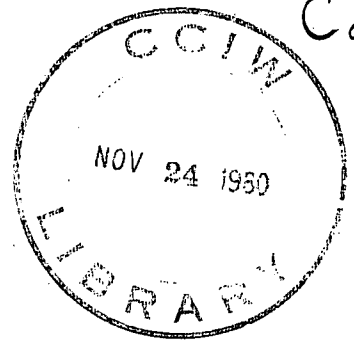


HYDRAULICS DIVISION

Technical Note



DATE: November 1980 **REPORT NO:** 80-33

TITLE: Particle Size Data Report 80-06

AUTHOR: G. G. LaHaie

REASON FOR REPORT: This report responds to a request for particle size data from the Department of Public Works

CORRESPONDENCE FILE NO:
2242-1 (H79 005)

1.0 INTRODUCTION

The Department of Public Works submitted 99 samples for particle size analysis requesting gravel, sand, silt and clay percentages. The samples were analyzed by K. Hill assisted by G. G. LaHaie and the results were checked on November 10, 1980 by G. G. LaHaie. The unused portion of the samples are stored in the Sedimentology Laboratory.

2.0 PROCEDURE

Two procedures were used to analyze the samples:

- (1) Sieve and Short Pipette Analysis, which provides gravel, sand, silt and clay percentages, was used to analyze 38 of the samples.

Briefly, the procedure consists of:

- i) Splitting the sample to 20 g.
 - ii) Sieving the split at -1 PHI (2.00 mm).
 - iii) Dispersing the sample in 50 ml of Calgon solution (50 g/l) and mixing it for 15 minutes.
 - (iv) Recovering two pipette aliquots of 25 ml for sand, silt and clay percentages.
 - v) Processing the results with SIZDIST: a FORTRAN IV computer program.
- (2) Sieve Analysis which provides gravel, sand and silt/clay percentages was used to analyze 60 of the samples.

Briefly, the procedure consists of:

- i) Sieving the samples at 1/2 PHI intervals.
- ii) Processing the results with SIZDIST: a FORTRAN IV computer program.

One sample consisted of a large pebble and this was weighed and inserted in the results as a comment.

3.0

RESULTS

Appendix I lists the size analysis results for each sample.

- (1) For the Sieve and Short Pipette Method, the output consists of:
 - i) Percent gravel, sand, silt and clay.
 - ii) Ratios used to plot Folk's Ternary Classification.
 - iii) Shepard (1954) and Folk (1974) Ternary Classifications.
- (2) For the Sieve Method, the output consists of:
 - i) A histogram of the frequency distribution.
 - ii) The percentages and cumulative percentages of the material occurring within each 1/2 PHI unit.
 - iii) Moment measures (Krumbein and Pettijohn, 1938) and graphic (Folk and Ward, 1957) statistics.
 - iv) Percentiles.
 - v) Percent gravel, sand and silt/clay.
 - vi) Ratios used to plot Folk's Ternary Classification.
 - vii) Shepard (1954) and Folk (1974) Ternary Classification.

REFERENCES

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- 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.
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APPENDIX 1
Sizdist Output

DPW 7-44 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.3433
PCT. GRAVEL 0.00 SAND 45.85 SILT (PIPETTE) 51.82 CLAY (PIPETTE) 2.33
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 45.85 SILT/(SILT+CLAY) 95.70 PCT. GRAV+SAND/SILT+CLAY .85
BELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 8-33 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.2488
PCT. GRAVEL 0.00 SAND 30.99 SILT (PIPETTE) 65.95 CLAY (PIPETTE) 3.06
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 30.99 SILT/(SILT+CLAY) 95.57 PCT. GRAV+SAND/SILT+CLAY .45
ELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 8-35 291080 SIEVE AND PIPETTE (2) SAMPLE WT.= 24.6643
PCT. GRAVEL 0.00 SAND 43.75 SILT (PIPETTE) 48.04 CLAY (PIPETTE) 8.21
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 43.75 SILT/(SILT+CLAY) 85.40 PCT.GRAV+SAND/SILT+CLAY .78
BELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 9-28 291080 SIEVE AND PIPETTE(2) SAMPLE WT.= 23.4643
PCT. GRAVEL 0.00 SAND 35.64 SILT (PIPETTE) 57.41 CLAY (PIPETTE) 6.94
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 35.64 SILT/(SILT+CLAY) 89.21PCT.GRAV+SAND/SILT+CLAY .55
ELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 9-31 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 22.5510
PCT. GRAVEL 0.00 SAND 50.48 SILT (PIPETTE) 48.20 CLAY (PIPETTE) 1.32
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 50.48 SILT/(SILT+CLAY) 97.34 PCT. GRAV+SAND/SILT+CLAY 1.02
BELS SHEPARD -SILTY SAND FOLK (GMS) -MUDDY SAND (SCS) -SILTY SAND

DPW 10-24 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.7799
PCT. GRAVEL 0.00 SAND 76.77 SILT (PIPETTE) 22.37 CLAY (PIPETTE) .86
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 76.77 SILT/(SILT+CLAY) 96.32 PCT. GRAV+SAND/SILT+CLAY 3.31
BELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 11-17 201080 SIEVE AND PIPETTE (2) SAMPLE WT.= 23.6610
PCT. GRAVEL 0.00 SAND 15.44 SILT (PIPETTE) 82.60 CLAY (PIPETTE) 1.96
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 15.44 SILT/(SILT+CLAY) 97.68PCT.GRAV+SAND/SILT+CLAY .18
BELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 11-18 201080 SIEVE AND PIPETTE (2) SAMPLE WT. = 24.2646
PCT. GRAVEL 0.00 SAND 26.32 SILT (PIPETTE) 71.81 CLAY (PIPETTE) 1.87
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 26.32 SILT/(SILT+CLAY) 97.46 PCT. GRAV+SAND/SILT+CLAY .36
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 11-19 201080 SIEVE AND PIPETTE (2) SAMPLE WT.= 24.6786
PCT. GRAVEL 0.00 SAND 72.98 SILT (PIPETTE) 25.71 CLAY (PIPETTE) 1.31
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 72.98 SILT/(SILT+CLAY) 95.15 PCT.GRAV+SAND/SILT+CLAY 2.70
BELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 10-21 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 39.8820
PCT. GRAVEL 60.04 SAND 32.31 SILT (PIPETTE) 2.70 CLAY (PIPETTE) 4.94
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 92.35 SILT/(SILT+CLAY) 35.35 PCT. GRAV+SAND/SILT+CLAY 12.08
BELS SHEPARD -SAND FOLK(GMS)-MUDDY SANDY GRAVEL (SCS)-

DPW 12-8 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 24.4875
PCT. GRAVEL 0.00 SAND 57.85 SILT (PIPETTE) 39.00 CLAY (PIPETTE) 3.15
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 57.85 SILT/(SILT+CLAY) 92.53PCT.GRAV+SAND/SILT+CLAY 1.37
BELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 13-4 221080 SIEVE AND PIPETTE (2) SAMPLE WT.= 23.3590
PCT. GRAVEL .22 SAND 73.84 SILT (PIPETTE) 24.55 CLAY (PIPETTE) 1.39
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 74.06 SILT/(SILT+CLAY) 94.63 PCT.GRAV+SAND/SILT+CLAY 2.85
BELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 14-88 22108G SIEVE AND PIPETTE (2) SAMPLE WT. = 24.0530
PCT. GRAVEL 0.00 SAND 81.43 SILT (PIPETTE) 16.47 CLAY (PIPETTE) 2.09
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 81.43 SILT/(SILT+CLAY) 88.72 PCT. GRAV+SAND/SILT+CLAY 4.39
BELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 13-6 291080 SIEVE AND PIPETTE (2) SAMPLE WT.= 25.0690
PCT. GRAVEL 0.00 SAND 60.93 SILT (PIPETTE) 36.89 CLAY (PIPETTE) 2.18
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 60.93 SILT/(SILT+CLAY) 94.41PCT.GRAV+SAND/SILT+CLAY 1.56
LABELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 20-110 231080 SIEVE AND PIPETTE (2) SAMPLE WT.= 24.4510
PCT. GRAVEL 0.00 SAND 81.34 SILT (PIPETTE) 16.37 CLAY (PIPETTE) 2.30
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 81.34 SILT/(SILT+CLAY) 87.70PCT.GRAV+SAND/SILT+CLAY 4.36
BELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 20-112 231080 SIEVE AND PIPETTE (2) SAMPLE WT.= 24.8115
PCT. GRAVEL 1.16 SAND 87.92 SILT (PIPETTE) 9.04 CLAY (PIPETTE) 1.88
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 89.09 SILT/(SILT+CLAY) 82.81 PCT. GRAV+SAND/SILT+CLAY 8.16
SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 24-121 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 25.1366
PCT. GRAVEL .24 SAND 45.51 SILT (PIPETTE) 48.76 CLAY (PIPETTE) 5.50
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 45.75 SILT/(SILT+CLAY) 89.87PCT.GRAV+SAND/SILT+CLAY .84
BELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 8-34-2 241080 SIEVE AND PIPETTE (2) SAMPLE WT. = 27.3624
PCT. GRAVEL 0.00 SAND 74.08 SILT (PIPETTE) 24.65 CLAY (PIPETTE) 1.28
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 74.08 SILT/(SILT+CLAY) 95.07 PCT. GRAV+SAND/SILT+CLAY 2.86
SHEPARD -SILTY SAND FOLK (GMS) -MUDDY SAND (SCS) -SILTY SAND

DPW 9-32 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 27.0736
PCT. GRAVEL 0.00 SAND 64.03 SILT (PIPETTE) 34.43 CLAY (PIPETTE) 1.53
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 64.03 SILT/(SILT+CLAY) 95.73PCT.GRAV+SAND/SILT+CLAY 1.78
ELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 6-48 291080 SIEVE AND PIPETTE (2) SAMPLE WT. = 28.3100
PCT. GRAVEL 0.00 SAND 3.19 SILT (PIPETTE) 56.64 CLAY (PIPETTE) 40.16
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 3.19 SILT/(SILT+CLAY) 58.51 PCT. GRAV+SAND/SILT+CLAY .03
WELLS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-MUD

COMMENTS -

DPW 6-48 1 ANGULAR CARBONATE PEBBLE 61.5 GRAMS.

