

Reports

6-1994

York Estuary Sediments

Carl H. Hobbs III
Virginia Institute of Marine Science

Follow this and additional works at: <https://scholarworks.wm.edu/reports>



Part of the [Environmental Monitoring Commons](#), and the [Oceanography Commons](#)

Recommended Citation

Hobbs, C. H. (1994) York Estuary Sediments. Data report (Virginia Institute of Marine Science) ; no. 53.. Virginia Institute of Marine Science, College of William and Mary. <https://doi.org/10.21220/V5PW3P>

This Report is brought to you for free and open access by W&M ScholarWorks. It has been accepted for inclusion in Reports by an authorized administrator of W&M ScholarWorks. For more information, please contact scholarworks@wm.edu.

77° 00'

76° 00'

75° 00'

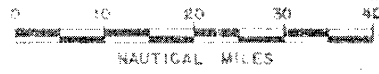


YORK ESTUARY SEDIMENTS DATA REPORT #53

Carl H. Hobbs, III

**School of Marine Science
Virginia Institute of Marine Science
Gloucester Point, Virginia**

June 1994



NAUTICAL MILES

77° 00'

76° 00'

75° 00'

39° 00'

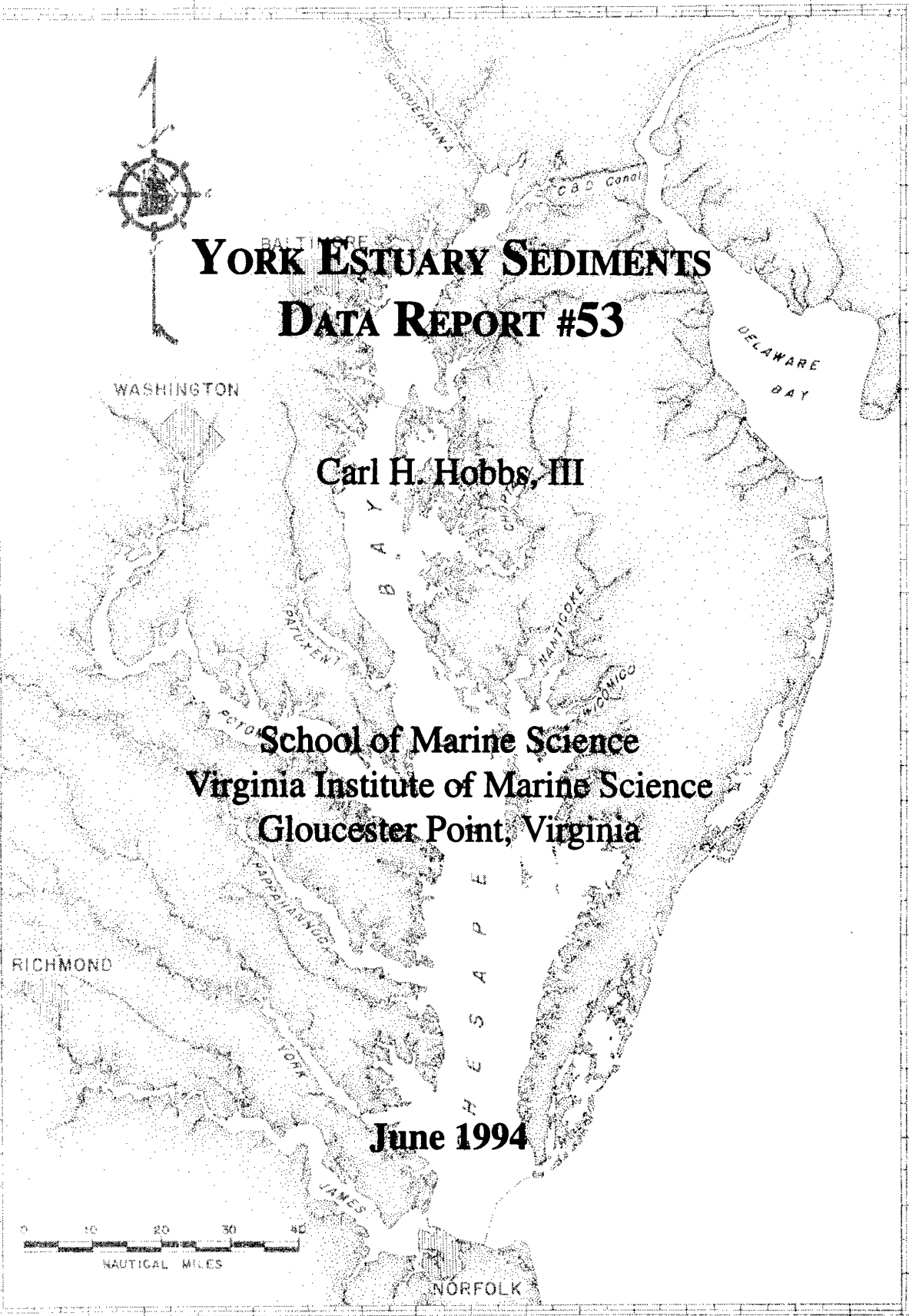
39° 00'

38° 00'

38° 00'

37° 00'

37° 00'



YORK ESTUARY SEDIMENTS
DATA REPORT #53

Carl H. Hobbs, III

School of Marine Science
Virginia Institute of Marine Science
Gloucester Point, Virginia

June 1994

This report presents the results of the analyses of a suite of sediment samples that was collected from the York River Estuary, including portions of the Mattaponi and Pamunkey Rivers. Samples from the York were taken in November, 1991, the Pamunkey in December, 1991, and Mattaponi in February, 1992. The intent of the project was to obtain an archive of "background" and "status" information on the bottom sediments of the system.

Samples were collected along predetermined transects of the rivers. There were 9 lines in the York, and 3 each in the Mattaponi and Pamunkey. In the field samples were collected with a small, hand operated grab-sampler at sites determined after running a bathymetric cross-section with a recording, survey fathometer. Sample sites were selected to represent mid-channel depths and other depth environments as appropriate to that transect. Sample labeling reflects the transect number, for example, YES-9, and the location along the transect with "A" being in shallow water near the "southern" shore, YES 9 A, and the letters increasing across channel. Position locations were determined with a hand-held GPS (global position system) unit in a free-standing (that is not in differential) mode, reporting latitude and longitude in NAD 1983. Figures depicting the locations of the transects and samples are included later in the report. Figures depicting the cross channel bathymetry at the transects and the along channel depth profile also appear in later in the report.

Some of the transects carry an "R" identification as well as "YES" or "Y." The "R" transects are at the same site as transects reported on by Brown and others (1939)

Two plastic bags of sediment were collected at each site. One was for grain-size analysis the other transferred to the Nutrient Analysis Lab for that suite of analyses. Grain-size analysis followed standard internal procedures of wet sieving to separate sands from the finer sediments, determination of the sand:silt:clay ratios, Rapid Sediment Analyzer (settling tube) of the sands if the sands accounted for ten or more percent of the total sample, analysis of the fines in a Coulter Counter if the fines accounted for ten or more percent of the sample. Results of the various analyses for each sample were joined and combined grain-size statistics were determined. The tabulated and the individual results of those analyses constitute the bulk of this data report.

The Nutrient Analysis Laboratory determined the total phosphorus, inorganic phosphorus, total carbon, and nitrogen contents of the samples. Those results also follow.

For specific studies concerning selected aspects of the York Estuary's sediments the reader is referred to Fass(1972), Hinde (1981), Hayward and others (1986), Hobbs (1986) and Finkelstein and Hardaway (1988). The U.S. Army Corps of Engineers, Norfolk District also has documentation of the dredging projects located

within the York Estuary system.

D. Hepworth, L. George, and S. Miller assisted with the field work. S. Dydak performed the grain-size analyses.

References Cited

- Brown, C.B., L.M. Seavy, and G. Rittenhouse. 1939. Advance Report on an Investigation of Silting in the York River, Virginia, October 25 - November 5, 1938. United States Department of Agriculture, Soil Conservation Service, Sedimentation Studies, Division of Research, SCS-SS-32. Washington, D.C., 12p.
- Faas, R.W. 1972. Mass physical and engineering properties of some York River sediments. in Nelson, B.W., ed., Environmental Framework of Coastal Plain Estuaries, Memoir 133, Geological Society of America, p. 337-347.
- Finkelstein, K. and C.S. Hardaway. 1988. Late Holocene sedimentation and erosion of estuarine marshes, York River, Virginia. *Journal of Coastal Research*, v.4, n.3, p.447-456.
- Folk, R.L. 1974. *Petrology of Sedimentary Rocks*. Hemphill Publishing Co. Austin, Texas. 182 p.
- Friedman, G.M. and J.E. Sanders. 1978. *Principles of Sedimentology*. John Wiley & Sons. 792 p.
- Hayward, D., L.W. Hass, J. D. Boon, III, K.L. Webb, and K.D. Friedland. 1986. Empirical models of stratification variation in the York River estuary, Virginia, U.S.A.. in Bowman, J, M. Yentsch, and W.T. Peterson, eds, *Lecture notes on Coastal and Estuarine Studies*, v.17, Tidal Mixing and Plankton Dynamics, Springer-Verlag, p.346-367.
- Hinde, Priscilla, 1981. *Macrobenthic Structure in the Vicinity of an Oil Refinery: A consideration of Sampling Design and Statistical Technique*. Unpublished Master's Thesis, School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA.
- Hobbs, C. H., III, 1986. Side-scan sonar as a tool for mapping spatial variations in sediment type. *Geo-Marine Letters*, 5:241-245.
- U. S. Army Corps of Engineers, Norfolk District, various dates, documents pertaining to proposed dredging in or near the York River.

Contents

Locations of Samples

Table of Sample Depths and Locations

Map Depicting the Setting of the York, Pamunkey, and
Mattaponi Rivers within Virginia's Coastal Plain

Maps Depicting Locations of the Transects and Individual
Samples in the York, Pamunkey, and Mattaponi Rivers

Mid-Channel Depth Profiles of the York, Pamunkey, and
Mattaponi Rivers

West to East Profiles of the York, Pamunkey and Mattaponi
Rivers at Sampling Transects and Other Locations (units
in feet)

Results of Chemical Analyses

Grain-Size Data

Composite Grain-Size Statistics

Grain-Size Statistics (Graphic) for the Sand Fraction of the
Samples

Grain-Size Data on Individual Samples

RSA Output

Coulter Counter Data

Plot and Tabulation of Combined Data

Table of Sample Depths and Locations.

