
+4.88
                                                                                                                           #100.00
       5.00002 = 16.00002 = 25.00002 =
PHI
                      0.0976
                       0.9705
PHI
                       1.3795
PHI
                       1.9209
       50.0000% =
       75.0000% = 84.0000% =
                      2.4000
2.6194
3.1026
PHI
PHI
PHI
      75.0000% =
             -0.2500 PHI
0.2500 PHI
2.2500 PHI
                                 2.6490 CUN MT%
7.1192 CUN WT%
67.5497 CUN WT%
HODE=
MODE=
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAM:
                            1.8349
                                            : MEDIUN SAND
INCL GRAPH STD DEV:
                           0.8675
                                             : MODERATELY SORTED
INCL GRAPH SKEWNESS:
                           -9.1831
                                             : COARGE SKEWED
GRAPHIC KURTOSIS:
                           1.2068
                                             a LEPTOKURTIC
NORMALIZED KURTOSIS:
                            4.5469
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                        1.9412
                       0.7714
-0.5989
VARIANCE=
SKEWNESS=
STO DEVIATION=
                        0.8783
KURTOSIS=
                        3.3450
                                                          10037 page ( of 3
  5.51 + 0.00
5.21 + 0.00
 5.71 × 5.06
7.51 × 6.01
8.11 × 6.01
```

2.67 # 3.41 # 3.69 # 4.03 * 4.32

26.63 31.11 36.41 41.47 45.31 49.71 54.91 68.67 68.67 111.21 124.01 134.11 172.67 193.81 9 .71 107.67 193.81 9 .71 108.31 111.21 124.01 134.11 145.01 154.11 164.31 165.31 66.31 66.31 164.31 165.31 66.31 66.31 166.31 172.67 173.81 9 .71 183.81 9 .71 183.81	<u>K0037</u>	pag Zet 3	¥ 6 a	\$ 5.99 \$ 5.99 \$ 6.35 \$ 7.35 \$ 7.35
68 597.7! 69 SEC		3 4	<u>-</u>	ř Ó.
TIME EXPECT ORGERY -1.00 7.21 7.46 -0.75 8.26 8.78 -0.50 9.53 10.05 -0.25 11.05 11.36 0.05 12.91 13.23 0.25 15.19 15.26 0.50 18.01 18.34 0.75 21.54 21.50 1.00 25.98 26.03 1.25 31.65 31.96 1.50 38.96 39.49 1.75 48.50 49.10 2.00 61.11 61.46 2.25 77.98 78.54 2.50 100.84 101.11 2.75 132.14 132.31 3.00 175.41 175.87 3.25 235.67 236.01 3.50 320.08 320.54 3.75 439.76 439.96 4.00 606.05 606.04 TOTAL IMMERSED WEIGHT: 6.6900 PERCENT WEIGHT: 6.6900 PERCENT WEIGHT ERROR: 10.3850	IMTERATE BRANCE			

```
04-01-2005
SAMPLE MUMBER: K0037
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                           100%
      PHI
-1.00 + 0.15
-0.75 * 0.30
-0.50 * (.35
           € 5.28
-0.25
+0.00
                           * 21.23
                                                                  * 58.74

* 69.16

* 76.88

* 82.36

* 87.59

* 91.33

* 94.
                                            # 36.92
+0.25
                                                          # 50,97
+0.50
+1.90
+1,25
+1.50
+2.00
+2,25
                                                                                                         * 95.81
* 97.16
+2.75
                                                                                                           # 98.21
                                                                                                            * 98.95
* 99.48
+3,25
+3,50
                                                                                                             # 77.85
+3.75
                                                                                                             *190.00
+4.00
     5.0000% = -0.3148
16.0000% = -0.0974
25.0000% = 0.0601
PHI
PHI
PHI
PHI
     50.0000% =
                   0.4827
                   1.2158
1.5783
1241
      75.0000% =
PHI
     94.0000% =
                   2.3865
PHI
    95.0000% =
            0.2500 PHI
                              36.9200 CUM WT%
#00E=
                             68.1614 CUM MT%
            1.8080 PH1
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 0.6579 : COARSE SAI
                                  : COARSE SANO
GRAPHIC MEAN:
INCL GRAPH SID DEV:
                         0.8257
                                        : MODERATELY SORTED
                                        : STRONGLY FINE SKEWED
INCL GRAPH SKEWNESS:
                        0.3625
                                        : MESCKURTIC
                        0.9579
GRAPHIC KURTOSIS:
WORMALIZED KURTOSIS:
                        0.4893
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                     0.8378
VARIANCE=
                      €.7287
                     0.9428
0.8537
SKEWNESS=
STD DEVIATION=
KURTOSIS=
                     3.6423
```

```
5.41 8 0.01
    6.01 F 6.01
   6.71 # 0.02
7.31 # 0.01
   8.81 # 8.01
    8.61 * 8.02
   9.21 ₩ 0.02
    9.91 # 0.02
  10.51 # 0.87
  11.91
               # 0.25
  13.11
                  # 0.39
                     # 0.52
  14.31
  15.61
16.91
                        # 0.67
                           * 8.86
  18.21
                               # 0.92
  20.11
                                   * 1.16
  21.01
23.91
25.91
                                     ₹ 1.22
                                        * 1.33
                                          # 1.42
  28.41
                                            # 1.52
                                                                 * 2.52

* 3.29

* 3.88

* 4.47

* 4.42

* 4.68

* 4.73

* 5.41

* 5.41

* 5.62

* 5.91

* 5.9
  31.81
                                               * 1.64
  34.21
                                                    # [ 4
                                                         * 2.13
  37.41
  41.2
  45.01
  49.51
  54.71
  60.41
  66.81
  73.91
  81.61
  70.51
100.11
 111.05
123.81
137.91
153.91
172.51
                                                                                                                                                 € 5.95
                                                                                                                                                    ¥ 6.08
                                                                                                                                                       # 6,21
# 6.29
193.61
 217.31
244.91
                                                                                                                                                          # 6.36
 276.21
                                                                                                                                                            * 6.47
+ 6.47
312.01
353.61
                                                                                                                                                              # 6.50
401.71
                                                                                                                                                              £ 6.53
457.31
522.01
                                                                                                                                                               * 6.56
                                                                                                                                                               # 6.58
597.53
                                                                                                                                                                * 6.5
         175
                                                                GRAMS
                                                                                                                            5
                                                                                                                                                  i
UNIVERSITY OF MAINE RAPID SEDIMENT AWALYZER
04-61-2005
SAMPLE NUMBER: K0033
WATER TEMP.: 21
PHI
                  TIME
                                   TIME
                                                     INTERVAL.
                  EXPECT
                                   OBSERV
                                                     WEIGHT: GRAMS
 -1.00
                  7.20
8.25
                                   7.30
                                                    0.01
 -0.75
                                                    0.01
                                   9.62
                  9.51
11.03
 -0.50
                                   9.88
                                                    0.00
 -0.25
                                  11.14
                                                    0.12
                 12.89
15.14
17.95
  0.00
                                  13.47
                                                    0.25
  0.25
0.50
                                  15.59
19.18
                                                    0.29
                                                   0.25
  8.75
                  21.45
                                  22.02
                  25.85
                                  25.86
31.69
  1.00
                                                    0.20
                  31.45
                                                    0.20
                                 38.66
48.27
61.18
                                                   0.57
0.93
0.73
  1.50
                 38.67
49.00
  2.40
                 å0.49
                77.07
99.49
130.15
                                  77.06
99.47
  2.25
                                                    0.63
  2.50
2.75
                                                   0.62
                                 130.22
                                                    8.54
  3.80
                172.49
                                 172,46
                                                    0.38
```

0.14

0.08

3.25

231.39

313.83

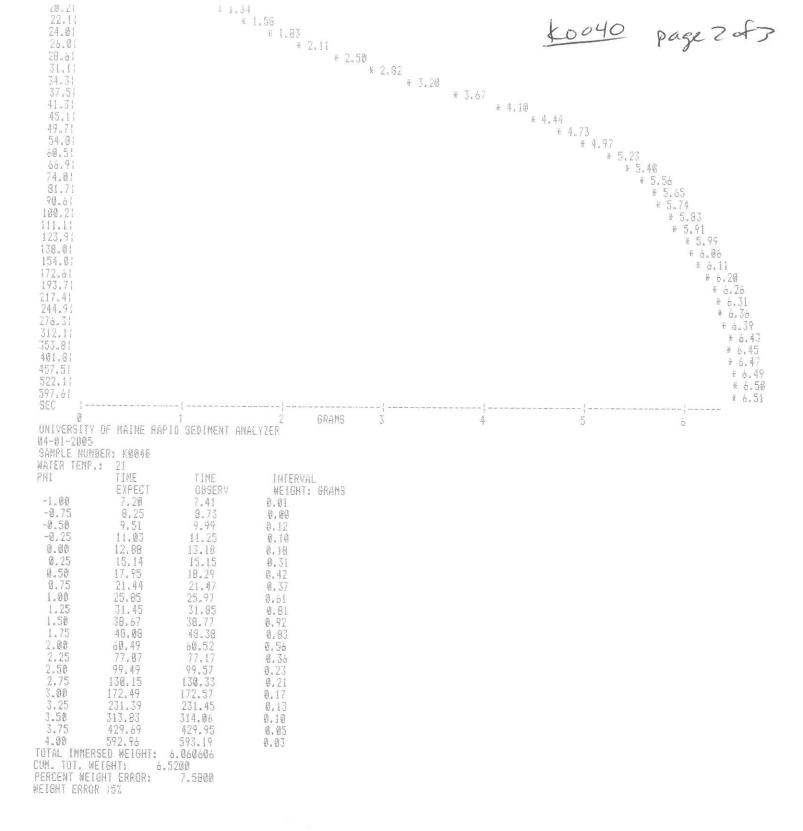
429.69

232.00 313.95 429.79

```
04-01-2005
SAMPLE NUMBER: K0033
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
      13%
PHI
-1.00 * 0.15
-0.75 + 0.30
-0.50 * 0.30
-0.25 # 2.12
             * 5.92
+0.00
                 # 10.17
+0.25
                      ¥ 13.96
+0.50
                           * 18.51
+0.75
                               # 21.55
+1.00
                                  # 25.49
+1.25
                                            # 34.14
11.50
+1.75
                                                           * 4B.25
                                                                        * 59.33
+2.00
                                                                                  # 68.89
+2.25
+2.50
+2.75
                                                                                             * 78.30
                                                                                                     * 86.49
                                                                                                            ₹ 92.26
+3,00
+3.25
                                                                                                                € 96.05
+3,50
                                                                                                                  * 98.18
+3.75
                                                                                                                   # 99.39
                                                                                                                     *100.00
+4.00
       5.0000% =
PHI
                    -0.0605
PHI
      16.0000% =
                    0.5120
                    1.2188
1.7894
       25.00001 =
PHI
PHI
       50.0000% =
                     2.4123
PHI
      75.0000% =
                     2.5739
3.1805
      84.0000% =
PHI
PHI
      95.00001 =
            -0.7500 PHI
M00E=
                                 0.3035 CUM WT%
            0.7500 PHI
0.7500 PHI
1.7500 PHI
                               10.1669 CUM WTZ
18.5129 CUM WTZ
48.2549 CUM WTZ
MODE=
#00E=
M00E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                          1.6918
GRAPHIC MEAN:
                                          : MEDIUM SAND
INCL GRAPH STD DEV:
                          1.0055
                                              POURLY SURTED
INCL GRAPH SKEWMESS:
                                          : CDARSE SKEWED
                         -0.141B
GRAPHIC KURTUSIS:
                                              LEPTOKURTIC
                          1.1129
NORMALIZED KURTOSIS:
                          0.5267
FOLLOWING ARE PARAMETERS BY THE NETHOD OF MOMENTS:
HEAN X=
                      1.8505
VARIANCE=
                       0.7181
SKEWMESS=
                      -0.3503
STD DEVIATION=
                      0.9582
KURTOSIS=
                       2.6421
```

K0040 page (of3

```
5.51 + 0.00
6.21 + 0.06
6.81 + 6.86
 7.41 # 0.01
8.11 * 0.01
8.71 * 0.00
9.31 * 0.05
10.01
         # 0.12
10.51
          # 0.16
            * 0.25
* 0.48
                      # 0.61
14.41
                           # 8.79
15.81
17.01
                               E 0.96
```



```
04-01-2005
 SAMPLE NUMBER: K0040
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
        Ø %
                                                                                                                                100%
        PHI
 -1.00 # 0.15
-0.75 + 0.15
-0.50 + 1.99
-0.25 + 3.53
               ₩ å.29
 +0.00
                     # 11.84
 +0.25
                            # 17.48
 +0.50
                                   * 23.16
+0.75
 +1.00
                                                * 32.52
+1.25
                                                               # 44,94
 +1.50
                                                                                # 59.05
                                                                                                               37

* 85.89

* 89.42

* 92.44

* 95.25

* 97.7
+1.75
                                                                                               € 71.78
                                                                                                         ¥ 90.37
+2.00
+2.25
+2.50
+2.75
 +3.00
                                                                                                                             * 97.24
* 99.77
£ 99.54
+3.25
+3.50
+3.75
+4.00
                                                                                                                                 *100.00
PHI
        5.0000% = -0.1167
       16.0000X = 0.4424
25.0000X = 0.7992
50.0000X = 1.3397
PHI
PHI
PHI
PHI
       75.0000% =
                       1.8438
PHI
             000% = 2.1644
000% = 2.9765
-1.0000 PHI
       94.0000% =
PHI
       95.0000% =
                                   0.1534 CUM WT%
1.9939 CUM WT%
17.4847 CUM WT%
M00E=
MODE=
             -0.5000 FHI
              0.5000 PHI
1.5000 PHI
MODE=
HODF=
                                   59.0491 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 1.3155 : MEDIUM SAN INCL GRAPH STD DEV: 0.8992 : MODERATEL
                                                  MEDIUM SAND
                                                   MODERATELY SORTED
INCL GRAPH SKEWMESS:
                             8.0001
                                              : NEAR SYMMETRICAL
                             1.2136
0.5482
GRAPHIC KURTUSIS:
                                               : LEPTOKURTIC
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                         1.4720
MEAN X=
VARIANCE=
                         8.7890
SKEWMESS=
                         0.1941
STD DEVIATION=
                         0.8877
KURTOSIS=
                         3.1114
```

Koo41 page los 2

```
5.21 * 0.04
5.91 * 0.04
   5.51
7.21
          # 0.03
          * 6.64
    7.81
          # 0.03
   8.41 + 9.02
   9.11
          * 0.03
           # 8.84
  10,41
           # 0.05
  11.51
           * 6.16
  12,91
            * 0,16
  14.21
             # 0.19
  15.51
              ĕ 0.25
  16.81
               ¥ 9.32
  18.01
                  # 0.37
  19.91
                  * 9,44
                    # 0.49
  23.84
25.74
                     ¥ 0.50
                      ¥ 0.61
                       ž 0.60
  30.91
                         # 0.71
  34.04
                          # 0.76
  37.21
                          # 0.80
  41.1
                           # 0.85
  44.91
                            # 0.89
  49.41
                              £ 0.95
  54.51
                                # 1.04
  60.31
                                        $ 1.39
                                                          * 2.23
* 2.55
* 2.89
  66.71
73.71
                                                # 1.78
                                                                                   # 3.32
# 3.74
# 4.13
# 4.56
# 4.81
# 5.11
# 5.35
# 5.54
# 5.6
  90.35
100.01
110.8
(23.71
137.81
153.71
172.31
193.41
217.13
244.61
276.01
311.91
                                                                                                                                         ¥ 5.66
                                                                                                                                            ¥ 5.76
≠ 5.85
                                                                                                                                              * 5.90
* 5.94
* 5.99
353.51
401.5
457.21
521.81
                                                                                                                                                 8 6.00
597.41
                                                                                                                                                 * 6.97
                                                               GRAMS
                                                                                                    13
                                                                                                                          5
                                                                                                                                                 ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 84-01-2005
SAMPLE NUMBER: KODAI
WATER TEMP.: 21
PHI TIME
                                   TIME
                                                    INTERVAL
                 EXPECT
                                   OBSER!
                                                    WEIGHT: GRAMS
                  7,20
8.25
9.51
 -i.00
                                   7.19
                                                   0.04
 -0.75
-0.50
                                  9.45
9.72
                                                   0.00
                                                   0.02
 -0.25
                  11.03
                                 11.64
                                                   0.Vá
                 12.88
15.14
  0.00
                                                   0.06
  0.25
                                  15.48
                                                   0.09
  0.50
                 17.95
                                 19.01
                                                   0.12
  0.75
                 21.44
                                  21.06
                                                   8.12
                 25.85
31.45
  1.80
                                 26.36
31.52
                                                   0.13
  1.25
                                                   0.10
  1.50
1.75
                                 39.16
49.11
                 38.67
48.00
                                                   0.12
                                                   0.11
                 60.49
77.07
                                 68.96
77.55
  2.00
                                                   0.47
                                                   0.97
  2.50
2.75
                 99.49
                                 99.96
                                                   0,93
               130.15
                                130.72
                                                   1.00
                                173.12
231.84
314.44
  3.00
                                                   0.81
                                                   9.47
```

3,50

3.75

313.83

429.69

429.68

₩.26

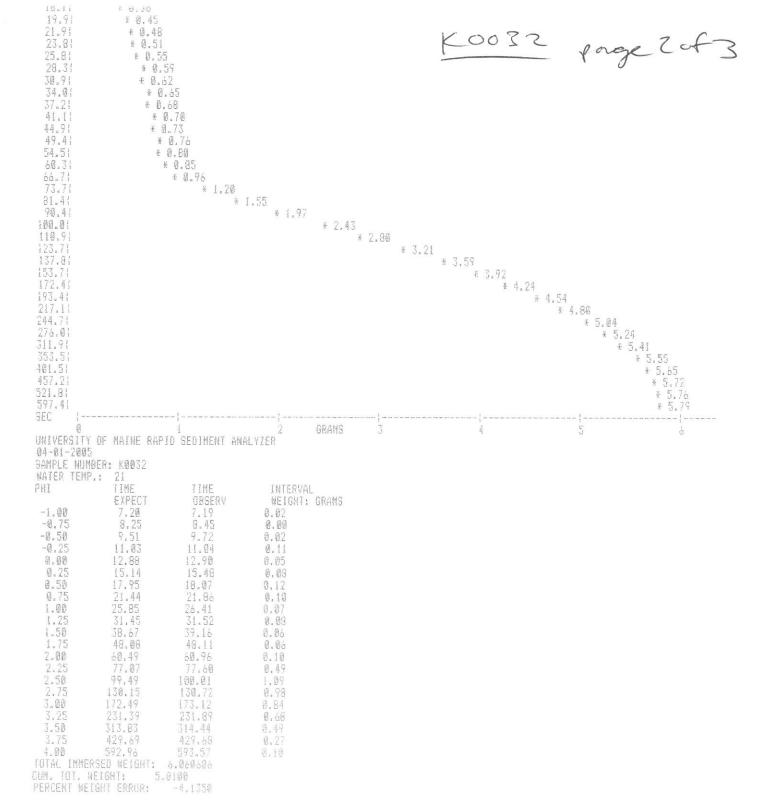
0.10

K0041 pag 2 of 2