DPW 7-40
PCT. GRAVEL

291080
.13 SAND

SIEVE AND PIPETTE (2)
.72 SILT (PIPETTE)

SAMPLE WT. = 29.8947
CLAY (PIPETTE) 36.55

(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND .85 SILT/(SILT+CLAY) 63.13 PCT. GRAV+SAND/SILT+CLAY .01

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

DPW 1-63 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.2677
PCT. GRAVEL 0.00 SAND 5.36 SILT (PIPETTE) 84.55 CLAY (PIPETTE) 10.10
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 5.36 SILT/((SILT+CLAY) 89.33PCT.GRAV+SAND/SILT+CLAY .06
BELS SHEPARD -SILT FOLK (GMS) -MUD (SCS) -SILT

DPW. 1A-54 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.8700
PCT. GRAVEL .34 SAND 2.24 SILT (PIPETTE) 35.17 CLAY (PIPETTE) 62.24
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 2.58 SILT/(SILT+CLAY) 36.11PCT.GRAV+SAND/SILT+CLAY .03
ELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

DPW 1A-55 281080 SIEVE AND PIPETTE (2) SAMPLE WT.= 29.1218
PCT. GRAVEL 20.24 SAND 11.69 SILT (PIPETTE) 26.08 CLAY (PIPETTE) 41.99
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 31.94 SILT/(SILT+CLAY) 38.31PCT.GRAV+SAND/SILT+CLAY .47
ELS SHEPARD -SAN SIL CLY FOLK(GMS)-GRAVELLY MUD (SCS)-

DPW 2-42 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 24.7632
PCT. GRAVEL 0.00 SAND 3.33 SILT (PIPETTE) 33.99 CLAY (PIPETTE) 62.68
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 3.33 SILT/(SILT+CLAY) 35.16 PCT. GRAV+SAND/SILT+CLAY .03
BELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

DPW 2-50 161080 SIEVE AND PIPETTE (2) SAMPLE WT.= 46.6908
PCT. GRAVEL 25.39 SAND 9.18 SILT (PIPETTE) 20.78 CLAY (PIPETTE) 44.65
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 34.57 SILT/(SILT+CLAY) 31.76 PCT. GRAV+SAND/SILT+CLAY .53
SHEPARD -SAN SIL CLY FOLK(GMS)-GRAVELLY MUD (SCS)-

DPW 3-73 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.8458
PCT. GRAVEL 0.00 SAND 2.15 SILT (PIPETTE) 48.24 CLAY (PIPETTE) 49.61
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 2.15 SILT/(SILT+CLAY) 49.30 PCT. GRAV+SAND/SILT+CLAY .02
ELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

DPW 3-75 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 23.2466
PCT. GRAVEL 0.00 SAND 10.99 SILT (PIPETTE) 77.91 CLAY (PIPETTE) 11.10
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 10.99 SILT/(SILT+CLAY) 87.53PCT.GRAV+SAND/SILT+CLAY .12
SHEPARD -SILT FOLK(GMS)-SANDY MUO (SCS)-SANDY SILT

DPW 11-14 281080 SIEVE AND PIPETTE (2) SAMPLE WT.= 21.4516
PCT. GRAVEL 0.00 SAND 2.67 SILT (PIPETTE) 29.56 CLAY (PIPETTE) 67.77
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 2.67 SILT/(SILT+CLAY) 30.37PCT.GRAV+SAND/SILT+CLAY .03
BELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

DPW 12-13 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 22.3809
PCT. GRAVEL 0.00 SAND 3.46 SILT (PIPETTE) 32.05 CLAY (PIPETTE) 64.50
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 3.46 SILT/((SILT+CLAY) 33.19PCT.GRAV+SAND/SILT+CLAY .04
BELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-CLAY

DPW 15-97 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 22.7030
PCT. GRAVEL 3.10 SAND 1.72 SILT (PIPETTE) 33.10 CLAY (PIPETTE) 62.09
(SEDIGRAPH) 6.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 4.82 SILT/(SILT+CLAY) 34.77PCT.GRAV+SAND/SILT+CLAY .05
ELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

DPW 17-103 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 20.8827
PCT. GRAVEL 0.00 SAND 4.25 SILT (PIPETTE) 55.62 CLAY (PIPETTE) 40.14
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 4.25 SILT/(SILT+CLAY) 58.08 PCT. GRAV+SAND/SILT+CLAY .04
ELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-MUD

DPW 18-106 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 21.9092
PCT. GRAVEL 0.00 SAND 2.65 SILT (PIPETTE) 48.98 CLAY (PIPETTE) 48.37
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 2.65 SILT/(SILT+CLAY) 50.32PCT.GRAV+SAND/SILT+CLAY .03

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

DPW 20-109 281080 SIEVE AND PIPETTE (2) SAMPLE WT.= 21.7435
PCT. GRAVEL .46 SAND 9.30 SILT (PIPETTE) 56.83 CLAY (PIPETTE) 33.41
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 9.76 SILT/(SILT+CLAY) 62.97 PCT. GRAV+SAND/SILT+CLAY .11
BELS SHEPARD -CLAYEY SILT FOLK (GMS)-MUD (SCS)-MUD

DPW 20-111 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 21.8204
PCT. GRAVEL 0.00 SAND 18.67 SILT (PIPETTE) 66.11 CLAY (PIPETTE) 15.21
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 18.67 SILT/(SILT+CLAY) 81.29PCT.GRAV+SAND/SILT+CLAY .23
ELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 4-67 281080 SIEVE AND PIPETTE (2) SAMPLE WT. = 22.2234
PCT. GRAVEL 0.00 SAND 10.28 SILT (PIPETTE) 62.69 CLAY (PIPETTE) 27.03
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 10.28 SILT/(SILT+CLAY) 69.87 PCT. GRAV+SAND/SILT+CLAY .11
ELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 4-69 SIEVE AND PIPETTE (2) SAMPLE WT. = 22.2563
PCT. GRAVEL 0.00 SAND 20.86 SILT (PIPETTE) 76.33 CLAY (PIPETTE) 2.81
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 20.86 SILT/(SILT+CLAY) 96.45 PCT. GRAV+SAND/SILT+CLAY .26
ELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

DPW 5-81 281080 SIEVE AND PIPETTE (2) SAMPLE WT.= 22.4261
PCT. GRAVEL 0.00 SAND 54.38 SILT (PIPETTE) 40.61 CLAY (PIPETTE) 5.01
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00
GRAVEL+SAND 54.38 SILT/(SILT+CLAY) 89.02 PCT.GRAV+SAND/SILT+CLAY 1.19
ELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

DPW 1A-53 151080 SIEVE ONLY SAMPLE WT.=226.4300

PHI PCT. CUMFCT.

11/07/80

-2.00			
.50	.21	.21	
-1.00	.39	.61	
.50	.59	1.20	*
0.00	.64	1.83	*
.50	1.00	2.83	*
1.00	.40	3.23	
1.50	5.75	8.97	*****
2.00	38.14	47.11	*****
2.50	32.75	79.87	*****
3.00	15.86	95.72	*****
3.50	3.56	99.28	****
4.00	.51	99.80	*
****	.20	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.04 .65 -.77 6.79 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.09 .54 .08 1.04 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 2.04 5TH 1.15 16TH 1.59 25TH 1.71
75TH 2.43 84TH 2.63 95TH 2.98

PCT. GRAVEL .61 SAND 99.19 SILT+CLAY .20

GRAVEL+SAND 99.80 GRAV+SAND/SILT+CLAY 491.24

LABELS SHEPARD -SAND FOLK (GMS) -SAND (SCS) -

DPW 1A-54 151080 SIEVE ONLY SAMPLE WT.=210.6400

PHI PCT. CUMPCT.

11/07/80

.50			*****
0.00	4.84	4.84	*****
-3.50	8.03	12.88	*****
-3.00	14.47	27.35	*****
-2.50	13.69	41.04	*****
-2.00	10.28	51.32	*****
-1.50	11.14	62.46	*****
-1.00	7.15	69.61	*****
-.50	5.54	75.14	*****
0.00	3.67	78.82	****
.50	2.48	81.30	**
1.00	1.61	82.91	**
1.50	1.91	84.82	**
2.00	7.71	92.53	*****
2.50	5.71	98.24	*****
3.00	1.65	99.89	**
3.50	.11	100.00	
0.00	0.00	100.00	
0.00	0.00	100.00	***

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.57	1.96	.37	-.57	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.39	2.11	.41	.99	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -2.06	5TH -3.99	16TH -3.39	25TH -3.08
		75TH -.51	84TH 1.29	95TH 2.22

PCT. GRAVEL	69.61	SAND	30.39	SILT+CLAY	0.00
GRAVEL+SAND	100.00			GRAV+SAND/SILT+CLAY	99999.99

LABELS SHEPARD -SAND FOLK (GMS) -SANDY GRAVEL (SCS) -

DPW 1B-58 291080 SIEVE ONLY SAMPLE WT.=209.4100

PHI PCT. CUMFCT. 11/07/80

-4.50			
0.00	4.87	4.87	*****
-3.50	8.07	12.94	*****
-3.00	14.54	27.48	*****
-2.50	13.83	41.31	*****
-2.00	10.42	51.73	*****
-1.50	10.86	62.59	*****
-1.00	7.19	69.78	*****
-.50	5.29	75.07	*****
0.00	3.65	78.72	****
.50	2.52	81.23	***
1.00	1.64	82.88	**
1.50	1.86	84.73	**
2.00	8.04	92.77	*****
2.50	5.62	98.40	*****
3.00	1.50	99.89	*
3.50	.11	100.00	
4.00	0.00	100.00	
4.50	0.00	100.00	***