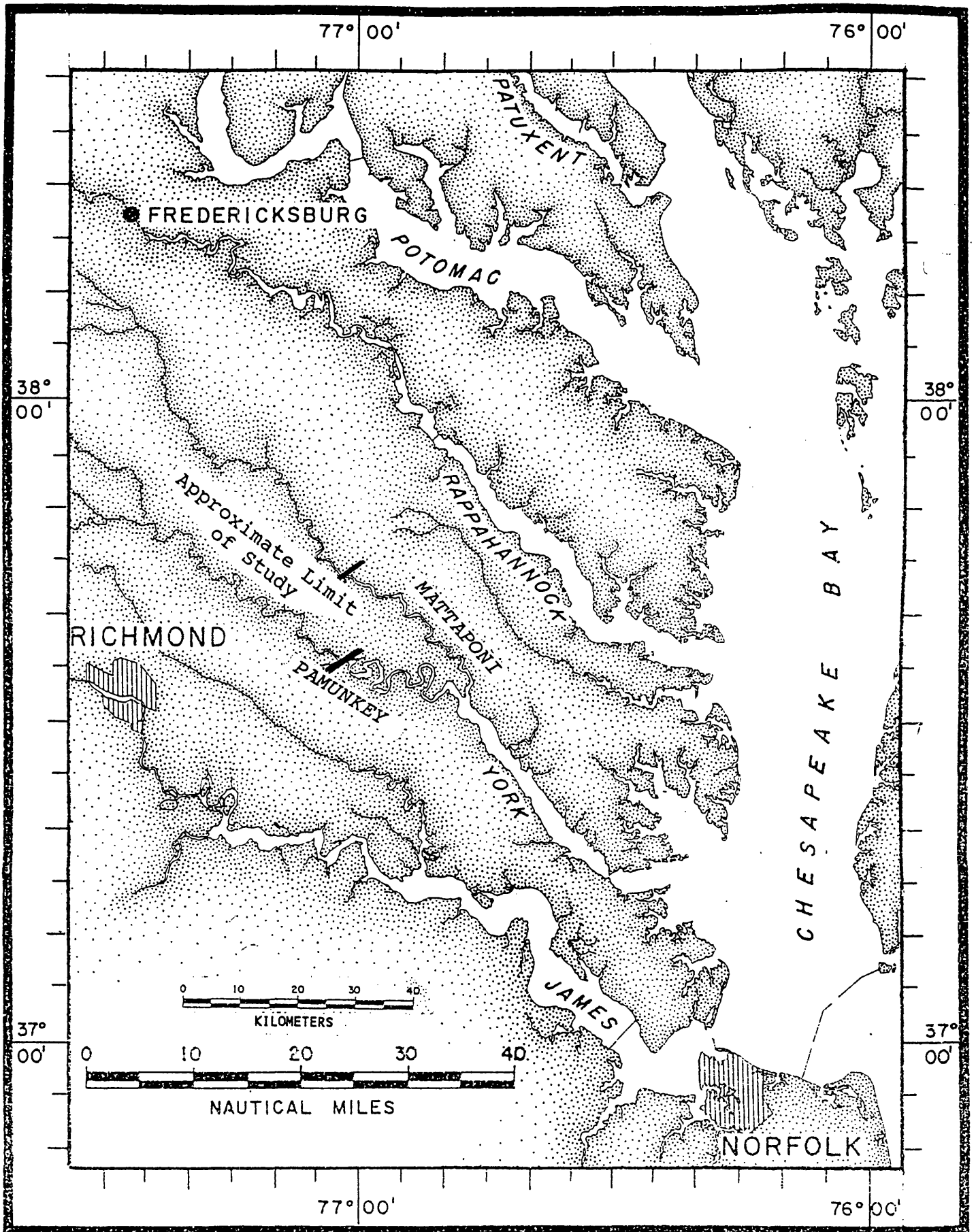
Locations were determined in the field by hand held, non-differential GPS and report in degrees, minutes, and seconds of latitude and longitude in NAD 1983. The conversion to State Plane Coordinates was facilitated by NOAA's CORPSCON software. The state plane coordinates also are in NAD 1983.

SAMPLE DEPTHS AND LOCATIONS
(all locations are NAD 1983)

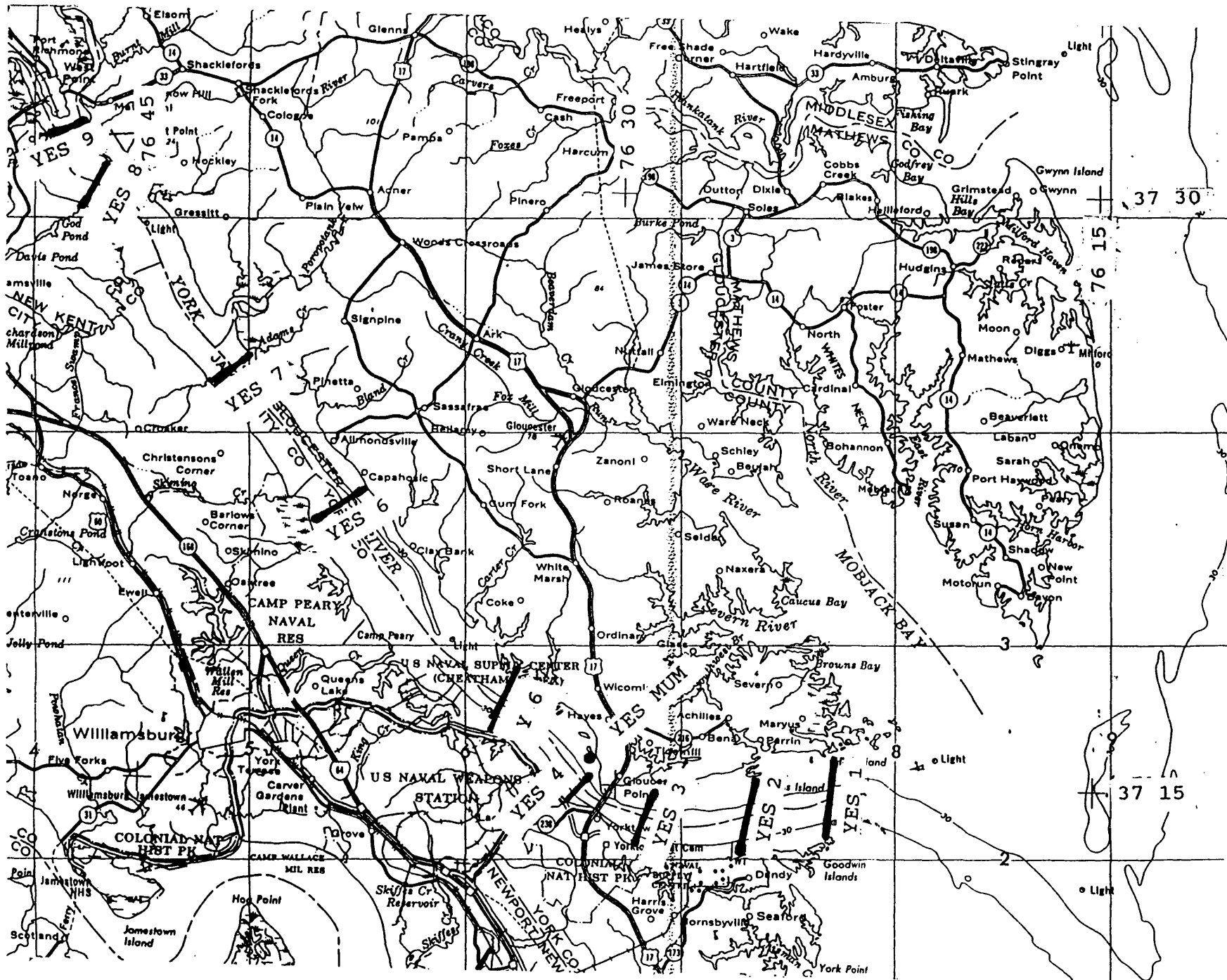
SAMPLE	DEPTH	LATITUDE			LONGITUDE			STATE PLANE COORD	
	feet	deg	min	sec	deg	min	sec	feet	feet
YES 1 A	5	37	14	7.27 N	76	23	1.76 W	12098916 E	3616153 N
YES 1 B	29	37	14	13.36 N	76	22	58.66 W	12099153 E	3616774 N
YES 1 C	40	37	14	20.11 N	76	22	48.02 W	12099997 E	3617476 N
YES 1 D	64	37	14	51.76 N	76	22	29.44 W	12101427 E	3620710 N
YES 1 E	32	37	15	3.29 N	76	22	28.11 W	12101509 E	3621878 N
YES 1 F	18	37	15	24.50 N	76	22	12.25 W	12102742 E	3624052 N
YES 1 G	4	37	15	55.63 N	76	21	44.00 W	12104954 E	3627251 N
YES 2 A	10	37	13	31.44 N	76	25	53.35 W	12085123 E	3612222 N
YES 2 B	23	37	13	37.69 N	76	25	53.23 W	12085119 E	3612855 N
YES 2 C	45	37	14	3.07 N	76	25	42.16 W	12085957 E	3615440 N
YES 2 D	70	37	14	10.05 N	76	25	45.50 W	12085672 E	3616140 N
YES 2 E	36	37	14	25.77 N	76	25	40.52 W	12086040 E	3617739 N
YES 2 F	11	37	14	33.78 N	76	25	44.80 W	12085676 E	3618541 N
YES 3 A	15	37	13	33.91 N	76	29	2.64 W	12069812 E	3612141 N
YES 3 B	32	37	13	40.67 N	76	28	53.20 W	12070561 E	3612841 N
YES 3 C	49	37	13	48.59 N	76	28	46.80 W	12071061 E	3613653 N
YES 3 D	37	37	14	9.11 N	76	28	41.41 W	12071452 E	3615737 N
YES 3 E	24	37	14	25.56 N	76	28	39.09 W	12071604 E	3617404 N
YES 3 F	4	37	14	42.85 N	76	28	41.50 W	12071372 E	3619148 N
YES 4 A	9	37	14	37.02 N	76	31	18.37 W	12058704 E	3618290 N
YES 4 B	54	37	14	48.72 N	76	31	7.77 W	12059536 E	3619491 N
YES 4 C	8	37	15	17.19 N	76	30	13.02 W	12063901 E	3622463 N
YES 6 A	7	37	16	31.82 N	76	34	4.52 W	12045035 E	3629620 N
YES 6 B	47	37	16	51.52 N	76	33	37.30 W	12047193 E	3631657 N
YES 6 C	8	37	17	14.29 N	76	33	16.61 W	12048818 E	3633994 N
YES MUM	4	37	15	58.86 N	76	31	2.48 W	12059814 E	3626592 N
Y 6 A	3	37	21	40.78 N	76	39	22.10 W	12018762 E	3660349 N
Y 6 B	16	37	21	51.61 N	76	38	51.05 W	12021247 E	3661493 N
Y 6 C	34	37	22	9.24 N	76	38	20.42 W	12023684 E	3663324 N
Y 6 D	20	37	22	13.68 N	76	38	35.59 W	12022451 E	3663749 N
Y 6 E	5	37	22	24.76 N	76	38	1.25 W	12025200 E	3664924 N
YES 7 A	7	37	25	26.63 N	76	42	29.37 W	12003213 E	3682896 N
YES 7 B	21	37	25	36.42 N	76	42	20.65 W	12003897 E	3683899 N
YES 7 C	16	37	25	52.12 N	76	42	7.49 W	12004928 E	3685507 N
YES 7 D	2	37	25	53.94 N	76	41	54.60 W	12005964 E	3685711 N
YES 8 A	7	37	29	34.46 N	76	46	45.00 W	11982140 E	3707574 N
YES 8 B	20	37	29	34.35 N	76	46	22.38 W	11983962 E	3707596 N
YES 8 C	13	37	30	36.49 N	76	46	18.01 W	11984200 E	3713886 N
YES 8 D	5	37	29	52.52 N	76	46	18.99 W	11979368 E	3709350 N