```
04-01-2005
 SAMPLE NUMBER: K0041
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                   50%
 PHI
 -1.00 * 0.65
-0.75 # 0.66
-0.50 # 0.99
        * 0,99
 -0.25
         * 1.99
 +8.60
          * 2.98
+0.25
+0.50
            + 4.47
              # 6,46
+0.75
                £ 8.44
+1.06
+1.25
+1.58
                     # 10.60
                     # 12,25
                        ¥ 14.24
+1.75
+2.00
                          # 16.06
                                     # 23.84
                                                        # 39.90
+2.50
+2.75
                                                                          * 55,30
                                                                                              £ 71.85
                                                                                                              * 85.25
* 93.05
* 9
 +3.00
+3.25
+3.50
+3.75
                                                                                                                            * 97.35
* 99.01
+4,86
                                                                                                                                #108.09
        5.00001 =
                      0.3167
                      1.7419
2.8166
2.4148
PHI
      16.0000% =
       25.0000% = 50.0000% =
PHI
PHI
                        2.4140
                      2.9698
2.9784
3.3635
PHI
       75.0000% =
PHI
      84.0000% =
     95.00002 =
PHI
M08E=
             -1.0000 PHI
                                    0.4623 CUM WIX
M00E=
             -0.2500 PHI
                                   1.984B CUH WT%
HODE=
              0.5000 PHI
                                    6.4570 CUH WT%
                                   10.5940 CUM WT%
MODE=
              1.0000 PHI
              1.5000 PHI
HODE=
                                   14.2384 CUM WT%
              2.2500 PHI
2.7508 PHI
                                   39.9007 CUM WT%
71.8543 CUM WT%
#00E=
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC NEAM: 2.3774 : FINE SAND INCL GRAPH STD DEV: 0.7703 : MODERATELY
                                              : MODERATELY SORTED
INCL GRAPH SKEWNESS:
                           -0.2328
                                             : COARSE SKEWED
GRAPHIC KURTUSIS:
                            1.5794
                                              : VERY LEPTOKURTIC
MORMALIZED KURTOSIS:
                            9.6123
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN X= 2.3866
VARIANCE=
                        0.7639
SKEWNESS=
                       -1.3371
STD DEVIATION=
                       0.8740
KURTOSIS=
                        5.1215
```

K0032 page (0+3

5.31 # 0.01 5.91 * 0.01 7.21 * 0.02 7.81 * 0.01 6.81 * 0.00 9.71 * 0.02 10.41 * 0.09 11.42 * 0.11 12.91 * 0.18 14.21 * 0.22 15.51 * 0.22 16.81 * 0.37



```
84-81-2005
SAMPLE NUMBER: K0032
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       84
      4.34

8.34

* 6.59

* 2.58

* 3.44

* 4.82

* 5.58

# 8.41

* 7.81

* 11.19

* 12.27

* 17
-1.00 ± 0.34
-0.75 ± 0.34
-0.50 ± 0.69
-0.25
+0.00
+0.25
+0.50
+0.75
+1.250
+1.250
+1.70
+1.70
+2.250
+2.70
+2.70
                     * 13.25
* 14.97
                                                             # 42.17
                                                                                    * 59,04
                                                                                                      * 73,49
                                                                                                                     e 85.20
                                                                                                                                 # 93.63
                                                                                                                                      * 98.28
                                                                                                                                         *100.00
    5.0000% = 0.2717
16.0000% = 2.0364
25.0000% = 2.2712
50.0000% = 2.6161
75.0000% = 3.0322
3.2244
PHI
PHI
PHI
PHI
PHI
       34.0000% =
                       3.2244
3.5736
      95.0000% =
PHI
MODE=
             -1.0000 PHI
                                       0.3442 CUH WT%
                                     2.5818 CUM WTZ
6.8947 CUM WTZ
11.1876 CUM WTZ
              -0.2500 PHI
M00E=
              8.5000 PHI
#00E=
               1.2500 PHI
2.5000 PHI
M00E=
                                      42.1687 CUM WT%
HODE=
FOLLOWING ARE THE FOLK-WARD STATISFICAL PARAMETERS:
                         2.6236 : FINE SAND
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                              0.7988
                                                 # MODERATELY SORTED
                                                  : COARSE SKEWED
INCL GRAPH SKEWNESS:
                            -0.2005
                                                 : VERY LEPTOKURTIC
GRAPHIC KURTUSIS:
                             1.7783
NORMALIZED KURTOSIS:
                             9.5491
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                2.5871
MEAN X=
VARIANCE=
                          0.8497
                        -1.5234
0.9210
SKEWNESS=
STO DEVIATION=
KURTOSIS=
                          5.3904
```

K0035 page 10+3

```
10.91 * 0.02
  12.11 * 8.10
                                                                         K0035 page 2 of 3
          # 0.19
 13.41
              ¥ 0.35
 14.71
 16.01
                 # Ø.50
 17.21
18.51
                   * 0.62
                     * 0.71
                        # 0.83
  20.41
                        # 0.91
 22.41
                         # 0.97
  24.31
                          # 1.02
 24.23
                           * 1.0d
  28.81
 31.31
                            # 1,10
                            # 1.12
                            £ 1,14
                             * 1.17
 41.61
                             ¥ 1,19
 45.41
                              * 1.23
 49.91
                                   £ 1.27
 55.01
 69.71
 67.21
 74.21
 81.91
 90.91
100.41
111.31
124.15
138.21
154.21
172.81
217.6
245.11
276.51
312.41
353.91
                                                                                                                  * 5.53
407.01
457.71
522.31
597.91
                                                                                                                  # 5.62
                                                                                                                    ₹ 5.70
                                                                                                                     * 5.75
* 5.76
                                                     GRAMS
                                                                                    4
                                                                                                       5
                                                                                                                          ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
94-91-2095
SAMPLE NUMBER: KØØ35
WATER TEMP.: 21
PHI TIME
                             TIME
PHI
                                            INTERVAL
               EXPECT
                             OBSERV
                                            WEIGHT: GRAMS
                             7.63
                                           0.00
 -1.00
                7.20
               8.25
9.51
 -0.75
                             8.29
                                           0.01
 -0.50
                             9.55
                                           0.00
 -0.25
               11.03
                            11.47
                                           8.84
              12.89
15.14
                            13.40
15.32
                                           0.15
  0.00
                                           8.24
  0.25
  0.50
               17.95
                            18.50
                                           0.28
                            21.69
26.19
32.02
               21.44
                                           0.17
  0.75
               25.85
31.45
  1.00
                                           0.14
  1.25
                                           9,89
                            38.99
                                           0.04
  1.50
               38.67
  1.75
               49.08
                            40.60
                                           0.67
  2.00
              60.49
                            60.74
                                           0.20
              77.07
99.49
                            77.39
99.79
  2.25
                                           0.39
                                           0.66
  7.50
                            130.55
  2.75
              130.15
                                           0.83
  3.00
              172.49
                           172.79
                                           0.83
              231.39
313.83
                           231.67
314.28
                                           0.74
0.52
  3.25
  3.50
  3.75
              429.69
                           439.12
                                           0.27
              592.96
                           593.41
                                           0.12
  4.00
TOTAL INMERSED WEIGHT:
CUM. TOT. WEIGHT: 5
                         6.030606
```

-4.4650

PERCENT WEIGHT ERROR:

```
04-01-2005
 SAMPLE NUMBER: K0035
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                                                                                                                                                                                                                                                       100%
                                                                                                                                                                              50%
                 10 11
                    AND THE REAL PROPERTY 
 -1.80 * 9.60
 -0.75 * 0.17
-0.50 * 0.17
-0.25 * 0.86
 +0.00
                      ž 3.45
                                            * 7.60
+0,25
+8.50
+0.75
                                                         # 12.44
                                                                 # 15.37
                                                                        # 17.79
# 19.34
 +1.00
+1.25
+1.50
                                                                                * 20.03
                                                                                    # 21.24
 +1.75
 +2.00
                                                                                                  ¥ 24.76
                                                                                                                    # 31.43
                                                                                                                                                           £ 47.83
 +2.50
                                                                                                                                                                                                        # 57.17
 +2.75
                                                                                                                                                                                                                                                        # 71,50
 +3.00
+3.25
+3.50
+3.75
+4.00
                                                                                                                                                                                                                                                                                              # 84,28
                                                                                                                                                                                                                                                                                                                         # 93.26
# 97.93
                                                                                                                                                                                                                                                                                                                                                *100.09
                   5.0000% =
16.0000% =
PHI
                                                           0.0932
                                                           0.8150
 PHI
 PHI
                   25.0000% =
                                                             2.0112
                 50.0000% = 75.0000% = 84.0000% =
                                                             7.6250
3.0684
 PHI
 PHI
 PHI
                                                                3.2445
                 95.0000% = 3.5°
-0.7500 PHI
                                                                3.5931
PHI
                                                                                            9.1727 CUH WT%
12.4352 CUM WT%
 MODE=
                                     0.5000 PHI
 H00E=
                                       3.0000 PHI
                                                                                             71.5026 CUN WT%
  HODE=
 FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                                                                                     : FINE SAND
: POORLY SORTED
                                                                       2.2282
  GRAPHIC MEAM:
 INCL GRAPH STD DEV:
                                                                            1.1376
                                                                                                                          : STRONGLY COARSE SKEWED
  INCL GRAPH SKEWNESS:
                                                                          -0.4694
                                                                                                                          : LEPTOKURTIC
 GRAPHIC KURTUSIS:
                                                                          1.3548
  NORMALIZED KURTOSIS:
                                                                             0.5757
 FOLLOWING ARE PARAMETERS BY THE METHOD OF HOMENTS:
                                      2.4468
  MEAN X=
 VARIANCE=
                                                                   1.1539
                                                                -1.0016
  SKEWNESS=
 STD DEVIATION=
                                                             1.0742
  KURTOSIS=
                                                                   2.9703
```

```
5.31 + 0.03
    6.Bi
          4 0.03
          # 0.03
    0.01
          # 0.03
          £ 0.03
    3.61
          # 0.03
   7.21
          # 0.03
    9.81
          # 0.63
  10.51
          # 0.06
  11.8:
           # 0.16
            # 0,22
  13.01
               ¥ 程,34
                   + 4.48
                    F 0.40
  18.11
                      * 15. 76
  20.01
                          # 4.86
                                 .99
.1.12
* 1.22
* 1.36
* 1.48
* 1.67
* 1.92
  22.81
23.91
25.81
                             F 6.79
                               # 1.12
  30.71
                                                          ¥ 2.33
  45.81
                                                                     # 7.83
                                                                                         * 3.84
* 4.22
* 4.48
* 4
  49.5
                                                                                 * 3.39
  54.71
  60.41
                                                                                                           .48
# 4.69
# 4.87
# 5.96
 66.81
73.8;
  81.51
  90.5
 100.11
                                                                                                                       # 5.21
 118.91
                                                                                                                          * 5,35
123.71
137.91
153.81
172.41
                                                                                                                             + 5.48
                                                                                                                              ¥ 5.59
                                                                                                                                 * 5.64
* 5.73
* 5.79
193.61
217.21
                                                                                                                                    # 5.84
244.71
                                                                                                                                     # 5.88
 276.11
                                                                                                                                      # 5.92
312.01
                                                                                                                                       £ 5.95
353.51
                                                                                                                                       * 5.98
461.51
                                                                                                                                        # 6.00
457.33
                                                                                                                                        * 6.02
522.01
597.51
                                                                                                                                        * 5.04
                                                                                                                                         ¥ á.Øá
SEC
             1 2 GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-61-2005
SAMPLE NUMBER: K0030
WATER TEMP.: 26
PHI
                TIME
                                TIME
                                                 INTERVAL
                EXPECT
                                 OBSERV
                                                 WEIGHT: GRAMS
                 7.21
8.26
 -1.80
                                 7.25
                                                0.03
 -0.75
                                9.56
                                                9.00
                               9.83
11.89
 -0.50
                 9.53
                                                0.00
                11.05
 -9.25
                                                0.06
                               13.01
15.54
  0.00
                12.91
                                               0.13
 0.25
0.50
                15,19
                                                0.26
                18.01
                               18.12
21.97
26.52
                                               0.22
0.29
                21.54
25.98
31.65
  9.75
  1.00
                                               0.27
                               31.63
                                                0.26
  1.50
                38.96
                                               0.61
                               48.88
                48.50
                                               1.13
0.94
  2.00
               61.11
77.98
  2.25
                               78.32
                                                0.54
  2.50
2.75
               100.84
                              100.89
                                                0.43
                              132.49
               132.14
                                                4.33
                              175.59
235.79
                                               0.19
  3.00
              175.41
               235.67
320.09
  3.25
                                                0.13
```

0.09

3.50

K0030 PAR ZOFZ

```
04-01-2005
 SAMPLE NUMBER: K0030
CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                                      1001
PHI
-1.00 * 0.50
-0.75 * 0.50
-0.50 * 0.50
           1.49

* 3.63

* 7.92

* 11.55

* 1/
-0.25 # 1.49
 +0.00
+0.25
 +0.50
+0.75
                         # 16.34
+1.88
                               # 20.79
                                   # 25.88
+1.25
+1.58
+1.75
                                               * 35.15
                                                                     # 54.42
                                                                                               * 79.04
* 86.14
                                                                                      # 78.13
+2.00
+2.75
                                                                                                              # 91.58
43.00
                                                                                                                  * 94.72
                                                                                                                   * 96.86
* 98.35
+3.25
+3.50
+3,75
                                                                                                                      # 99.34
+4.00
                                                                                                                        #100.00
PHI
       5.0000% =
                     0.0798
       16.0000% = 25.0000% =
                      0.7324
PHI
PHI
                      1.6787
PHI
       50.0000% =
PHI
       75.6000% =
                      2.1366
PHI
       84.6000% =
                       2.4247
      95.0000% =
PHI
                       3.0327
MODE=
            -1.0000 PHI
                                  9.4950 CUM WIT
             0.2500 PHI
0.7500 PHI
                                 7.9208 CUM WT%
16.3366 CUM WT%
MODE=
MODE=
             1.7500 PHI
#00E=
                                 54.6205 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                          1.6159
                                      : MEDIUM SAND
                           9.8795
INCL GRAPH STD DEV:
                                            : MODERATELY SORTED
INCL GRAPH SKEWNESS:
                          -0.1118
                                               COARSE SKEWED
                                           3 11
                          1.3577
GRAPHIC KURTOSIS:
                                            : LEPTOKURTIC
HORNALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN 1=
                     1.7644
                      8.7278
-0.2454
VARIANCE=
SKEWNESS=
STD DEVIATION=
                      0.8531
KURTOSIS=
                       3.3160
```

Kooze page lat 3

5.31 * 0.00 6.21 * 0.00 5.31 * 0.00 7.51 * 0.00 9.11 * 0.00 9.41 * 0.01 10.81 * 0.87 11.91 * 0.87 11.91 * 0.16 13.21 * 0.16 14.41 * 0.25 15.81 * 0.39 17.01 * 0.39

```
6 8./3
8 8.84
   20.21
   22.11
24.01
                                                                                                                   Kooze page 205)
                               # 0.74
                                  * 1.83

* 1.15

* 1.35

* 1.79

* 2.28
   26.01
                                 * 1.83
   28.61
   34.31
37.51
  41.31
                                                                    # 2.61
                                                                              x 3.89
x 3.58
   49.71
  54.83
                                                                                                   # 3,99
  60.61
66.91
                                                                                                          # 4.30
                                                                                                                * 4.56
# 4.78
  74.01
                                                                                                                        * 4.95
* 5.13
  90.61
 180.21
 111111
 139.01
                                                                                                                                      ₹ 5,57
 154.91
                                                                                                                                         ž 5.65
 172.51
193.71
                                                                                                                                          * 5.71
* 5.77
 217.41
                                                                                                                                            ₽ 5.82
₹ 5.86
 244.91
 276.31
                                                                                                                                            # 5.98
# 5.94
# 5.97
 312.11
 353.81
 401.91
                                                                                                                                               * 6.00
 457.51
                                                                                                                                               # 6.01
 522.11
                                                                                                                                                ¥ 6.83
 597.61
                                                                                                                                                 £ 6.04
                                                              GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0026
WATER TEMP.: 20
PHI
                  TIME
                                   TIME
                  EXPECT
                                   OBSERV
                                                    WEIGHT: GRAMS
 -1.80
                  7.21
9.26
7.53
                                   7.46
9.73
                                                   0.00
 -0.75
-0.50
                                                   0.01
                                  9.99
11.25
                                                   0.62
  -0.25
                  11.65
                                                   9.02
                  12.91
15.19
18.81
  0.00
                                  13.18
                                                   0.11
                                 15.76
18.79
                                                   0.23
  9,75
  0.50
                                                   0.22
                                  22.13
25.97
   0.75
                  21.54
                                                   8.23
  1.00
                  25.98
31.65
                                                   0.19
                                  31.80
                                                   0.40
  1.50
                  38.96
                                  39,43
                                                   0.93
   1.75
                  49.50
                                 49.94
                                                   1.15
                 41.11
77.99
                                 61.35
78.40
  2.00
                                                   0.81
  2.25
                                                   0.56
                100.84
                                101.05
                                                   0.38
                132.14
175.41
235.67
                                132.26
175.76
235.95
                                                   8.27
                                                   0.18
                                                   0.13
  3.50
3.75
                                320.43
438.98
                320.00
                                                  0.10
                438.76
                                                   8.06
  4.00
                505.05
                                606.65
                                                  0.83
TOTAL IMMERSED WEIGHT: 6.060006
CUM. TOT. WEIGHT: 5.0400
```

PERCENT WEIGHT ERROR:

-0.3400

```
04-01-2005
SAMPLE MUMBER: K0026
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                  58%
                                                                                                                             100%
PHI
-1.00 ± 0.00
-0.75 ± 0.17
-0.50 ± 0.50
 -0.25 * 0.83
 +0.00
         * 2.45
              # 6.46
 +0.25
                   * 10.10
 t0.56
+0.75
                       # 13.91
                            * 17.95
 +1.00
                                    ¥ 23.68
+1.25
+1.58
                                                      # 39.07
                                                                                                       * 58,28
+2.00
+2.25
+2.50
+2.75
                                                                                              * 71.69
+3,00
+3.25
                                                                                                                           # 94.85
+3.75
                                                                                                                               # 99.50
+4.80
                                                                                                                               #100.00
PHI
        5.0000% =
                      0.1543
       15.0000% =
15.0000% =
PHI
                      0.9163
                       1.2715
PHI
                       1.6422
PHI
       50.0000% =
PHI
       75.0000% =
                       2.0893
                      7.3709
3.0346
PHI
       84.0000% =
PHI
       75.0000% =
             0.2500 PHI
0.7500 PHI
1.7500 PHI
#0DE=
                                  6.4570 CUN WT%
13.9073 CUN WT%
50.2701 CUN WT%
#80E=
M00E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 1.6431 ; MEDIUM SA
                                             : MEDIUM SAMU
INCL GRAPH STD DEV:
                                                  MODERATELY SORTED
                            0.8000
INCL GRAPH SKEWNESS:
                           -0.0157
                                              : NEAR SYMMETRICAL
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
                            1.4435
                                              # LEPTOKURTIC
                            9.5907
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN x=1.7653
VARIANCE=
                         0.6427
                        -0.0744
SKEHNESS=
STO DEVIATION=
                        0.8017
KURTOSIS=
                         3.3979
```

