

C.1

HYDRAULICS DIVISION  
TECHNICAL NOTE

DATE: February 1983 REPORT NO: 83-05

TITLE: Particle Size Data Report - Sediment Bank

AUTHOR: G. A. Duncan

REASON FOR REPORT: This report responds to a request for particle size data from Dr. R. A. Bourbonniere, AED.

CORRESPONDENCE FILE NO:

5105 (Study No. 302)

## 1.0 INTRODUCTION

This report responds to a request for grain size analysis on two groups of samples submitted by Dr. R. A. Bourbonniere. The first group of 22 samples are from a Benthos core E-30 from Lake Ontario, Appendix 1. The second Group of 17 samples are from a piston core PS7 from Lake Erie, Appendix 2.

## 2.0 PROCEDURE

The Sieve and Sedigraph Method which provides sand, silt and clay percentages was used to analyse the samples.

Briefly the procedure consists of:

1. Splitting the sample to 2g.
2. Removing particles large enough to block Sedigraph Suction Tube (0.088 mm).
3. Dispersing sample in a Calgon suspension.
4. Automatic analysis with the Sedigraph.
5. Processing the results with SIZDIST: a FORTRAN IV computer program (Sandilands and Duncan, 1980).

## 3.0 RESULTS

For the Sieve and Sedigraph Method, the output consists of:

1. A histogram of the frequency distribution.
2. The percentage and cumulative percentages of the material occurring within each 1/2 PHI unit.
3. Moment measure statistics (Krumbein & Pettijohn, 1938) and graphic (Folk and Ward, 1957) statistics.
4. Percentiles.
5. Percent gravel, sand, silt and clay.
6. Ratios used to plot Folk's Ternary Classification.
7. Shepard (1954) and Folk (1974) Ternary Classifications.

REFERENCES

- Duncan, G. A. and LaHaie, G. G., 1979. "Size Analysis Procedures Used in the Sedimentology Laboratory, NWRI". NWRI, CCIW, Hydraulics Division Manual, September 1979.
- Folk, R. L., 1968. "Petrology of Sedimentary Rocks". Hemphill Publishing Co., Austin, Texas 182 p.
- Folk, R. L. and Ward, W. C., 1957. "Brazos River Bar: A Study in the Significance of Grain Size Parameters". Jour. Sed. Petrology, V. 27, pp. 3-26.
- Krumbein, W. C. and Pettijohn, F. J., 1938. "Manual of Sedimentary Petrography". Appleton-Century-Crofts, New York, 549 p.
- Sandilands, R. G. and Duncan, G. A., 1980. "SIZDIST - A Computer Program for Size Analysis". NWRI, CCIW, Hydraulics Division Technical Note, Report No. 80-08.
- Shepard, F. P., 1954. "Nomenclature Based on Sand-Silt Ratios". Jour. Sed. Petrology, V. 24, pp. 151-158.

LC81 E30 S.6-7 C\*

## SEDIGRAPH ANALYSIS

PHI PCT. COMPT.

02/06/63

3.50		
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	.53	
6.00	1.07	
6.50	1.60	
7.00	3.21	***
7.50	4.81	
8.00	4.28	****
8.50	9.09	*****
9.00	8.35	*****
9.50	14.44	*****
10.00	10.70	*****
10.50	25.13	
11.00	10.70	*****
11.50	35.83	*****
12.00	11.76	*****
12.50	47.53	*****
13.00	10.70	*****
13.50	53.29	*****
14.00	9.63	*****
14.50	67.91	*****
15.00	7.49	*****
15.50	75.40	
16.00	6.42	*****
16.50	81.82	
17.00	4.28	*****
17.50	86.10	
18.00	5.35	*****
18.50	91.44	
19.00	-0.23	*****
19.50	95.72	
20.00	-0.23	*****
**	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.62 -0.61 .65 -.51 KRUGERSON + PETTILJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.61 1.31 .14 .97 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARCO, 1967

PERCENTILES	MEDIAN	8.61	5TH	5.02	16TH	7.07	25TH	7.45
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	35.83	PCT.GRAV+SAND/SILT+CLAY	.00	(SEDIGRAPH)	35.83	(SEDIGRAPH) 64.17
LABEL'S SHEPARD -SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

L081 E31 S 6-9 CM

## SEDIGRAPH ANALYSIS

PHI PCT. COMPT.

02/06/83

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	1.01	+
6.00	1.01	+
6.00	2.02	++
6.50	3.03	++++
6.50	5.05	++++
6.50	6.06	++++
7.00	7.07	++++++
7.00	15.15	+++++-----
7.50	10.10	+++++-----
7.50	25.25	-----
8.00	9.69	-----
8.00	34.34	-----
8.50	12.12	-----
8.50	48.46	-----
9.00	12.12	-----
9.00	53.59	-----
9.50	11.11	-----
9.50	69.70	-----
10.00	6.06	-----
10.00	75.76	-----
10.50	6.06	-----
10.50	61.62	-----
11.00	4.04	-----
11.00	85.66	-----
11.50	4.04	-----
11.50	89.90	-----
12.00	4.04	-----
12.00	93.94	-----
12.00	6.06	-----
12.00	100.00	-----

MEAN ST.DEV. SKEWNESS KURTOSIS

3.95 1.04 .10 -.08 KRUMBEIN + PEITZJOHN (1958) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.65	5TH	6.20	16TH	7.04	25TH	7.49
			75TH	9.34	34TH	10.77	95TH	-----
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	34.34	(SEDIGRAPH)	65.66	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	34.34	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK (GNE) - MUD					(SDS) - MUD			

L081 E33 S 10-11 CM

## SEDIGRAPH ANALYSES

PHI PCT. CONCET.

02/03/63

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	2.13	**
6.00	3.13	
6.50	5.32	****
7.00	10.64	
7.50	7.45	****
8.00	13.09	****
8.50	10.64	****
9.00	28.72	*****
9.50	9.37	*****
10.00	34.30	*****
10.50	10.64	*****
11.00	43.94	*****
11.50	10.64	*****
12.00	53.57	*****
12.50	8.51	*****
13.00	68.39	*****
13.50	5.32	
14.00	73.46	
14.50	6.38	****
15.00	79.79	
15.50	4.26	***
16.00	84.04	
16.50	5.32	****
17.00	39.36	
17.50	3.72	***
18.00	93.69	
18.50	6.91	****
19.00	100.00	

MEAN ST.DEV. SKENNESS KURTOSIS

8.49 1.65 .39 -.74 BRONZELN & SETT JOHN (-935) PERCENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINE ARE NOT RESOLVED, OBTAIN FOLK STATE. GRAPHICALLY

PERCENTILES MEDIAN 8.65 5TH 8.35 16TH 8.66 25TH 7.33  
75TH 13.13 84TH 11.60 95TH \*\*\*\*\*PCT. GRAVEL .00 SAND .00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 36.30 (SEDIGRAPH) 61.70