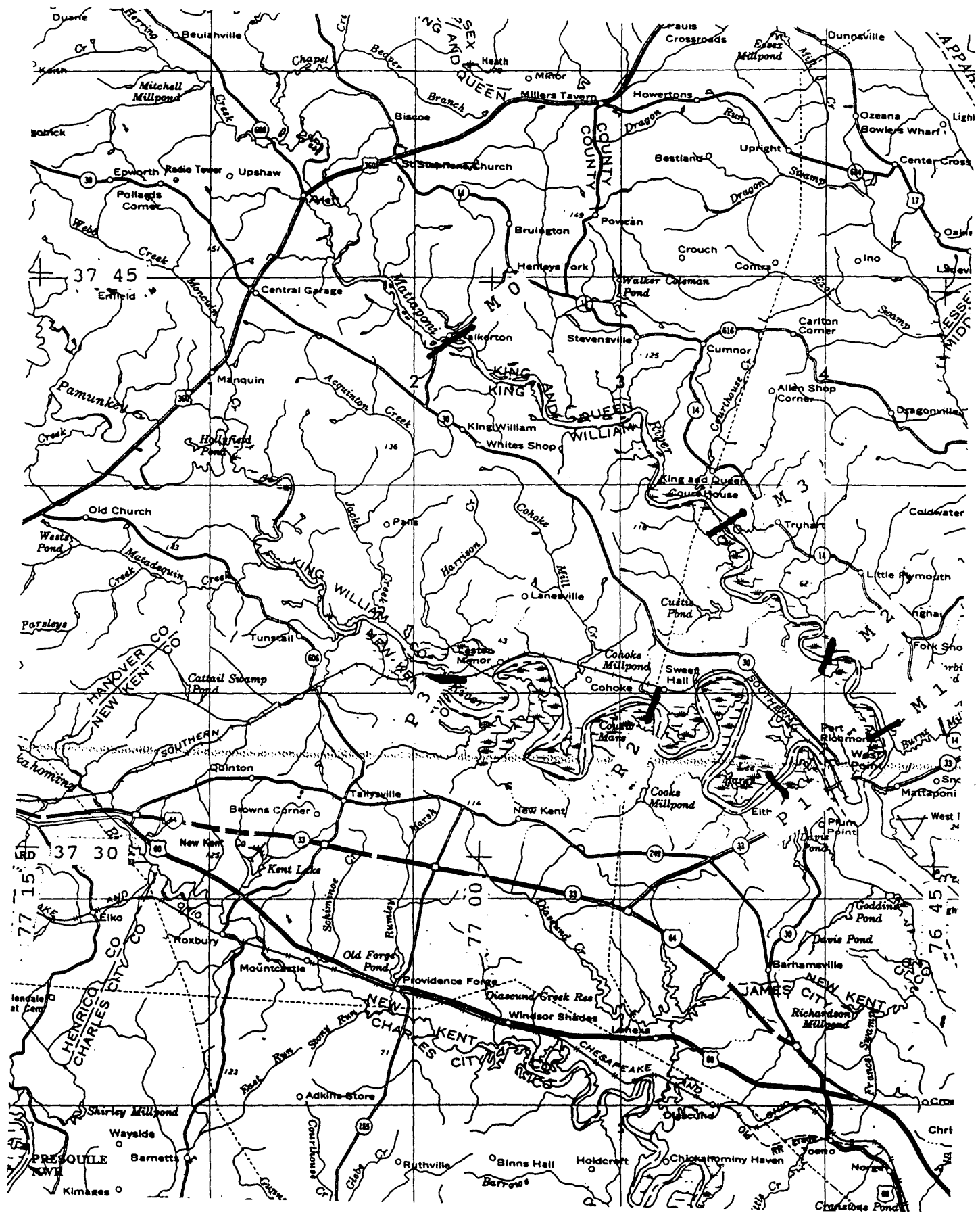
SAMPLE	DEPTH feet	LATITUDE deg min sec	LONGITUDE deg min sec	STATE PLANE COORD feet	feet
YES 9 A	4	37 31 12.23 N	76 48 5.02 W	11975514 E	3717344 N
YES 9 B	20	37 31 14.98 N	76 47 51.70 W	11976582 E	3717642 N
YES 9 C	3	37 31 23.73 N	76 47 33.13 W	11978062 E	3718553 N
YES 9 D	15	37 31 30.36 N	76 47 21.38 W	11978996 E	3719241 N
YES 9 E	3	37 31 35.01 N	76 47 5.24 W	11980287 E	3719735 N
P 1 A	2	37 34 34.75 N	77 1 23.28 W	11910895 E	3736744 N
P 1 B	17	37 34 39.81 N	77 1 24.70 W	11910772 E	3737254 N
P 1 C	3	37 34 42.00 N	77 1 28.47 W	11910466 E	3737470 N
P 2 A	8	37 34 8.33 N	76 54 21.14 W	11944918 E	3734624 N
P 2 B	50	37 34 4.04 N	76 54 22.42 W	11944822 E	3734189 N
P 2 C	11	37 34 0.66 N	76 54 23.60 W	11944733 E	3733845 N
P 3 A	8	37 32 0.52 N	76 50 31.76 W	11963609 E	3722017 N
P 3 B	20	37 32 1.13 N	76 50 29.79 W	11963766 E	3722082 N
P 3 C	6	37 31 53.18 N	76 50 27.14 W	11963994 E	3721282 N
M 0 A	3	37 43 20.07 N	77 1 25.53 W	11909883 E	3789868 N
M 0 B	13	37 43 24.70 N	77 1 22.85 W	11910091 E	3790340 N
M 0 C	4	37 43 24.70 N	77 1 22.85 W	11910091 E	3790340 N
M 1 A	3	37 38 54.57 N	76 52 22.49 W	11953969 E	3763735 N
M 1 B	18	37 39 0.48 N	76 52 13.55 W	11954678 E	3764345 N
M 1 C	4	37 39 1.79 N	76 52 12.25 W	11954780 E	3764479 N
M 2 A	8	37 35 28.89 N	76 49 28.00 W	11968370 E	3743180 N
M 2 B	38	37 35 30.70 N	76 49 26.10 W	11968519 E	3743366 N
M 2 C	12	37 35 33.63 N	76 49 21.54 W	11968881 E	3743669 N
M 3 A	6	37 33 47.94 N	76 46 47.24 W	11981492 E	3733204 N
M 3 B	27	37 33 45.65 N	76 46 50.00 W	11981274 E	3732968 N
M 3 C	7	37 33 41.94 N	76 47 3.40 W	11980202 E	3732574 N

Map Depicting the Setting of the York, Pamunkey, and Mattaponi
Rivers within Virginia's Coastal Plain