```
1.11 = 0.02
5.11 × 0.02
          5.71 E 0.01
          7.41 2 0.01
          9.61 7 9.81
         9.31 a 0.61
9.91 ± 0.02
      10.51 # 0.01
      11.8( # 8.8)
       13.11 7 0.05
      14.41
                             * 0,10
      15.d: # 0.06
      16.91 * 8.02
      18.21 + 0.05
      20.14 $ 8.05
                             8 0.98
                               # 0.10
                               * 0.13
                                            8.26

8.36

8.36

8.40

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8.40

 180.21
111,14
123,81
137.9;
 153.91
172.51
193.61
217.31
 244.91
276.21
 312.01
 353.7
 401.71
457.41
522.01
597.61
 SEC
                                                                                                                                                                                 SRAMS
                                                                                                                                                                                                                                                                                                                                                        5
UNIVERSITY OF MAINE RAPID SEDIMENT AMALYZER
04-01-2005
SAMPLE NUMBER: K0049
WATER TEMP.: 23
PHE TIME
PHI
                                                                                                  TIME
                                                                                                                                                    INTERVAL
                                                  EXPECT
                                                                                                                                                    WEIGHT: GRAMS
                                                                                                  OBSERV
                                                    7.18
8.23
   -1.00
                                                                                                  7.36
                                                                                                                                                 0.01
  -0.75
                                                                                                  9.42
                                                                                                                                                 0.00
  -0.50
                                                   9.48
                                                                                                9,94
                                                                                                                                                 0.01
                                                  18.99
    -0.25
                                                                                               11.20
                                                                                                                                                 0.00
                                                                                              13.07
     0.00
                                                 12.82
                                                                                                                                                 0.04
                                                15.06
17.82
      0.25
                                                                                                                                                 0.03
     0.50
                                                                                              18.23
                                                                                                                                                0.00
                                                21.26
25.59
31.89
      0.75
                                                                                               21.42
                                                                                                                                                 0.07
     1.80
                                                                                              25.92
                                                                                                                                                0.03
      1.25
                                                                                               31.69
                                                                                                                                                9.07
                                               36.13
47.28
59.31
75.33
                                                                                             30.11
47.47
59.81
75.85
      1.50
                                                                                                                                               0.06
     1.75
                                                                                                                                                9.12
                                                                                                                                               0.16
                                                                                                                                                0.64
      1.50
                                               96.92
                                                                                             96.94
                                                                                                                                               0.84
       2.75
                                              126.36
                                                                                                                                               0.70
                                                                                           124.43
                                                                                          167.35
223.71
      3.00
                                            166.89
                                                                                                                                               0.65
      3.25
                                             223.18
                                                                                                                                                8.45
      3.50
                                            301.85
                                                                                           302.47
                                                                                                                                               0.50
      3.75
                                             412.39
                                                                                           412.54
                                                                                                                                               0.65
                                            567.83
                                                                                         568.14
     4.00
                                                                                                                                               0.47
```

azaza

K0049 page 2082

```
94-01-2005
SAMPLE MUMBER: K0049
CUMULATIVE CURVE OF DATA
MEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       0%
                                                            50%
                                                                                                                  1001
           PHI
-1.00 = 0.13
-0.75 ± 0.19
-0.58 ± 0.35
-0.25 ± 0.35
 +0.00 * 1.06
+0.25
+0.50
        # 1,59
        * 1.59
+0,75
        € 1,95
        * 2.48
* 3.72
* 4.78
 +1.00
+1.25
+1.50
+1.75
              # 6.90
                 £ 9.73
+2.25
                              # 21.06
+2.50
                                              # 35.93
+2.75
                                                               £ 51,86
+3.00
                                                                           ¥ 63.36
+3.25
                                                                                   # 71.33
+3.50
                                                                                              # 98.18
+3.75
                                                                                                          £ 91.68
+4.88
                                                                                                                   #188.88
PHI
       5.0000% =
PHI
       15,0000% =
                      7,1383
PHI
       25.0000% =
                     2.3162
PHI
                     2.7208
3.3537
       50.0000% =
      75.0000% =
PHI
                      3.5831
3.9497
PHI
      94.0000% =
PHI
      95.00002 =
M00E=
            -1.0000 PHI
                                 0.1778 CUH WT%
M00E=
            -0.5000 PHI
                                0.3540 CUH WTL
HODE=
             9.9000 PHI
                                 1.8619 CUM WT%
M00E=
             1.7500 PHI
                                 3.7168 CUM WT%
             2.7500 PHI
                                51.9584 CUM WT%
MODE=
M00E=
             3.7500 PHI
                               91.4814 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                          2.8141
                                         : FIME SAMO
INCL GRAPH STD DEV:
                          0.7133
                                             MODERATELY SORTED
ENCL GRAPH SKEWNESS:
                          B.8826
                                          : MEAR SYMMETRICAL
GRAPHIC KURTOSIS:
                          0.9179
                                          : MESOKURTIC
MORMALIZED KURTOSIS:
                          0.4786
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                      2.8743
0.5864
MEAN I=
VARIANCE=
SKEWHESS=
                      -0.9962
STD DEVIATION=
                     0.7650
KURTOSIS=
                      5,5403
```

K0047 page 1 of 3

5.21 * 0.00 5.91 * 0.00 6.51 * 0.00 7.21 * 0.00 7.31 * 0.00 8.41 * 7.00 9.11 * 0.00 10.41 * 0.00 10.41 * 0.00 10.41 * 0.00

```
14.21 # 0.00
15.51 * 0.01
                            KOO47 page Zof 3
   16.81 # 0.01
   19.01 * 0.01
   19.91 £ 0.83
   21.91
       X-0.11
   23.81
      E-0.14
   25.71
       ē-0.13
       7-11.11
   30.81
       4-0.10
   34.01
        4-9-67
   37.21
       E-13 . 13 4
  41.11 * 0.00
  44.9; # 0.02
  49.41 % 0.86
  54.51
           8-49,11
  60.34
            # 0.15
                 15

1.22

0.25

# 0.71

* 1.27

# 1.71

* 2.21

* 2.72

* 2.95

# 3.36

# 3.84

* 4.12

* 4.38

* 4.38
  66.71
73.71
             # 0.22
               # 0.29
  31.41
  70.31
 100.01
 110.85
123.61
137.81
153.71
171.31
 193.41
276.01
 353.54
 901.51
                                                                                                               36
# 4.63
# 4.82
457.21
521.81
 597.41
                                                                                                                        # 4,98
                                                              GRANG
                                                                                                  1
UNIVERSITY OF MAINE RAPIO SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0047
WATER TEMP,: 23
PHI TIME
                                   TIME
                                                    IMTERVAL
                  EXPECT
                                   OBSERV
                                                    WEIGHT: GRAMS
                  7.18
                                   7.19
 -1.00
                                                   6.00
 -0.75
                                   9,45
                                                   0.00
 -0.50
                  9.48
                                  9.72
                                                   0.00
  -0.25
                  18.99
                                  19.98
                                                   6.09
                 12.82
                                 12.90
15.48
  0.00
                                                  0.00
                  15.06
  0.15
                                                   0.01
  0.50
                 17.82
                                 18.81
                                                  0.00
                 21.25
25.59
                                 21.25
25.76
31.63
   9.75
                                                   9.99
  1.00
                                                  0.00
                  31.00
   1.25
                                                   0.04
  1.50
                                 38.50
47.45
                 38.13
                                                  0.04
                 47.28
                                                   0.07
                                 59.44
75.43
97.38
  2.45
2.25
                 59.31
75.33
                                                  0.11
                                                  0.17
                96.92
126.36
                                                  0.57
9.77
  2.50
                                126.97
167.19
223.54
302.25
   2.75
  3.00
3.25
                146.89
                                                  0.74
                223.19
                                                  0.67
  3.50
3.75
                301.85
                                                  0.70
                412.30
                                412.39
                                                  8.66
107AL INMERSED WEIGHT: 6.06
                                567.92
                                                  0.50
                             6.060606
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR:
                             -16.3450
WEIGHT ERROR )5%
```

```
04-01-2005
SAMPLE NUMBER: KB047
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                                      1.00%
PHI
-1.00 ± 0.00
-0.75 ± 0.00
-8.50 ± 0.00
-0.25 t 0.00
+0.80 + 0.80
+0.25 + 0.29
+0.50 + 0.29
+0.75 € 0.20
+1.00 * 0.20
+1.25 ₹ 0.99
        ¥ 2,17
+1.50
+1.75
         # 2,17
# 3,55
# 5,71
# 9,87
+2.99
+2.25
+2.59
+2.75
                             £ 20.32
                                               £ 35,50
                                                               # 50.16
+3.00
+3.25
                                                                              # 63.31
                                                                                              # 77.12
                                                                                                            # 90.14
+3.75
+4.88
                                                                                                                        *199,00
PHI
       5.0000% =
                     1.9170
                     2.4040
2.5771
PHI
       16.0000% =
       25.0000% =
PHI
PHI
       50.0000% =
                      2.9983
PHI
       75.0000% =
                      3,4616
                     3.6321
3.8733
PHI
       34.0000% =
PHI
      95.00001 =
                                0.1972 CUM WT%
0.1972 CUM WT%
35.5030 CUM WT%
             0.2500 PHI
MODE=
             8.7500 PHI
2.7500 PHI
M00E=
MODE=
                                77.1203 CUM WTZ
#00E=
             3.5000 PHI
FOLLOWING ARE THE FOLK-MARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                          3.0115
                                     : VERY FIME SAND
INCL GRAPH STD DEV:
                           0.6034
                                            : MODERATELY WELL SORTED
INCL GRAPH SKEWNESS:
                                           : MEAR SYMMETRICAL
                          -0.0366
                                            : MESOKURTIC
GRAPHIC KURTOSIS:
                          0.9864
NORHALIZED KURTOSIS:
                           0.4755
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                       3.1831
VARIANCE=
                        0.3694
                      -0.6454
ekewhegs=
STD DEVIATION=
                       0.6979
KURTOSIS=
                       3,7838
```

K0045 Page 1 of 3

5.21 * 0.17 5.71 * 0.16 6.51 * 0.16 7.21 * 0.16 7.21 * 0.13 9.11 * 0.13 9.11 * 0.13 9.11 * 0.13

```
12.71
            1 13.10
   14.21
15.51
              4 0.14
                                                                                                       K0045 page 2 of 3
              * 0.20
               # 0,22
   16.81
   10.81
                # 0.26
   19.91
                # 0.34
   21.91
23.81
                  # 0.39
                   # 0.47
   25.71
                      # 8.56
   28.31
                       # 0.67
                          # 0.78
   30.91
   34.01
                               # 0.97
   37.21
                                      # 1.29
  41.11
                                                   # 1.84
   44.91
                                                                    # 2.51
                                                                                            * 3.62
# 3.94
  49.41
                                                                                  # 3.16
   54.51
                                                                                                        * 4.15
# 4.32
# 4.52
  ó0.3¦
  66.71
73.71
  81.41
                                                                                                                         # 4195
# 5136
* 517
                                                                                                                                   * 5.30

* 5.41

* 5.45

* 5.52

* 5.58

* 5.64

* 5.7
  90.31
  199.8
 110.01
 123.51
137.81
153.74
172.31
                                                                                                                                           * 5.64
* 5.75
* 5.75
* 5.82
* 5.85
* 5.9°
 193.4;
 244.61
 276.01
311.91
353.51
                                                                                                                                               * 5.89
* 5.91
 401.51
457.21
                                                                                                                                                £ 5.95
₹ 5.95
 521.84
 597.44
                                                                                                                                                 # 5.99
                                                       2 GRAMS 3
                                                                                   /<del>1</del>/<sub>Y</sub>
                                                                                                                           E;
 UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0045
WATER TEMP.: 23
                              TIME
OBSERV
FILE
                  TIME
                                                     INTERVAL
                  EXPECT
                                                     WEIGHT: GRAMS
  -1.00
                   7.18
                                   7.19
                                                    0.1á
  -0.75
-0.50
                   8.23
                                   9,45
                                                  0.00
                   9.48
                                                    0.61
                                  10.99
  -0.25
                  10.99
                                                  0.00
                 12.82
15.86
17.82
21.26
25.59
31.08
                                  12.90
15.48
  0.86
                                                  0.01
   0.25
                                                    8.87
                                                  0.06
  0.50
                                  18.01
   0.75
                                   21.83
                                                  0.13
                                  25.70
31.52
  1 . 00
                                                  0.17
0.25
   1.25
                 38.13
47.28
59.31
75.33
   1.50
                                  38.50
47.45
                                                  0.65
                                                  1.45
   7.90
                                  59.64
                                                    0.99
                                 75.63
97.43
   2.75
                                                  0.48
  2.50
2.75
3.00
                 96.92
                                                  0.88
                                126.82
167.19
                 126.35
                                                   ₫.21
                166.89
                                                   0.14
                 223.18
                                 223.49
   3.25
                                                  8.14
  3.50
3.75
                301.85
                                 302.25
                                                  0.09
                412.30
                                 412.39
                                                    8.06
  4.00
                567.83
                                 567.92
                                                   0.06
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 6.0200
```

PERCENT WEIGHT ERROR: -0.5700

```
04-01-2005
 SAMPLE NUMBER: K0045
 CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                              50%
                                                                                                                     100%
                                                              -------
PHI
         * 2.66
* 2.66
* 2.92
* 2.92
* 2.97
-1.00
 -0.75
-9.50
 -0.25
+0.00
           4 4.15
+0.25
            # 5.15
# 7.31
+0.50
+0.75
+1,00
                 # 10.13
+1.25
                       # 14.29
+1.58
                                   # 25.08
+1.75
                                                              * 49.34
                                                                                 # 65.78
+2.00
+2.25
                                                                                          # 73,75
+2.50
                                                                                                          € 98.37
                                                                                                               # 91.8e
+2.75
+3.00
                                                                                                                # 94.19
+3.25
                                                                                                                   * 75.51
+3.50
                                                                                                                     # 98.01
                                                                                                                      * 99.00
+3,75
+4.00
                                                                                                                       E180.00
PHI
      5.8000% = 16.8000% =
                     9.4625
                     1.2897
1.4991
PHI
       25.0000% =
PHI
PHI
      50.00001 =
                     1.7601
      75.0000% =
84.0000% =
                     2.2713
2.4252
PHI
PHI
PHI
       95.0000% =
                      3.0075
            -1.0000 PHI
-0.5000 PHI
                                 2.6578 CUM WT%
2.8239 CUM WT%
MODE=
MODE=
NODE=
             0.2500 PHI
                                 4.1528 CUM WT%
             1.7500 PHI
2.5000 PHI
MODE=
                                49.3356 CUM WT%
88.3721 CUM WT%
MODE=
             3.2500 PHI
                                 96.5116 CUM WT%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                          1.8250
                                     : MEDIUM SAND
: MODERATELY WELL SORTED
GRAPHIC MEAN:
INCL GRAPH STD DEV:
                           0.4816
                          0.0914
1.3913
INCL GRAPH SKEWNESS:
                                           NEAR SYMMETRICAL
GRAPHIC KURTOSIS:
                                           : LEPTOKURTIC
NORMALIZED KURTOSIS:
                           0.5918
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
            1.9078
MEAN X=
VARIANCE=
                       0.6580
SKEWNESS=
                      -0.9156
STO DEVIATION=
                     0.8112
KURTOSIS=
                       6.2839
```

```
5.21 * 0.00
5.91 * 0.00
    6.51 # 0.00
    7.11 * 8.88
    7.81 + 0.00
    8.41 #-0.01
  7.11 * 0.00
9.74 *-8.01
10.41 + 0.00
   11.61
        #-0.03
   12.91 * 0.00
  14.21 # 0.02
   15.51 # 0.06
           # 0.11
  16.8!
   19.81
            * 0.16
  19.91
              # 8.21
  21.91
23.81
               # 0.27
# 0.32
   25.71
                  # 0.37
  28,31
                  # 0.44
   30.01
                    * 0.49
  34.01
                     # 8.56
  37.21
                      # 0.62
  # 9.70
  44.91
                           # 0.82
  49.41
                                 # 1.04
  54.51
                                            * 1.56
  60.31
                                                      # 2.86
  66.71
73.71
                                                                  # 2.53
                                                                           # 2.98
                                                                                   ¥ 3.3å
  81.45
                                                                                               # 3.87
# 4.17
  90.31
 100.01
                                                                                                            4.44
 110.81
 123.61
                                                                                                                  ¥ 4.76
                                                                                                                     # 4.90
153.71
172.31
                                                                                                                         * 5.06
 193.41
                                                                                                                                * 5.33
 217,11
 244.6
                                                                                                                                   # 5.50
 276.01
                                                                                                                                   # 5.57
 311.9
                                                                                                                                     ¥ 5.43
 353.54
                                                                                                                                      # 5.68
 401.51
                                                                                                                                       * 5.71
* 5.74
457-21
521,84
                                                                                                                                        * 5.77
597.41
                                                                                                                                         # 5,79
                                                             GRAMS
                                                                                                 4
                                                                                                                        £.,
                                                                                                                                              6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
9AMPLE NUMBER: K0069
WATER TEMP.: 23
PHI TIME
PHI
                                 TIME
                                                    INTERVAL
                                  ODSERV
                 EXPECT
                                                  WEIGHT: GRAMS
                                 7.79
9.45
9.72
                  7.18
8.23
 -1.88
                                                  0.00
 -0.75
                                                  0.00
 -0,50
                  9.48
                                                  0.00
                 10.99
12.82
 -0.25
                                 10.98
                                                  0.01
                                 12.90
15.48
  0.06
                                                  0.00
  0.25
                 15.06
                                                  9.0ò
                 17.82
21.26
25.59
31.88
  0.50
0.75
                                 18.01
                                                  0.10
                                 21.86
25.70
                                                  8.11
  1.00
                                                  0.10
   1.25
                                 31.52
                                                  8.14
                                38.50
47.45
59.59
75.43
97.38
  1.75
                 38.13
47.29
                                                  0.13
                                                  0.28
                59.31
75.33
96.92
  1.80
1.25
                                                  1.09
  1.50
1.75
                                                  1.00
                               126.82
167.19
223.49
                126.36
                                                  4.65
  3.80
                156.89
                                                  0.43
  3.25
                223.18
                                                  8.26
  3.50
               301.85
                                302.25
                                                  B.17
               412.30
567.83
                               412.38
567.92
                                                  0.11
  4.80
                                                  0.06
TOTAL INMERSED WEIGHT: 6.060606
```

Koolet page 2 of 2