GRAVEL+SAND .00 SILT/(SILT+CLAY) 38.30 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPHERD - SILTY CLAY FOLK(GM)-MUD (S031-MUD)

LOG1 E36 B 12-18 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

12/03/83

0	0.00	
4.00	0.00	0.00
4.50	0.00	1.00
5.00	0.00	0.00
5.50	2.04	**
6.00	2.04	
6.50	6.63	****
7.00	7.65	*****
7.50	16.33	*****
8.00	9.18	*****
8.50	25.51	*****
9.00	13.27	*****
9.50	36.78	*****
10.00	10.20	*****
10.50	43.98	*****
11.00	10.20	*****
11.50	59.18	*****
12.00	10.20	*****
12.50	69.39	*****
13.00	7.14	*****
13.50	76.53	*****
14.00	5.10	*****
14.50	81.63	
15.00	4.06	*****
15.50	35.71	*****
16.00	4.05	*****
16.50	33.60	*****
17.00	3.06	*****
17.50	92.86	*****
18.00	3.06	*****
18.50	95.92	*****
19.00	4.08	*****
19.50	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

8.13 1.83 .20 -.26 KROUNDEIN + FETTER JOHN (1932) CURRENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.5 PHI8.27 1.88 .21 1.04 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	8.05	5TH	8.72	16TH	8.48	25TH	8.97
			75TH	9.39	84TH	10.23	95TH	11.85
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	48.98	(SEDIGRAPH)	51.02	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	48.98	PCT. GFAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD					(SOS)-MUD			

L081 E3. R 16-17 C\*

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

6/2/03/33

0	0.00	
4.00	0.00	0.00
4.50	0.00	0.00
5.00	.55	.55
5.50	1.65	2.20
6.00	0.00	2.20
6.50	5.49	***
7.00	4.40	***
7.50	12.09	***
8.00	10.99	***
8.50	23.08	***
9.00	10.99	***
9.50	34.07	***
10.00	12.09	***
10.50	46.15	***
11.00	12.09	***
11.50	56.24	***
12.00	9.89	***
12.50	68.13	***
13.00	7.69	***
13.50	75.52	***
14.00	7.69	***
14.50	63.52	***
15.00	5.49	***
15.50	39.01	***
16.00	5.49	***
16.50	94.51	***
17.00	4.40	***
17.50	99.45	***
18.00	.55	100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

6.75 1.66 .03 -.59 BROOKFIELD + PETTI JOHN (1935) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI6.79 1.64 .11 .92 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	3.66	5TH	6.26	16TH	7.18	25TH	7.59
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	34.07	(SEDIGRAPH)	65.93	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	34.07	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

L081 E34 B 14-15 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CONCENT.

02/02/83

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	1.05	
6.00	5.26	*****
6.50	6.32	*****
7.00	12.63	*****
7.50	9.47	*****
8.00	22.11	*****
8.50	11.58	*****
9.00	33.63	*****
9.50	11.58	*****
10.00	45.26	*****
10.50	10.53	*****
11.00	55.79	*****
11.50	9.47	*****
12.00	65.26	*****
12.50	7.37	*****
13.00	72.63	*****
13.50	2.26	*****
14.00	77.09	*****
14.50	5.26	*****
15.00	63.16	*****
15.50	5.79	*****
16.00	86.95	*****
16.50	11.58	*****
17.00	100.00	*****

## ST.DEV. SKEWNESS KURTOSIS

8.08 1.42 .09 -.00 KRUMBEIN + PETTIGRUE (1976) MOMENT MEASURES  
FOR SIZE RANGE -4.0 TO 11.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.23	5TH	5.88	16TH	6.68	25TH	7.13			
				75TH	9.73	84TH	10.57	95TH	*****		
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	(SEDIGRAPH)	45.26	(SEDIGRAPH)	54.74
GRAVEL+SAND	.00	SILTY(SILT+CLAY)	45.26	PCT.GRAV+SAND/SILT+CLAY	.00						
LABELS	SHEPARD=SILTY CLAY	FOLK(GMS)-MUD						(SCS)-MUD			

L081 E30 S 16-19 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

6/2/65/63

5.0	0.00	
4.00	0.00	
4.50	1.81	**
5.00	1.81	*
5.50	0.50	*
5.50	2.41	*
5.50	1.20	*
5.50	3.61	*
6.00	3.61	**
6.00	7.23	****
6.50	6.02	****
6.50	13.25	****
7.00	6.02	****
7.00	13.25	****
7.50	14.46	*****
7.50	33.73	*****
8.00	13.25	*****
8.00	46.93	*****
8.50	10.84	*****
8.50	57.53	*****
9.00	10.84	*****
9.00	58.67	*****
9.50	2.41	**
9.50	71.08	*****
10.00	12.05	*****
10.00	83.13	*****
10.50	7.23	*****
10.50	90.76	*****
11.00	6.02	*****
11.00	96.39	*****
*****	3.61	****
*****	100.00	

## MEAN ST.DEV. SKENNESS KURTOSIS

8.16 1.62 .39 -.45 KRUMBEIN + PETTIGEHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 11.0 PHI

8.31 1.62 .11 .66 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES MEDIAN 8.1- 5TH 5.69 16TH 6.73 25TH 7.20  
75TH 9.66 84TH 10.06 95TH 10.89

PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 46.93 (SEDIGRAPH) 53.01

GRAVEL+SAND .00 SILT/(SILT+CLAY) 46.99 PCT. GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LO61 E3C 3 06-22 04

## SEDIGRAPH ANALYSIS

PHI PCT. CONCNT.

6/2/03/63

0	0.00	
4.00	0.00	
4.50	1.00	*
5.00	.50	**
5.50	1.00	
6.00	0.00	
6.50	2.00	**
7.00	5.00	***
7.50	5.00	****
8.00	10.00	*****
8.50	8.00	*****
9.00	13.00	*****
9.50	3.00	*****
10.00	26.00	*****
10.50	10.00	*****
11.00	36.00	*****
11.50	12.00	*****
12.00	43.00	*****
12.50	10.00	*****
13.00	55.00	*****
13.50	10.00	*****
14.00	65.00	
14.50	7.00	*****
15.00	75.00	
15.50	9.00	*****
16.00	84.00	*****
16.50	9.00	*****
17.00	93.00	*****
17.50	4.00	*****
18.00	97.00	*****
18.50	3.00	*****
19.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

9.03 1.61 -.16 -.31 KRUMBEIN + PETTIGEOR (1936) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI9.16 1.70 .03 .64 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	9.10	5TH	8.50	16TH	7.36	25TH	7.94
PCT. GRAVEL	.00	SAND	9.00	SILT (PIPETTE)	9.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	26.00	(SEDIGRAPH)	74.00	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	26.00	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD -SILTY CLAY FOLK(GME)-MUD						(SCS)-CLAY		

LO81 E30 E 24-26 CM

## SEDOGRAPH ANALYSES

PHI PCT. CONCENT.