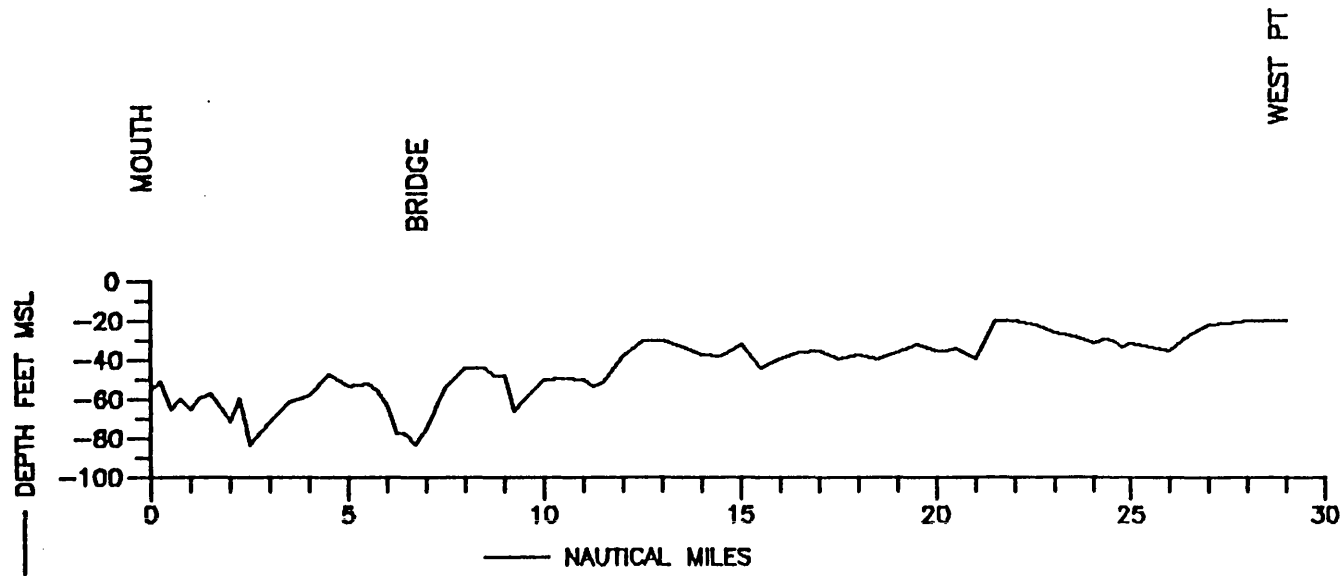
Maps Depicting the Locations of the Transects in the York,
Pamunkey, and Mattaponi Rivers



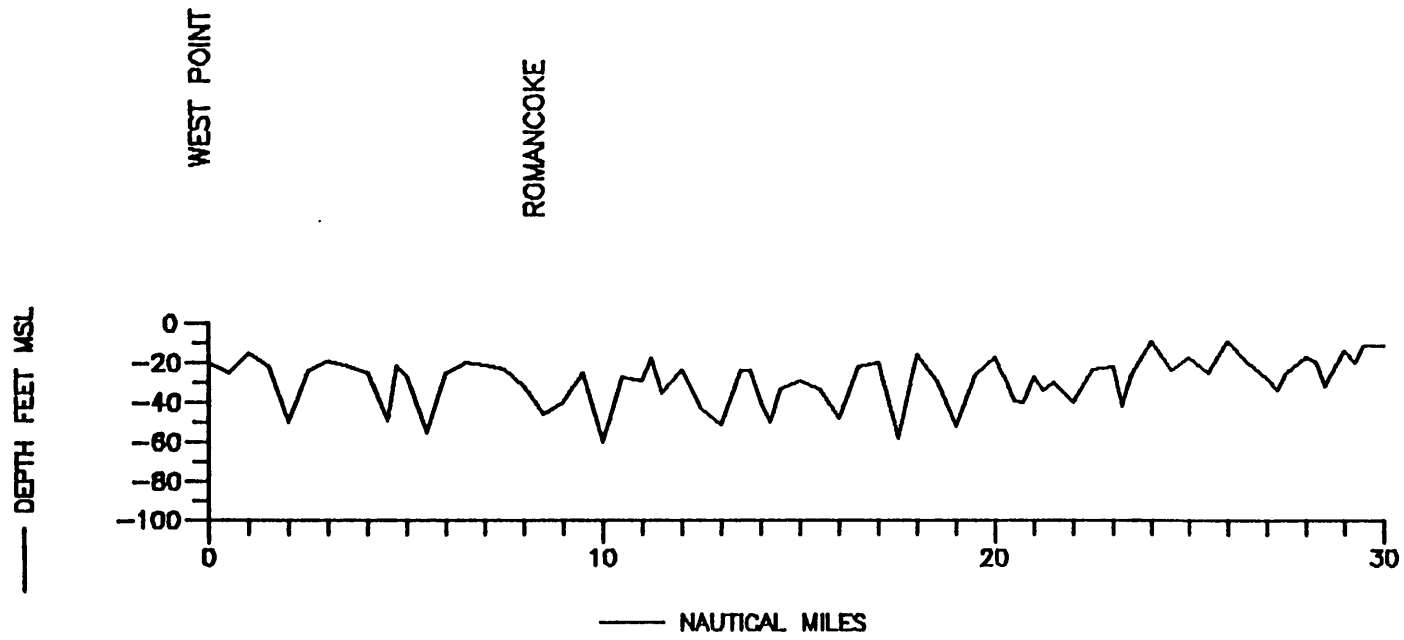


Mid-Channel Depth Profiles of the
York, Pamunkey, and Mattaponi Rivers

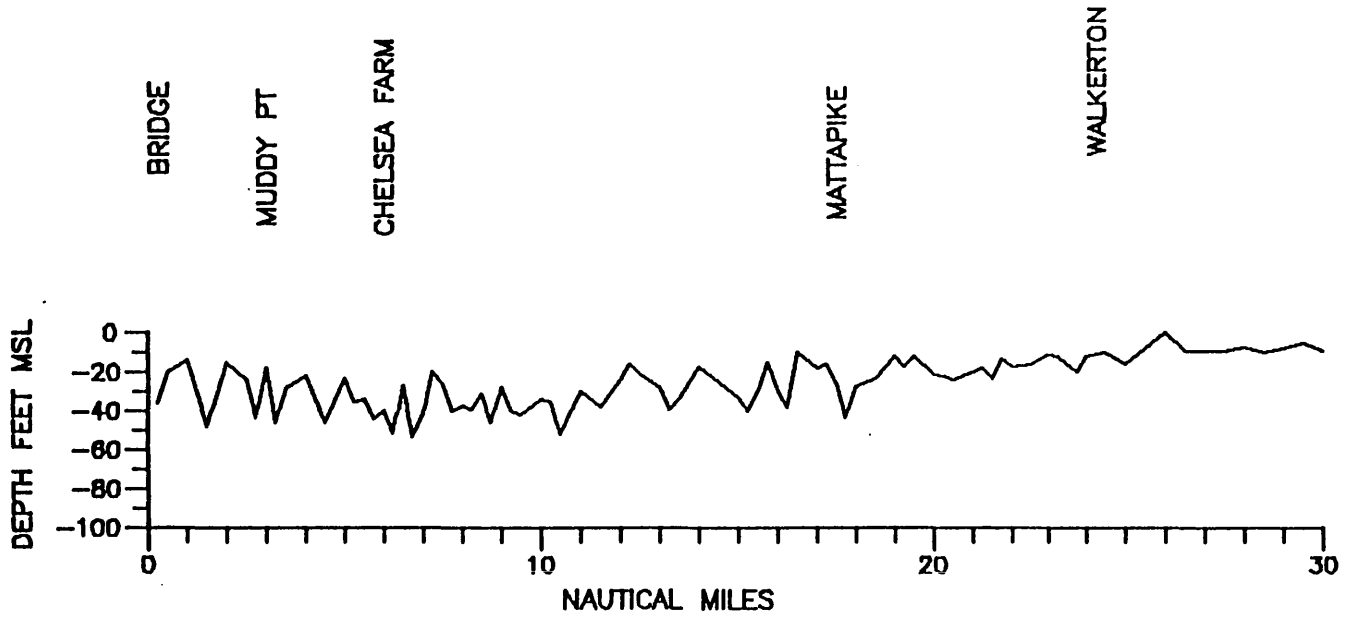
YORK RIVER DEPTH PROFILE



PAMUNKEY RIVER DEPTH PROFILE

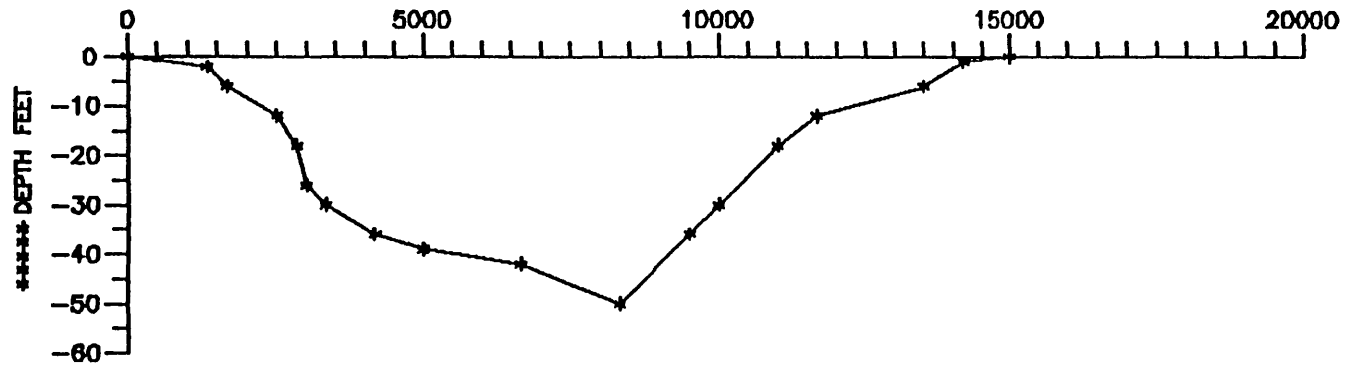


MATTAPONI RIVER DEPTH PROFILE

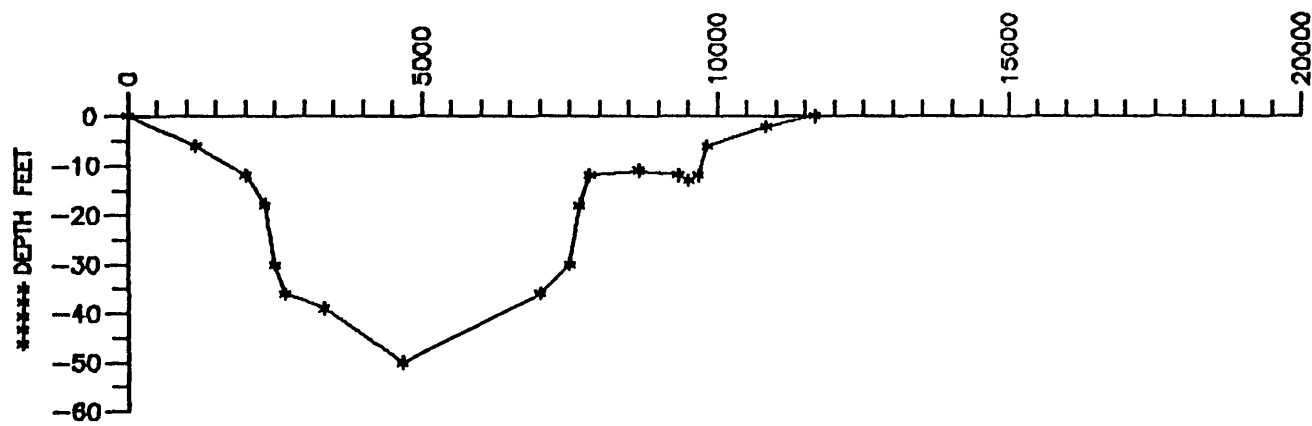


West to East Profiles of the York, Pamunkey, and Mattaponi Rivers
at Sampling Transects and other Sites (units in feet)