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.57	1.96	.37	-.58	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.39	2.11	.41	.98	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN -2.08 5TH -3.99 16TH -3.39 25TH -3.09
75TH -.51 84TH 1.30 95TH 2.20

PCT. GRAVEL 69.78 SAND 30.22 SILT+CLAY 0.00
GRAVEL+SAND 100.00 GRAV+SAND/SILT+CLAY 99999.99

LABELS SHEPARD -SAND FOLK (GMS) -SANDY GRAVEL (SCS) -

DPW 1B-59 151080 SIEVE ONLY SAMPLE WT.=170.1600

PHI PCT. CUMFCT. 11/07/80

2.50			
2.00	.24	.24	
-1.50	.24	.47	
-1.00	.26	.73	
-.50	.42	1.15	
0.00	.39	1.53	
.50	.38	1.91	
1.00	.36	2.27	
1.50	1.37	3.64	*
2.00	25.63	29.27	*****
2.50	44.02	73.29	*****
3.00	20.19	93.48	*****
3.50	5.30	98.78	*****
4.00	.93	99.71	*
*****	.29	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.21	.64	-1.14	12.83	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI
2.25	.50	.08	1.06	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.24	5TH	1.53	16TH	1.74	25TH	1.92
			75TH	2.54	84TH	2.77	95TH	3.14

PCT. GRAVEL	.73	SAND	98.98	SILT+CLAY	.29
GRAVEL+SAND	99.71			GRAV+SAND/SILT+CLAY	339.32

LABELS SHEPARD -SAND FOLK (GMS)-SAND (SCS)-

DPW 1-60

151080

SIEVE ONLY

SAMPLE WT.=218.8800

PHI PCT. CUM PCT.

11/07/80

3.00			
.50	3.73	3.73	****
-2.00	3.32	7.05	***
-1.50	5.66	12.71	*****
-1.00	10.58	23.29	*****
-.50	15.54	38.83	*****
0.00	18.35	57.18	*****
.50	13.17	70.35	*****
1.00	6.35	76.70	*****
1.50	3.72	80.42	****
2.00	4.87	85.30	*****
2.50	7.15	92.45	*****
3.00	5.46	97.90	*****
3.50	1.73	99.63	**
4.00	.27	99.90	
****	.10	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

.02	1.46	.19	-.43	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI
.11	1.57	.22	1.14	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARG, 1957

PERCENTILES	MEDIAN	-.20	5TH	-2.31	16TH	-1.34	25TH	-.94
			75TH	.87	84TH	1.87	95TH	2.73

PCT. GRAVEL	23.29	SAND	76.62	SILT+CLAY	.10
GRAVEL+SAND	99.90	GRAV+SAND/SILT+CLAY	1041.29		
LABELS SHEPARD	-SAND	FOLK (GMS)-GRAVELLY SAND	(SCS)-		

DPW 1-61

151080

SIEVE ONLY

SAMPLE WT.=211.7800

PHI PCT. CUMPCT.

11/07/80

-.50	.10	.10	
0.00	.01	.12	
-.50	.02	.14	
0.00	.14	.27	
.50	.05	.33	
1.00	.06	.38	
1.50	1.27		*
2.00	30.03	1.65	*****
2.50	40.31	31.67	*****
3.00	19.03	71.99	*****
3.50	6.27	91.02	*****
4.00	2.72	97.28	***
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.73	.49	-.26	5.65	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI
2.76	.54	.17	1.05	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.73	5TH	2.06	16TH	2.24	25TH	2.39
			75TH	3.08	84TH	3.32	95TH	3.82

PCT. GRAVEL	.10	SAND	97.18	SILT+CLAY	2.72
GRAVEL+SAND	97.28			GRAV+SAND/SILT+CLAY	35.83
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-	

DPW 1-62

151080

SIEVE ONLY

SAMPLE WT.=224.2100

PHI PCT. CUMPT.

11/07/80

-1.50			
0.00	.03	.03	
-.50	.09	.12	
0.00	.13	.25	
.50	.16	.41	
1.00	.28	.69	
1.50	2.41	3.10	**
2.00	24.57	27.67	*****
2.50	36.34	64.00	*****
3.00	23.43	87.43	*****
3.50	9.24	96.67	*****
4.00	2.58	99.25	***
****	.75	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.34	.57	-.03	1.59	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI
2.33	.57	.12	.97	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.31	5TH	1.54	16TH	1.76	25TH	1.95
			75TH	2.73	84TH	2.93	95TH	3.41

PCT. GRAVEL	.03	SAND	99.22	SILT+CLAY	.75
GRAVEL+SAND	99.25			GRAV+SAND/SILT+CLAY	131.67
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-	

DPW 1-64 151080 SIEVE ONLY SAMPLE WT.=238.3800

PHI PCT. CUMFCT.

11/07/80

0.00			
.50	.01	.01	
0.00	.01	.02	
.50	.07	.09	
1.00	.06	.15	
1.50	.78	.93	*
2.00	10.10	11.03	*****
2.50	22.19	33.22	*****
3.00	31.10	64.32	*****
3.50	17.78	82.10	*****
4.00	10.28	92.38	*****
****	7.62	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.71 .60 -.04 -.24 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	2.77	5TH	1.70	16TH	2.11	25TH	2.31
			75TH	3.30	84TH	3.59	95TH	*****

PCT. GRAVEL 0.00 SAND 92.38 SILT+CLAY 7.62
GRAVEL+SAND 92.38 GRAV+SAND/SILT+CLAY 12.12

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 2-51 161080 SIEVE ONLY SAMPLE WT.=141.8500

PHI PCT. CUMFCT. 11/07/80

-1.50			
.00	.02	.02	
-.50	.05	.07	
0.00	.09	.16	
.50	.18	.33	
1.00	.04	.37	
1.50	.60	.97	*
2.00	8.65	9.62	*****
2.50	16.09	25.71	*****
3.00	26.84	52.55	*****
3.50	26.93	79.48	*****
4.00	14.95	94.43	*****
*****	5.57	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.85 .63 -.32 1.02 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 2.95 5TH 1.73 16TH 2.20 25TH 2.48
75TH 3.42 84TH 3.65 95TH*****

PCT. GRAVEL .02 SAND 94.41 SILT+CLAY 5.57

GRAVEL+SAND 94.43 GRAV+SAND/SILT+CLAY 16.95

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 2-52 161080 SIEVE ONLY SAMPLE WT.=205.3600

PHI PCT. CUMPCT. 11/07/80

1.50			
0.00	.04	.04	
-.50	.05	.10	
0.00	.03	.13	
.50	.05	.18	
1.00	.11	.29	
1.50	1.67	1.97	**
2.00	17.70	19.67	*****
2.50	34.74	54.41	*****
3.00	28.61	83.03	*****
3.50	13.01	96.04	*****
4.00	2.97	99.02	***
****	.98	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.46	.55	-.05	1.25	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI
2.46	.57	.07	.98	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.44	5TH	1.59	16TH	1.90	25TH	2.08
			75TH	2.86	84TH	3.04	95TH	3.46

PCT. GRAVEL	.04	SAND	98.97	SILT+CLAY	.98
GRAVEL+SAND	99.02			GRAV+SAND/SILT+CLAY	100.68
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-	

DPW 3-72 161080 SIEVE ONLY SAMPLE WT.=220.4500

PHI PCT. CUMFCT. 11/07/80

1.00

1.14 1.14

50 39.69 40.83

2.00 41.66 82.49

2.50 12.66 95.15

3.00 3.09 98.24

3.50 1.16 99.39

4.00 .61 100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.15 .44 .50 1.29

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 1.5 TO 4.0 PHI

2.12 .44 .13 .97

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 2.11 5TH 1.55 16TH 1.69 25TH 1.80 75TH 2.41 84TH 2.56 95TH 2.99

PCT. GRAVEL 0.00 SAND 99.39 SILT+CLAY .61

GRAVEL+SAND 99.39 GRAV+SAND/SILT+CLAY 163.51

BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 3-76 161080 SIEVE ONLY SAMPLE WT.=187.5200

PHI PCT. CUMPCT. 11/07/80

1.00			
.50	.02	.02	
0.00	.01	.03	
.50	.02	.05	
1.00	.05	.10	
1.50	.60	.70	*
2.00	5.19	5.90	*****
2.50	19.16	25.05	*****
3.00	38.55	63.60	*****
3.50	23.03	86.63	*****
4.00	8.81	95.44	*****
****	4.56	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.80 .53 -.12 .50 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

2.84 .61 .08 1.13 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 2.82 5TH 1.91 16TH 2.26 25TH 2.50
75TH 3.25 84TH 3.44 95TH 3.98

PCT. GRAVEL 0.00 SAND 95.44 SILT+CLAY 4.56

GRAVEL+SAND 95.44 GRAV+SAND/SILT+CLAY 20.93

LABELS SHEPARD -SAND FOLK (GMS)-SAND (SCS)-

DPW 4-66

161080

SIEVE ONLY

SAMPLE WT.=187.5400

PHI PCT. CUM PCT.

11/07/80

0.00		
.50	.08	.08
1.00	.12	.20

1.50	43.49	43.69
2.00	54.62	98.31

2.50	1.23	99.54
3.00	.10	99.64

3.50	.11	99.74
4.00	.12	99.87

*****	.13	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

1.54	.28	.37	4.96
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KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE .5 TO 4.0 PHI

1.54	.31	-.10	.75
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FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.56	5TH	1.06	16TH	1.18	25TH	1.29
			75TH	1.79	84TH	1.87	95TH	1.97

T. GRAVEL 0.00 SAND 99.87 SILT+CLAY .13

GRAVEL+SAND 99.87

GRAV+SAND/SILT+CLAY 749.16

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

DPW 4-68

161080

SIEVE ONLY

SAMPLE WT.=207.9300

PHI PCT. CUMPCT.