02/08/83

0	6.00	
4.00	6.00	
4.50	1.02	*
5.00	2.04	**
5.50	3.06	
6.00	1.02	*
6.50	2.04	**
7.00	3.06	***
7.50	4.08	****
8.00	5.12	*****
8.50	6.12	*****
9.00	7.14	*****
9.50	8.14	*****
10.00	9.14	*****
10.50	10.14	*****
11.00	11.14	*****
11.50	12.14	*****
12.00	13.14	*****
12.50	14.14	*****
13.00	15.14	*****
13.50	16.14	*****
14.00	17.14	*****
14.50	18.14	*****
15.00	19.14	*****
15.50	20.14	*****
16.00	21.14	*****
16.50	22.14	*****
17.00	23.14	*****
17.50	24.14	*****
18.00	25.14	*****
18.50	26.14	*****
19.00	27.14	*****
19.50	28.14	*****
20.00	29.14	*****
20.50	30.14	*****
21.00	31.14	*****
21.50	32.14	*****
22.00	33.14	*****
22.50	34.14	*****
23.00	35.14	*****
23.50	36.14	*****
24.00	37.14	*****
24.50	38.14	*****
25.00	39.14	*****
25.50	40.14	*****
26.00	41.14	*****
26.50	42.14	*****
27.00	43.14	*****
27.50	44.14	*****
28.00	45.14	*****
28.50	46.14	*****
29.00	47.14	*****
29.50	48.14	*****
30.00	49.14	*****
30.50	50.14	*****
31.00	51.14	*****
31.50	52.14	*****
32.00	53.14	*****
32.50	54.14	*****
33.00	55.14	*****
33.50	56.14	*****
34.00	57.14	*****
34.50	58.14	*****
35.00	59.14	*****
35.50	60.14	*****
36.00	61.14	*****
36.50	62.14	*****
37.00	63.14	*****
37.50	64.14	*****
38.00	65.14	*****
38.50	66.14	*****
39.00	67.14	*****
39.50	68.14	*****
40.00	69.14	*****
40.50	70.14	*****
41.00	71.14	*****
41.50	72.14	*****
42.00	73.14	*****
42.50	74.14	*****
43.00	75.14	*****
43.50	76.14	*****
44.00	77.14	*****
44.50	78.14	*****
45.00	79.14	*****
45.50	80.14	*****
46.00	81.14	*****
46.50	82.14	*****
47.00	83.14	*****
47.50	84.14	*****
48.00	85.14	*****
48.50	86.14	*****
49.00	87.14	*****
49.50	88.14	*****
50.00	89.14	*****
50.50	90.14	*****
51.00	91.14	*****
51.50	92.14	*****
52.00	93.14	*****
52.50	94.14	*****
53.00	95.14	*****
53.50	96.14	*****
54.00	97.14	*****
54.50	98.14	*****
55.00	99.14	*****
55.50	100.00	*****

AN ST.DEV. SKEWNESS KURTOSIS

8.16 1.49 -.11 -.31 KEUMBETIN + PETTIGRAPH (1938) MOMENT MEASURES FOR SIZE RANGE 4.0 TO 11.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED; OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 6.32 5TH 5.73 16TH 6.76 25TH 7.25

75TH 9.54 84TH-10.23 95TH-11.00

PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00

(SEDOGRAPH) 42.56 (SEDOGRAPH) 57.14

GRAVEL+SAND .00 SILT/(SILT+CLAY) 42.86 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GME)-MUD (SCS)-MUD

LOC 1 E 30 S 28-30 On

S1013-47a ANALYSIS

PHI PCT. CONCENT.

02/08/63

5.00	1.00	
4.00	0.00	
4.50	0.00	
5.00	.51	
5.50	.51	
5.50	.51	
5.50	1.01	
6.00	2.02	
6.50	2.02	**
6.50	4.14	****
7.00	4.04	*****
7.00	6.06	*****
7.00	7.07	*****
7.50	15.15	
7.50	7.55	*****
8.00	22.73	*****
8.50	9.60	*****
8.50	32.32	*****
9.00	13.13	*****
9.00	45.45	*****
9.50	12.12	*****
9.50	57.55	*****
10.00	9.09	*****
10.00	66.67	*****
10.50	9.09	*****
10.50	75.76	*****
11.00	7.07	*****
11.00	52.53	*****
11.50	6.06	*****
11.50	65.89	*****
12.00	4.05	*****
12.00	93.43	*****
12.00	6.57	*****
12.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

9.06 1.49 -.09 -.43 KRUMBEIN + PETT JOHN (1935) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	9.19	5TH	6.62	16TH	7.56	25TH	8.12
PCT. GRAVEL	.00	SAND	0.03	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.03	
				(SEDIGRAPH)	22.73	(SEDIGRAPH)	77.27	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	22.73	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS CHECKED -CLAY FOLK(67%)-MUD (SCS)-CLAY

LOG1 E30 B 32-34 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

82/08/03

5.00	0.00	
4.00	0.00	
4.01	1.01	*
4.50	1.01	*
5.00	1.01	*
5.50	2.02	*
5.51	1.01	*
5.53	3.03	*
6.00	2.02	*
6.00	5.05	
6.01	1.01	*
6.50	6.06	
6.54	4.04	****
7.00	10.10	
7.06	6.06	*****
7.50	16.16	
7.58	6.08	*****
8.00	24.24	
8.10	10.10	****, ****, ****, ****
8.50	34.34	*****
9.00	12.12	*****
9.06	46.46	*****
9.50	11.11	*****
9.53	57.58	*****
10.00	10.10	*****
9.09	67.68	
10.50	9.09	*****
7.07	76.77	*****
11.00	7.07	*****
5.54	53.54	*****
11.50	7.58	*****
5.57	91.41	*****
0	5.57	*****
2.02	97.98	**
*****	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

9.57 1.57 -.22 -.07 KRUMBHORN & PETTICOURT (1936) MOMENT MEASURES  
FOR SIZE RANGE -2.0 TO 12.0 PHI9.22 1.76 -.02 1.00 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	9.16	5TH	5.93	16TH	7.49	25TH	8.04
PCT. GRAVEL	.00	SAND	3.00	SILT (PIPETTE)	6.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	24.24	(SEDIGRAPH)	75.76	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	24.24	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD	-CLAY	FOLK(GME)-NUD				(SCS)-CLAY		

L081 E30 S 36-36 CR

## SEDIGRAPH ANALYSIS

PHI : FCT. CONCCT.