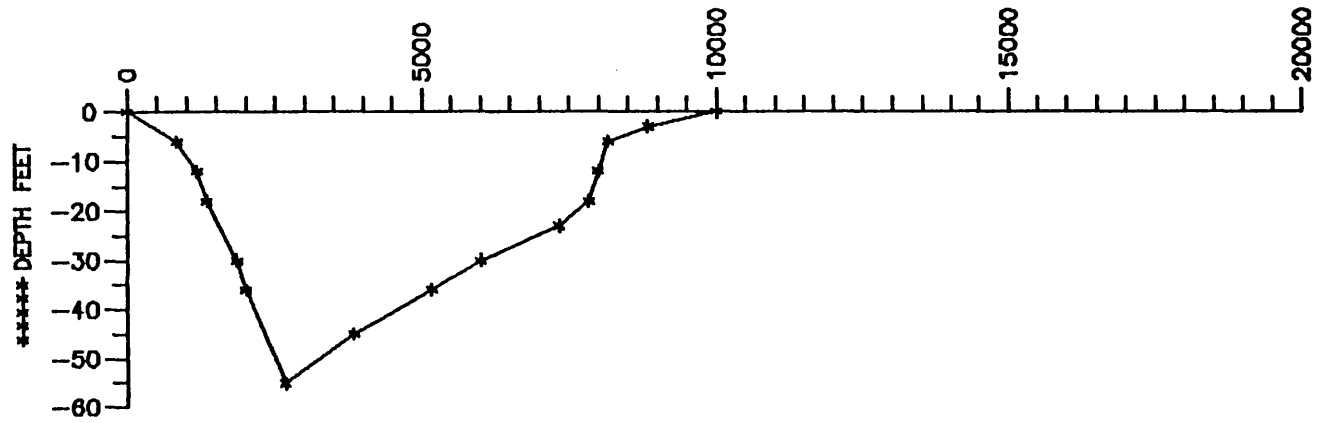
PROFILE Y-1



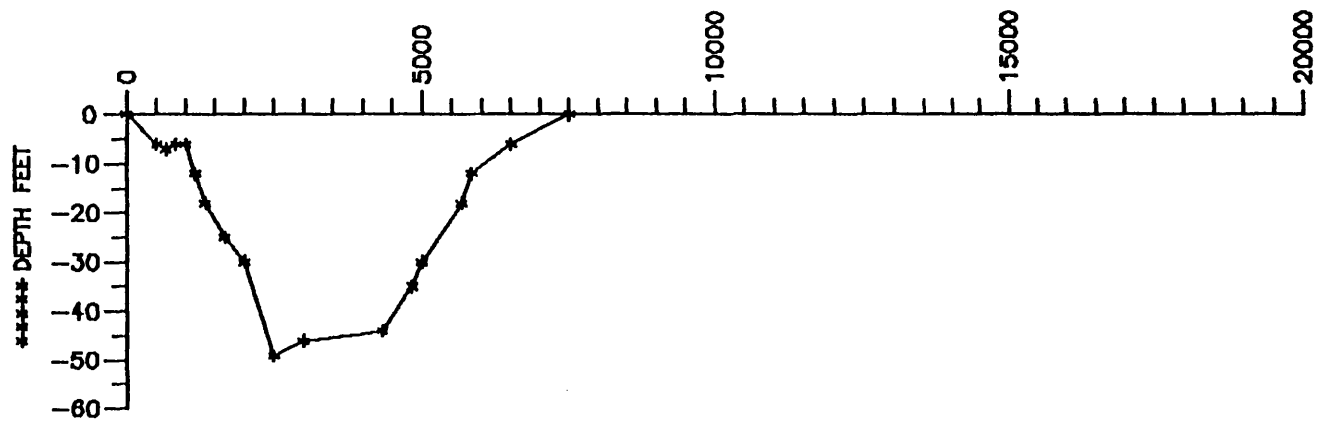
PROFILE Y-2



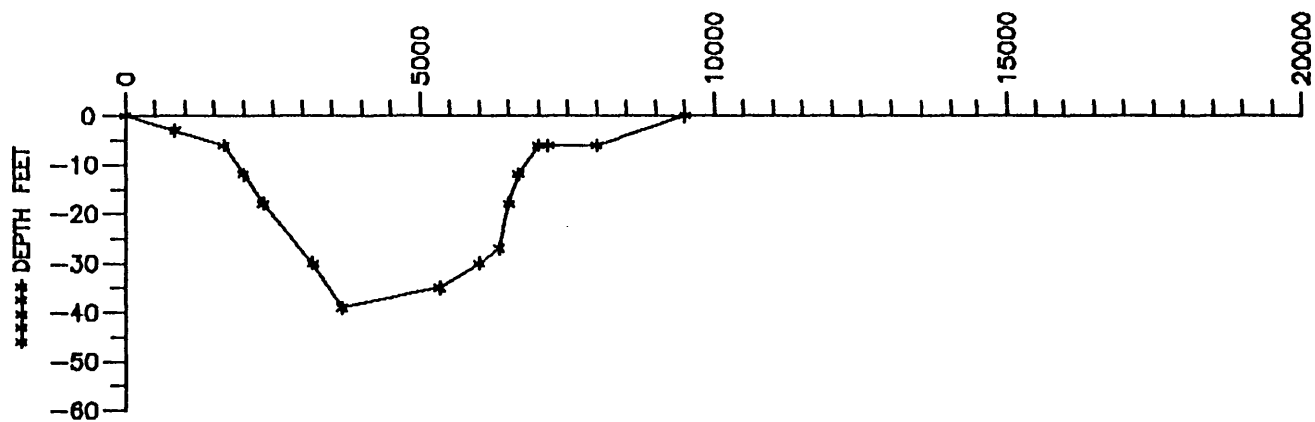
PROFILE Y-3



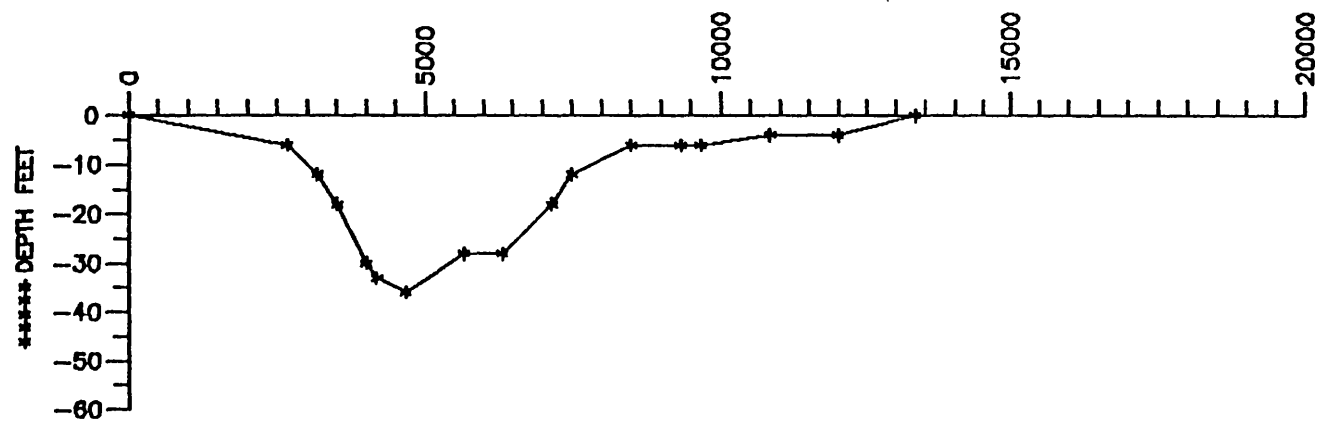
PROFILE Y-4



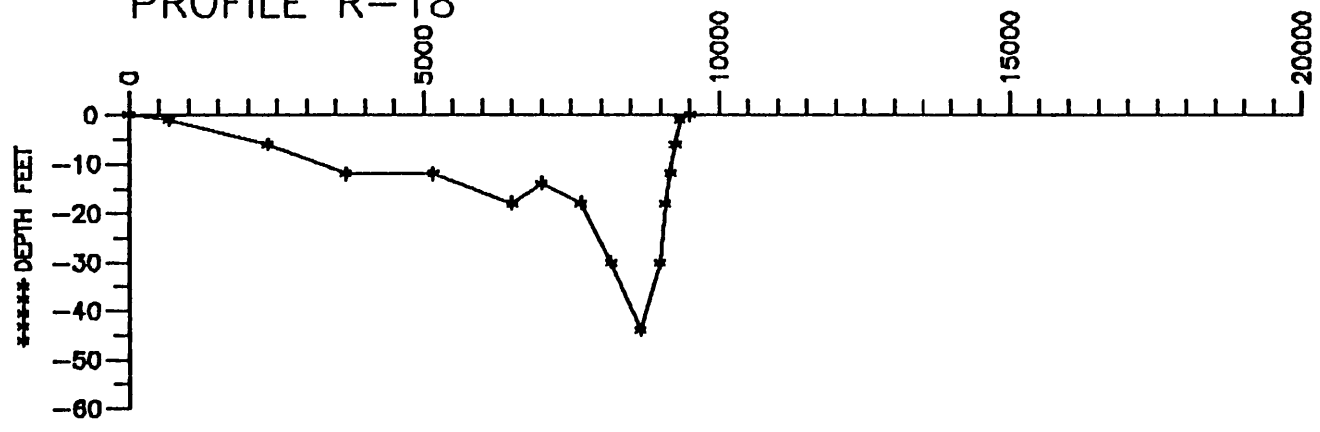
PROFILE Y-5



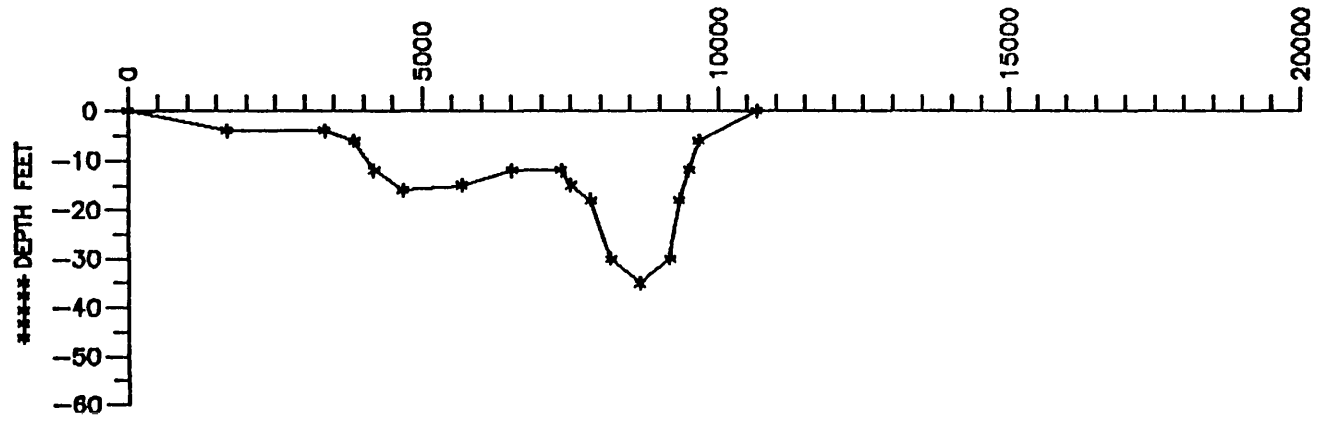
PROFILE R-19



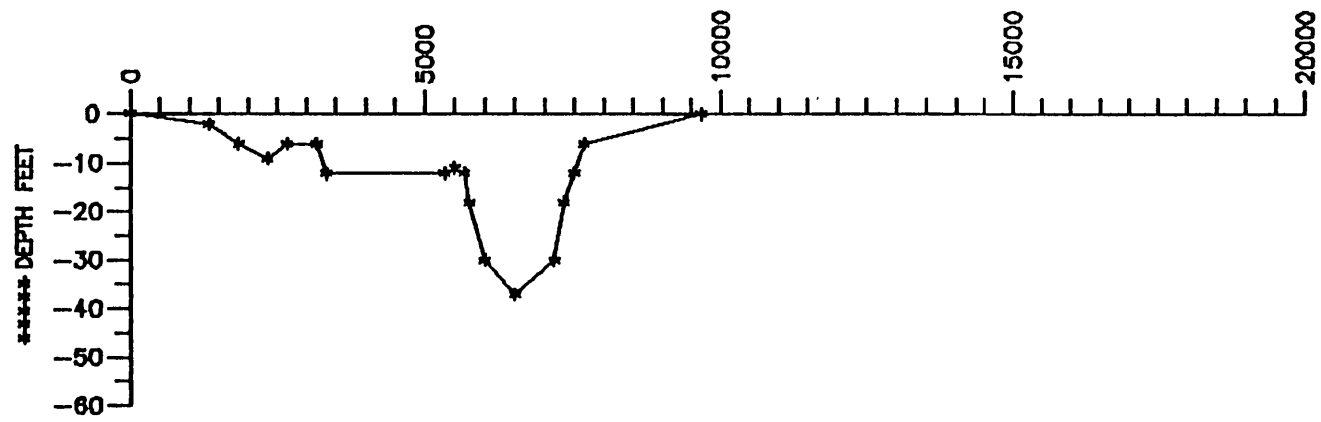
PROFILE R-18



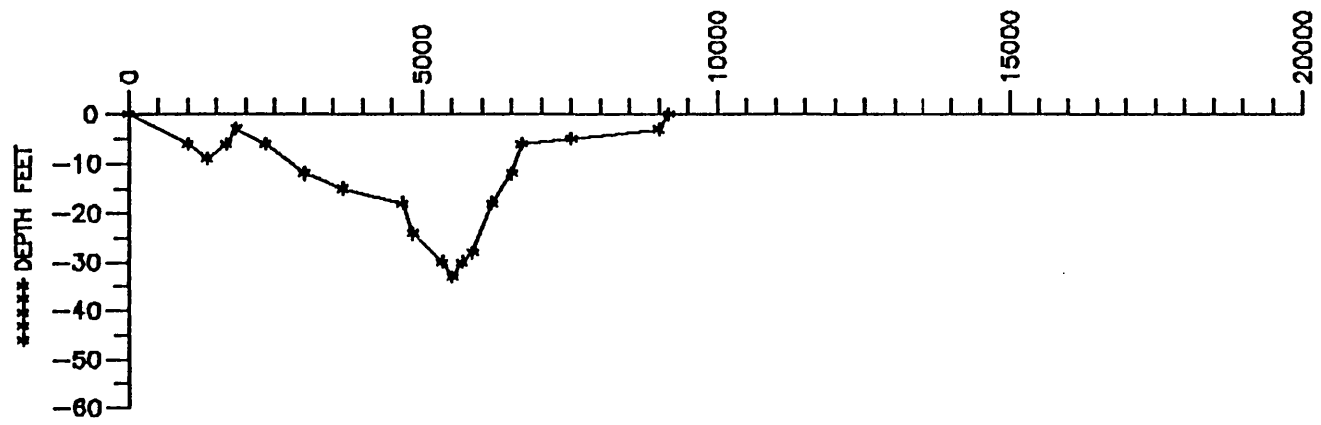
PROFILE Y-6, R-17



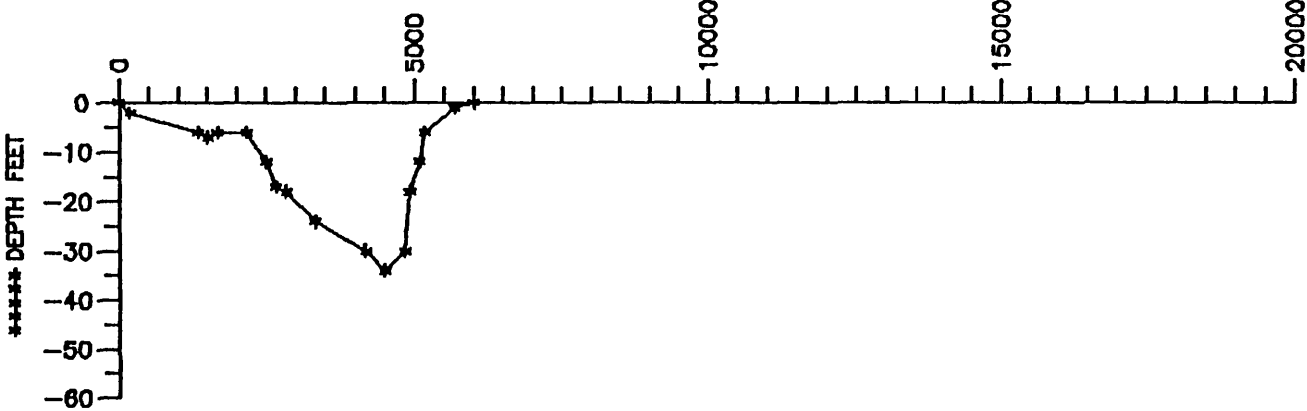
PROFILE R-15



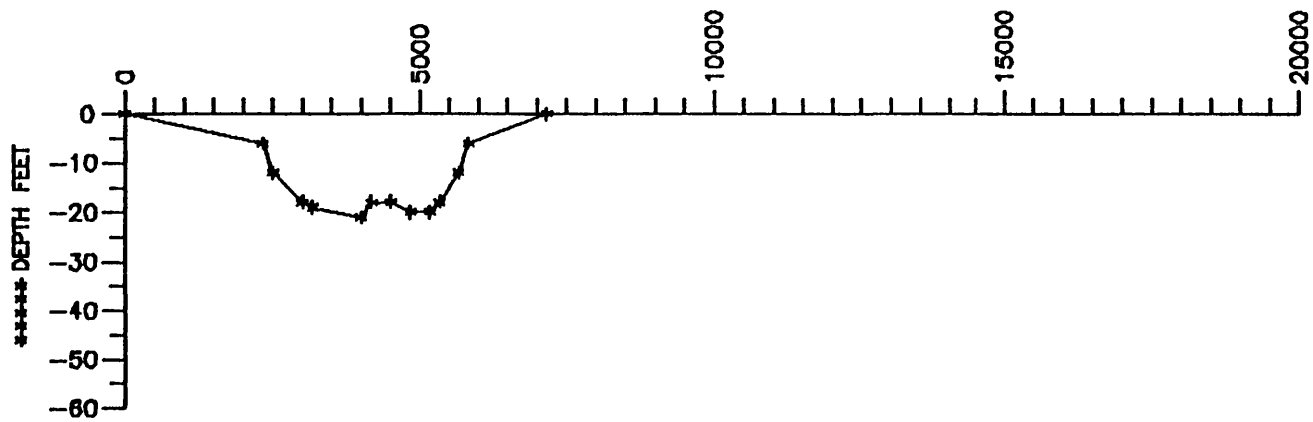
PROFILE R-14



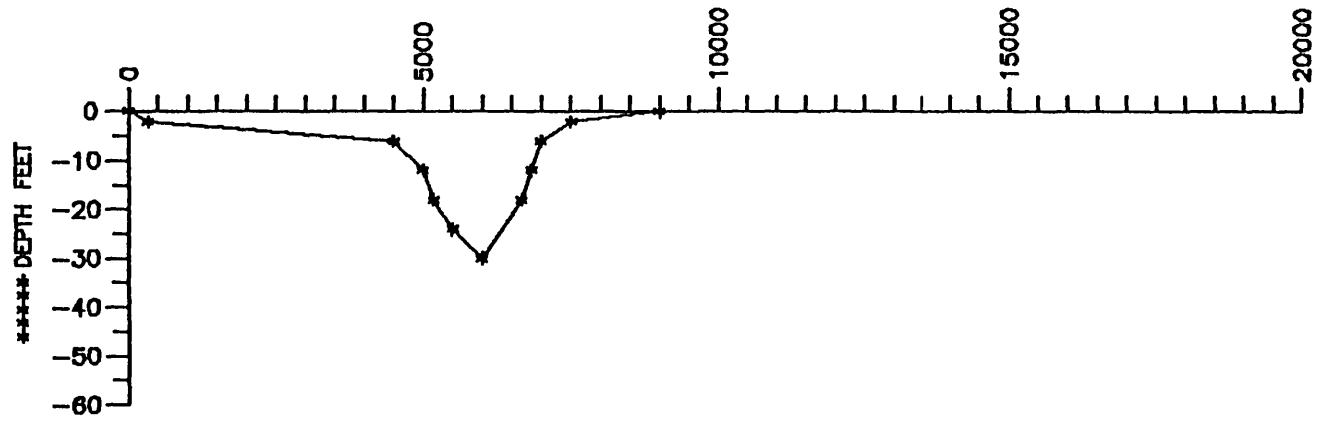
PROFILE R-13



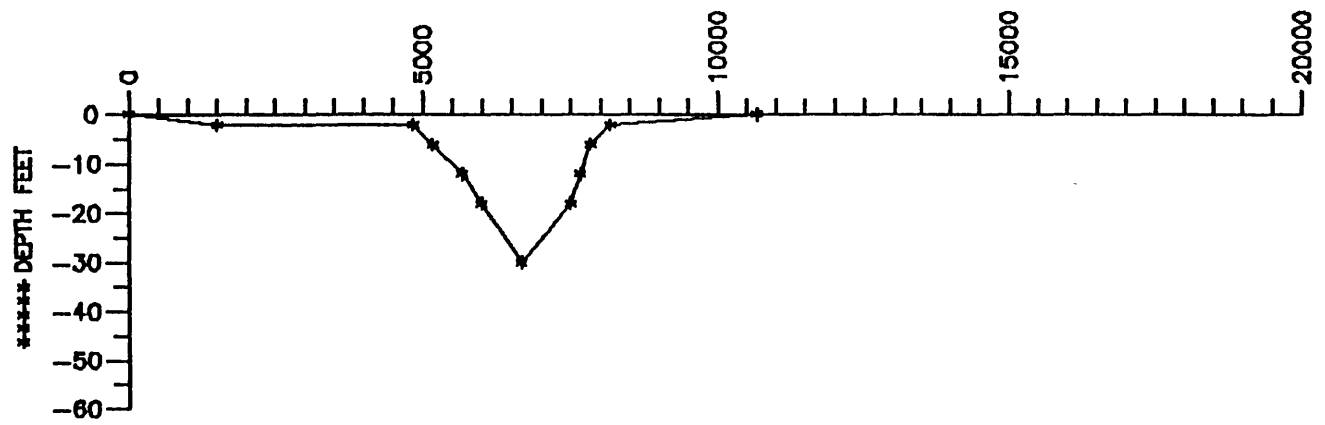
PROFILE Y-7, R-12



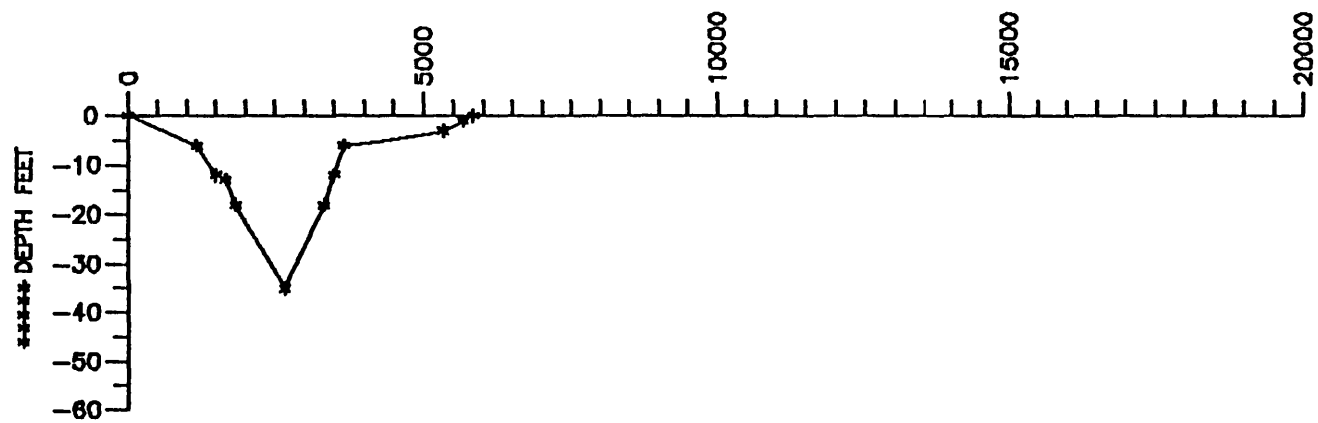
PROFILE R-11



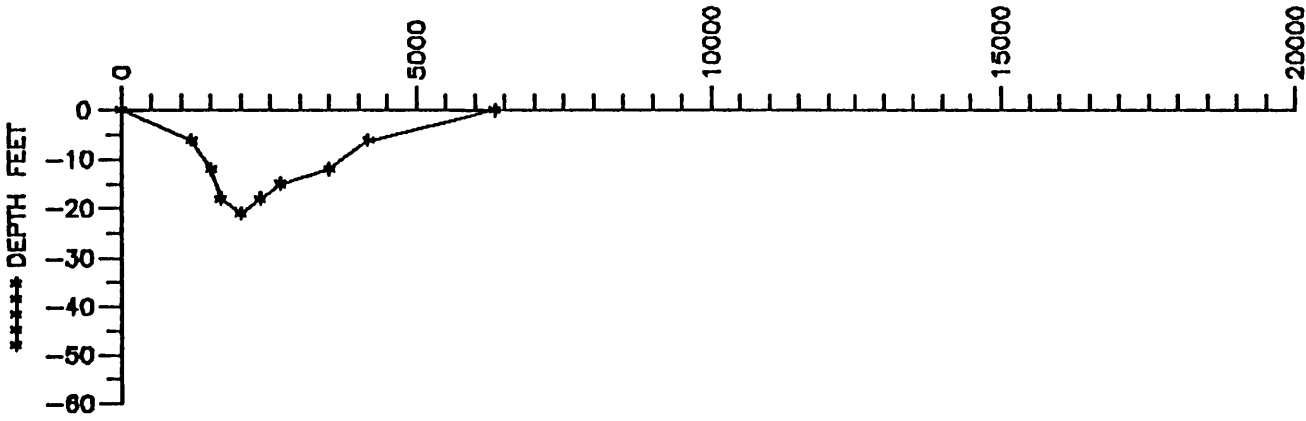
PROFILE R-10



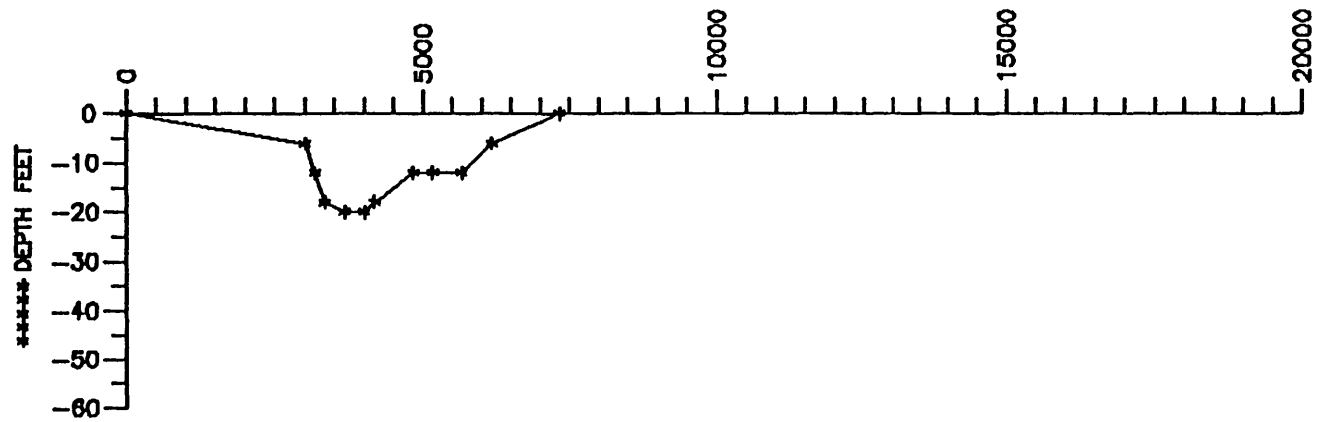
PROFILE R-9



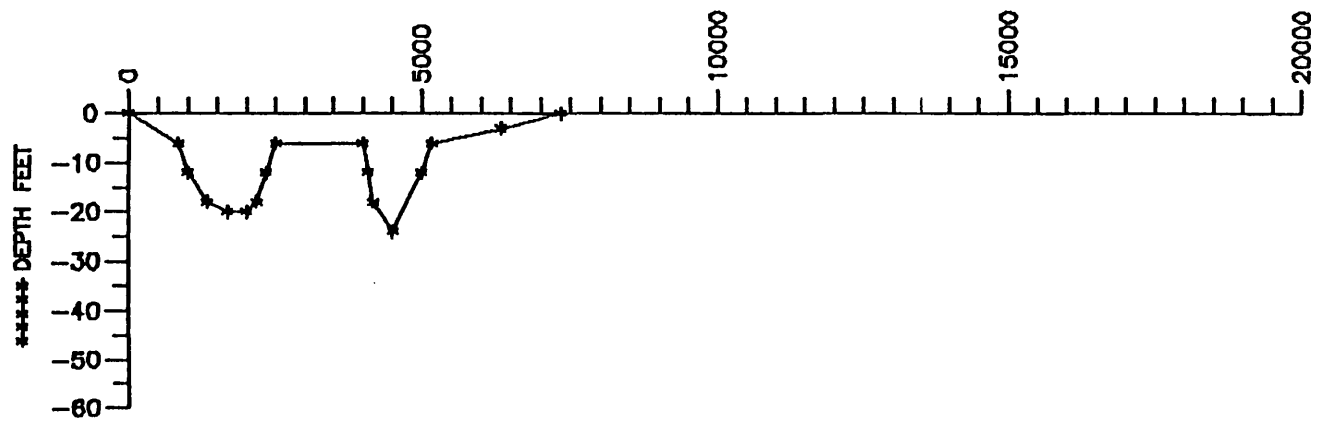
PROFILE Y-8, R-8



PROFILE R-7



PROFILE Y-9, R-6



Results of Chemical Analyses

RESULTS OF CHEMICAL ANALYSES

Total Phosphorus, Inorganic Phosphorus,
Carbon, and Nitrogen

SAMPLE	T P mg/gm	IP mg/gm	C mg/gm	N mg/gm
YES-1A	0.039	0.030	0.770	0.160
YES-1B	0.497	0.053	11.79	1.920
YES-1C	0.560	0.067	14.070	1.920
YES-1D	0.834	0.095	14.620	2.430
YES-1E	0.235	0.034	0.770	0.450
YES-1F	0.112	0.025	0.770	0.380
YES-1G	0.067	0.029	0.770	0.260
YES-2A	0.341	0.036	0.480	0.865
DUP		0.032		
YES-2B	0.616	0.072	16.850	2.320
YES-2C	0.548	0.073	11.460	1.800