```
84-01-2005
SAMPLE NUMBER: K0054
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
        10%
PHI
-1.00 * 0.00
-0.75 * 0.00
-0.50 * 0.00
-0.25 * 0.17
+0.00 * 0.17
+0.25 * 1.21
+0.50 * 2.94
+0.75 * 4.84
+1.00
                ¥ 6.56
+1.25
+1.50
                   # 9.98
* 11.23
+1.75
                              # 16.86
                                                         # 34.89
+2.25
+2.50
+2.75
+3.00
                                                                                   # 53.71
                                                                                                           * 70.98
                                                                                                                          # 82.2L
                                                                                                                                     * 89.64
+3.25
+3.50
+3.75
                                                                                                                                          * 94.13
* 97.06
                                                                                                                                                 # 98.96
+4.00
                                                                                                                                                   *100.00
         5.0000% =
PHI
        16.0000% =
                          1.7468
        25.0000% = 50.000% =
                          1.8687
PHI
PHI
                           2.2007
                           2.5894
PHI
        75.00001 =
                          2.8102
3.3243
PHI
        84.0000% =
        95.0000% =
PHI
               -0.2500 PHI
0.7500 PHI
1.2500 PHI
MODE=
                                         0.1727 CUM WT%
                                        4.8359 CUM WT%
MO0E=
H00E=
                                        9.9810 CUM WT%
34.8877 CUM WT%
                 2.0000 PHI
MODE=
FOLLONING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC MEAN: 2.2526 : FINE SAND INCL GRAPH STD DEV: 0.6523 : MODERATEL
                                                     : MODERATELY WELL SORTED
: MEAR SYMMETRICAL
INCL GRAPH SKEWNESS:
                                 9.0137
                                 1.4503
GRAPHIC KURTOSIS:
                                                     : LEPTOKURTIC
                          METERS BY THE NETHED OF MONENTS: STD. Deniation = 0.6907

2.3156 (0.4771 Slewness: -0.5073 Kurtosis=4.1350)
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
KOOSO page 1 of 3
   KURTOSIS=
                                4.1350
      5.8;
           1-0.03
           e-0.03
      7.21
          4-0.03
      9.01
          E-0.03
      9.31
          4-0.03
     9.1( *-0.01
     9.6: 4-0.02
    10.41
          E-0.83
    16.91
          E-0.03
    12.11
          4-0.03
    13.41
          4-0.04
    14.71
          E-0.03
    15.0: *-0.02
   17.31 # 0.01
    18.61 * 8.90
   20.51 + 0.00
22.41 + 0.01
   24.31 + 0.04
    26.31 ₹ 0.06
   28.81
             # 0.11
              * 0.15
    31.41
   34.51
37.81
               # 8.19
                * 0.23
   41.51
                 * 0.30
                           /

47

* 1.03

* 1.29

* 1.43

* 2.20

* 2.20

* 2.80

* 3.85

* 3.28

* 3.73

* 3.95

* 4.15

* 4.15
   45.51
                  * 8.34
   49.91
55.01
                    * 0.39
* 0.47
   60.81
   67.21
74.31
   91.91
   90.91
  100.5;
 111.41
  124.21
 138.31
154.31
 172.91
 194.01
217.71
245.21
 276.51
312.41
354.01
                                                                                                                      € 4.37
                                                                                                                                       .00
* 5.15
* 5.29
* 5.39
* 5.45
                                                                                                                                 * 4.82
                                                                                                                                    # 5.00
 402.01
 457.71
522.41
597.91
                                                                     GRAMS
                                                                                                                                    5
                                                                                                                                                             ò
UNIVERSITE 5.
04-01-2005
SAMPLE NUMBER: KOOSO
WATER TEMP.: 23
TIME
TYPECT
 UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
                                       TIME
                                                          INTERVAL
                                      089ERV
7.19
                    EXPECT
                                                          WEIGHT: GRANS
  -1.500
                     7.18
                                                        6.00
  -0.75
                                       8.34
                     8.23
                                                        8.00
                                     9.61
11.75
13.87
15.54
17.96
21.75
  -0.56
                     9.49
                                                        0.01
                    18.99
  -0.25
                                                        9.00
                   12.82
15.06
17.82
   0.00
                                                        0.00
   9.25
                                                        8.83
0.01
                   21.26
25.59
31.89
   0.75
                                                        0.01
                                     25.59
31.36
                                                        0.05
   1.90
   1.25
                                                        0.09
                   38.13
47.28
59.31
75.33
   1.50
                                     38.44
                                                        0.08
                                    47.34
59.53
75.52
97.32
                                                        0.12
   7.80
                                                        0.29
```

8.71

0.77

SKEWWESS=

2.25

2.50

96.92

STD DEVIATION=

-0.5073

0.6907

3.00 166.89 167.08 3.25 223.18 223.43 3.50 301.85 302.14 3.75 412.30 412.27 4.00 567.83 567.81 TOTAL INMERSED WEIGHT: 6.060606 CUM. TOT, WEIGHT ERROR: -9.5800 WEIGHT ERROR >52	8.58 8.58 8.56 8.63	LOUSD Page
---	------------------------------	------------

2003

```
94-91-2005
 SAMPLE NUMBER: KOW50
CUMULATIVE CURVE OF DATA
  WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                      0%
                                                                                                                                                                                                      567
                         PHI
   -1.60 * 0.60
 -0.75 + 0.08
-0.50 + 0.18
-0.25 + 0.18
 +0.00 + 0.19
+0.25 + 0.73
+0.50 + 0.71
 +0.75 # 1.09
+1.88 # 2.01
 +1, 25
+1, 50
+1, 75
+2, 25
+2, 50
+2, 75
+3, 75
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+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3, 75
+3
                              * 3.65
* 5.11
                                            # 7.30
                                                                     # 12.59
                                                                                                                    # 25.55
                                                                                                                                                                       # 39.60
                                                                                                                                                                                                                     # 52.92
                                                                                                                                                                                                                                                              # 63.87
 +3.25
+3.50
+3.75
+4.80
                                                                                                                                                                                                                                                                                                # 73.72
                                                                                                                                                                                                                                                                                                                                     * 83.74
                                                                                                                                                                                                                                                                                                                                                                           # 95.44
                                                                                                                                                                                                                                                                                                                                                                                               #100.09
 PHI
                         5.00001 =
                                                                       1.4813
 PHI
                       16.0000% =
                                                                        2.9658
                       15.0000% =
50.0000% =
                                                                        2.2394
2.6952
 PHI
 PHI
 PHI
                       75.0000% =
                                                                         3.2813
                                                                       3.5013
3.7405
 PHI
                      94.0000% =
 PHI
                     95.0000% =
                                         -9.5000 PHI
 MODE=
                                                                                                             0.1825 CUM W7%
                                          0.2500 PHI
1.2500 PHI
2.5000 PHI
                                                                                                           W.7299 CUM WT%
 ₩00E=
 HODE=
                                                                                                             3.6496 CUH WT%
                                                                                                        39.5985 CUM NT%
95.4380 CUM NT%
 HODE=
                                            3.7500 PHI
 MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                                                                      2.7541
0.7012
 GRAPHIC MEAN:
                                                                                                                                          : FINE SAND
 CHCL GRAPH STD DEV:
                                                                                                                                            s MODERATELY WELL SONTED
                                                                                                                                            : NEAR SYMMETRICAL
 INCL GRAPH SKEWNESS:
                                                                                       0.0242
GRAPHIC KURTOSIS:
                                                                                      9.8888
                                                                                                                                           : PLATYKURTIC
 NORMALIZED KURTOGIS:
                                                                                      0.4705
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

```
K0050 Part 3 of 3
  SKEWNESS=
                           -9.6384
  STO DEVIATION=
                            0.7209
                            3.9449
  KURTOSIS=
     16052 page 1 of 3
  5.41
£-0.39
   6.31
  8-0.39
   5.71
  8-0.38
   7.61
  #-0.39
   8,21
 #-0.40
   9.91
  는-[] , 취수
   9.61
 8-17 6
  10.31
  분~장, 취실
  10.61
  8-9.38
  11.81
     #-0.20
  13.11 + 0.03
   14.41
                     # 0.49
  15.41 + 0.00
16.71 + 0.00
18.21 + 0.00
20.14 + 0.00
  22.01 * 0.00
23.91 * 0.00
25.81 * 0.00
  28.41 # 0.00
  31.01 * 0.00
34.21 * 0.00
  37.31 + 0.00
41.21 + 0.00
  45.01 + 0.00
  49.51 * 0.66
54.71 + 0.66
  60.4( ± 0.00
  66.81 # 0.00
  73.81 * 6.00
 81.51 + 0.00
90.51 + 0.00
100.1; # 0.00
 111.01 + 9.96
123.81 + 0.00
137.91 + 0.86
153.91 + 0.00
 172.4( * 0.00
193.41 # 0.00
 217.21 * 9.00
244.81 # 0.00
275.11 * 0.00
312.01 + 0.00
 353.51 ₹ 8.00
401.51 # 0.00
457.31 * 0.06
522.01 + 0.00
597.51 + 0.00
                                                              GRAMS
                                                                                                                        5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER 84-81-2805
SAMPLE NUMBER: KOR52
WATER TEMP.: 23
PHI TIME
EXPECT
                                                    INTERVAL
                                  OBSERV
                                                    WEIGHT: GRAMS
                  7.18
8.23
                                  7.57
9.23
                                                  0.00
 -1.99
                                                   0.89
 -0.75
 -0.50
                  9.48
                                  9.55
                                                  0.00
                 18.79
                                                   9.12
                                  11.20
```

VARIANCE=

0.00

0.25

0.50

12.82

15.06

17.82

13.87

15.04

18.18

0.35 1.29

0.00

9.5190

		200 0000	
1.00	25.59	25.81	0.00
1.25	31.08	31.63	0.00
		38.66	0.00
1.75	47,28	47.62	0.00
2.00	59.31	59.75	0.00
2.25	75.33	75.74	0.00
2.50	96.92	97.54	0.00
2.75	126.38	126.98	0.00
3.00	166.89	167.30	5.58
3.25	223.18	223.45	0.00
3.50	301.85	302.41	0.00
3.75	412.30	412.49	0.00
4.00	567.83	568.89	0.08
TOTAL INN	ERSED WEIGHT:	6.060606	
CUM. TOT.	MEIGHT: 1	1.6700	
PERCENT W	EIGHT ERROR:	-72.4450	
MEIGHT EN	OR)5%		

K0052 page 2 of 3

```
04-01-2005
SAMPLE NUMBER: K0052
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
         PHI
-1.00 + 0.00
-0.75 + 0.00
-0.50 + 0.00
-0.25
                # 7,19
                                               # 29.14
+0.00
                                                                                                                                                 £100.00
+0.25
F0,50
                                                                                                                                                 £100.00
+8.75
+1.89
+1.25
+1.75
+2.89
+2.25
+2.75
+3.89
+3.25
+3.75
                                                                                                                                                 #100.00
                                                                                                                                                 #199.80
                                                                                                                                                 #100.00
                                                                                                                                                 #100.00
                                                                                                                                                 #100.00
                                                                                                                                                 *100.00
                                                                                                                                                 *100.00
                                                                                                                                                 #100.00
                                                                                                                                                 #100.00
#100.00
                                                                                                                                                 *100.00
                                                                                                                                                 £100.00
+4.69
                                                                                                                                                 *100.00
PHI
         5,0000% =
                         -0.3260
        16.6000% =
15.0000% =
                         -0.1449
-0.0375
PHI
PHI
        50.0000% =
PHI
                          0.0760
       75.0000% = 84.0000% = 95.0000% =
                          8.1630
8.1943
PHI
PHI
PHI
                          0.2326
                MEX = 0.2
0.2500 PHI
0.7500 PHI
1.2500 PHI
1.7500 PHI
2.2500 PHI
3.2500 PHI
MODE=
                                       190.0000 CUM WT%
                                      100.0000 CUH WT%
MODE=
                                      188.8888 CUM WTZ
188.8888 CUM WTZ
HODE=
#00E=
                                      188.988 CUH WTZ
MODE=
                                      100.0000 CUM WT%
HODE=
                                      189.9888 CUH HT%
HODE=
```

FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
1.1418
LEPTOKURTI : COARSE SANO : VERY WELL SORTED : STRONGLY COARSE SKEWED : LEPTOKURTIC

MORMALIZED KURTOSIS: 0.5331

FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:

0.1617 0.0233 -1.5232 IN= 0.1525 4.1596 VARIANCE= SKEWNESS= STD DEVIATION= KURTOSIS=

K0052 Page 3 83

K0038 page (of 2

```
5.51 # 0.60
6.21 # 0.66
6.81 # 0.66
    7.41 * 0.00
   0.11 * 0.00

0.11 * 0.00

7.31 * 0.02

7.91 * 0.03
   10.61
            # 0.08
   11,91
             # Ø.16
   13.11
                 # 0.26
   14,4
                     * 0.39
   15.71
                       ₹ ₩.52
   17.01
                           # 8.64
                              € 0.76
   18.31
                                   B 0.93
   20.21
                                         3
..08
* 1.21
* 1.33
* 1.49
   22.11
                                     # 1.08
   24.01
  25.91
28.51
                                                              1.89

* 2.87

* 2.24

* 2.41

* 2.63

* 2.77

* 2.97

* 3.87

* 3.28

* 3.7
                                                     * 1.68
* 1.89
  34.31
37.51
41.31
  45.11
  49.7
  54.81
  66.91
74.03
  31.71
                                                                                                ÷ 3.31
                                                                                                   * 3.42
* 3.52
  98.63
 100.21
                                                                                                       # 3.63
 123.91
138.01
                                                                                                          ₹ 3.73
                                                                                                             # 3.84
 154.01
172.51
                                                                                                               £ 3,95
                                                                                                                   # 4.9ó
                                                                                                                     ¥ 4.14
¥ 4.23
 217.31
 244.91
                                                                                                                        # 4.30
276.31
312.11
                                                                                                                           # 4.39
                                                                                                                            # 4.45
 353.71
                                                                                                                             * 4.52
 401.71
                                                                                                                               # 4,58
457.41
522.11
597.61
                                                                                                                                ¥ 4.63
                                                                                                                                 # 4,66
                                                                                                                                  £ 4.69
                                                                       GRANS
                                                                                                                                                                    ó
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0038
WATER TEMP.: 20
PHI
                    TIME
                                       TIME
                                                            INTERVAL
                   EXPECT
7.21
8.26
                                                            WEIGHT: GRANS
 -1.00
                                       7.41
                                                          0.00
 -0.75
                                       8.67
                                                          0.00
                    9.53
11.05
                                      9.94
11.25
 -0.50
                                                          0.05
 -0.25
                                                          0.05
                                      13.12
15.78
18.29
                   12.91
15.19
  0.00
                                                          0.15
  0.25
                                                          0.25
  0.50
                   18.01
                                                          0.24
   0.75
                    21.54
                                      22.09
                                                          0.32
                   25.98
   1.00
                                                          0.29
                                      26.63
                                     31.89
39.38
49.99
61.24
                                                         0.36
0.43
0.45
                    31.65
  1.50
                   38.94
49.50
   2.00
                   61.11
                                    79.43
100.95
   2.25
                   77.98
                                                         0.30
  2.50
2.75
                  100.84
                                                         0.25
                 132.14
175.41
                                    132.28
175.76
235.95
                                                          8.29
  3.00
                                                         0.27
```

235.57

320.08

439.76

320.43

430.85

0.21

0.19

0.14

3.25

3.50

```
04-01-2005
SAMPLE NUMBER: K0038
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
      0%
PHI
-1.00 + 0.00
-0.75 ± 0.00
-0.50 ± 1.07
            .87
2.35
* 5.54
* 11.09
* 16.20
* 23.03
* 29.21
* 36.89
        £ 2.35
-0.25
+8.00
+0.25
+0.50
+0.75
+1.00
                                                                 * 55.65

* 63.33

* 69.72

* 75.05

# 81.02

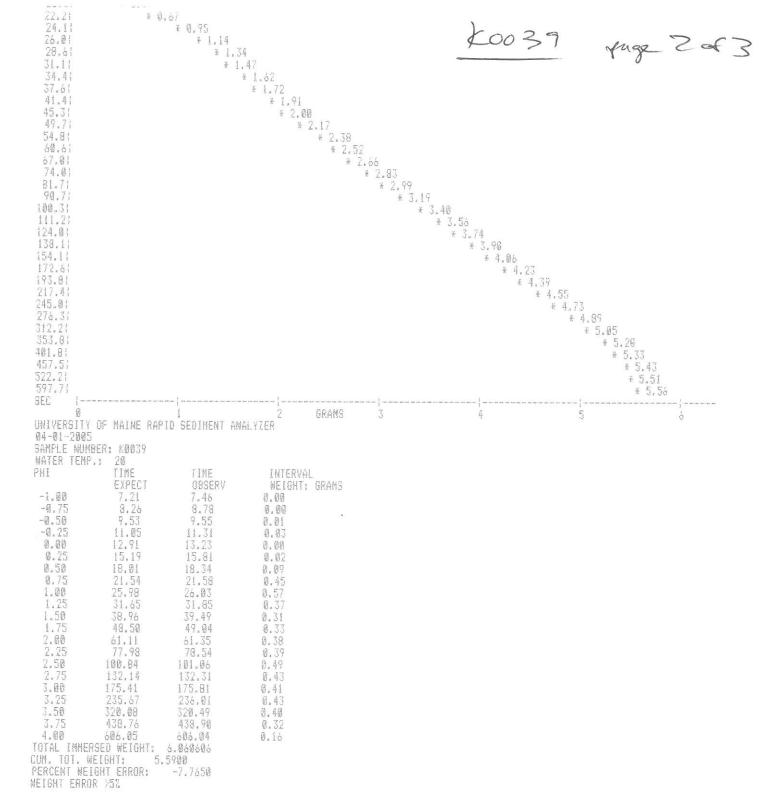
* 86.78

# 91.26

* 95.31

* 98.41
+1.25
                                                        # 45.06
+1.50
+1.75
+2.00
+2.25
+2.50
+2.75
+3.00
+3.25
+3.50
                                                                                                                # 98.29
+3.75
                                                                                                                  #100.00
44.00
       5.0000\% = -0.0425
                   0.4900
0.8297
      16.0000% =
PHI
PHI
      25.00001 =
PHI
      50.0000% =
                    1.6028
PHI
      75.0000% =
                    2.4975
      34.0000% =
                    2.8793
3.4809
PHI
PHI
     95.0000% =
MODE=
            0.2500 PHI
                               11.0874 CUM WT%
            0.7500 PHI
1.7500 PHI
                               23.0277 CUM WT%
MODE=
                               55.6503 CUM WT%
MODE=
            2.7500 PHI
                               81.0235 CUM WT%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                         : MEDIUM SAND
GRAPHIC MEAN:
                          1.6573
INCL GRAPH STD DEV:
                          1.1312
                                          : POORLY SORTED
INCL GRAPH SKEWNESS:
                                         : MEAR SYMMETRICAL
                          0.0673
                                          : PLATYKURTIC
GRAPHIC KURTOSIS:
                          9.8658
NORMALIZED KURTOSIS:
                          0.4641
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                      1.7804
VARIANCE=
                      1.1658
SKEWNESS=
                      0.0884
STO DEVIATION=
                      1.0797
KURTOSIS=
                      2.2069
```