02/08/63

PHI	FCT.	CONCCT.
4.00	0.00	0.00
4.50	0.00	0.00
5.00	1.00	-
5.50	2.00	**
6.00	3.00	***
6.50	6.00	****
7.00	10.00	*****
7.50	14.00	*****
8.00	9.00	*****
8.50	23.00	*****
9.00	31.00	*****
9.50	10.00	*****
10.00	41.00	*****
10.50	11.00	*****
11.00	52.00	*****
11.50	18.00	*****
12.00	62.00	*****
12.50	72.00	*****
13.00	20.00	*****
13.50	85.00	*****
14.00	89.00	*****
14.50	95.00	*****
15.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

3.78 1.63 -.16 -.66 KRUMBELIN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 11.5 PHI8.91 1.74 -.06 .88 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARE, 1957PERCENTILES MEDIAN 6.91 5TH 5.83 16TH 7.11 25TH 7.63  
75TH 13.19 84TH 10.72 95TH 11.33PCT. GRAVEL .00 SAND .00 SILT (PIPETTE) .00 CLAY (PIPETTE) .00  
(SEDIGRAPH) 31.00 (SEDIGRAPH) 69.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 31.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

L081 E80 S -6-40 CR

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/03/63

PHI	PCT.	CUMPCT.
4.00	0.00	
4.50	.51	
5.00	0.00	
5.50	.51	
6.00	1.03	
6.50	2.56	
7.00	3.08	***
7.50	3.64	
8.00	3.88	****
8.50	7.15	*****
9.00	7.15	*****
9.50	15.93	*****
10.00	23.08	*****
10.50	23.23	*****
11.00	32.31	*****
11.50	12.31	*****
12.00	44.62	*****
12.50	10.26	*****
13.00	54.87	*****
13.50	5.23	*****
14.00	64.10	
14.50	7.18	*****
15.00	71.28	*****
15.50	7.18	*****
16.00	73.46	*****
16.50	7.18	*****
17.00	85.64	*****
17.50	5.13	*****
18.00	90.77	*****
18.50	9.23	*****
19.00	101.03	*****

MEAN ST.DEV. SKENNESS KURTOSIS

9.06 1.58 -.12 -.43 KRUBBEIN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 9.26 5TH 6.40 15TH 7.51 25TH 8.18

75TH 11.75 84TH 11.39 95TH \*\*\*\*\*

PCT. GRAVEL .00 SAND .00 SILT (PIPETTE) .00 CLAY (PIPETTE) .00  
(SEDIGRAPH) 23.08 (SEDIGRAPH) 76.92

GRAVEL+SAND .00 SILT/(SILT+CLAY) 23.08 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -0247 FOLK(GMS)-MOD (SCS)-CLAY

LC81 630 B 44-46 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/08/63

50	0.00	
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	1.00	*
6.00	1.00	
6.50	5.00	****
7.00	7.00	****
7.50	10.00	*****
8.00	26.00	
8.50	36.00	
9.00	11.00	****
9.50	47.00	*****
10.00	12.00	*****
10.50	59.00	
11.00	10.00	****
11.50	69.00	
12.00	7.00	****
12.50	76.00	
13.00	7.00	****
13.50	63.00	
14.00	6.00	****
14.50	69.00	
15.00	6.00	****
15.50	95.00	
16.00	4.00	****
16.50	99.00	
17.00	1.00	*
17.50	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

6.57 1.61 .05 -.73 RAUHENBACH &amp; REINHOLD (1938) MOMENT MEASURES FOR SIZE RANGE 2.0 TO 12.0 PHI

8.74 1.71 .08 .89 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	8.63	5TH	6.10	16TH	7.00	25TH	7.45
PCT.	GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
					(SEDIGRAPH)	36.00	(SEDIGRAPH)	64.00
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	36.00	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD - SILTY CLAY FOLK(GNS)-MUD (SGS)-MUD

L061 E33 B -6-50 CR

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/06/83

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	1.01	*
5.50	2.02	**
6.00	3.03	***
6.50	6.06	
7.00	9.04	****
7.50	10.10	*****
8.00	6.57	*****
8.50	16.67	*****
9.00	8.59	*****
9.50	25.25	*****
10.00	10.16	*****
8.00	35.35	
8.50	9.09	*****
9.00	13.13	*****
9.50	57.55	*****
10.00	10.10	*****
9.50	67.66	*****
10.00	3.08	*****
10.50	75.76	
11.00	6.06	*****
11.50	81.82	
11.00	5.56	*****
11.50	67.37	
11.50	5.56	*****
11.50	92.93	
12.00	4.64	*****
12.00	96.97	
12.00	3.03	***
12.00	100.00	

MEAN ST. DEV. SKEWNESS KURTOSIS

8.63 1.66 -.03 -.61 KRURBEIN + PETRIJOON (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.79 1.64 .04 .99 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	3.71	5TH	5.83	16TH	6.95	25TH	7.49
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	35.35	(SEDIGRAPH)	64.65	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	35.35	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

L081 E30 B 55-60 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/08/83

50		
0.00	0.00	
0.50	.51	*
4.50	.51	*
5.00	.51	*
5.50	1.01	*
5.50	1.01	*
5.50	2.02	*
6.00	2.04	****
6.00	6.06	
6.50	4.04	****
6.50	10.10	
7.00	6.06	*****
7.00	16.16	
7.50	10.10	*****
7.50	26.26	
8.00	10.10	*****
8.00	36.36	
8.50	9.09	*****
8.50	45.45	
9.00	11.52	*****
9.00	57.07	
9.50	10.10	*****
9.50	67.17	
10.00	8.59	*****
10.00	75.76	
10.50	6.06	*****
10.50	81.82	
11.00	6.06	*****
11.00	57.58	
11.50	5.05	*****
11.50	92.93	
12.00	3.03	***
12.00	95.96	
12.50	4.04	****
12.50	100.00	

MEAN ST.DEV. SKENNESS KURTOSIS

8.59 1.84 -.03 -.59 KRUMBELN + REILLYJOHN (1986) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.79 1.83 .06 .97 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WAFC, 1957

PERCENTILES	MEDIAN	8.70	5TH	3.67	16TH	6.99	25TH	7.44
PCT.	GRAVEL	.00	SAND	9.00	SILT (PIPETTE)	1.00	CLAY (PIPETTE)	0.00
					(SEDIGRAPH)	36.36	(SEDIGRAPH)	63.64
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	36.36	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LOC1 E30 S 65-70 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

52/08/63

5.00	0.00	
4.50	.50	*
4.00	0.00	.
3.50	1.01	*
3.00	1.51	-
2.50	2.01	**
2.00	3.02	***
1.50	6.53	****
1.00	5.03	*****
0.50	11.56	*****
0.00	7.04	*****
-0.50	16.59	*****
-1.00	9.05	*****
-1.50	27.64	*****
-2.00	9.05	*****
-2.50	36.68	*****
-3.00	12.06	*****
-3.50	48.74	*****
-4.00	12.06	*****
-4.50	60.80	*****
-5.00	9.05	*****
-5.50	69.85	*****
-6.00	9.05	*****
-6.50	78.89	*****
-7.00	6.03	*****
-7.50	84.92	*****
-8.00	7.04	*****
-8.50	91.96	*****
-9.00	9.03	*****
-9.50	96.98	*****
-10.00	3.02	***
-10.50	100.00	***

MEAN ST.DEV. SKENNESS KURTOSIS

5.95 1.60 -.10 -.46 KRUNENSON & PETTIGEOR (1936) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI9.10 1.74 .01 .94 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	9.05	5TH	6.25	15TH	7.32	25TH	7.65
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
					(SEDIGRAPH)	27.64	(SEDIGRAPH)	72.36
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	27.64	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD -SILTY CLAY	FOLK(GMS)-MUD					(SCS)-CLAY		

LC81 E30 B 75-80 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CONCENT.