11/07/80

0.50			
0.00	.14	.14	*
-1.50	.62	.76	
-1.00	.25	1.01	
-.50	.26	1.27	
0.00	.30	1.57	
.50	.31	1.88	
1.00	.45	2.33	
1.50	1.17	3.50	*
2.00	4.55	8.05	*****
2.50	13.27	21.32	*****
3.00	40.73	62.05	*****
3.50	27.63	89.68	*****
4.00	6.53	96.21	*****
****	3.79	100.00	****

MEAN ST.DEV. SKÉWNESS KURTOSIS

2.74	.75	-1.46	13.89	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI
2.85	.61	-.03	1.33	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MÉDIAN	2.85	5TH	1.67	16TH	2.30	25TH	2.55
			75TH	3.23	84TH	3.40	95TH	3.91

PCT. GRAVEL	1.01	SAND	95.21	SILT+CLAY	3.79
GRAVEL+SAND	96.21			GRAV+SAND/SILT+CLAY	25.39
LABELS SHEPARD	-SAND	FOLK(GHS)-SAND		(SCS)-	

DPW 4-70

161080

SIEVE ONLY

SAMPLE WT.=192.4000

PHI PCT. CUMPCT.

11/07/80

2.00			
.50	.05	.05	
-1.00	.08	.13	
-.50	.08	.21	
0.00	.08	.29	
.50	.15	.44	
1.00	.74	1.18	*
1.50	4.81	5.99	*****
2.00	20.15	26.14	*****
2.50	22.67	48.81	*****
3.00	21.29	70.10	*****
3.50	15.83	85.93	*****
4.00	9.99	95.92	*****
****	4.08		****
*****	100.00		

MEAN ST.DEV. SKEWNESS KUFTOSIS

2.50	.74	-.13	.62	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI
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2.57	.81	.10	.89	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957
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PERCENTILES	MEDIAN	2.53	5TH	1.40	16TH	1.75	25TH	1.97
			75TH	3.15	84TH	3.44	95TH	3.95

PCT. GRAVEL	.13	SAND	95.79	SILT+CLAY	4.08
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GRAVEL+SAND	95.92	GRAV+SAND/SILT+CLAY	23.51
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LABELS SHEPARD -SAND	FOLK (GMS)-SAND	(SCS)-
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DPW 4-71

161080

SIEVE ONLY

SAMPLE WT.=181.3200

PHI PCT. CUMFCT.

11/07/80

1.50			
0.00	.04	.04	
-.50	0.00	.04	
0.00	.01	.05	
.50	.02	.07	
1.00	.09	.15	
1.50	1.70	1.85	**
2.00	16.37	18.23	*****
2.50	32.68	50.90	*****
3.00	29.74	80.65	*****
3.50	12.17	92.82	*****
4.00	3.26	96.08	***
****	3.92	96.08	****
****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.48	.55	.01	.61	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI
2.52	.64	.14	1.14	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.49	5TH	1.60	16TH	1.93	25TH	2.10
			75TH	2.91	84TH	3.14	95TH	3.83

PCT. GRAVEL	.04	SAND	96.05	SILT+CLAY	3.92		
GRAVEL+SAND	96.08				GRAV+SAND/SILT+CLAY	24.54	
LABELS SHEPARD -SAND		FOLK(GMS)-SAND			(SCS)-		

DPW 5-79

161080

SIEVE ONLY

SAMPLE WT.=230.4000

PHI PCT. CUMPCT.

11/07/80

.50	.00	.00	
1.00	.01	.01	
.50	.17	.01	
1.00	5.24	.19	*****
1.50		5.43	
2.00	35.32	40.75	*****
2.50	34.59	75.33	*****
3.00	21.60	96.93	*****
3.50	2.73	99.67	***
4.00	.25	99.91	
*****	.09	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.16	.47	.10	-.27	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
2.16	.49	.09	.85	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.13	5TH	1.46	16TH	1.65	25TH	1.78
			75TH	2.50	84TH	2.70	95TH	2.96

PCT. GRAVEL	0.00	SAND	99.91	SILT+CLAY	.09
GRAVEL+SAND	99.91			GRAV+SAND/SILT+CLAY	1151.00
LABELS SHEPARD	-SAND		FOLK (GMS)-SAND		(SCS)-

DPW 5-84

161080

SIEVE ONLY

SAMPLE WT.=122.8600

PHI PCT. CUMPCT.

11/07/80

1.00	.03	.03	
.50	.02	.05	
0.00	.02	.07	
.50	.02	.10	
1.00	.10	.20	
1.50	1.07	1.27	*
2.00	7.14	8.41	*****
2.50	33.21	41.62	*****
3.00	32.55	74.17	*****
3.50	16.91	91.07	*****
4.00	8.93	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

3.06 .47 -.27 2.00 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
 FOR SIZE RANGE -.5 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	3.13	5TH	2.26	16TH	2.61	25TH	2.75
			75TH	3.52	84TH	3.79	95TH	*****

PCT. GRAVEL 0.00 SAND 91.07 SILT+CLAY 8.93
 GRAVEL+SAND 91.07 GRAV+SAND/SILT+CLAY 10.20

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 5-85

161080

SIEVE ONLY

SAMPLE WT.=171.7200

PHI PCT. CUMPCT.

11/07/80

-2.00

1.50 .05 .05

1.00 .03 .08

.50 .02 .10

0.00 .01 .11

.50 .04 .15

1.00 .16 .31

1.50 2.17 2.48 **

2.00 19.53 22.01 *****

2.50 29.52 51.53 *****

3.00 26.81 78.34 *****

3.50 16.02 94.36 *****

4.00 4.50 98.86 *****

***** 1.14 *

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.49 .61 -.07 1.13

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.50 .64 .07 .93

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 2.47 5TH 1.56 16TH 1.85 25TH 2.05 75TH 2.94 84TH 3.18 95TH 3.57

PCT. GRAVEL .08 SAND 98.78 SILT+CLAY 1.14

GRAVEL+SAND 98.86 GRAV+SAND/SILT+CLAY 87.06

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SGS)-

DPW 6-47

171080

SIEVE ONLY

SAMPLE WT.=182.1700

PHI PCT. CUMFCT.

11/07/80

1.00

.33

1.50

11.88

.33

2.00

30.41

12.21

2.50

41.28

42.63

3.00

14.46

83.91

3.50

1.30

98.37

*

4.00

.33

99.67

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.56

.46

-.03

-.35

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 1.5 TO 4.0 PHI

2.55

.49

-.09

1.01

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN 2.59

5TH 1.70

16TH 2.05

25TH 2.21

75TH 2.89

84TH 3.00

95TH 3.38

PCT. GRAVEL

0.00

SAND

99.67

SILT+CLAY

.33

GRAVEL+SAND 99.67

GRAV+SAND/SILT+CLAY 297.64

BELS SHEPARD -SAND

FOLK (GMS)-SAND

(SCS)-

DPW 7-41

171080

SIEVE ONLY

SAMPLE WT.=202.8600

PHI PCT. CUM PCT.

11/07/80

-0.50			
0.00	.01	.01	
.50	.04	.05	
1.00	.01	.07	
1.50	.03	.10	
2.00	4.85	4.95	*****
2.50	25.82	30.77	*****
3.00	35.39	66.16	*****
3.50	25.22	91.38	*****
4.00	7.04	98.42	*****
****	1.58		**
	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.77	.51	-.01	-.19	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
2.78	.55	.07	.91	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.77	5TH	2.00	16TH	2.21	25TH	2.39
			75TH	3.18	84TH	3.35	95TH	3.76

PCT. GRAVEL	0.00	SAND	98.42	SILT+CLAY	1.58
GRAVEL+SAND	98.42			GRAV+SAND/SILT+CLAY	62.39
LABELS SHEPARD -SAND		FOLK (GMS) -SAND		(SCS) -	

DPW 7-43

201080

SIEVE ONLY

SAMPLE WT.=204.0200

PHI PCT. CUMPT.

11/07/80

-1.50		
.00	.20	.20
-.50	.20	.40
0.00	.21	.60
.50	.21	.81
1.00	.29	1.11
1.50	1.01	2.12
2.00	8.59	10.71
2.50	26.58	37.29
3.00	34.65	71.93
3.50	18.77	90.70
4.00	6.93	97.63
****	2.37	100.00

*

**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.64 .62 -.56 5.13

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

2.70 .63 .05 1.08

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.68	5TH	1.67	16TH	2.10	25TH	2.27
			75TH	3.08	84TH	3.32	95TH	3.81

PCT. GRAVEL .20 SAND 97.43 SILT+CLAY 2.37

GRAVEL+SAND 97.63 GRAV+SAND/SILT+CLAY 41.24

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 7-45

201080

SIEVE ONLY

SAMPLE WT.=194.1700

PHI PGT. CUMPT.

11/07/80

-1.50		
.00	.03	.03
-.50	0.00	.03
0.00	.02	.04
.50	.03	.07
1.00	.03	.10
1.50	.24	.33
2.00	6.57	6.91
2.50	24.86	31.77
3.00	31.46	63.23
3.50	26.54	89.77
4.00	8.37	98.14
****	1.86	100.00

 **

MEAN ST.DEV. SKEWNESS KURTOSIS

2.77	.54	-.10	.34
2.79	.60	.02	.94

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.79	5TH	1.85	16TH	2.18	25TH	2.36
			75TH	3.22	84TH	3.39	95TH	3.81

PCT. GRAVEL .03 SAND 98.12 SILT+CLAY 1.86

GRAVEL+SAND 98.14 GRAV+SAND/SILT+CLAY 52.79

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 7-46

201080

SIEVE ONLY

SAMPLE WT.=212.0700

PHI FCT. CUM PCT.