YES-2D	0.779	0.087	16.900	3.040
YES-2E	0.035	0.045	3.410	0.670
YES-2F	0.063	0.013	0.770	0.150
YES-3A	0.181	0.024	0.890	0.330
YES-3B	0.550	0.067	3.160	0.840
DUP	0.585			
YES-3C	0.548	0.070	15.940	2.390
YES-3D	0.601	0.075	20.130	2.690
YES-3E	0.057	0.042	0.770	0.140
DUP		0.04		
YES-3F				
YES-4A				
YES-4B	0.373	0.042	6.090	1.170
YES-4C	0.130	0.018	1.080	0.400
Y-6-A	0.523	0.066	13.500	1.740
Y-6-B	0.567	0.073	17.000	2.150
Y-6-C	0.919	0.118	22.050	2.840
DUP	0.931			
Y-6-D	0.612	0.076	22.010	2.490
Y-6-E	0.131	0.200	0.350	0.052
YES-6A	0.618	0.074	22.720	2.510
YES-6B	0.733	0.097	16.030	2.360
DUP		0.095		
YES-6C				
YES-7A	0.804	0.111	23.380	2.650
YES-7B	0.246	0.034	5.150	0.440
YES-7C	0.518	0.079	15.440	1.750
YES-7D	0.315	0.052	9.990	1.070
DUP	0.220			

SAMPLE	T P mg/gm	IP mg/gm	C mg/gm	N mg/gm
YES-8A				
YES-8B	0.942	0.030	24.000	2.780
YES-8C	0.741	0.110	29.560	2.460
YES-8D	0.629	0.092	26.670	2.490
YES-9A	0.624	0.079	26.910	2.060
DUP		0.084		
YES-9B	0.544	0.036	33.090	3.250
YES-9C	0.311	0.050	1.610	0.610
YES-9D	0.703	0.092	28.870	2.810
YES-9E	0.920	0.094	30.980	2.900
YES-MUM	0.036	0.029	0.770	0.120
P1A	0.929	0.132	22.860	2.220
P1B	0.689	0.110	19.830	1.850
P1C	0.553	0.047	11.110	0.870
P2A	1.148	0.040	38.970	3.320
P2B				
P2C	0.792	0.129	11.600	1.240
P3A	0.864	0.137	22.810	1.980
DUP	0.879			
P3B	1.105	0.037	32.005	2.860
DUP		0.035		
P3C	1.217	0.039	28.450	2.490
M0A	0.404	0.341	21.220	1.430
M0B	0.105	0.079	2.530	0.270
M0C	0.334	0.266	18.180	1.170