02/09/63

5.00	0.00	
5.50	0.00	
4.50	0.00	
5.00	0.00	
5.50	1.50	**
5.00	1.50	
6.00	1.00	
6.00	2.50	
6.50	1.50	**
6.50	4.00	
7.00	3.00	****
7.00	7.00	
7.50	6.00	*****
7.50	13.00	
8.00	7.00	*****
8.00	20.00	
8.50	9.00	****
8.50	29.00	
9.00	11.00	*****
9.00	40.00	
9.50	12.00	*****
9.50	52.00	
10.00	10.00	*****
10.00	62.00	
10.50	10.00	*****
10.50	72.00	
11.00	8.50	*****
11.00	50.50	
11.50	9.50	*****
11.50	90.00	
12.00	9.50	*****
12.00	99.50	
12.50	.50	*
12.50	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

9.37 1.63 -.17 -.51 BRUMBEIN + PETT JOHN (1935) MUDMENT MEASURES  
FCR SIZE RANGE 4.0 TO 12.0 PHI

9.44 1.64 -.03 .87 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	9.42	5TH	8.67	16TH	7.71	25TH	8.28
			75TH	10.68	84TH	11.13	95TH	11.76
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	20.00	(SEDIGRAPH)	80.00	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	20.00	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD -CLAY		FOLK(GRS)-UD				(SCS)-CLAY		

L081 E30 S 65-90 CM

## SEDIGRAPH ANALYSIS

PHI FCT. CUMECT.

02/03/63

0	0.00	
1.00	0.00	*
1.50	.50	*
2.00	.50	*
2.50	1.00	
3.00	0.00	*
3.50	1.00	
4.00	3.00	***
4.50	3.00	***
5.00	7.00	****
5.50	4.00	****
6.00	11.00	*****
6.50	7.00	*****
7.00	16.00	*****
7.50	10.00	*****
8.00	23.00	*****
8.50	9.00	*****
9.00	37.00	*****
9.50	12.00	*****
10.00	49.00	*****
10.50	12.00	*****
11.00	61.00	*****
11.50	9.00	*****
12.00	70.00	*****
12.50	8.00	*****
13.00	78.00	*****
13.50	7.00	*****
14.00	85.00	*****
14.50	5.00	*****
15.00	90.00	*****
15.50	6.00	*****
16.00	96.00	*****
16.50	4.00	*****
17.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

8.93 1.61 -.10 -.42 KRJUBELIN + PETTIGRUE (1955) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI9.11 1.76 .03 .95 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957PERCENTILES MEDIAN 9.04 5TH 6.17 16TH 7.36 25TH 7.85  
75TH 10.31 64TH 10.93 95TH 11.92PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 26.00 (SEDIGRAPH) 72.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 26.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

L081 E36 S 95-100 CI

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/02/63

0	0.00	
0.00	0.00	
0.50	.50	
4.50	6.00	
5.00	.50	
5.50	1.00	*
	1.49	
6.00	2.99	
6.50	3.96	****
6.50	6.97	
7.00	4.48	****
7.00	11.44	
7.50	8.96	*****
7.50	20.40	
	8.96	*****
8.00	29.35	
8.50	10.95	*****
8.50	48.30	
9.00	11.94	*****
9.00	52.24	
9.50	10.45	*****
9.50	62.69	
	8.46	*****
10.00	71.14	
10.50	7.96	*****
10.50	79.10	
11.00	6.97	*****
11.00	86.07	
11.50	5.97	*****
11.50	92.04	
	3.98	*****
0	96.02	
***	3.98	***
	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

5.85 1.58 -.06 -.53 KRUMBEN + PETTIGEHN (1935) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI9.00 1.75 .67 .93 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	8.91	5TH	8.25	16TH	7.25	25TH	7.76
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	29.35	(SEDIGRAPH)	70.65	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	29.35	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

L031 E30 S 105-110 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/08/53

6.00	0.00	
6.00	0.00	
6.50	2.00	**
4.50	2.00	***
5.00	3.00	***
5.00	5.00	
5.50	2.00	**
5.50	7.00	
6.00	2.00	**
6.00	9.00	
6.50	5.00	****
6.50	14.00	
7.00	4.00	****
7.00	18.00	
7.50	9.00	*****
7.50	27.00	
8.00	9.00	*****
8.00	36.00	
8.50	10.00	*****
8.50	46.00	
9.00	12.00	*****
9.00	53.00	
9.50	11.00	*****
9.50	69.00	
10.00	7.00	*****
10.00	76.00	
10.50	7.00	*****
10.50	83.00	
11.00	5.00	*****
11.00	58.00	
11.50	5.00	****
11.50	93.00	
12.00	4.00	***
12.00	97.00	
12.50	3.00	***
12.50	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.56 1.81 -.14 -.37 KRUSZEN & PETTIGEURN (1936) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.67 1.99 -.04 1.09 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	8.67	5TH	5.00	16TH	6.75	25TH	7.39
			75TH	9.93	84TH	10.60	95TH	11.75
PCT. GRAVEL	.00	SAND .00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00		
			(SEDIGRAPH)	36.00	(SEDIGRAPH)	64.00		
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	35.00	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

L081 E30 D 125-130 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/08/93

10	0.00	
7.00	0.00	
4.50	0.00	
5.00	1.00	*
5.50	2.00	**
5.50	3.00	
6.00	3.00	***
6.00	6.00	
6.50	5.00	****
6.50	11.00	
7.00	4.00	****
7.00	15.00	
7.50	6.00	****
7.50	23.00	
8.00	9.00	*****
8.00	32.00	
8.50	9.00	*****
8.50	41.00	
9.00	11.00	*****
9.00	52.00	
9.50	11.00	*****
9.50	63.00	
10.00	6.00	*****
10.00	71.00	
10.50	8.00	*****
10.50	79.00	
11.00	8.00	*****
11.00	85.00	
11.50	5.00	****
11.50	90.00	
12.00	4.00	****
12.00	94.00	
12.00	6.00	****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