11/07/80

-2.00		
-1.50	.03	.03
-1.00	.02	.05
-.50	.02	.08
0.00	.04	.12
.50	.05	.17
1.00	.15	.32
1.50	1.36	1.68
2.00	16.49	18.17
2.50	38.08	56.25
3.00	28.10	84.34
3.50	11.89	96.24
4.00	2.59	98.83
****	1.17	100.00

*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.45	.53	-.06	2.03
2.45	.54	.10	1.02

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.42	5TH	1.60	16TH	1.93	25TH	2.09
			75TH	2.83	84TH	2.99	95TH	3.45

PCT. GRAVEL .05 SAND 98.78 SILT+CLAY 1.17

GRAVEL+SAND 98.83 GRAV+SAND/SILT+CLAY 84.51

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 8-34-1

241080

SIEVE ONLY

SAMPLE WT.=176.5200

PHI PCT. CUMPCT.

11/07/80

1.00

.12

1.50

23.82

.12

2.00

23.93

60.53

2.50

13.11

84.47

3.00

97.58

1.42

3.50

98.99

4.00

.46

99.46

.54

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.22

.34

.34

1.71

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 1.5 TO 4.0 PHI

2.18

.36

-.05

1.29

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN 2.22

5TH 1.60

16TH 1.83

25TH 2.01

75TH 2.42

84TH 2.50

95TH 2.90

PCT. GRAVEL

0.00

SAND

99.46

SILT+CLAY

.54

GRAVEL+SAND 99.46

GRAV+SAND/SILT+CLAY

182.88

BELS SHEPARD -SAND

FOLK (GMS) -SAND

(SCS) -

DPW 8-38

201080

SIEVE ONLY

SAMPLE WT.=213.2700

PHI PCT. CUMPCT.

11/07/80

-1.00

.01

.50

.01

.05

0.00

.07

.10

.50

.17

.24

1.00

.41

.94

1.50

1.35

25.19

2.00

26.53

33.80

2.50

60.34

19.92

3.00

80.26

13.66

3.50

93.92

4.60

4.00

98.51

1.49

*

100.00

MEAN ST.DEV. SKEWNESS KUFTOSIS

2.41

.60

.17

-.07

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

2.42

.65

.21

.93

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN 2.35

5TH 1.57

16TH 1.79

25TH 1.97

75TH 2.87

84TH 3.14

95TH 3.62

PCT. GRAVEL

0.00

SAND

98.51

SILT+CLAY

1.49

GRAVEL+SAND 98.51

GRAV+SAND/SILT+CLAY

66.28

LABELS SHEPARD -SAND

FOLK (GMS)-SAND

(SCS)-

DPW 9-26

201080

SIEVE ONLY

SAMPLE WT.=279.4800

PHI PCT. CUMFCT.

11/07/80

-4.50			*****
.00	33.94	33.94	*****
-3.50	18.60	52.54	*****
-3.00	5.36	57.90	*****
-2.50	3.88	61.79	****
-2.00	1.03	62.82	*
-1.50	.29	63.10	
-1.00	.16	63.26	
-.50	.07	63.33	
0.00	.07	63.40	
.50	.12	63.52	
1.00	.52	64.04	*
1.50	2.32	66.36	**
2.00	9.56	75.92	*****
2.50	16.29	92.21	*****
3.00	6.62	98.84	*****
3.50	.97	99.80	*
.00	.14	99.94	
***	.06	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.67	2.95	.27	-1.61	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.86	2.71	.77	.48	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -3.57	5TH -4.43	16TH -4.26	25TH -4.13
		75TH 1.95	84TH 2.25	95TH 2.71

PCT. GRAVEL	63.26	SAND	36.68	SILT+CLAY	.06
GRAVEL+SAND	99.94			GRAV+SAND/SILT+CLAY	1643.00

LABELS SHEPARD -SAND FOLK (GMS) -SANDY GRAVEL (SCS) -

DPW 9-29

201080

SIEVE ONLY

SAMPLE WT.=153.5400

PHI PCT. CUMPT.

11/07/80

-1.50

.03

.00

.02

.03

-.50

.08

.05

0.00

.10

.12

.50

.13

.22

1.00

.27

.35

1.50

2.36

.63

2.00

11.12

2.99

2.50

28.29

14.11

3.00

29.56

42.41

3.50

13.53

71.97

4.00

14.50

85.50

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.97

.54

-.46

3.19

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES

MEDIAN 3.13

5TH 2.09

16TH 2.53

25TH 2.69

75TH 3.61

84TH 3.94

95TH*****

PCT. GRAVEL .03 SAND 85.47 SILT+CLAY 14.50

GRAVEL+SAND 85.50

GRAV+SAND/SILT+CLAY 5.89

LABELS SHEPARD -SAND

FOLK(GMS)-MUDDY SAND

(SCS)-

DPW 9-30

201080

SIEVE ONLY

SAMPLE WT.=221.0600

PHI PCT. CUMPCT.

11/07/80

-1.50			
1.00	.13	.13	
	.28	.42	
-0.50			
	.27	.69	
0.00			
	.38	1.06	
.50			
	.66	1.72	*
1.00	2.71	4.43	***
1.50			
	14.16		*****
2.00		18.59	
	29.83		*****
2.50		48.43	
	37.13		*****
3.00		85.56	
	10.57		*****
3.50		96.13	
	1.72		**
4.00		97.86	
	2.14		**
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.44	.60	-.62	4.81	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI
2.47	.56	-.09	1.05	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.52	5TH	1.52	16TH	1.91	25TH	2.11
			75TH	2.86	84TH	2.98	95TH	3.45

PCT. GRAVEL	.13	SAND	97.72	SILT+CLAY	2.14
GRAVEL+SAND	97.86			GRAV+SAND/SILT+CLAY	45.64
LABELS SHEPARD -SAND		FOLK (GMS) -SAND		(SCS) -	

COMMENTS -
DPW 10-21 1 ROCK WEIGHING 40.84 GRAMS

DPW 10-25

201080

SIEVE ONLY

SAMPLE WT.=223.1700

PHI PCT. CUMFCT.

11/07/80

-1.00

.02 .02

.50

.05 .02

0.00

.09 .08

.50

.18 .17

1.00

1.51 .35

1.50

15.68 1.87

2.00

17.55

2.50

30.39 47.94

3.00

30.00 77.94

3.50

13.72 91.66

4.00

4.31 95.97

4.03

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.51

.57

-.01

.32

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

2.57

.66

.13

1.13

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN 2.53

5TH 1.60

16TH 1.95

25TH 2.12

75TH 2.95

84TH 3.22

95TH 3.89

PCT. GRAVEL

0.00

SAND

95.97

SILT+CLAY

4.03

GRAVEL+SAND

95.97

GRAV+SAND/SILT+CLAY

23.82

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

DPW 10-26

201080

SIEVE ONLY

SAMPLE WT.=214.8700

PHI PCT. CUMFCT.

11/07/80

-3.50			*
3.00	.63	.63	
-2.50	0.00	.63	
-2.00	0.00	.63	
-1.50	.04	.67	
-1.00	.09	.75	
-.50	.15	.91	
0.00	.14	1.05	
.50	.20	1.25	
1.00	.23	1.48	
1.50	.37	1.85	
2.00	4.59	6.44	*****
2.50	22.21	28.65	*****
3.00	37.77	66.43	*****
3.50	21.65	88.08	*****
4.00	6.73	94.81	*****
*****	5.19	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.70 .75 -1.91 26.78

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	2.78	5TH	1.84	16TH	2.22	25TH	2.42
			75TH	3.20	84TH	3.41	95TH	*****

PCT. GRAVEL .75 SAND 94.05 SILT+CLAY 5.19

GRAVEL+SAND 94.81

GRAV+SAND/SILT+CLAY 18.25

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

DPW 11-20

211080

SIEVE ONLY

SAMPLE WT.=173.0400

PHI PCT. CUMPCT.

11/07/80

- .50			
.00	.02	.02	
.50	.03	.05	
1.00	.06	.11	
1.50	.30	.41	
2.00	4.65	5.06	*****
2.50	21.00	26.05	*****
3.00	38.20	64.25	*****
3.50	25.21	89.46	*****
4.00	6.50	95.96	*****
****	4.04	100.00	****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.78	.50	-.11	.31	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
2.82	.58	.09	1.07	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.81	5TH	1.99	16TH	2.26	25TH	2.47
			75TH	3.21	84TH	3.39	95TH	3.93

PCT. GRAVEL	0.00	SAND	95.96	SILT+CLAY	4.04
GRAVEL+SAND	95.96			GRAV+SAND/SILT+CLAY	23.76

LABELS SHEPARD -SAND FOLK (GMS) -SAND (SCS) -

DPW 13-2

221080

SIEVE ONLY

SAMPLE WT.=163.3000

PHI PCT. CUM PCT.

11/07/80

-2.00			
.50	.02	.02	
-1.00	.01	.04	
	0.00		
-.50	.02	.04	
0.00	.05	.06	
.50	.12	.11	
1.00	.80	.23	*
1.50	6.04	1.03	*****
2.00	26.25	7.07	*****
2.50	49.66	33.33	*****
3.00	14.89	82.98	*****
3.50	1.51	97.87	**
4.00	.62	99.38	*
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.63	.45	-.38	4.09	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI
------	-----	------	------	---

2.62	.45	-.11	1.12	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957
------	-----	------	------	--

PERCENTILES	MEDIAN	2.67	5TH	1.83	16TH	2.17	25TH	2.34
			75TH	2.92	84TH	3.03	95TH	3.40

PCT. GRAVEL	.04	SAND	99.34	SILT+CLAY	.62
-------------	-----	------	-------	-----------	-----

GRAVEL+SAND	99.38	GRAV+SAND/SILT+CLAY	159.10
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LABELS SHEPARD -SAND	FOLK(GMS)-SAND	(SCS)-
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DPW 13-3

221080

SIEVE ONLY

SAMPLE WT.=216.3500

PHI PCT. CUMFCT.