M1A	1.130	1.054	54.520	3.760
DUP	1.14			
M1B	1.092	1.028	36.390	3.050
DUP		1.093		
M1C	0.918	0.799	36.540	2.770
M2A	0.573	0.364	11.980	1.220
M2B	0.522	0.538	9.175	0.700
M2C	0.361	0.327	18.810	1.310
DUP			19.490	1.290
M3A	0.484	0.065	55.630	3.390
M3B	1.331	0.043	42.800	3.570
M3C	0.814	0.117	20.950	2.080

Composite Grain-Size Statistics

- * Weight Percents Moisture, Gravel, Sand, Silt, Clay, Gravel and Sand Combined, and Mud (Silt and Clay Combined)
- * Graphic Measures (Folk, 1974) (phi units where appropriate)
- * Moment Measures (Friedman and Sanders, 1978) (phi units where appropriate)

GRAIN-SIZE DATA

SAMPLE	MOIST %	GRAVEL %	SAND %	SILT %	CLAY %	GRV + S %	MUD %
YES-1A	22.056	0.0	97.7	0.2	2.1	97.7	2.3
YES-1B	56.181	0.0	24.2	39.0	36.8	24.2	75.8
YES-1C	55.327	0.0	10.2	43.5	46.3	10.2	89.8
YES-1D	70.646	0.4	3.7	43.3	52.6	4.1	95.9
YES-1E	30.205	0.1	89.5	4.9	5.5	89.6	10.4
YES-1F	27.711	0.0	83.1	10.0	6.9	83.1	16.9
YES-1G	22.773	0.2	95.6	1.9	2.3	95.8	4.2
YES-2A	36.753	1.2	82.4	8.2	8.2	83.6	16.4
YES-2B	60.165	0.2	10.4	43.4	46.0	10.6	89.4
YES-2C	52.729	0.3	4.2	41.3	54.2	4.5	95.5
YES-2D	64.019	0.0	1.2	41.6	57.2	1.2	98.8
YES-2E	30.610	1.3	78.5	8.3	11.9	79.8	20.2
YES-2F	22.299	0.0	98.2	0.4	1.4	98.2	1.8
YES-3A	25.419	0.7	89.5	3.8	6.0	90.2	9.8
YES-3B	59.966	0.2	14.1	34.7	51.0	14.3	85.7
YES-3C	55.394	0.1	7.7	34.4	57.8	7.8	92.2
YES-3D	61.442	0.3	6.4	38.8	54.5	6.7	93.3
YES-3E	20.990	54.7	31.8	4.8	8.7	86.5	13.5
YES-3F		0.0	97.4	0.4	2.2	97.4	2.6