5.71 1.58 -.38 -.63 KRUMBELN + PETRIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 8.91 5TH 5.83 16TH 7.06 25TH 7.61  
10TH 10.25 34TH 10.52 95TH \*\*\*\*\*PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 32.00 (SEDIGRAPH) 68.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 32.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

**APPENDIX 2**  
**SIZDIST OUTPUT**  
**Lake Erie PS7**

LE81 PS7 22-24 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	*
4.50	.50	*
5.00	.50	*
5.50	1.01	***
5.50	2.51	***
5.50	3.52	
6.00	7.04	*****
6.00	10.55	
6.50	8.04	*****
6.50	18.59	
7.00	9.05	*****
7.00	27.64	
7.50	11.06	*****
7.50	38.69	
8.00	9.05	*****
8.00	47.74	
8.50	8.04	*****
8.50	55.78	
9.00	8.04	*****
9.00	63.82	
9.50	7.04	*****
9.50	70.85	
10.00	6.03	*****
10.00	76.88	
10.50	5.03	***
10.50	81.91	
11.00	4.02	***
11.00	85.93	
11.50	3.02	***
11.50	88.94	
0	3.02	***
0	91.96	
****	8.04	*****
	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.09 1.73 .14 -.73 KRUMBEN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.14	5TH	5.61	16TH	6.34	25TH	6.85
			75TH	9.84	84TH	10.76	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	47.74	(SEDIGRAPH)	52.26	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	47.74	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY	FOLK(GMS)-MUD					(SCS)-MUD		

LE82 PS7 26-28 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/11/83

0	0.00	
4.00	0.00	
4.50	1.50	**
4.50	1.50	
5.00	2.00	**
5.00	3.50	
5.50	4.50	*****
5.50	8.00	
6.00	8.00	*****
6.00	16.00	
6.50	9.00	*****
6.50	25.00	
7.00	7.00	*****
7.00	32.00	
7.50	10.00	*****
7.50	42.00	
8.00	8.00	*****
8.00	50.00	
8.50	6.00	****
8.50	56.00	
9.00	7.00	****
9.00	63.00	
9.50	7.00	****
9.50	70.00	
10.00	5.00	****
10.00	75.00	
10.50	5.00	****
10.50	80.00	
11.00	4.00	***
11.00	84.00	
11.50	4.00	***
11.50	88.00	
0	4.00	***
0	92.00	
8.00	8.00	*****
8.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

7.98 1.94 .12 -.88 KRJMBEIN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.00	5TH	5.17	16TH	6.00	25TH	6.50
PCT.	GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
					(SEDIGRAPH)	50.00	(SEDIGRAPH)	50.00
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	50.00	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - CLAYEY SILT FOLK(GMS)-MUD					(SCS)-MUD			

LE82 PS7 32-34 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

PHI	PCT.	CUMPCT.
5.00	0.00	
4.00	0.00	
4.50	1.00	*
4.50	1.00	
5.00	2.00	**
5.00	3.00	
5.50	3.00	***
5.50	6.00	
6.00	8.00	****
6.00	14.00	
6.50	8.00	*****
6.50	22.00	
7.00	8.00	*****
7.00	30.00	
7.50	8.00	*****
7.50	38.00	
8.00	8.00	*****
8.00	46.00	
8.50	6.00	****
8.50	52.00	
9.00	8.00	*****
9.00	60.00	
9.50	7.00	*****
9.50	67.00	
10.00	5.00	****
10.00	72.00	
10.50	5.00	****
10.50	77.00	
11.00	5.00	****
11.00	82.00	
11.50	18.00	*****
11.50	100.00	

## MEAN ST.DEV. SKEWNESS KURTOSIS

7.77 1.68 .03 -.95 KRUMBELIN + PETTIGEHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 11.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED. OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.33	5TH	5.33	16TH	6.13	25TH	6.69	
			75TH	10.30		84TH	*****	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00		
				(SEDIGRAPH)	46.00	(SEDIGRAPH)	54.00		
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	46.00	PCT.GRAV+SAND/SILT+CLAY	.00				
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD			

LE82 PS7 36-38 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	0.00	
5.50	3.00	***
5.50	3.00	
6.00	8.00	*****
6.00	11.00	
6.50	9.00	*****
6.50	20.00	
7.00	7.00	****
7.00	27.00	
7.50	8.00	****
7.50	35.00	
8.00	8.00	*****
8.00	43.00	
8.50	7.00	****
8.50	50.00	
9.00	7.00	****
9.00	57.00	
9.50	7.00	****
9.50	64.00	
10.00	6.00	****
10.00	70.00	
10.50	5.00	***
10.50	75.00	
11.00	5.00	***
11.00	80.00	
11.50	6.00	***
11.50	86.00	
12.00	3.50	***
12.00	89.50	
12.00	10.50	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.28 1.86 .10 -1.08 KRUMBEN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.50	5TH	5.63	16TH	6.28	25TH	6.86
PCT.	GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
					(SEDIGRAPH)	43.00	(SEDIGRAPH)	57.00
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	43.00	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

LE82 PS7 42-44 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

PHI	PCT.	CUMPCT.
5.00	0.00	
4.00	0.00	0.00
4.50	0.00	
5.00	2.51	2.51
5.50	6.03	8.54
6.00	9.05	*****
6.00	10.05	17.59
6.50	27.64	*****
7.00	9.05	*****
7.00	36.68	*****
7.50	10.05	*****
7.50	46.73	*****
8.00	8.04	*****
8.00	54.77	
8.50	8.04	*****
8.50	62.81	*****
9.00	7.04	*****
9.00	69.85	*****
9.50	6.03	*****
9.50	75.88	*****
10.00	4.02	****
10.00	79.90	
10.50	5.03	****
10.50	84.92	
11.00	2.01	**
11.00	86.93	
11.50	1.01	*
11.50	87.94	
12.00	2.01	**
12.00	89.95	
12.50	10.05	*****
12.50	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

7.62 1.71 .21 -.58 KRUMBEN + PETTIGRUE (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 7.70 5TH 5.21 16TH 5.91 25TH 6.37

75TH 9.43 84TH 10.41 95TH \*\*\*\*\*

PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 54.77 (SEDIGRAPH) 45.23

GRAVEL+SAND .00 SILT/(SILT+CLAY) 54.77 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 46-48 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	0.00
4.50		0.00
5.00	.50	*
5.50	3.50	.50
6.00	7.50	4.00
6.50	10.50	11.50
7.00	7.00	22.00
7.50	9.00	29.00
8.00	7.50	38.00
8.50	5.00	45.00
9.00	6.00	50.00
9.50	6.00	56.00
10.00	4.00	62.00
10.50	6.00	66.00
11.00	8.00	72.00
11.50	9.00	80.00
12.00	7.00	89.00
12.50	4.00	96.00
13.00		100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