11/07/80

-2.00		
-1.50	.25	.25
-1.00	.36	.61
-.50	.32	.93
0.00	.28	1.21
.50	.27	1.48
1.00	.46	1.94
1.50	2.07	4.01
2.00	9.74	13.76
2.50	22.40	36.16
3.00	31.31	67.47
3.50	22.05	89.52
4.00	6.31	95.84
****	4.16	100.00

**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.62 .73 -.87 7.07

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.72 .69 .00 1.06

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.72	5TH	1.55	16TH	2.05	25TH	2.25
			75TH	3.17	84TH	3.37	95TH	3.93

PCT. GRAVEL .61 SAND 95.23 SILT+CLAY 4.16

GRAVEL+SAND 95.84 GRAV+SAND/SILT+CLAY 23.01

LABELS SHEPARD -SAND FOLK (GMS) -SAND (SCS) -

DPW 14-87

231080

SIEVE ONLY

SAMPLE WT.=233.6300

PHI PCT. CUMPCT.

11/07/80

-4.00	1.75		**
3.50	2.43	1.75	**
-3.00	13.33	4.17	*****
-2.50	21.78	17.50	*****
-2.00	42.70	39.28	*****
-1.50	11.24	81.98	*****
-1.00	1.39	93.22	*
-.50	.89	94.61	*
0.00	1.30	95.50	*
.50	2.88	96.80	***
1.00	.31	99.66	
1.50	.01	99.99	
2.00	0.00	100.00	
2.50	0.00	100.00	
3.00	0.00	100.00	
3.50	0.00	100.00	
4.00	0.00	100.00	
****	0.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.87	.79	.56	3.31
-1.95	.69	-.00	1.48

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARG, 1957

PERCENTILES	MEDIAN -1.87	5TH -2.97	16TH -2.56	25TH -2.33
		75TH -1.58	84TH -1.41	95TH -.28

PCT. GRAVEL 93.22 SAND 6.78 SILT+CLAY 0.00

GRAVEL+SAND 100.00

GRAV+SAND/SILT+CLAY 99999.99

LABELS SHEPARD -SAND

FOLK(GMS)-GRAVEL

(SCS)-

DPW 14-89

231080

SIEVE ONLY

SAMPLE WT.=187.4600

PHI PCT. CUMFCT.

11/07/80

2.00			
.50	.07	.07	
-1.00	.14	.21	
-.50	.12	.33	
0.00	.11	.44	
.50	.05	.50	
1.00	.04	.54	
1.50	.06	.60	
2.00	1.18	1.78	*
2.50	15.34	17.12	*****
3.00	39.18	56.30	*****
3.50	25.99	82.29	*****
4.00	13.49	95.78	*****
****	4.22	100.00	****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.91 .55 -.81 10.98 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.98 .56 .15 1.01 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.92	5TH	2.10	16TH	2.46	25TH	2.60
			75TH	3.36	84TH	3.56	95TH	3.97

PCT. GRAVEL .21 SAND 95.57 SILT+CLAY 4.22

GRAVEL+SAND 95.78 GRAV+SAND/SILT+CLAY 22.70

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 14-90

221080

SIEVE ONLY

SAMPLE WT.=165.0700

PHI PCT. CUMFCT.

11/07/80

-2.00			
.50	.08	.08	
-1.00	0.00	.08	
-.50	.10	.18	
0.00	.19	.36	
.50	.42	.79	
1.00	1.08	1.87	*
1.50	2.13	3.99	**
2.00	6.02	10.01	*****
2.50	23.45	33.46	*****
3.00	44.05	77.51	*****
3.50	15.18	92.69	*****
4.00	4.93	97.61	*****
****	2.39	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.62	.60	-.64	5.08	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI
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2.68	.60	-.03	1.35	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957
------	-----	------	------	---

PERCENTILES	MEDIAN	2.69	5TH	1.58	16TH	2.13	25TH	2.32
			75TH	2.97	84TH	3.21	95TH	3.73

PCT. GRAVEL	.08	SAND	97.53	SILT+CLAY	2.39
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GRAVEL+SAND	97.61	GRAV+SAND/SILT+CLAY	40.90
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LABELS SHEPARD -SAND	FOLK (GMS)-SAND	(SCS)-
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DPW 14-91

221080

SIEVE ONLY

SAMPLE WT.=175.9700

PHI PCT. CUMFCT.

11/07/80

4.50			*****
.00	21.86	21.86	*****
-3.50	8.31	30.18	*****
-3.00	5.10	35.27	*****
-2.50	6.04	41.31	*****
-2.00	4.98	46.30	*****
-1.50	5.75	52.04	*****
-1.00	6.19	58.24	*****
-.50	5.47	63.71	*****
0.00	5.41	69.12	*****
.50	5.18	74.30	*****
1.00	4.93	79.23	*****
1.50	4.43	83.66	*****
2.00	5.37	89.03	*****
2.50	5.47	94.49	*****
3.00	4.31	98.81	*****
3.50	1.01	99.81	*
.00	.14	99.95	
***	.05	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.44	2.37	.16	-1.22	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.43	2.47	.18	.65	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -1.68	5TH -4.39	16TH -4.13	25TH -3.81
		75TH .57	84TH 1.53	95TH 2.56

PCT. GRAVEL	58.24	SAND	41.72	SILT+CLAY	.05
GRAVEL+SAND	99.95			GRAV+SAND/SILT+CLAY	2198.63

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

COMMENTS - DPW 14-91 -4.0 PHI FRACTION CONSISTS OF 1 LARGE ROCK.

DPW 14-92

231080

SIEVE ONLY

SAMPLE WT.=186.1200

PHI PCT. CUMFCT.

11/07/80

2.50				
2.00	.15	.15		
-1.50	.68	.83	*	
-1.00	.57	1.40	*	
-.50	.75	2.15	*	
0.00	.72	2.87	*	
.50	.66	3.52	*	
1.00	.92	4.44	*	
1.50	4.05	8.49	****	
2.00	27.81	36.30	*****	
2.50	40.80	77.11	*****	
3.00	19.38	96.49	*****	
3.50	3.20	99.69	***	
4.00	.21	99.90		
****	.10	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.08 .73 -1.21 9.65 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI

2.16 .55 -.09 1.15 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 2.17 5TH 1.07 16TH 1.63 25TH 1.80 75TH 2.47 84TH 2.68 95TH 2.96

PCT. GRAVEL 1.40 SAND 98.50 SILT+CLAY .10 GRAVEL+SAND 99.90 GRAV+SAND/SILT+CLAY 978.58

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 15-93

231080

SIEVE ONLY

SAMPLE WT.=242.9600

PHI PCT. CUMPCT.

11/07/80

-4.50			*****
4.00	4.72	4.72	*
-3.50	.86	5.58	
-3.00	2.96	8.54	***
-2.50	3.77	12.31	****
-2.00	2.77	15.08	****
-1.50	4.35	19.44	****
-1.00	3.65	23.09	****
-.50	3.69	26.79	****
0.00	4.39	31.18	****
.50	6.14	37.32	*****
1.00	9.44	46.76	*****
1.50	12.78	59.54	*****
2.00	18.76	78.31	*****
2.50	13.86	92.17	*****
3.00	7.10	99.27	*****
3.50	.58	99.85	*
4.00	.06	99.91	
***	.09	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

.45	1.97	-.47	-.16
.48	2.02	-.50	1.01

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.13	5TH	-3.84	16TH	-1.89	25TH	-.74
			75TH	1.91	84TH	2.21	95TH	2.70

PCT. GRAVEL	23.09	SAND	76.81	SILT+CLAY	.09
GRAVEL+SAND	99.91			GRAV+SAND/SILT+CLAY	1055.35

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

DPW 15-94

231080

SIEVE ONLY

SAMPLE WT.=201.8200

PHI PCT. CUMPCT.

11/07/80

1.00			
.50	.01	.01	
0.00	.01	.03	
.50	.01	.04	
1.00	.05	.10	
1.50	.13	.23	
2.00	.15	.39	
2.50	1.19	1.58	*
3.00	28.02	29.59	*****
3.50	40.76	70.35	*****
4.00	18.53	88.88	*****
****	11.12	100.00	*****

MEAN ST.DEV. SKEWNESS KUFTOSIS

3.17 .40 -.32 3.63 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
 FOR SIZE RANGE -.5 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	3.25	5TH	2.56	16TH	2.76	25TH	2.92
			75TH	3.63	84TH	3.87	95TH	*****

PCT. GRAVEL 0.00 SAND 88.88 SILT+CLAY 11.12
 GRAVEL+SAND 88.88 GRAV+SAND/SILT+CLAY 7.99

LABELS SHEPARD -SAND FOLK (GMS)-MUDDY SAND (SCS)-

DPW 15-98

231080

SIEVE ONLY

SAMPLE WT.=136.4200

PHI PCT. CUMFCT.

11/07/80

4.00			***
3.50	3.17	3.17	
3.00	0.00	3.17	
2.50	0.00	3.17	
2.00	.26	3.42	
1.50	0.00	3.42	
1.00	.23	3.66	
.50	.41	4.07	
0.00	.59	4.66	*
.50	.88	5.54	*
1.00	2.29	7.84	**
1.50	6.01	13.85	*****
2.00	15.08	28.93	*****
2.50	26.46	55.38	*****
3.00	34.47	89.85	*****
3.50	8.66	98.51	*****
4.00	1.19	99.71	*
***	.29	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.10 1.29 -1.57 11.28

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

2.29 .81 -.33 1.39

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.40	5TH	.19	16TH	1.57	25TH	1.87
			75TH	2.78	84TH	2.92	95TH	3.30

PCT. GRAVEL 3.66 SAND 96.05 SILT+CLAY .29

GRAVEL+SAND 99.71

GRAV+SAND/SILT+CLAY 340.05

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

COMMENTS -

DPW 15-98 SAMPLE ASLO CONTAINS 1 LARGE ROCK WEIGHING 308 GRAMS *

DPW 16-99

221080

SIEVE ONLY

SAMPLE WT.=177.0200

PHI PCT. CUMPCT.