5.51 * 0.00 6.21 # 0.00 6.71 + 0.01 7.51 # 0.00 8.11 8-0.81 8.81 #-0.43 7.51 #-0.02 10.11 #-0.02 10.41 # 0.00 12.0: # 0.00 13.21 # 0.01 14.51 # 0.04 15.8: # 0.03 17.11 # 0.07 18.31 # 0.12 K0039 page (of 3



```
04-01-2005
SAMPLE NUMBER: K0039
CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                   8%
                    \[ \sigma \) \text{\circ \text{\circ \circ \circ
PHI
 -1.00 + 0.00
 -0.75 * 0.00
-0.50 * 0.18
 -0.25 # 0.72
+0.00 + 0.72
+0.25 + 1.07
+0.50 + 2.
                                                                               * 2.68
                                                   * 10.73
 +0.75
 +1.00
+1.25
+1.50
+1.75
+2.00
+2.25
+2.50
+2.75
+3.00
+3.25
+3.50
                                                                                                                                                                                                                                                                                                                            # 97,14
 +3.75
                                                                                                                                                                                                                                                                                                                                        *188.89
 十年。例例
                    5.00001 =
                                                        母.5719
 PHI
                  16.0000% =
                                                         0.8791
PHI
                   25.0000% =
                                                            1,1537
PHI
                  50.0000% =
                                                           2.150a
                   75.0000% =
PHI
                                                            2.9466
                                                         3.2416
3.6566
                 94.0000% =
 PHI
                 95.0000% =
PHI
                                 -0.2500 PHI
                                                                                            0.7156 CUM WT%
 #00E=
                                                                                         20.9302 CUM WT%
61.5385 CUM WT%
                                    1.0000 PHI
MODE=
 M00E=
                                      2.5000 PHI
                                     3.2500 PHI
                                                                                        84.2576 CUM WIL
MODE=
 FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                                                         2.0905
1.0580
GRAPHIC MEAN:
 INCL GRAPH STD DEV:
                                                                      -0.0500
0.7051
INCL GRAPH SKEMNESS:
GRAPHIC KURTOSIS:
                                                                                                                       : MEAR SYMMETRICAL
                                                                                                                        : PLATYKURTIC
                                                                         0.4135
 FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                                      2.2115
1.0372
MEAN X=
VARIANCE=
SKEWNESS=
                                                             -0.0754
 STO DEVIATION=
                                                             1.0184
KURTOSIS=
                                                                1.9345
```

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```
7.41 # 0.00
  6.01 F 0.00
  6.71 + 0.01
7.31 + 0.01
  8.81 * 0.01
  8.51 # 0.00
  7.21 # D.00
  9.91 * 0.02
 10.51 # 0.00
  11.84 # 0.00
 13.11 # 0.03
  14.31 # 8.81
 15.61 # 0.02
  16.91 3 9.02
 18.21 # 8.04
        * 0.07
  20.11
 22.01
          # 0.11
 23.91
           * 0.16
            # 0.23
  29.51
             # 0.29
              # 0.35
 31.01
 34.21
               ¥ Ø.4;
 37.41
                * 4.47
                  ¥ Ø.55
 41.21
 45.41
                    # 0.63
 49.51
                      * 8.72
                            a 1.99
 54.71
                                   * 1.36
 69.41
                                                  # 2.03
 66.81
                                                              # 2.59
                                                                     ¥ 3,01
 81.61
                                                                                    $ # 3.79 # 4.16 # 4.50 # 4.75 # 5
                                                                             # 3,40
 90.51
100.11
111.8
123.81
                                                                                                              # 5.01
153.91
                                                                                                                   # 5.21
# 5.35
172.53
193.61
217.3
244.01
276.21
312.01
                                                                                                                             # 5.71
# 5.75
401.74
                                                                                                                              # 5.77
457.43
                                                                                                                              ₹ 5.78
522.01
597.51
                                                                                                                              # 5.79
                                                         SRAMS
                                                                                          ā.
                                                                                                               5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0031
WATER TEMP.: 21
                                TIME
PHI
                                                IMTERVAL
                EXPECT
                                OBSERV
                                                WEIGHT: GRAMS
 -1.50
                                              0.01
                7,20
                               7.30
 -9.75
-0.50
                8.25
9.51
                               8.62
                                              0.88
                               9.88
                                              0.02
                11.03
 -0.25
                              11.28
                                              4.00
                              13.07
15.65
                12.88
15.14
                                              0.04
  0.00
                                              0.00
  8.25
  0.50
                17.95
                              18.18
                                              0.02
  0.75
                21.44
                                              0.05
                              21.42
                25.85
31.45
                              25.86
31.63
  1.00
                                              0.14
  1.25
                                              8.13
                              38.66
  1.50
                38.67
                                              0.14
                49.09
                              48.27
                                              0.19
  2.00
               å0.49
                              61.13
77.11
99.47
                                              0.75
               77.07
  2.50
                                              1.01
              130.15
                             130.22
                                              8.87
              172.49
                             172.45
  3.00
                                              0.57
                             232.00
313.95
               231.39
                                              0.31
  3.50
              313.83
                                              0.16
  3.75
              429.69
                             429.84
                                              0.08
              592.96
                             593.03
  4.80
                                              0.03
TOTAL IMMERSED WEIGHT:
                           6.060606
```

CON. TOT. MELENT: 3.8480 PERCENT WEIGHT ERROR: -3.6400

Koosi page Z of Z

```
04-01-2005
SAMPLE NUMBER: KØØ31
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                              58%
                                                                                                                      100%
PHI
-1.80 ± 8.17
-0.75 € 0.17
-0.50 * 0.51
-0.25 # 0.51
+0.00 + 1.20
+0.25 # 1.20
       # 1.54
# 2.48
+0.50
+0.75
           # 4.79
# 7.02
# 9.42
+1.00
+1.25
+1.50
+1.75
                    ₩ 12.67
                                    £ 25.51
+2.00
+2.25
                                                             £ 48.12
                                                                                 * 45.41
+2.75
                                                                                                 ¥ 80.31
                                                                                                             * 90.07
                                                                                                                  # 95.3B
+3.25
F3.50
                                                                                                                      * 98.12
                                                                                                                       ¥ 99.49
+3,75
                                                                                                                        #108.00
+4.00
                    1.0231
1.8148
1.9900
PHI
       5.000072 =
     16.0000% = 25.0000% = 50.0000% =
PHI
PHI
                     2.2772
PHI
                     2.6609
2.8446
3.2323
PHI
      75.0000% =
PHI
      94.0000% =
PHI
     95,0000% =
            -1.0000 PHI
                                 0.1712 CUH WT%
0.5137 CUM WT%
HODE=
M00E=
            -8.5000 PHI
                                  1.1986 CUM WT%
            0.0000 PHI
MODE=
                                 4.7945 CUM WT%
             1.0000 PHI
MODE=
              2.2500 PHI
                                 49.1164 CUM WY%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                         2.3122 : FINE SAND
0.5922 : MODERATELY WELL SORTED
GRAPHIC MEAN:
INCL GRAPH STO DEV:
                                          : NEAR SYMMETRICAL
INCL GRAPH SKEWNESS:
                         -0.0169
                          1.3495
9.5744
GRAPHIC KURTOSIS:
                                           # LEPTOKURTIC
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: NEAN X= 2.3700
VARIANCE=
                       0.4234
                      -1.0095
SKEWNESS=
STD DEVIATION=
KURTOSIS=
                       0.6508
                       6.2024
```

K0048 page 1073

```
28.41 ± 8.87
22.41 ± 8.97
24.31 ± 8.98
                                                                         Koo48 page 2 of 3
           F 0.08
            * 0.09
  26.21
   28.81
            * 0.16
  31.41
            # 0.11
   34.51
            # 0.12
  37.71
             + 0.15
  41.51
             # 0.18
  45.41
              # 0.21
  49.91
              * 0.25
  55.81
               # #.30
  40.81
                * 0.35
                                    * 1.31

* 2.15

* 2.71

* 3.25

* 3.58

* 3.71

* 4.24

* 4.57

* 5.42

* 5.63

* 5.77

* 5.86

* 5.77
  67.21
74.21
                  # 0.41
                      ¥ 0.55
                             # 0.91
  81.91
  90.81
 100.51
 111.4
 124.21
139.21
154.31
172.81
193.91
 217.6
 245.21
276.51
 312.41
 354.01
402.01
 457.71
522.31
597.91
SEC
                                                                                                                                          * 5.86
* 5.90
                                                              GRANS
                                                                                                  朴
                                                                                                                        5
                                                                                                                                              6
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0048
WATER TEMP.: 21
PHI TIME
PHI
                                   TIME
                                                    MITERVAL
                  EXPECT
                                                    WEIGHT: GRAMS
                  7.20
8.25
9.51
 -1.00
-0.75
                                  7.68
                                                  0.00
                                   9.34
                                                  0.00
                                  9.61
 -0.50
                                                  0.01
                 11.03
 -0.25
                                                  0.00
                 12.88
                                 13.40
15.37
  0.00
                                                  0.02
  0.25
                                                  8.82
  0.50
                 17.95
                                 18,56
                                                  0.03
                 21.44
25.85
  9.75
                                 21.75
                                                  0.00
  1.00
                                 26.19
                                                  0.02
                 31,45
   1.25
                                 32.02
                                                  0.02
  1.58
                 3B.67
                                 38.99
                                                  0.05
                 48.98
                                 48.60
                                                  0.09
                                 60.80
77.44
  2.00
                 60.49
                                                  0.11
  2.25
2.50
2.75
                 77.07
99.49
                                                  8.34
                                99.85
130.55
172.79
231.73
314.28
                                                  1.00
                130.15
                                                  1.03
  3.00
                172.49
                                                  0.86
  J.25
J.50
                231.39
313.83
                                                  0.94
                                                  0.76
  3.75
                429.69
                                430.17
                                                  8.53
  4.00
                592.96
                                593,41
                                                  0.19
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 5.9100
CUM. TOT. WEIGHT:
```

PERCENT WEIGHT ERROR:

-2.4850

```
04-01-2005
SAMPLE NUMBER: KO048
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                          100%
                                                       50%
     13 11
      PHI
-1.80 + 8.80
-0.75 + 9.08
-0.50 + 8.17
-0.25 * 0.17
+0.00 + 0.51
+0.25 + 0.85
+0.50 + 1.35
+0.75 + 1.35
      # 1.69
# 2.03
+1.88
+1.25
       ± 2.88
± 4.23
+1.75
          * 6.89
+2.20
+2.25
+2.50
+2.75
                # 11.84
                                   * 29.76
                                                   # 46.19
                                                                    * 60.74
+3.00
                                                                                  # 74.96
+3.25
                                                                                                # 87.92
+3.50
                                                                                                        # 95.79
                                                                                                            *100.00
+4.00
PHI
      5.0000% =
                  1.8534
                  2.3114
2.4444
2.8154
3.2508
     16.0000% =
PHI
      25.0000% = 50.0000% =
PHI
PHI
PHI
      75.0000% =
     94.0000% =
                  3.4259
3.7002
PHI
     95.00002 =
PHI
                              0.1692 CUH WT%
MODE=
           -0.5000 PHI
                              0.5076 CUM WT%
1.3536 CUM WT%
1.6920 CUM WT%
            0.0000 PHI
MODE=
            0.5000 PHI
HODE=
            1.0000 PHI
M00E=
                              46.1929 CUN WT%
            2.7500 PHI
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                        2.8509 : FINE SAND
0.5504 : NOOERATELY WELL SORTED
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEHNESS:
                       0.0269
                                      : MEAR SYNMETRICAL
                                      : MESOKURTIC
GRAPHIC KURTUSIS:
                        0.9386
NORMALIZED KURTOSIS:
                        9.4942
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
          2.9289
0.3953
-1.2377
MEAN X=
VARIANCE=
SKEWNESS=
                   0.6288
STO DEVIATION=
KURTOSIS=
                      7,0342
```

38.13

47,28

1.50

1.75

38.17

47,73

0.15

8.49

K0061 rage (of 2

```
5.5( * 0.00
   6.21 * 0.00
6.81 * 0.91
   7.41 + 0.03
   9.11 * 9.93
   8.71 * 0.01
9.31 * 8.02
  10.01 + 0.03
  10.51 * 0.09
           # 0,11
  11.91
  13.21
            * 0.10
                   1.26
* 0.42
* 0.66
* 0.88
* 1.23
                # W.16
  14.41
  15.74
  17.01
  18.31
  20.21
                                            # 1.44
  24.81
                                                      # 1,90
                                                # 1.57
# 1.73
# 1.79
  26.01
  28.61
                                                     1.79

1.85

* 1.92

* 2.23

* 2.75

* 3.07

* 3.51

* 3.92

* 4.30

* 4.75

* 5.06

* 5.44

* 5.75

* 6.37

* 6.37
  31.11
  34.31
37.51
                                                     £ 1.85
  41.31
  45.1
  49.71
54.91
  60.51
66.91
  74.01
  81.71
  70.61
100.21
111.11
 123.91
138.01
154.01
172.51
193.71
6.80
 žć.
98
244.9;
   - 25-
7.08
276.31
* 7.16
312.11
* 7.22
353.71
$ 7.76
401.91
* 7.29
457.41
* 7.31
527.11
* 7.33
597.61
                                                                 GRAMS
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: k0061
WATER TEMP.: 23
PHI TIME
                                    TIME
                                                       INTERVAL
                  EXPECT
                                    SSSERV
                                                       WEIGHT: GRAMS
 -1.00
                    7.18
                                    7.41
                                                      0.03
                                   8.67
9.99
11.25
 -0.75
                    8.23
                                                      0.60
 -0.15
-0.15
                  9.48
10.99
                                                     6.01
8.08
                  12,82
  0.00
                                   13.18
                                                      0.00
  0.25
                  15.06
17.82
                                                     8.24
0.54
                                    15.10
                                   18.29
   0.75
                   21.25
                                    21.47
                                                      0.49
                  25.59
31.09
                                   25.97
31.08
                                                      0.23
   1.00
   1.25
                                                      0.26
```

```
2.25
                 75.33
                                75.90
                                                 0.79
  2.58
2.75
                96.92
                                94.99
                                                 0.92
                               126.49
                176.36
                                                 0.87
                               167.41
223.76
  3.00
               146.89
                                                 0.74
  3.25
               223.18
                                                 8.44
  3.50
               301.85
                               301.87
                                                 0.21
  3.75
               412.30
                               417.60
                                                 80.0
               567.83
  4.00
                              568.20
                                                 0.04
TOTAL IMMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 7.3600
PERCENT WEIGHT ERROR:
WEIGHT ERROR >5%
```

1006/ page Zofz

```
04-01-2005
SAMPLE HUMBER: 48061
 CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
       0%
PHI
 -1.00 # 0.41
-0.75 + 0.41
-0.50 + 0.5
       * 0.48
-0.25
        # 1.77
        # 1.77
+0.00
+0.25
            # 5.03
                   * 12.36
* 18.89
* 22.81
* 24.
+0.75
+1.00
+1,25
                                  # 24.73
                                     * 26.77
+1.75
+2.00
+2.25
+2.50
+2.75
                                           # 33,42
                                                      # 41.71
                                                                    # 55,16
                                                                                   # 67.66
                                                                                               # 79.48
+3.00
                                                                                                           # 89.54
+3.25
                                                                                                                 £ 95.52
+3,50
+3,75
                                                                                                                   * 98.37
* 99.46
+4.80
                                                                                                                      #100.00
       5.0000% =
PHI
                     0.2479
PHI
      16.0000% =
                     0.5394
                      1.2833
PHI
       25.0000% =
       50.0000% =
PHI
                      2.1549
PHI
       75.0000% =
                      2.6552
PHI
      94.0000% =
                      2.8623
3.2284
PHI
      95.0000% =
MODE=
            -1.0000 PHI
                                 0.4076 CUH WT%
            -0.2500 PHI
                                1.7663 CUM WT%
12.3641 CUM WT%
MODE=
             0.5000 PHI
MODE=
MODE=
             2.2500 PH1
                                55.1630 CUN WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                         1.8852
1.0073
GRAPHIC MEAN:
                                          : MEDIUM SAND
INCL SRAPH STD DEV:
                                           : POORLY SORTED
: STRONGLY COARSE SKEWED
INCL GRAPH SKEWNESS:
                         -0.3209
GRAPHIC KURTOSIS: NORMALIZED KURTOSIS:
                          9.9794
                                              PLATYKURTIC
                          0.4710
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                       2.0622
HEAN X=
                                                  STP Peu: 0.9730
                                                                                            Kurtosis= 2,6072
VARIANCE=
                       0.7469
```

```
SID DEVIATION=
                              0.9730
 KURTOSIS=
                              2.6072
                                                                                                         K0063 page 1063
    5.4/ + 0.02
   6.01 + 0.03
6.71 + 0.03
7.41 + 0.01
  8.61 ± 0.05
9.31 *-0.01
9.91 ± 0.03
10.51 ± 0.10
  11.81 + 0.08
13.11
                         # 0.62
  16,31
     #-0.17
  15.61
16.91
             # 0.23
# 0.24
               * 0.28
* 0.33
                 * 0.33

* 0.41

* 0.55

* 8.71
  18.71
 20.11
22.01
23.91
25.91
29.51
31.01
                                  ± 0.99
                                         # 1.35
  34.21
37.41
                                                          # 1.94
                                                                         # 12 d B
  41.71
                                                                                                # 3.49
 45.11
49.51
54.71
                                                                                                                   # 4.33
                                                                                                                                     * 5.07
                                                                                                                                                 # 5.62
# 6.00
 64.81
73.91
81.61
                                                                                                                                                                  # 6.28
                                                                                                                                                                       + 6.49
                                                                                                                                                                         £ ģ.ģ
  70.51
                                                                                                                                                                             # 4
. 74
100.11
 6.82
111.01
8 6.8
B
123.91
# 6.
92
137.91
* 6.
95
153.91
ξÓ,
96
172-51
# 6
193.61
# 7
.00
217.31
7.03
244.81
  끂
```

7.05 276.7.1

7.04 312.01 Ħ 7.05 353..71 2 7.86 401.71 拼 7.08 457.41 差 7.05 522.01 12-7.**8**5 597.51 菱