8.49 2.05 .05 -1.33 KRUMBEN + PETTIGEHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.65 2.22 .08 .66 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957PERCENTILES MEDIAN 8.50 5TH 5.57 16TH 6.21 25TH 6.71  
75TH 10.69 84TH 11.22 95TH 11.93PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 45.00 (SEDIGRAPH) 55.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 45.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 55-60 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

PHI	PCT.	CUMPCT.
5.0	0.00	
4.00	0.00	
4.50	.51	*
4.50	.51	
5.00	1.52	**
5.00	2.02	
5.50	4.04	****
5.50	6.06	
6.00	8.08	*****
6.00	14.14	
6.50	7.07	*****
6.50	21.21	
7.00	7.07	*****
7.00	28.28	
7.50	8.08	*****
7.50	36.36	
8.00	6.06	*****
8.00	42.42	
8.50	6.06	****
8.50	48.48	
9.00	5.05	****
9.00	53.54	
9.50	6.06	****
9.50	59.60	
10.00	5.05	****
10.00	64.65	
10.50	5.05	****
10.50	69.70	
11.00	5.05	****
11.00	74.75	
11.50	6.06	****
11.50	80.81	
12.00	4.04	***
12.00	84.85	
12.00	15.15	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.20 2.01 .08 -1.12 KRUMBEN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.65	5TH	5.37	16TH	6.13	25TH	6.77
			75TH	11.02	84TH	11.90	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	42.42	(SEDIGRAPH)	57.58	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	42.42	PCT. GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY	FOLK(GMS)-MUD					(SCS)-MUD		

LE82 PS7 65-70 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	*
4.50	1.01	*
5.00	1.01	*
5.50	2.02	*****
5.50	5.05	7.07
6.00	8.08	*****
6.00	15.15	
6.50	8.08	*****
6.50	23.23	
6.50	6.06	*****
7.00	29.29	
7.00	10.10	*****
7.50	39.39	
7.50	5.05	****
8.00	44.44	
8.00	6.06	****
8.50	50.51	
8.50	7.07	*****
9.00	57.58	
9.00	7.07	*****
9.50	64.65	
10.00	6.06	*****
10.00	70.71	
10.50	5.56	****
10.50	76.26	
11.00	4.55	****
11.00	80.81	
11.50	4.55	****
11.50	85.35	
12.00	3.54	****
12.00	88.89	
12.00	11.11	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.11 1.95 .07 -1.03 KRUMBEN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.46	5TH	5.30	16TH	6.05	25TH	6.65
			75TH	10.39	84TH	11.35	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	44.44	(SEDIGRAPH)	55.56	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	44.44	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

LE82 PS7 75-80 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

6.0	0.00	
4.00	0.00	*
4.50	1.01	*
5.00	1.01	*
5.50	2.02	****
5.50	4.04	6.06
6.00	7.07	*****
6.00	13.13	
6.50	9.09	*****
6.50	22.22	
7.00	6.06	****
7.00	28.28	
7.50	8.08	*****
7.50	36.36	
8.00	6.06	*****
8.00	42.42	
8.50	5.05	****
8.50	47.47	
9.00	6.06	****
9.00	53.54	
9.50	5.05	****
9.50	58.59	
10.00	6.06	****
10.00	64.65	
10.50	6.06	*****
10.50	70.71	
11.00	5.05	****
11.00	75.76	
11.50	9.09	*****
11.50	84.85	
12.00	7.58	*****
12.00	92.42	
12.00	7.58	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.47 2.12 .01 -1.25 KRUMBEIN + PETTIGRUE (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 8.71 5TH 5.37 16TH 6.15 25TH 6.73  
75TH 10.93 84TH 11.45 95TH\*\*\*\*\*PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 42.42 (SEDIGRAPH) 57.58

GRAVEL+SAND .00 SILT/(SILT+CLAY) 42.42 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 85-90 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	
4.50	0.00	
5.00	1.01	*
5.50	4.04	****
5.50	5.05	
6.00	7.07	*****
6.00	12.12	
6.50	7.07	*****
6.50	19.19	
7.00	6.06	****
7.00	25.25	
7.50	8.08	*****
7.50	33.33	
8.00	6.06	****
8.00	39.39	
8.50	5.05	****
8.50	44.44	
9.00	6.06	****
9.00	50.51	
9.50	6.06	****
9.50	56.57	
10.00	5.05	****
10.00	61.62	
10.50	7.07	*****
10.50	68.69	
11.00	6.06	****
11.00	74.75	
11.50	13.13	*****
11.50	87.88	
12.00	8.08	*****
12.00	95.96	
12.00	4.04	***
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.73 2.10 -.05 -1.32 KRUMBEN + PETTIGEHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI8.86 2.25 -.07 .56 FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957PERCENTILES MEDIAN 8.96 5TH 5.49 16TH 6.27 25TH 6.98  
75TH 11.01 84TH 11.35 95TH 11.94PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 0.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 39.39 (SEDIGRAPH) 60.61

GRAVEL+SAND .00 SILT/(SILT+CLAY) 39.39 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 95-100 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	*
4.50	.51	*
5.00	.51	*
5.50	1.02	**
5.50	1.52	**
5.50	2.54	
5.50	3.05	***
6.00	5.58	*****
6.50	11.68	*****
7.00	19.80	*****
7.50	8.12	*****
7.50	27.92	
8.00	34.01	*****
8.50	6.09	*****
8.50	40.10	*****
9.00	7.11	*****
9.00	47.21	*****
9.50	6.09	*****
9.50	53.30	
10.00	6.09	*****
10.00	59.39	
10.50	6.09	*****
10.50	65.48	*****
11.00	7.11	*****
11.00	72.59	
11.50	7.11	*****
11.50	79.70	
12.00	5.08	****
12.00	84.77	*****
12.00	15.23	*****
12.00	100.00	*****

## MEAN ST.DEV. SKEWNESS KURTOSIS

8.68 1.88 -.02 -1.07 KRUMBEN + PETTIGRAPH (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	9.23	5TH	5.90	16TH	6.77	25TH	7.32
			75TH	11.17	84TH	11.92	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	34.01	(SEDIGRAPH)	65.99	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	34.01	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

LE82 PS7 105-110 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

6.00	0.00	
4.00	0.00	*
4.50	.51	**
5.00	1.52	***
5.50	2.02	**
5.50	4.04	
5.05	5.05	*****
6.00	9.09	
6.50	8.08	*****
6.50	17.17	*****
7.00	8.08	*****
7.00	25.25	*****
7.50	8.08	*****
7.50	33.33	
8.00	6.06	*****
8.00	39.39	
8.50	6.06	*****
8.50	45.45	
9.00	6.06	*****
9.00	51.52	
9.50	5.05	****
9.50	56.57	
10.00	6.06	*****
10.00	62.63	
10.50	6.57	*****
10.50	69.19	
11.00	1.52	**
11.00	70.71	*****
11.50	11.11	*****
11.50	81.82	
12.00	2.02	**
12.00	83.84	
12.00	16.16	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.36 1.94 .04 -1.11 KRUMBEIN + PETTIGEHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.88	5TH	5.60	15TH	6.43	25TH	6.98
			75TH	11.19	84TH	*****	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	39.39	(SEDIGRAPH)	60.61	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	39.39	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 115-120 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