11/07/80

-1.00

.17

.50

.62

.17

*

0.00

.79

.79

.50

3.22

4.01

1.00

26.76

30.77

1.50

36.10

66.87

2.00

19.43

86.30

2.50

4.80

91.10

3.00

4.66

95.76

3.50

2.60

98.36

*

4.00

.93

99.29

*

.71

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

1.36

.69

.50

1.49

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

1.31

.67

.24

1.20

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN

1.27

5TH

.52

16TH

.72

25TH

.89

75TH

1.71

84TH

1.94

95TH

2.92

PCT. GRAVEL

0.00

SAND

99.29

SILT+CLAY

.71

GRAVEL+SAND 99.29

GRAV+SAND/SILT+CLAY

139.49

LABELS SHEPARD -SAND

FOLK (GMS)-SAND

(SCS)-

DPW 16-100

221080

SIEVE ONLY

SAMPLE WT.=199.2400

PHI PCT. CUMFCT.

11/07/80

-3.50			*
-3.00	.90	.90	
-2.50	.42	1.31	
-2.00	1.72	3.04	**
-1.50	3.99	7.03	****
-1.00	7.86	14.89	*****
-.50	9.37	24.25	*****
0.00	9.50	33.75	*****
.50	13.27	47.01	*****
1.00	20.98	67.99	*****
1.50	22.33	90.33	*****
2.00	7.26	97.59	*****
2.50	.59	98.18	*
3.00	.73	98.91	*
3.50	.72	99.63	*
4.00	.24	99.87	
****	.13	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

.32	1.14	-.26	.28	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.0 TO 4.0 PHI
-----	------	------	-----	---

.33	1.12	-.31	.91	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957
-----	------	------	-----	--

PERCENTILES	MEDIAN	.57	5TH	-1.75	16TH	-.94	25TH	-.46
			75TH	1.16	84TH	1.36	95TH	1.82

PCT. GRAVEL	14.89	SAND	84.99	SILT+CLAY	.13
GRAVEL+SAND	99.87			GRAV+SAND/SILT+CLAY	795.96

LABELS SHEPARD	-SAND	FOLK (GMS)	-GRAVELLY SAND	(SCS)	-
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DPW 16-101

221080

SIEVE ONLY

SAMPLE WT.=159.2200

PHI PCT. CUM PCT.

11/07/80

.50			
1.00	.03	.03	
1.50	.27	.30	
2.00	4.70	5.00	*****
2.50	12.31	17.31	*****
3.00	27.35	44.66	*****
3.50	39.62	84.28	*****
4.00	11.93	96.21	*****
4.75	3.79		****
5.00		100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.96	.52	-.30	.03	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 1.0 TO 4.0 PHI
------	-----	------	-----	--

3.00	.56	-.14	1.08	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957
------	-----	------	------	--

PERCENTILES	MEDIAN	3.07	5TH	2.00	16TH	2.45	25TH	2.64
			75TH	3.38	84TH	3.50	95TH	3.95

PCT. GRAVEL	0.00	SAND	96.21	SILT+CLAY	3.79		
GRAVEL+SAND	96.21					GRAV+SAND/SILT+CLAY	25.36
LABELS SHEPARD -SAND		FOLK (GMS)-SAND				(SCS)-	

DPW 17-104

221080

SIEVE ONLY

SAMPLE WT.=206.6900

PHI PCT. CUMPCT.

11/07/80

-1.00

.01

-0.50

.04

.01

0.00

.07

.05

.50

.12

.12

1.00

.40

.24

1.50

2.41

.64

**

2.00

3.05

2.50

7.31

10.36

3.00

23.50

33.87

3.50

39.76

73.63

4.00

16.95

90.58

9.42

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

3.08

.51

-.52

2.47

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
FOR SIZE RANGE -.5 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES

MEDIAN 3.20

5TH 2.13

16TH 2.62

25TH 2.81

75TH 3.54

84TH 3.81

95TH*****

PCT. GRAVEL

0.00

SAND

90.58

SILT+CLAY

9.42

GRAVEL+SAND

90.58

GRAV+SAND/SILT+CLAY

9.62

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

DPW 17-106

221080

SIEVE ONLY

SAMPLE WT.=192.6600

PHI PCT. CUMFCT.

11/07/80

-1.50		
1.00	.02	.02
-.50	.06	.08
0.00	.12	.20
.50	.29	.49
1.00	.84	1.33
1.50	5.13	6.46
2.00	26.06	32.52
2.50	34.66	67.18
3.00	24.18	91.36
3.50	7.35	98.71
4.00	.98	99.68
****	.32	100.00

*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.25	.57	-.13	1.16
2.26	.58	.04	.96

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.25	5TH	1.36	16TH	1.68	25TH	1.86
			75TH	2.66	84TH	2.85	95TH	3.25

PCT. GRAVEL	.02	SAND	99.66	SILT+CLAY	.32
GRAVEL+SAND	99.68			GRAV+SAND/SILT+CLAY	314.84
LABELS SHEPARD -SAND		FOLK (GMS)-SAND		(SCS)-	

DPW 18-56

221080

SIEVE ONLY

SAMPLE WT.=262.0200

PHI PCT. CUMFCT.

11/07/80

-4.50	9.74	9.74	*****
-4.00	1.04	10.78	*
-3.50	0.00	10.78	
-3.00	.16	10.93	
-2.50	.14	11.08	
-2.00	.06	11.14	
-1.50	.01	11.14	
-1.00	.00	11.15	
-.50	.00	11.15	
0.00	.02	11.17	
.50	.05	11.22	
1.00	.46	11.69	
1.50	12.12	23.80	*****
2.00	29.50	53.30	*****
2.50	36.60	89.90	*****
3.00	9.87	99.77	*****
3.50	.19	99.96	
4.00	.04	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.76	2.13	-1.15	3.66	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
2.35	1.45	-.51	3.96	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.44	5TH	-4.24	16TH	1.68	25TH	2.02
			75TH	2.80	84TH	2.92	95TH	3.26

PCT. GRAVEL	11.14	SAND	88.82	SILT+CLAY	.04
GRAVEL+SAND	99.96			GRAV+SAND/SILT+CLAY	2619.20

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

DPW 18-57

221080

SIEVE ONLY

SAMPLE WT.=220.4800

PHI PCT. CUMPCT.

11/07/80

-4.50			*****
41.73			*****
0.00	41.73		*****
36.45			*****
-3.50	78.18		*****
6.87			*****
-3.00	85.05		*****
8.47			*****
-2.50	93.52		**
2.08			**
-2.00	95.60		*
1.53			*
-1.50	97.13		*
.73			*
-1.00	97.86		*
.59			*
-.50	98.45		
.34			
0.00	98.79		
.16			
.50	98.95		
.12			
1.00	99.07		
.10			
1.50	99.17		
.42			
2.00	99.59		
.33			
2.50	99.92		
.08			
3.00	100.00		
0.00			
3.50	100.00		
0.00			
4.00	100.00		
0.00			
4.50	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

-3.67	.89	1.68	15.57	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-3.76	.66	.42	1.43	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -3.89	5TH -4.44	16TH -4.31	25TH -4.20
		75TH -3.54	84TH -3.08	95TH -2.14

PCT. GRAVEL	97.86	SAND	2.14	SILT+CLAY	0.00
GRAVEL+SAND	100.00			GRAV+SAND/SILT+CLAY	99999.99

LABELS SHEPARD =SAND FOLK(GMS)-GRAVEL (SCS)-

DPW 19-10

221080

SIEVE ONLY

SAMPLE WT.=231.2600

PHI PCT. CUM PCT.

11/07/80

-4.50			*****
0.00	4.61	4.61	
-3.50	0.00	4.61	*
-3.00	.72	5.33	
-2.50	.16	5.48	
-2.00	.14	5.62	*
-1.50	.81	6.43	
-1.00	1.96	8.40	**
-.50	5.18	13.58	*****
0.00	8.84	22.42	*****
.50	6.33	28.76	*****
1.00	3.26	32.01	***
1.50	1.99	34.00	**
2.00	5.60	39.60	*****
2.50	19.07	58.67	*****
3.00	32.17	90.84	*****
3.50	6.92	97.76	*****
4.00	1.25	99.01	*
***	.99	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

1.44	1.88	-.74	1.71
1.60	1.80	-.65	1.05

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
FOR SIZE RANGE -4.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.27	5TH	-3.23	16TH	-.36	25TH	.20
			75TH	2.75	84TH	2.89	95TH	3.30

PCT. GRAVEL	8.40	SAND	90.61	SILT+CLAY	.99
GRAVEL+SAND	99.01			GRAV+SAND/SILT+CLAY	99.99

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

DPW 19-108

221080

SIEVE ONLY

SAMPLE WT.=153.8900

PHI PCT. CUMPCT.

11/07/80

-1.50

.00 .02 .02

-.50 .08 .10

0.00 .12 .23

.50 .27 .49

1.00 .58 1.07

1.50 1.10 2.18

2.00 2.75 4.93

2.50 11.31 16.23

3.00 34.34 50.57

3.50 30.61 81.18

4.00 11.75 92.93

**** 7.07 100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.91 .58 -.66 4.47 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES MEDIAN 2.99 5TH 2.00 16TH 2.49 25TH 2.63 75TH 3.40 84TH 3.62 95TH*****

PCT. GRAVEL .02 SAND 92.91 SILT+CLAY 7.07

GRAVEL+SAND 92.93 GRAV+SAND/SILT+CLAY 13.14

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 21-114

231080

SIEVE ONLY

SAMPLE WT.=159.4200

PHI PCT. CUMFCT.