```
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
 94-01-2005
                                                                                                                               10063
page 2 of 3
 SAMPLE NUMBER: 1:0063
 WATER TEMP.: 23
PHI TIME
                                     TIME INTERVAL
OBSERV WEIGHT::
7.36 0.01
8.62 8.04
9.88 7.00
                                    TIME
                    EXPECT
                                                        WEIGHT: GRAMS
                     7.18
8.23
  -0.75
  -0.50
                                      9.88
                                                   0.00
                                                    0.03
                                    11.14
13.07
15.15
                    10,99
   -0.25
                   12.82
15.06
17.82
                                                       0.53
   0.80
    0.25
                                                        6.00
   0.50
                                    18.18
                   21.25
25.59
31.08
    9.75
                                     21.42
                                                        0.10
                                     25.86
31.69
   1.00
                  38.13
47.28
59.31
75.33
96.92
126.36
                                                        1.29
   1.75
                                    38.11
47.52
                                                   1.18
                                    59.81
75.79
96.94
   2.00
   2.25
2.50
2.75
                                                        0.55
                                                       0.28
                                   126.38
167.35
123.71
302.41
                                                     9,13
                                                  8,13
9,95
8,85
9,93
8,99
   3.00
3.25
3.50
                  166.89
223.18
301.85
                                    412.54
    3.75
                  412.38
   4.00
                  547.83
                                   569.09
TOTAL IMMERSED WEIGHT: 6.860606
CUM. TOT. WEIGHT: 7.5600
 PERCENT WEIGHT ERROR: 24.7400
WEIGHT ERROR >5%
04-01-2005
SAMPLE NUMBER: 48063
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE FORAL
PHI
-1.00 * 0.13
-0.75 * 0.66
-0.50 * 0.66
-0.25 # 1.46
+0.00 * 8.47
+0.25
                  € 8.47
                   * 10.19
+0.75
                      + 11.51
                             * 15.87
+1.00
                                          £ 25.79
+1.25
+1,50
                                                                  * 42.86
+1,75
                                                                                                      E 69,84
                                                                                                                          1 85.45
+2.80
+2.25
                                                                                                                                     * 92.72
                                                                                                                                          ¥ 96.43
+2.75
                                                                                                                                            # 98.15
+3,00
                                                                                                                                             ¥ 98.81
FJ. 25
                                                                                                                                               # 99.69
+3.50
                                                                                                                                               #100.00
                                                                                                                                               #100.08
+4.00
                                                                                                                                               #100.00
PHI 5.0000% = -0.1236
PHI 16.0000% = 1.0032
PHI 25.0000% = 1.2300
PHI 50.0000% = 1.5662
PHI 75.0000% = 1.8326
PHI 84.0000% = 1.9748
PHI 95.0000% = 2.4036
MODE= 0.7500 PHI
                                        0.6614 CUM WT%
               0.0000 PHI
MODE=
                                      8.4656 CUM WT%
                                      10.1852 CUH WT%
MODE=
              0.5000 PHI
M00E=
               1.7500 PHI
                                      69.8413 CUM WT%
99.6832 CUM WT%
                3.2500 PHI
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN: 1.5154 : MEDIUM SAND
INCL GRAPH STD DEV: 0.6263 : HODERATELY WELL SORTED
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                             -0.2469
1.7187
                                                   : COARSE SKEWED
GRAPHIC KURTUSIS:
                                                   VERY LEPTOKURTIC
NORMALIZED KURTOSIS:
                                9.6322
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
```

MEAN X= 1.5823

```
K0063 page 3083
                          4.5686
                                                                             k0034 rage 1&3
   5.41
        4-0,03
        #-9.83
   7.01
        #-0.03
   7.51
        #-0.04
   8.31
        #-0.03
   8.81
        #-0.03
   9.71 €-0.02
  10.11
        长一切。初年
  10.61
       2-0.04
  11.81 3-0.81
  13.11 %-0.01
  14.31
      #-0.05
  15.41 # 0.23
  16.91
       \frac{\pi}{\hbar} - \frac{\sqrt{\hbar}}{\sqrt{\hbar}} = \sqrt{\frac{3}{4}} \frac{\pi^2}{4}
  18.21 # 8.18
  20.11
            # 6.17
               # 0.35
  22.01
                    * 8.55
  23.91
  25.91
28.51
                        € 0.73
                           ¥ 0.87
  31.01
                             # 1.00
  34.21
37.41
                               # 1.08
                                # 1.15
  41.71
                                  # 1.22
                                  * 1.26
* 1.36
* 1.35
* 1.68
* 2.42
* 2.42
* 2.44
* 3.51
* 3.83
* 4.16
* 4.52
* 4.91
* 5.29
* 5.65
* 6.21
* 6.21
  45.11
                                  # 1.26
  49.51
  54.71
  60.51
 66.81
73.91
 81.61
  98.51
100.11
 111.01
123.8:
137.9:
153.9:
193.41
217.31
244.81
274.21
312.01
401.71
                                                                                                                                               # 6.42
457.41
                                                                                                                                                 * 5.57
522.01
                                                                                                                                                   # 6.
66
597.51
.73
SEC
                                                          GRAMS
                                                                                                                                     5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0034
WATER TEMP.: 23
PHI TIME
PHI
                                TIME
                EXPECT
                                                 WEIGHT: GRAMS
 -1.66
                 7.18
                                7.46
                                               0.00
 -0.75
                 9,23
                                8.29
                                               0.01
 -B.56
                 9,48
                                9.66
                                               0.01
                18.99
12.82
15.84
17.82
 -0.25
0.00
                               11.47
                                               0.01
  0.25
0.50
                               15.15
                                               0.00
                               19.18
                                               0.11
  0.75
                21.26
                               21.36
                                               0.29
                25.59
                               25.86
  1.00
                                               0.43
  1.25
                31.08
                                               Ø. 29
  1 50
                38.13
                               38.66
                                               0.17
  1.75
                47.28
                               47.67
                                               0.11
```

SKEWNESS=

KURTOSIS=

1.00

59.31

59.81

0.19

STO DEVIATION=

-0.8886

0.684#

```
2.50
              96.92
                            96.94
                                           0.58
                                                                                    K0034 page 2 of 3
                           124.30
167.35
223.45
  2.75
              126.36
                                           0.74
              166.89
  3.00
                                           0.95
  3.25
              223.19
  3.50
3.75
             301.85
                           302.41
                                           0.88
                           412,54
              412.30
                                           8.56
             547.83
                           568.89
  4.00
                                           0.25
TOTAL IMMERSED WEIGHT: 6.080606
CUM. TOT. WEIGHT: 6.7400
PERCENT WEIGHT ERROR: 11.2100
WEIGHT EHROR )5%
```

```
04-01-2005
SAMPLE NUMBER: K0034
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
-1.00 * 0.00
-0.75 + 0.15
-0.50 ± 0.30
-0.25 ± 0.45
+0.00 + 0.45
+0.25 + 0.45
+0.50 + 2.1
+0.75 *
        * 2.00
             * 5.84
                    * 11.42
# 15.59
+1.00
                            15.58
* 18.18
* 19.73
* 22.55
* 29.82
+1.25
+1.50
+1.75
+2.00
+2.25
+2.50
+2.75
                                                      ž 38.43
                                                                   # 49.41
                                                                                  ¥ 60.33
+3.00
                                                                                                   ¥ 74.93
+3.25
+3.50
                                                                                                                   # 87.98
                                                                                                                             # 96.29
                                                                                                                                  £199.09
+4,00
       5.0000% =
16.0000% =
25.0000% =
PHI
                        0.7462
                        1.2918
PHI
PHI
                        2,8842
        50.0000% =
                        2.7638
3.2514
PHI
        75.0000% =
PHI
        94.0000% =
PHI
                         3,4237
       95.00002 = 3.7
-0.2500 PHI
                        3.7112
PHI
                                     0.4451 CUM WT%
HODE=
H00E=
              1.0000 PHI
                                   11.4243 CUM WTL
                                    74.9258 CUM WT%
               3.2500 PHI
MODE=
FOLLBWING ARE THE FOLK-WARD STATISTICAL PARAMETERS: GRAPHIC NEAN: 2.4928 : FINE SAND INCL SRAPH STD DEV: 0.7822 : MODERATEL
                                       : FINE SAND
: MODERATELY SORTED
                                              : STRONGLY COARSE SKEWED
INCL GRAPH SKEWNESS:
                            -0.3703
                            1.0410
                                               : MESOKURTIC
BRAPHIC KURTOSIS:
NORMALIZED KURTUSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                          2.6651
VARIANCE=
                         0.8822
                         -0.8358
SKEWNESS=
```

```
k0034 page 30f3
    5.31 8-0.01
    5.91 *-0.01
    6.61 * 0.00
7.21 * 0.03
    7.81 + 0.04
    8.5! * 8.08
    9.11 # 0.00
9.31 * 0.02
   10.41 # 0.00
   11.51
                  + 0.41
   13.81 + 0.00
              # 0.25
   14.21
   15,51
                  # #.37
   15.31
                     # 0.49
   18.11
                      # 0.50
                          # 0.72
   20.01
   21.91
23.81
                           4 0.85
                              * 0.95
   25.81
                                £ 1.07
   28.31
                                    # 1,22
   30.71
                                      # 1.36
   34.11
                                           # 1.53
   37.31
                                               £ 1.70
   41.11
                                                  # 1.89
                                                      # 2.08
# 2.30
   45.81
   49.41
                                                                 # 2.58
   54.51
   60.3
                                                                           * 2.98
  66.71
                                                                                                        * 4.47

* 4.96

* 5.16

* 5.42

* 5.65

* 5.94

# 6.
                                                                                      £ 3.52
                                                                                                  · 通。
  81.41
   90.41
 100.01
 110.91
123.71
137.81
 153.81
172.41
                                                                                                                                           # 6.01
                                                                                                                                               # 6.15
 193.51
                                                                                                                                                # 6.24
 217.25
                                                                                                                                                  # 6.31
 244.71
                                                                                                                                                  # 6.36
 276.01
                                                                                                                                                    £ 6.49
 311.91
                                                                                                                                                    # 6.43
 353.51
                                                                                                                                                     * 6.44
 101.61
                                                                                                                                                    # 6,45
 457.3
                                                                                                                                                    * 6,47
 321.91
597.41
                                                                                                                                                    # 6.47
                                                                                                                                                     * 6,47
 SEC
         122
                                                             GRAMS
                                                                                                                     5
 UNIVERSITY OF MAINE RAPID SEDIMENT AMALYZER
 04-61-2005
 SAMPLE NUMBER: K0067
WATER TEMP.: 23
PHI TIME
PHI
                                  TIME
                                                   INTERVAL
                 EXPECT
                                                   WEIGHT: GRAMS
 -1.00
-0.75
                  7.18
8.23
                                  7.19
                                                  0.03
                                  8.51
                                                  8.00
  -8.50
                  9,49
                                                  0.02
  -0.25
                 18.99
                                 11.04
                                                  0.00
                 12.82
15.06
                                 12.96
15.48
  0.00
                                                  0.01
   0.25
                                                  0.37
  0.50
                 17.82
                                 10.07
                                                 0.21
                 21.26
25.59
31.09
                                21.25
25.76
31.58
   0.75
                                                  0.23
   1.00
                                                 0.26
   1.25
                                                  0.32
                                38.55
47.51
   1.50
                 38.13
                                                 0.38
   1.75
                 47,28
                                                  0.43
                 59.31
75.33
                                59.70
75.68
97.43
                                                 Ø.73
1.22
   2.00
   2.25
2.50
                 96.92
                                                 0.93
                               124.93
167.24
123.60
302.30
   2.75
                                                 0.61
               166.89
223.18
301.85
   3.80
                                                 8,42
                                                 0.21
0.19
               412.30
567.83
                               412.38
567.98
                                                 0.04
  4.00
                                                 8.01
TOTAL IMMERSED WEIGHT:
                             6.060606
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR:
                         6.5300
WEIGHT ERROR >5%
```

```
04-01-2005
SAMPLE NUMBER: K0067
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE (DIAL
         8%
-1,00 # 0.45
-0.75 # 0.45
-8.50 + 0.77
-8.25 + 0.77
+0.00 + 0.92
+0.25 *
                .77

8.92

* 6.58

* 7.80

* 13.32

* 17.30

* 22.21

* 28.02

# 34.61
+0.50
+0.75
+1.00
+1.25
+1.50
+2.25
+2.50
+2.75
+3.00
+3.75
                                                                                  * 45.79
                                                                                                                                                      # 88.04
# 94.49
# 97
                                                                                                                                                                       # 97.70
                                                                                                                                                                         * 99.23
* 99.85
                                                                                                                                                                           £100.00
         5.0000% = 16.0000% = 25.0000% =
                              9.1801
                               0.9181
PHI
                              1.3701
         50.0000% = 75.0000% =
                                2.0564
2.4348
PHI
PHI
                                2.6415
3.0399
PHI
         34.0000% =
PHi
         95.00002 =
                 -1.0000 PHI
-0.5000 PHI
0.2500 PHI
                                             0.4594 CUM WT%
0.7657 CUM WT%
6.5850 CUM WT%
MODE=
MODE=
MODE=
                   2.2500 PHI
                                              64.4717 CUM WIL
HODE:
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                                   : MEDIUN SAND
: MEDIUN SAND
: MODERATELY SORTED
: STRONGLY COARSE SKEWED
: MESOKURTIC
GRAPHIC MEAN: 1.8720
INCL GRAPH STD DEV: 0.8642
INCL GRAPH SKEWNESS: -0.3166
GRAPHIC KURTOSIS:
MORMALIZED KURTOSIS:
                                       1.1000
                                      0.5240
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                                  1,9912
MEAN X=
VARIANCE=
                                  8.7272
```

```
K0060 Page (cf3
       1-0.03
   6.41 #-0.87
   6.81 #-0.01
   7.41 # 9.88
   8.81
       #-0.04
   8.8
       #-0.04
  9.71 # 0.00
  10.11 + 0.61
  10.61
       8-0.04
  11.81 * 0.00
 14.41 + 0.87
  15.41
         * 8.14
  16.91
            # 0.23
            € 0.29
  18.21
              # 0.40
  20.11
                 * 0.49
  22.01
  23.91
25.91
                   # 0.59
                     * 0.69
  28.51
                       # 8.82
                          # 0.94
  31.01
  34.21
37.41
                            # 1.48
                                  1.22
* 1.37
* 1.58
* 2.01
* 2.27
* 2.72
* 3.13
* 3.63
                                * 1.22
 41.21
  45.11
  49.61
  54.74
 60.5:
 66.81
73.91
                                                                                               * 4.48
* 4.84
* 5.43
* 5.68
* 5.78
* 5.78
                                                                                       # 4.08
  81.61
 90.41
 100.1
111.0:
123.91
153.91
172.51
                                                                                                                                # 6.11
193.61
217.31
                                                                                                                                     # 6.32
                                                                                                                                       # 6.46
244.91
                                                                                                                                         £ 6,56
276.21
                                                                                                                                           # 6.
68
312.01
6.75
353.71
6.88
401.71
 6.83
457.41
 6.85
522.01
# 6.8
597.51
# 6.B
                                               2 GRAMS
       43
                                                                                                                              å
UNIVERSITY OF MAINE RAPIO SEDIMENT AWALYZER
04-01-2005
SAMPLE NUMBER: K0060
WATER TEMP.: 23
PHI TIME
                              TIME
                                              INTERVAL
               EXPECT
                              OBSERV
                                              WEIGHT: GRAMS
                             7.36
7.70
7.72
11.42
13.07
               7.18
9.23
9.48
 -1.00
                                            0.00
-0.75
-0.50
                                             0.00
                                            0.04
               10.99
12.82
 -0.25
                                            0.00
  0.00
                                            0.07
  0.25
               15.04
                             15.04
                                            0.13
               17.82
  0.50
                             18.18
                                            0.15
               21.26
                             21.42
                                             0.17
  1.00
               25.59
                             25.06
                                            ₩.23
               31.09
                             31.59
                                             0.28
```

SID DEVIATION=

KURTOSIS=

1.50

38.13

39.11

0.20

8.8528

3.1798

```
59.31
75.33
96.92
  2.00
2.25
2.50
                                   59.81
                                                      0.91
                                    75.79
                                                      1.07
                                                                                                        KODGO page Zef3
                                   96.94
                                  126.39
167.35
223.71
302.41
                                                      0.75
  3.80
3.25
3.50
3.75
                166.89
223.18
301.85
                                                      0.59
                                                      0.43
                                                      0.24
                 412.30
                                  412,54
                                                      0.10
4.00 567.83 568.09
TOTAL IMMERSED WEIGHT: 5.060606
                                                      0.05
                          6.9900
CUM. TOT. WEIGHT: 6.9900
PERCENT WEIGHT ERROR: 15.3350
WEIGHT ERROR >5%
```

```
04-01-2005
SAMPLE NUMBER: K0050
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
 -1.00 * 0.00
      0.5,

* 0.5,

* 0.57

* 1.57

* 3.43

* 5.72

* 8.15

* 11.44
-0.75 # 0.60
-0.50 * 0.57
-0.25 * 0.57
+0.00 * 1.5
+0.25
+0.75
+1.00
+1.25
                              5.45
* 19.46
* 27.18
                          # 15.45
+1.75
+2.00
                                                          ¥ 40.20
                                                                             # 55.51
+2.50
+2.75
+3.00
                                                                                              * 69.24
                                                                                                           £ 79.97
                                                                                                                     * 88.27
* 94.42
+3.25
+3.50
+3.75
                                                                                                                                  * 97.85
* 99.28
                                                                                                                                     #199.00
+4.80
        5.0000% = 16.0000% =
PHI
                        0.4211
PHI
                        1.2843
PHI
        25.0000% =
                        1.6794
                         2.1600
2.6342
        50.0000% =
PHI
        75.0000% =
PHI
                        2.8714
3.2922
        84.0000% =
PHI
PHI
       95.00001 =
              -0.5000 PHI
HODE=
                                     0.5722 CUM WT%
              1.2500 PHI
2.2500 PHI
                                    15.4506 CUM WT%
55.5079 CUM WT%
MODE=
#00E=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
                            2.1052
                                        : FINE SAMD
                            0.8318
-0.1575
1.2324
                                            : MODERATELY SURTED
: COARSE SKEWED
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                                                : LEPTOKURTIC
NORMALIZED KURTOSIS:
                              0.5521
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
HEAN X=
                          2.2042
VARIANCE=
                          0.6839
SKEWNESS=
                         -0.6361
```

```
kooker rage 3 xf3
   5.71 # 0.02
   6.41 * 8.02
   7.01 * 0.00
   7.6( 4-0.01
   8.31 + 0.03
   8.91 * 0.05
  9.6: #-0.01
10.2: * 0.00
  10.81 # 0.04
                        # 0.71
  12.11
                         # Ø.77
  13,41
                                                                   * 2.91