5.00	0.00	
4.00	0.00	
4.50	1.00	*
4.50	1.00	
5.00	2.00	**
5.00	3.00	
5.50	5.00	*****
5.50	8.00	
6.00	7.00	*****
6.00	15.00	
6.50	8.00	*****
6.50	23.00	
7.00	7.00	*****
7.00	30.00	
7.50	7.00	*****
7.50	37.00	
8.00	6.00	*****
8.00	43.00	
8.50	6.00	*****
8.50	49.00	
9.00	6.00	*****
9.00	55.00	
9.50	6.00	*****
9.50	61.00	
10.00	5.00	****
10.00	66.00	
10.50	4.00	***
10.50	70.00	
11.00	5.00	***
11.00	75.00	
11.50	5.00	***
11.50	80.00	
12.00	4.00	***
12.00	84.00	
12.00	16.00	*****
12.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

8.08 2.02 .09 -1.06 KRUMBEIN + PEITIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 8.58 5TH 5.20 15TH 6.05 25TH 6.64  
75TH 11.00 84TH 12.00 95TH \*\*\*\*\*PCT. GRAVEL .00 SAND 0.00 SILT (PIPETTE) 6.00 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 43.00 (SEDIGRAPH) 57.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 43.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILTY CLAY FOLK(GMSI)-MUD (SGSI)-MUD

LE82 PS7 125-130 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

5.0	0.00	
4.00	0.00	
4.50	.51	*
5.00	1.52	**
5.50	2.02	*****
5.50	5.05	*****
5.50	7.07	
6.00	6.06	*****
6.00	13.13	
6.50	6.06	*****
6.50	19.19	
7.00	7.07	*****
7.00	26.26	
7.50	8.08	*****
7.50	34.34	
8.00	7.07	*****
8.00	41.41	
8.50	7.07	*****
8.50	48.48	
9.00	8.08	*****
9.00	56.57	
9.50	6.06	*****
9.50	62.63	
10.00	7.07	*****
10.00	69.70	
10.50	5.05	****
10.50	74.75	
11.00	5.05	****
11.00	79.80	
11.50	5.05	****
11.50	84.85	
12.0	3.03	***
12.0	87.88	
12.12	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

8.22 1.90 .03 -.98 KRUMBEN + PETT JOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.59	5TH	5.30	16TH	6.24	25TH	6.91
			75TH	10.53	84TH	11.42	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	41.41	(SEDIGRAPH)	58.59	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	41.41	PCT. GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD - SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

LE62 PS7 135-140 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

0	0.00	
4.00	0.00	
4.50	1.00	*
4.50	1.00	
5.00	1.00	
5.00	2.00	
5.50	3.00	***
5.50	5.00	
6.00	6.00	*****
6.00	11.00	
6.00	8.00	*****
6.50	19.00	
6.50	6.00	****
7.00	25.00	
7.00	8.00	*****
7.50	33.00	
7.50	7.00	*****
8.00	40.00	
8.00	6.00	****
8.50	46.00	
8.50	7.00	****
9.00	53.00	
9.00	6.00	****
9.50	59.00	
9.50	6.00	****
10.00	65.00	
10.00	7.00	****
10.50	72.00	
10.50	6.00	****
11.00	78.00	
11.00	5.00	****
11.50	83.00	
11.50	4.00	****
12.00	87.00	
12.00	13.00	*****
12.00	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

8.35 1.94 .61 -1.05 KRUMBELIN + PETTIGRUE (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.79	5TH	5.50	16TH	6.31	25TH	7.00
			75TH	10.75	84TH	11.63	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	40.00	(SEDIGRAPH)	60.00	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	40.00	PCT. GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD-SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		

LE82 PS7 145-150 CM

## SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/11/83

5.0	0.00	
4.50	0.00	
4.00	2.00	**
3.50	2.00	*****
3.00	5.00	*****
2.50	7.00	*****
2.00	8.00	*****
1.50	15.00	
1.00	10.00	*****
0.50	25.00	
0.00	7.00	*****
-0.50	32.00	
-1.00	9.00	*****
-1.50	41.00	
-2.00	7.00	*****
-2.50	48.00	
-3.00	6.00	*****
-3.50	54.00	
-4.00	7.00	*****
-4.50	61.00	
-5.00	5.00	*****
-5.50	66.00	
-6.00	6.00	*****
-6.50	72.00	
-7.00	5.00	****
-7.50	77.00	
-8.00	4.00	***
-8.50	81.00	
-9.00	5.00	****
-9.50	86.00	
-10.00	4.00	***
-10.50	90.00	
-11.00	10.00	*****
-11.50	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.04 1.95 .14 -1.02 KRUMBEIN + PETTIGJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.17	5TH	5.30	15TH	6.05	25TH	6.50
			75TH	10.30	84TH	11.30	95TH	*****
PCT.	GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
					(SEDIGRAPH)	48.00	(SEDIGRAPH)	52.00
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	48.00	PCT.GRAV+SAND/SILT+CLAY	.00			

LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

LE82 PS7 155-160 CM

## SEDIGRAPH ANALYSIS

23738

PHI PCT. CUMPCT.

02/11/83

5.00	0.00	
4.00	0.00	
4.50	0.00	
5.00	1.01	
5.50	4.04	****
5.50	5.05	
6.00	8.08	*****
6.00	13.13	
6.50	9.09	*****
6.50	22.22	
7.00	7.07	*****
7.00	29.29	
7.50	9.09	*****
7.50	38.38	
8.00	6.06	*****
8.00	44.44	
8.50	6.06	*****
8.50	50.51	
9.00	7.07	*****
9.00	57.58	
9.50	7.07	*****
9.50	64.65	
10.00	5.05	*****
10.00	69.70	
10.50	5.05	*****
10.50	74.75	
11.00	5.05	*****
11.00	79.80	
11.50	4.04	*****
11.50	83.84	
12.00	3.03	***
12.00	86.87	
12.00	13.13	*****
12.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

8.10 1.88 .12 -1.03 KRUMB-IN + PETTIGRUE (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 12.0 PHI

&gt; 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	8.46	5TH	5.49	16TH	6.15	25TH	6.70
			75TH	10.53	84TH	11.53	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	44.44	(SEDIGRAPH)	55.56	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	44.44	PCT.GRAV+SAND/SILT+CLAY	.00			
LABELS SHEPARD-SILTY CLAY FOLK(GMS)-MUD						(SCS)-MUD		