11/07/80

-4.50			
00	5.97	5.97	*****
-3.50	0.00	5.97	
-3.00	0.00	5.97	
-2.50	0.00	5.97	
-2.00	.20	6.17	
-1.50	.20	6.37	
-1.00	.43	6.79	
-.50	1.61	8.40	**
0.00	6.29	14.69	*****
.50	28.32	43.01	*****
1.00	49.05	92.06	*****
1.50	6.84	98.90	*****
2.00	.85	99.76	*
2.50	.16	99.92	
3.00	.05	99.97	
3.50	.03	100.00	
4.00	0.00	100.00	
4.50	0.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

.25	1.22	-1.46	8.15	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
.50	1.03	-.49	3.37	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	.57	5TH	-4.08	16TH	.62	25TH	.18
			75TH	.83	84TH	.92	95TH	1.21

PCT. GRAVEL	6.79	SAND	93.21	SILT+CLAY	0.00
GRAVEL+SAND	100.00			GRAV+SAND/SILT+CLAY	99999.99

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

DPW 23-117

231080

SIEVE ONLY

SAMPLE WT.=275.8800

PHI PCT. CUMFCT.

11/07/80

-4.50	30.14	30.14	*****
0.00	1.73	31.87	**
-3.50	2.99	34.86	***
-3.00	2.90	37.76	***
-2.50	3.17	40.93	***
-2.00	4.94	45.88	*****
-1.50	4.06	49.94	****
-1.00	5.06	54.99	*****
-.50	6.03	61.03	*****
0.00	6.09	67.12	*****
.50	3.86	70.98	****
1.00	3.41	74.38	***
1.50	8.10	82.49	*****
2.00	10.45	92.94	*****
2.50	6.49	99.43	*****
3.00	.50	99.93	*
3.50	.05	99.98	
4.00	.02	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.12	2.60	.03	-1.52	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.05	2.65	.00	.52	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	-.99	5TH	-4.42	16TH	-4.23	25TH	-4.09
			75TH	1.54	84TH	2.07	95TH	2.66

PCT. GRAVEL	49.94	SAND	50.04	SILT+CLAY	.02
GRAVEL+SAND	99.98			GRAV+SAND/SILT+CLAY	4597.00

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

COMMENTS - DPW 23-117 -4.0 PHI FRACTION CONTAINS 1 ROCK WEIGHING 62.6 GRAMS.

DPW 23-119

231080

SIEVE ONLY

SAMPLE WT.=189.2700

PHI PCT. CUMFCT.

11/07/80

-2.00			
.50	.41	.41	*
-1.00	.67	1.08	*
-.50	.89	1.97	*
0.00	1.21	3.18	*
.50	1.24	4.42	*
1.00	1.25	5.66	**
1.50	1.79	7.45	*****
2.00	7.96	15.41	*****
2.50	22.15	37.57	*****
3.00	37.20	74.77	*****
3.50	18.70	93.46	*****
4.00	4.68	98.14	*****
****	1.86	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.50	.87	-1.03	5.94	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI
2.64	.75	-.19	1.52	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARG, 1957

PERCENTILES	MEDIAN	2.67	5TH	.73	16TH	2.01	25TH	2.22
			75TH	3.01	84TH	3.25	95TH	3.66

PCT. GRAVEL	1.08	SAND	97.06	SILT+CLAY	1.86
GRAVEL+SAND	98.14			GRAV+SAND/SILT+CLAY	52.77
LABELS SHEPARD -SAND		FOLK (GMS) -SAND		(SCS) -	

DPW 24-120

231080

SIEVE ONLY

SAMPLE WT.=234.5400

PHI PCT. CUMPCT.

11/07/80

-4.50	23.70	23.70	*****
0.00	0.00	23.70	
-3.50	2.97	26.67	***
-3.00	2.72	29.39	***
-2.50	4.79	34.18	*****
-2.00	10.40	44.58	*****
-1.50	8.19	52.78	*****
-1.00	5.36	58.13	*****
-.50	5.16	63.29	*****
0.00	8.28	71.57	*****
.50	14.20	85.77	*****
1.00	9.53	95.31	*****
1.50	3.55	98.86	****
2.00	.89	99.74	*
2.50	.23	99.97	
3.00	.03	100.00	
3.50	0.00	100.00	
4.00	0.00	100.00	
***	0.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.29 2.07 -.10 -1.30 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
FOR SIZE RANGE -4.0 TO 4.0 PHI

-1.46 2.17 -.14 .62 FOLK GRAPHIC STATISTICAL PARAMETERS
FOLK AND WARD, 1957

PERCENTILES MEDIAN -1.17 5TH -4.39 16TH -4.16 25TH -3.28
75TH .62 84TH .94 95TH 1.48

PCT. GRAVEL 52.78 SAND 47.22 SILT+CLAY 0.00
GRAVEL+SAND 100.00 GRAV+SAND/SILT+CLAY 99999.99

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

DPW 24-123

231080

SIEVE ONLY

SAMPLE WT.=174.7190

PHI PCT. CUM PCT.

11/07/80

-2.00

.02

.02

-.50

.11

.13

-1.00

.10

.23

-.50

.07

.30

0.00

.09

.39

.50

.24

.64

1.00

1.34

1.97

1.50

8.96

10.94

2.00

27.87

38.81

2.50

43.40

82.20

3.00

14.36

96.57

3.50

2.31

98.87

4.00

1.13

100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

2.58

.53

-.57

5.96

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.59

.51

-.09

1.10

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES

MEDIAN 2.63

5TH 1.67

16TH 2.09

25TH 2.25

75TH 2.92

84TH 3.06

95TH 3.45

PCT. GRAVEL

.13

SAND

98.75

SILT+CLAY

1.13

GRAVEL+SAND 98.87

GRAV+SAND/SILT+CLAY

87.69

LABELS SHEPARD -SAND

FOLK (GMS)-SAND

(SCS)-

DPW 74-3

231080

SIEVE ONLY

SAMPLE WT.=226.7900

PHI PCT. CUM PCT.

11/07/80

-2.00			
.50	.23	.23	
-1.00	.24	.47	
-.50	.37	.84	
0.00	.46	1.30	
.50	.57	1.87	*
1.00	.96	2.82	*
1.50	2.63	5.46	***
2.00	12.81	18.26	*****
2.50	31.04	49.30	*****
3.00	31.13	80.42	*****
3.50	14.16	94.59	*****
4.00	4.29	98.88	****
****	1.12	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.46 .71 -.75 5.93

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

2.52 .63 -.01 1.09

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.51	5TH	1.41	16TH	1.91	25TH	2.11
			75TH	2.91	84TH	3.13	95TH	3.55

PCT. GRAVEL .47 SAND 98.41 SILT+CLAY 1.12

GRAVEL+SAND 98.88

GRAV+SAND/SILT+CLAY 88.33

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-

DPW 80-5

241080

SIEVE ONLY

SAMPLE WT.=219.3800

PHI PCT. CUM PCT.

11/07/80

-2.00		
-1.50	.14	.14
-1.00	.11	.25
-.50	.13	.38
0.00	.10	.47
.50	.09	.56
1.00	.08	.64
1.50	.10	.73
2.00	1.36	2.10
2.50	11.80	13.90
3.00	43.79	57.69
3.50	27.66	85.35
4.00	9.71	95.06
4.94	4.94	100.00

*

MEAN ST.DEV. SKEWNESS KURTOSIS

2.90	.53	-1.12	16.15
2.97	.52	.17	1.12

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES
FOR SIZE RANGE -1.5 TO 4.0 PHI
FOLK GRAPHIC STATISTICAL PARAMETERS
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.91	5TH	2.12	16TH	2.52	25TH	2.63
			75TH	3.31	84TH	3.48	95TH	4.00

PCT. GRAVEL .25 SAND 94.81 SILT+CLAY 4.94

GRAVEL+SAND 95.06 GRAV+SAND/SILT+CLAY 19.24

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-

DPW 80-116

241080

SIEVE ONLY

SAMPLE WT.=180.4000

PHI PCT. CUMPCT.

11/07/80

-4.50			*****
0.00	6.86	6.86	*****
	3.80		****
-3.50		10.66	
	3.54		****
-3.00		14.20	
	6.91		*****
-2.50		21.11	
	12.54		*****
-2.00		33.65	
	19.25		*****
-1.50		52.89	
	13.19		*****
-1.00		66.08	
	13.22		*****
-.50		79.30	
	10.63		*****
0.00		89.93	
	4.00		****
.50		93.92	
	1.59		**
1.00		95.52	
	1.41		*
1.50		96.92	
	1.77		**
2.00		98.69	
	.86		*
2.50		99.56	
	.38		
3.00		99.94	
	.06		
3.50		100.00	
	0.00		
4.00		100.00	
	0.00		
***		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.55	1.40	.07	.29	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -4.0 TO 4.0 PHI
-1.57	1.40	-.01	1.21	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -1.58	5TH -4.14	16TH -2.87	25TH -2.34
		75TH -.66	84TH -.28	95TH .84

PCT. GRAVEL	66.08	SAND	33.92	SILT+CLAY	0.00
GRAVEL+SAND	100.00			GRAV+SAND/SILT+CLAY	99999.99

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

23676

DPW 86-14

241080

SIEVE ONLY

SAMPLE WT.=214.9700

PHI PCT. CUMPCT.

11/07/80

-2.00			
.50	.05	.05	
-1.00	.05	.10	
-.50	.05	.14	
0.00	.23	.37	
.50	.91	1.28	*
1.00	5.75	7.03	*****
1.50	19.95	26.98	*****
2.00	46.30	73.28	*****
2.50	23.50	96.78	*****
3.00	3.10	99.87	***
3.50	.11	99.99	
4.00	.01	100.00	
*****	0.00	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.72 .49 -.36 2.58

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 4.0 PHI

1.73 .50 -.09 1.15

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.75	5TH	.82	16TH	1.22	25TH	1.45
			75TH	2.04	84TH	2.23	95TH	2.46

PCT. GRAVEL .10 SAND 99.90 SILT+CLAY 0.00

GRAVEL+SAND 100.00

GRAV+SAND/SILT+CLAY 99999.99

LABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-