* 3.28

* 3.55

* 3.83

* 4.86

* 4.22

* 4.49
  14.71
                                            8 1.74
  15.91
17.21
                                                      # 2.23
  18.51
  29.45
22.41
  24.34
  28.71
                                                                                                                           * 5.55
* 5.75
* 6.78
* 6.78
                                                                                                              # 4.92
  34.51
  37.71
41.51
  45.41
49.91
                                                                                                                                               # 6,56
 6.76
  55.01
 £ 5.8
 9
 60.71
   ž j
 .98
  67.21
 7.07
 74.21
# 7.14
 81.91
* 7.21
 90.81
  ¥ 7.27
100.41
# 7.32
111.3/
# 7.36
124.11
     R 7.40
138.21
      * 7.42
154.21
      # 7.45
172.81
      # 7.45
193.91
     ± 7,47
217.61
       # 7.48
245.11
       # 7.49
276.51
       ¥ 7.5@
312.31
      # 7,51
353.91
      # 7.51
401.91
     $ 7.51
457.41 * 7.53
522.31 * 7.53
597.91 * 7.54
                                                         GRAMS
                                                                                                              7.
1.1
                                                                                                                                   Ġ
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0062
WATER TEMP.: 23
                TIME
                                TIME
PHI
                                                ENTERVAL
                EXPECT
                                OBSERV
                                                WEIGHT: GRAMS
 -1.00
                 7.18
                                              0.00
                                7.63
                 8.23
 -0.75
                                8.29
                                               0.64
 -0.50
                 9.48
                                9.55
                                              0.00
```

KURTUSIS=

3,4244

10.99

11.47

0.06

-0.25

```
15.06
                                 15.37
  0.25
                                                  1.11
                 17.82
21.24
25.59
31.88
                                 17.96
  0.50
                                                  1.18
                                 21.69
  1.00
                                 26.19
                                                  0.48
                                31.30
38.55
  1.25
                                                  0.70
                38.13
47.28
59.31
75.33
  1.50
                                                 1.07
  1.75
                                47,29
                                                  0.69
                                59.48
75.46
97.21
                                                 0.29
  2.00
  2.25
2.50
                                                  0.18
                 96.92
                                                  0.15
  2.75
                                126.65
                126.36
                                                 8.11
                               167.02
223.32
               166.89
223.18
  3.00
                                                0.05
                                                 0.02
  3.25
  3.50
                301.85
                                302.09
                                                 0,02
                412.30
                               412.82
  3.75
                                                 0.61
  4.00
               567.83
                               569.36
                                                  6.02
TOTAL IMMERSED WEIGHT: 6.060606
                         7.5800
CUM. TOT. WEIGHT:
PERCENT WEIGHT ERROR: 25.0700
WEIGHT ERROR >5%
```

0.4931

VARIANCE=

10062 page 263

```
84-81-2885
SAMPLE MUMBER: K0062
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                       58%
PHI
-1.88 * 0.00
-0.75 # 0.53
-0.50 * 0.53
-0.25 * 1.32
+8.00
                      * 11.48
+0.25
+0.50
                                         # 26,12
                                                              # 41.69
                                                                        * 50.00
+0.75
                                                                                 ¥ 56.33
+1.99
                                                                                             # 65.57
+1.25
                                                                                                                # 79.48
+1.50
+1.75
                                                                                                                           # 88.79
                                                                                                                                £ 92.61
+2.00
                                                                                                                                   # 94.99
+2.25
+2.50
+2.75
+3.00
                                                                                                                                        $ 99.00
+3.25
+3.50
                                                                                                                                         * 99.69
                                                                                                                                          ₹ 99.74
                                                                                                                                          #100.00
+4.60
                       -0.1594
0.0772
        5.0000% = 16.0000% =
PHI
PHI
                       0.2389
0.7508
       15.0000% =
PHI
PHI
        50.0000% =
PHI
        75.0000% =
                         1.4171
PHI
       84.0000% =
                          1.6196
       95.0000% =
PHI
                          2.2517
                                     Ø.5277 CUH WT%
41.6887 CUM WT%
              -0.7500 PHI
MODE=
               0.5000 PHI
MODE=
                                     79.6834 CUM WT%
99.6842 CUM WT%
               1,5000 PHI
MODE=
#00E=
               3.5000 PHI
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS;
GRAPHIC MEAN: 0.0153 : COARSE SAND
INCL GRAPH STD DEV: 0.7507 : MODERATELY SORTED
INCL GRAPH SKENNESS:
GRAPHIC KURTUSIS:
                                                  : FINE SKEWED
: PLATYKURTIC
                               8,1853
                               0.8330
MORMALIZED KURTOSIS:
                               0.4545
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
MEAN X=
                           0.9931
```

SID DEVIATION=

KURTOSIS=

1.75

47.29

47.48

8.44

8.7760

3.2185

3.50 3.75 4.00 TOTAL IMME CUM. TOT.	75.33 96.92 126.36 166.89 223.18 301.85 412.3M 567.83 RSED WEIGHT: WEIGHT: 7	6.060606 .4700	8.88 9.72 8.37 8.37 8.39 6.23
	IGHT ERROR: OR)5%	23,2558	

MEAN X=

×0059 page 2053

```
04-01-2605
SAMPLE NUMBER: K0059
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
PHI
              € 4.69
-1.00
             # 4.92
# 5.35
# 5.35
-0.75
-0.50
-0.25
+0.00
+0.25
+0.50
                 * 9.17
                               * 28.21
* 25.57
* 28.78
* 31.6
                    € 12.18
+0.75
+1.00
                                               28.75
# 31.86
# 34.95
+1.25
+1,50
+1.75
                                                                     € 47.79
+2.00
                                                                                                                * 81.65
* 87.29
* 94.51
* 97.59
* 99.3
+2.25
                                                                                   # 59.50
+2.50
+2.75
+3.00
                                                                                                   # 70.82
+3.25
+3.50
                                                                                                                                       * 99.33
+3.75
                                                                                                                                        £100.00
+4.00
        5.0000% =
PHI
                       -0.6656
       16.0000% = 25.0000% =
                       0.6188
PHI
                       0.9734
PHI
                         2.0516
2.5965
       50.0000% =
PHI
PHI
        75.0000% =
                         2.8267
3.2897
PHI
       84.0000% =
        95.0000% =
PHI
                                     4.6854 CUM WT%
5.3548 CUM WT%
             -1.0000 PHI
M00E=
#00E=
              -0.5000 PHI
                                     20.2142 CUM WT%
47.7912 CUM WT%
              0.7500 PHI
₩00E=
MODE=
               2.0000 PHI
               2.5000 PHI
                                     70.8166 CUM WT%
MODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
-0.3359
STRONGLY COR
GRAPHIC KURTOSIS:
0.9989
MESOKURTIC
                                                      POORLY SORTED
                                                 : STRONGLY COARSE SKEWED
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
           1.9274
```

```
10059 Vag 3053
                       1.1219
3.2683
                                                           KOOS7 page (of3
   5.41 * 0.61
   à.0: ± 0.03
   6.71
7.41
         * 0.05
        + 0.04
   8.01 * 0.03
   8.61 # 0.03
9.31 * 0.00
   9.91 # 0.01
  10.51 # 0.03
  11.81
            # 0.24
                  * 0.51
  14.31
                                  # 1.32
  15.61
                                    * 1.44
                                           # 1.85
  16.91
                                                   # 2.20
  18.21
                                                                   * 3.89

* 3.45

* 3.77

* 4.15

* 4.54

* 5.01

* 5.44

* 5.85

* 6.16
                                                           # 2.68
  20.11
  22.11
23.91
25.91
  28.57
31.01
  34.21
37.41
  41.21
  45.11
49.51
                                                                                                                                    # 6.47
  54.71
                                                                                                                                       * 0 = 0
  60.51
 6.79
 66.81
 ž ģ.
93
  73.91
   臣
 7.05
 81.61
  7.13
 90.51
# 7.20
 100.11
  # 7.26
 111.11
  * 7.30
 123.81
   # 7.33
 137.91
    # 7.37
153.91
£ 7.39
172.51
     # 7.42
193.61
     * 7.45
217.31
     # 7,47
244.81
      £ 7,48
276.21
     ¥ 7.49
312.01 ± 7.54
353.71 ± 7.54
401.71 ± 7.53
457.4! # 7.54
522.01 + 7.56
597.6: # 7.56
       9
                                                     GRANS
                                                                                    4
                                                                                                       5
                                                                                                                          á
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE WUMBER: K0057
WATER TEMP.:
              23
TIME
PHI
                              TIME
                                             INTERVAL
                              OBSERV
               EXPECT
                                             WEIGHT: GRAMS
 -1.00
               7.18
                              7.36
                                           0.04
 -0.75
                             8.62
                8.23
                                           0.00
 -0.50
               9.48
                             9.88
                                           0.00
 -0.25
               10.99
                             11.28
                                           0.10
 0.00
               12.82
                            13.07
```

0.40

0.74

15.06

15.04

0.25

SKEWHESS=

STD DEVIATION= KURTOSIS=

-0.8160

```
21.26
25.59
31.08
                                              Ø.76
                              21.42
                              25.86
                                              0.81
  1.00
                              31.90
38.22
                                              0.87
  1.25
                                              0.88
               38.13
  1.50
                                              9.80
                47.28
                              47.67
               59.31
75.33
                              59.81
75.85
                                              0.46
  2.00
                                              0.30
  2.25
  2.50
               96.92
                              96.94
                                             0.16
               124.36
                             126.39
                                              0.10
  2.75
              166.89
223.18
                             167.35
                                             0.07
  3.00
                              223.71
                                              0.05
  3.50
                                             0.04
                             302,47
              301.85
                             417.54
                                              0.04
              412.30
  3.75
              567.83
                             568.09
                                              0.02
  4.00
TOTAL INMERSED WEIGHT: 6.060696
                     7.5900
CUM, TOT, WEIGHT:
PERCENT WEIGHT ERROR: 25.2350
WEIGHT ERROR >5%
```

0.6339

VARIANCE=

(C0057 page 243

```
04-01-2005
SAMPLE NUMBER: K0057
 CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                 THE COLD THE
PHI
                      ¥ Ø.53
€ Ø.53
 -1.00
-0.75
 -0.50
                       * 0.53
 -0.25
                         * 1.84
                                             * 7.11
 +0.00
                                                                                 ¥ 16.86
 +0.25
                                                                                                                            ¥ 29.38
 +0.50
                                                                                                                                                              # 39,39
 +0.75
                                                                                                                                                                                                      # 50.07
 +1.00
                                                                                                                                                                                                                                                # 61.53
 +1.25
                                                                                                                                                                                                                                                                                       ¥ 73.12
 +1.50
                                                                                                                                                                                                                                                                                                                            # 83.66
# 89.72
  +2.99
 +2.25
+2.50
                                                                                                                                                                                                                                                                                                                                                                         # 95.78
  +2.75
                                                                                                                                                                                                                                                                                                                                                                               # 98.02
 +3.00
                                                                                                                                                                                                                                                                                                                                                                                 # 98.48
 +3.25
                                                                                                                                                                                                                                                                                                                                                                                   * 99.21
 +3.50
                                                                                                                                                                                                                                                                                                                                                                                     € 99.74
                                                                                                                                                                                                                                                                                                                                                                                      #100.00
  +4.80
                      5.0000% = 16.0000% = 25.0000% =
 PHI
                                                                 -0.1003
                                                                   0.2278
  PHI
                                                                       0.4125
 PHI
                                                                      0.9985
  PHI
                       50.0000% =
                        75.0000% =
                                                                        1.5445
  PHI
                                                                        1.7639
                       94.0000% =
  PHI
  PHI
                      95.0000% =
                                                                        2.4070
                                                                                                        0.5270 CUM WT%
29.3808 CUM WT%
73.1225 CUM WT%
                                         -1.0000 PHI
0.5000 PHI
  MODE=
  M00E=
                                            1.5000 PHI
  MODE=
                                                                                                        99.7345 CUM WT%
                                             3.7500 PHI
  MODE=
   FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                                                                                     0.9967
0.7639
                                                                                                                      : COARSE SAND
: MODERATELY SORTED
  GRAPHIC MEAN:
 INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
                                                                                                                                          # MEAR SYMMETRICAL
                                                                                      0.9681
                                                                                                                                            : MESOKURTIC
                                                                                      0.9077
  NORMALIZED KURTOSIS:
                                                                                       0.4758
   FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                                                                             1.1588
  MEAN X=
```

223.38

3.75 412.30 412.97 8.12 4.00 567.83 567.81 0.04 TOTAL IMMERSED WEIGHT: 6.060606 CUM. TOT. WEIGHT: 6.7800 PERCENT WEIGHT ERROR: 11.8700 WEIGHT ERROR >5%

```
84-81-2085
 SAMPLE NUMBER: K0056
  CUMULATIVE CURVE OF DATA
 WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                         PHI
 -1.00 # 0.15
 -0.75 + 0.15
-0.50 * 1.03
-0.25 * 2.21
+0.00 * 2.80
+0.25
+0.50
                              F 6.19
                                                       * 9.44
+0.75
+1.80
+1.25
+1.50
                                                              # 12.83
                                                                          * 15.19
                                                                               ₹ 16.67
                                                                                   * 18.29
* 20.21
 +1.75
+2.00
                                                                                                                          * 27.43
                                                                                                                                                                                     ¥ 43.36
+2.50
+2.75
+3.00
                                                                                                                                                                                                                                                    # 59.88
                                                                                                                                                                                                                                                                                                        £ 73.60
                                                                                                                                                                                                                                                                                                                                                * 84.76
* 93.07
 +3,25
                                                                                                                                                                                                                                                                                                                                                                                            * 97.35
* 99.12
+3.50
+3.75
+4.00
                                                                                                                                                                                                                                                                                                                                                                                                         £100,00
                                                                    0.1620
1.1370
1.9158
                   5.0000% =
16.0000% =
PHI
 PHI
 PHI
                       15.00001 =
                       50.0000% = 75.0000% =
                                                                          2.3504
2.7808
 PHI
 PHI
                                        000% = 2.9790
300% = 3.3629
-1.0000 PHI
 PHI
                     34.0000% =
PHI
                     95.0000% =
                                                                                                              0.1475 CUM WT%
 MODE=
                                        -0.2500 PHI
0.2500 PHI
0.7500 PHI
2.5000 PHI
                                                                                                            2.2124 CUH WTZ
MODE=
                                                                                                           6.1947 CUM NT%
 MODE=
                                                                                                          12.8319 CUM WT%
59.8820 CUM WT%
 MODE=
 HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
INCL GR
INCL GRAPH SKEWNESS:
GRAPHIC KURTOSIS:
WORMALIZED KURTOSIS:
                                                                                         0.6026
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS: MEAN X= 2.2982
```

```
40056 page 3 of 3
 STO DEVIATION=
KURTOSIS=
                           0,9430
                            3.6999
   5.5: + 0.00
    6.21 # 0.03
   6.91 # 8.83
7.51 * 8.83
   8.11 # 0.02
   9.81 # 0.02
   9.41 + 0.03
  10.11 * 6.05
  10.71
          # 6,10
  17.01
                  # 0.41
                                     # 1.25
  13.21
                                           5
/
* 1.54
* 1.80
* 2.97
* 2.38
* 2.66
* 2.79
  14.51
                                    # 1.17
  15.84
  19.41
  20.31
  22.21
24.21
                                                                                      £ 3.40
  28,61
                                                                                                        * 4.10
                                                                                                                        # 4.81
  31.21
  34.41
                                                                                                                                        # 5.50
  37.61
                                                                                                                                                   # 6.97
  41.41
                                                                                                                                                              # 6.52
  45.31
  6.83
  49.81
    ¥.
7.05
  54.9¦
₩ 7.22
 40.4;
# 7.34
  67.11
 # 7.48
74.11 # 7.57
81.71 # 7.62
  90.71
           * 7,66
100.31
           # 7.69
# 7.72
111.24
             * 7.73
124.01
            * 7.74
* 7.74
* 7.77
* 7.77
138.11
154.11
172.71
193.81
             * 7.77
* 7.77
217.41
245.01
276.41
             * 7.88

* 7.80

* 7.80

* 7.82

* 7.82

* 7.83
312.21
353.81
401.81
457.51
522.21
597.81
         8
                                                               GRAMS
                                                                                                     124
                                                                                                                           E.
                                                                                                                                                  ò
UNIVERSITY OF MAINE RAPID SEDIMENT AMALYZER
04-01-2005
SAMPLE NUMBER: K0058
WATER TEMP.: 23
PHI
                 TIME
                                   TIME
                                                     INTERVAL
                                   08GERV
7.52
                 EXPECT
                                                     WEIGHT: SRAMS
                  7.18
8.23
 -1.00
                                                    0.03
 -0.75
                                   8.78
                                                    0.00
 -0.50
                  9.48
                                  10.10
                                                    0.03
 -0.25
                  18.99
                                  11.36
13.23
                                                    0.20
  0.00
                 12.82
                                                    1.00
  0.25
                 15.86
                                  15.26
                                                    6.10
  0.50
                 17.82
                                  18.40
                                                    0.72
  0.75
                  21.26
                                  21.58
                                                    0.50
                 25.59
31.08
38.13
                                 26.08
31.19
38.44
  1.00
                                                    0.83
  1.25
                                                   1.41
                                 47.84
59.31
75.35
97.10
                 47.29
59.31
75.33
  1.75
                                                    0.83
  2.00
2.25
                                                    0.34
                                                    0.25
                 96.92
  1.50
                                                   0.10
  2.75
                126.36
                                126.54
                                                    0.05
  3.00
                166.89
                                164.91
                                                   0.03
```

-1.0553

SKEWNESS=

3.25

223.19

223.21

0.02

```
3.75 412.30 412.71 0.04
4.00 567.83 568.25 0.00
TOTAL INMERSED WEIGHT: 6.060606
CUM. TOT. WEIGHT: 7.8300
PERCENT WEIGHT ERROR: 29.1950
WEIGHT ERROR >5%
```

10058 page 2 of 3

```
04-01-2005
SAMPLE NUMBER: K0058
CUMULATIVE CURVE OF DATA
MEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
        PHI
-1.00 * 9.38
-0.75 * 0.39
-0.50 * 0.77
-0.25 * 3.32
                        F 16.09
+8.68
+0,25
                           # 17.37
                                        * 26.56
* 32.95
+0.50
+0.75
                                                             # 43.55
+1.25
+1.50
+1.75
                                                                                   # 61.56
                                                                                                        * 78.89
                                                                                                                    # B9.40
+2.25
+2.25
+2.75
+3.80
                                                                                                                           ¥ 93.74
                                                                                                                              # 94.93
                                                                                                                               ¥ 98.21
                                                                                                                               # 98.85
                                                                                                                                ¥ 99.23
+3.25
                                                                                                                                * 99.49
+3.50
                                                                                                                                 £100.00
                                                                                                                                  *196.88
44.90
      5.0000% = -0.2171
16.0000% = -0.0018
25.0000% = 0.4575
PHI
PHI
PHI
                      1.0895
1.4449
1.4227
2.0985
      50.0000% =
PHI
       75.0000% =
PHI
PHI
      94.8088% =
      95.00001 =
PHI
MODE=
             -1.0000 PHI
                                    0.3831 CUN W7%
                                   16.0920 CUM WT%
26.5645 CUM WT%
             0.0000 PHI
MODE=
             0.5000 PHI
MODE=
                                  61.5581 CUN WT%
100.0000 CUN WT%
              1.2500 PHI
3.7500 PHI
MODE=
HODE=
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN:
INCL GRAPH STD DEV:
O.7570:
INCL GRAPH SKEWNESS:
O.2361:
COARSE SKEWED
ORDERSTEN HOTOGREEN
GRAPHIC KURTOSIS:
                            0.7611
                                               : MESOKURTIC
                             0.4981
NORMALIZED KURTOSIS:
FOLLOWING ARE PARAMETERS BY THE METHOD DF MOMENTS:
MEAN X= 1.1973
```

```
Koobs page (at3
STD DEVIATION=
KURTOSIS=
                        0.7326
3.3025
  5,51 # 0.02
   6.21 * 0.02
  5.91 * 0.02
7.51 * 8.04
  8.11
        # 0.04
  8.81
        # 0.04
  9,41
          # 0.89
  10.11
         * 8.86
 10.71
        + 0.05
  12.01
         * 0.09
 13.21
          # 0.16
 14.51
            # 0.22
 15.81
             € 0.28
 17.11
                     # 0.67
 18.31
                 * 0.44
 20.34
                   * 0.58
                    ₩ 0.69
 22.21
                       * 0.77
  24.11
 26.01
                        # 0.83
                         * 0.91
  28.61
 31.21
                          * 0.95
 34.41
                           * 0.98
                           # 1.02
 41.41
                            # 1.87
                             # 1.10
 49.71
                               * 1.14
                                        * 1.64
* 2.01
* 2.43
* 2.86
 54.91
                                 * 1.30
 60.61
 67.01
 74.01
 B1.71
                                                                         ¥ 3.35
 98.71
                                                                                       * 4.45

* 4.45

* 5.45

* 5.71

* 5.71

* 5.74
                                                                                # 3.69
100.31
111.25
124.01
139.11
154.11
193.81
217.41
245.01
                                                                                                                                  医 在14
276.41
                                                                                                                                     # 6.29
                                                                                                                                      # d.39
353.81
                                                                                                                                         # 6.50
                                                                                                                                          # 6.54
401.81
457.51
                                                                                                                                           ¥ 6.5
522.21
                                                                                                                                           # 6.6
                                                                                                                                             # 6
597.71
.74
        8
                                                       GRANS
                                                                                       亞
                                                                                                           5
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
04-01-2005
SAMPLE NUMBER: K0065
WATER TEMP.: 23
               TIME
                              TIME
                                              INTERVAL.
               EXPECT
                               OBSERV
                                              WEIGHT: GRAMS
                              7.52
-1.80
                7.18
                                             0.04
-0.75
                8.23
                                             0.00
-0.50
                9.48
                             10.05
                                             0.07
               10.79
 -0.25
                              11.31
                                             0.02
 0.00
0.25
               12.82
15.06
                             13.23
15.21
                                             0.08
                                             0.14
  0.50
               17.82
                             18.34
                                             0.14
               21.26
25.59
31.08
  0.75
                              21.53
                                             0.21
                             26.03
  1.00
                                             0.18
  1.25
                              31.19
                                             0.12
  1.50
               38.13
                                             0.08
                             38.22
               47.28
59.31
75.33
96.92
  1.75
                             47.84
                                             0.09
                             59.31
75.96
97.10
  2.00
                                             0.44
  2.25
2.50
                                             1.64
  2.75
              126.36
                             124.54
                                             0.99
                            167.52
223.21
  3.00
              166.89
                                             0.87
  3.25
              223.19
                                             0.65
  3.50
              301,85
                            301.98
                                             0.37
                                             8.20
              412.30
                            417.71
```

SKEWNESS=

4.00

567.83

TOTAL IMMERSED WEIGHT:

568.25

6.040406

0.05

8.8131

```
04-01-2005
SAMPLE NUMBER: K0065
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
                                                                                                                         100%
                                                                50%
            PHI
-1.02 ± 0.60
-0.75 ± 0.60
-0.50 ± 0.91
-0.25 ± 1.21
+0.00 ± 2.42
           # 4.53
+0.25
            * 5.55
* 9.82
+0.50
+1.00
                      # 12.54
                      * 14.35
* 15.56
+1.25
                          * 15.30
* 16.92
* 23.56
+1.50
+2.00
+2.25
                                                    * 38.52
                                                                     # 54,23
+2.75
                                                                                      # 67.52
                                                                                                      * 80.56
                                                                                                                # 96,49
+3.25
+3.50
+3.75
                                                                                                                       # 96.07
                                                                                                                           # 99.89
                                                                                                                            £100.00
+4.00
PHI
        5.0000% =
                     0.3054
                     1.5911
2.0240
2.4327
       14.8000% = 25.0000% =
PHI
PHI
PHI
       50.0000% =
                      2.8922
3.0949
3.4520
       75.0000% =
84.0000% =
PHI
PHI
PHI
      95.00001 =
                                   0.4042 CUM WT%
0.9043 CUM WT%
4.5317 CUM WT%
             -1.0000 PHI
MODE=
             -0.5000 PHI
MODE=
            0.2500 PHI
0.7500 PHI
MODE=
                                   9.8187 CUM WT%
MODE=
₩00E=
               2.5000 PHI
                                  54.2296 CUM WT%
FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
                            2.3662
0.8527
                                     : FINE SAND
: MODERATELY SORTED
GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                                            : COARSE SKEWED
                           -0.2423
                            1.4853
0.5976
GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
                                             : LEPTOKURTIC
FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                        2,4094
HEAN X=
```

```
KOOLOS page 3 of 3
KOOLOS page 1 of 3
STO DEVIATION=
KURTOSIS=
                        4.3388
  5.71 8-0.01
  6.31 x-0.02
  7.81 #-0.01
  7.41 + 0.00
 8.21 + 0.01
8.91 + 8.10
  9.61
          # 0.14
          £ 0.15
 10.21
 19.81
          # M.17
           # 0.19
            * 0.28
 13.31
 14.41
             # 0.32
                # 6.50
 15.91
  17.21
                     # 8.65
                         # 0.81
 18.51
                             * 1.01
  20.41
 22.31
                                £ 1.14
                                  * 1.27
  24.21
                                    ¥ 1.37
 26.11
                                       * 1.58
  29.71
                                         £ 1.62
 31.31
                                                # 1.97
 34.51
37.71
                                                         £ 2.37
                                                                                          * 4.02

* 4.38

* 4.65

* 4.97

* 5.24

* 5.68

* 5.68

* 5.84

* 5.84
                                                                    * 2.88
  41.51
                                                                               # 3.38
 45,41
  49.91
 55.01
  69.71
 67.11
74.11
 81.81
 90,81
100.41
111.31
                                                                                                                                            # 6.35
124.11
                                                                                                                                               # 4.42
                                                                                                                                                £ 6.49
154.21
                                                                                                                                                * 6.56
 172.74
                                                                                                                                                 # 6.54
 193.91
                                                                                                                                                  8 6.6
 217.61
                                                                                                                                                  £ 6.6
245.11
276.41
.70
312.31
                                                                                                                                                     书台
353.91
 .71
401.91
4.79
457.41
.73
522.31
.73
597.81
 .74
                                                                                                                 5
                                                   2 GRAMS
                                                                                            4
UNIVERSITY OF MAINE RAPID SEDIMENT ANALYZER
 04-01-2005
SAMPLE NUMBER: 23
WATER TEMP.: 23
TIME
 SAMPLE NUMBER: K0056
                                 TIME
                                                 WEIGHT: GRAHS
                 EXPECT
                                 OBSERV
                                                0.00
                  7.18
  -1.80
                                                0.01
                                 8.23
  -0.75
                  8.23
                  9,48
                                 9.55
                                                0,13
  -0.50
                 10.99
                                                0.04
                                11.47
  -0.25
  3.86
                 12.82
                                13.34
                                                0.10
                               15.26
17.85
21.69
                                                0.13
                 15.06
   0.25
                17.82
21.24
25.59
31.88
38.13
  0.50
                                                0.37
   1.00
                                26.14
                                31.25
                                                9.25
   1.25
                                                0.83
   1.50
                47.28
59.31
75.33
                                59,42
                                                8,94
   2.00
   2.25
                                75.46
                                                0.68
```

0.53

0.55

96,92

2.50

-1.1721

0.9139

SKEWMESS=

```
0.13
                                        302.09
                                                              0.13
                    301.85
   3.50
3.36 3412.30 412.82
4.00 567.83 568.36
TOTAL IMMERSED WEIGHT: 3.060306
                                                               0.03
CLM. TOT. WEIGHT: 5.7760
PERCENT WEIGHT ERROR: (1.7650
WEIGHT ERROR 05%
```

MEAN X=

Koole page 2 of 3

```
04-01-2005
SAMPLE NUMBER: KO046
CUMULATIVE CURVE OF DATA
WEIGHTS AS PERCENTAGE OF CUMULATIVE TOTAL
-1.00 * 0.00
-0.75 * 0.15
-0.50 * 2.6
-0.25 * 2.
         * 2.87
* 2.56
* 4.14
                2.52
4.14
* 6.95
* 19.78
* 16.25
* 20.24
* 27
+0.00
+0.25
+0.75
+1.00
+1.25
                                                               ¥ 36.19
+1.50+1.75
                                                                                         # 54.86
                                                                                                               # 67.95
 +2.00
                                                                                                                                        * 85.82
* 93.94
* 95.
                                                                                                                             # 77,99
+2.25
+2.50
+2.75
                                                                                                                                                        * 95.72
* 97.64
 +3.00
+3.25
                                                                                                                                                               * 99.56
+3.50
                                                                                                                                                              #100.00
                                                                                                                                                               £199.89
 14.00
                           0.1125
0.7385
1.2718
          5.0000% = (6.0000% =
PHI
 PHI
         25.0000% =
 PHI
                            1.6932
 PHI
          50.0000% =
         75.0000% = 84.0000% =
                              2.1756
 PHI
 PHI
        95.0000% =
 PHI
                              2,8990
                 -0.5000 PHI
0.7500 PHI
1.7500 PHI
2.7500 PHI
                                              2.0679 CUM WT%
 MODE=
                                            16.2482 CUM WIX
 M00E=
                                            54.0620 CUH WT%
 #80E=
                                           93.9439 CUH MT%
 MODE=
                                            97.6366 CUH HT%
 #00E=
                   3.2500 PH1
 FOLLOWING ARE THE FOLK-WARD STATISTICAL PARAMETERS:
GRAPHIC MEAN: 1.6246 : MEDIUM SAND
THE GRAPH OF DEV. 8 8486 : WODERSTELV S
 GRAPHIC MEAN:
INCL GRAPH STD DEV:
INCL GRAPH SKEWNESS:
                                                          : MODERATELY SORTED
: COARSE SKEWED
                                    0.8480
                                  -0.1277
1.2637
0.5582
                                                           : LEPTOKURTIC
 GRAPHIC KURTOSIS:
NORMALIZED KURTOSIS:
 FOLLOWING ARE PARAMETERS BY THE METHOD OF MOMENTS:
                               1.7622
```

SKEWNEGS= -0.4543 STD DEVIATION= 0.8323 KURTOSIS= 3.2970

X0066 page 343

Appendix D:

Metadata Sheets

GIS Sediment Location Mapping

Sand Classification	fine, mod.well sorted	fine, mod. well sorted	fine, mod. sorted	fine, poorly sorted	fine, poorly sorted	fine, poorly sorted	v. fine, mod. well sorted	v. fine, mod. sorted	medium, poorly sorted	fine, poorly sorted	fine, mod. well sorted	medium, poorly sorted	fine, mod. sorted	fine, mod. Well sorted	fine, mod. Well sorted	fine, mod. Well sorted	fine, well sorted	fine, well sorted	fine, mod. sorted	fine, well sorted	fine, well sorted	fine, mod. Well sorted	fine, mod. well sorted	fine, mod. well sorted	Is N/A	medium, mod. Well sorted	_	-	N/A	coarse, well sorted	fine, mod. well sorted	fine, mod. well sorted	A1 / A
Color	dark gray	olive gray	dark gray	dark gray	dark gray	olive gray	dark gray	dark gray	olive gray	olive gray	dark gray	dark gray	dark olive gray	olive gray	dark gray	dark gray	dark gray	olive gray	olive gray	gray	olive gray	olive gray	gray	olive gray	mixed gravel/shells	olive gray	dark grayish brown	N/A	N/A	olive gray	olive gray	olive gray	0.00
Sediment Type	muddy sand	muddy sand	sandy mud	gravelly muddy sand	gravelly sand	muddy sand	muddy sand	muddy sand	muddy sand	muddy sand	muddy sand	sand	muddy sand	muddy sand	muddy sand	sand	sand	muddy sand	muddy sand	sand	sand	sand	muddy sand	muddy sand	muddy gravel	muddy sandy gravel	muddy gravel	N/A	N/A	sandy gravel	muddy sand	muddy sand	lowers about
Comments	3 repeats			3 repeats			3 repeats			3 repeats			3 repeats			3 repeats			3 repeats			3 repeats						BR	BR				
	70.28.31	/0 28.31	70 28.31	70 29.60	70 29.60	70 29.60	70 29.80	70 29.80	70 29.80	70 30.42	70 30.42	70 30.42	70 31.42	70 31.42	70 31.42	70 32.04	70 32.04	70 32.04	70 32.88	70 32.88	70 32.88	70 33.11	70 33.11	70 33.11	70 27.55	70 23.54	70 16.730	70 18.50	70 18.903	70 18.777	70 19.911	70 21.045	70 22 863
Latitude	43 20.15	43 20.15	43 20.15	43 20.02	43 20.02	43 20.02	43 20.24	43 20.24	43 20.24	43 20.31	43 20.31	43 20.31	43 19.75	43 19.75	43 19.75	43 19.87	43 19.87	43 19.87	43 18.98	43 18.98	43 18.98	43 18.69	43 18.69	43.18.69	43 19.63	43 18.64	43 17.095	43 19.45	43 19.86	43 20.436	43 19.497	43 18.461	43 18.911
OBJECTID	KUUUI-SA	K0001-5B	K0001-SC	K0002-SA	K0002-SB	K0002-SC	K0003-SA	K0003-SB	K0003-SC	K0004-SA	K0004-SB	K0004-SC	K0005-SA	K0005-SB	K0005-SC	K0006-SA	K0006-SB	K0006-SC	K0007-SA	K0007-SB	K0007-SC	K0008-SA	K0008-SB	K0008-SC	K0009	K0010	K0011	K0012	K0013	K0014	K0015	K0016	K0017

N/A N/A medium, mod. Sorted fine, mod. sorted N/A	v. fine, mod. well sorted coarse, mod. Sorted N/A medium, mod. Sorted medium, mod. sorted	N/A N/A medium, mod. sorted fine, mod. well sorted	fine, mod. sorted medium, poorly sorted fine, mod. sorted fine, poorly sorted N/A	coarse, mod. sorted medium, poorly sorted fine, poorly sorted medium, mod. Sorted fine, mod. sorted N/A	N/A N/A medium, mod. Well sorted N/A v. fine, mod. well sorted fine, mod. well sorted fine, mod. sorted fine, mod. sorted
N/A N/A dark olive gray dark gray N/A	olive gray dark gray N/A olive olive	N/A N/A N/A olive gray	olive olive olive gravel	olive olive olive olive N/A	N/A N/A olive gravel olive gray olive gray olive gray
N/A N/A muddy sand sandy mud N/A	muddy sand muddy sandy gravel N/A muddy sand gravelly muddy sand	N/A N/A N/A muddy sand muddy sand	muddy sand muddy sand sandy mud muddy sand gravel	muddy sandy gravel muddy gravel sandy mud gravelly muddy sand muddy sand N/A	N/A N/A muddy sand gravel muddy sand muddy sand sandy mud
×1					
BR BR	BR BR	BR BR			BR BR
24 24 28 29 29	70 29.16 70 29.16 70 24.345 70 24.099 70 23.337	70 23.367 70 23.367 70 23.314 70 23.107	70 21.290 70 19.831 70 18.836 70 20.77 70 19.35	70 16.29 70 15.46 70 15.30 70 13.95 70 16.12	70 17.55 70 26.02 70 27.25 70 29.50 70 30.28 70 27.74 70 28.07
17.31 17.26 19.112 18.71 19.63	43 20.132 43 20.132 43 19.070 43 18.956 43 19.267 43 18 489	43 18.212 43 17.701 43 17.631 43 17.338	43 16.920 43 16.890 43 17.722 43 17.72	43 18.40 43 17.37 43 18.79 43 20.02 43 20.57	43 21.55 43 17.25 43 17.18 43 16.92 43 18.66 43 20.09 43 19.94 43 18.94
K0018 K0019 K0020 K0021 K0022	K0023-A K0023-B K0024 K0025 K0026	K0028 K0028 K0030 K0031	K0032 K0033 K0034 K0035 K0036	K0039 K0039 K0040 K0041 K0042	K0043 K0044 K0045 K0046 K0047 K0048 K0049

A/N	coarse, very well sorted	N/A	N/A	A/N	fine, mod. sorted	coarse, mod. Sorted	coarse, mod. Sorted	medium, poorly sorted	fine, mod. sorted	medium, poorly sorted	coarse, mod. Sorted	medium, mod. Well sorted	fine, mod. well sorted	fine, mod. sorted	medium, mod. sorted	medium, mod. Sorted
N/A	dark gray	N/A	N/A	N/A	olive	olive	dark gray	olive	olive gray	olive	olive	olive	olive	olive	olive	olive
N/A	sandy gravel	N/A	N/A	N/A	muddy sand	gravelly muddy sand	muddy sandy gravel	muddy sand	muddy sand	muddy sand	gravelly muddy sand	muddy sand	muddy sandy gravel	muddy sand	gravelly muddy sand	muddy sand
BR		BR	BR	BR												
70 29.40	70 28.71	70 28.29	70 28.05	70 26.47	70 21.52	70 21.308	70 20.987	70 21.00	70 20.610	70 20.33	70 20.232	70 18.390	70 18.78	70 19.30	70 18.01	70 18.73
43 17.80	43 17.96	43 17.43	43 18.51	43 19.67		43 19.866		43 18.89		43 19.44		-	43 19.38	43 18.94	43 18.71	43 18.32
K0051	K0052	K0053	K0054	K0055	K0056	K0057	K0058	K0059	K0060	K0061	K0062	K0063	K0064	K0065	K0066	K0067