YES-4A	36.917	25.2	43.8	12.4	18.6	69	31
YES-4B	46.548	4.2	61.5	11.3	23.0	65.7	34.3
YES-4C	27.843	0.2	87.6	5.8	6.4	87.8	12.2
Y-6-A	51.640	0.5	33.6	24.0	41.9	34.1	65.9
Y-6-B	58.659	0.0	3.9	39.9	56.2	3.9	96.1
Y-6-C	68.338	0.0	1.2	36.0	62.8	1.2	98.8
Y-6-D	59.925	0.0	4.5	35.0	60.5	4.5	95.5
Y-6-E	32.594	0.1	83.1	6.5	10.3	83.2	16.8
YES-6A	55.299	0.1	7.7	34.5	57.7	7.8	92.2
YES-6B	65.218	0.1	9.4	34.2	56.3	9.5	90.5
YES-6C	30.238	84.5	6.5	3.5	5.5	91	9
YES-7A	62.836	0.1	2.4	34.4	63.1	2.5	97.5
YES-7B	25.223	2.8	87.1	3.2	6.9	89.9	10.1
YES-7C	55.402	5.1	46.2	15.7	33.0	51.3	48.7
YES-7D	47.358	0.8	77.7	9.1	12.4	78.5	21.5
YES-8Ag	49.739	11.7	14.3	20.2	53.8	26	74
YES-8B	68.784	0.0	1.7	29.5	68.8	1.7	98.3
YES-8C	59.549	0.3	11.9	35.7	52.1	12.2	87.8
YES-8D	62.582	0.3	15.7	32.2	51.8	16	84

SAMPLE	MOIST %	GRAVEL %	SAND %	SILT %	CLAY %	GRV + S %	MUD %
YES-9A	60.098	0.1	24.5	27.9	47.5	24.6	75.4
YES-9B	68.272	0.0	1.8	26.4	71.8	1.8	98.2
YES-9C	30.266	0.0	79.7	6.4	13.9	79.7	20.3
YES-9D	62.144	0.2	8.7	29.2	61.9	8.9	91.1
YES-9E	59.261	0.0	15.7	32.2	52.1	15.7	84.3
YES-MUM	21.315	0.0	96.6	0.1	3.3	96.6	3.4
P1A	63.350	0.0	16.3	32.1	51.6	16.3	83.7
P1B	65.060	0.0	44.0	21.5	34.5	44	56
P1C	34.661	0.9	62.4	12.8	23.9	63.3	36.7
P2A	71.600	0.0	14.2	25.8	60.0	14.2	85.8
P2B						0	0
P2C	47.502	0.0	55.6	16.4	28.0	55.6	44.4
P3A	57.710	0.0	10.8	26.9	62.3	10.8	89.2
P3B	68.511	0.1	4.8	24.5	70.6	4.9	95.1
P3C	61.600	0.0	23.8	29.4	46.8	23.8	76.2
MOA	48.609	2.9	58.8	23.8	14.5	61.7	38.3
MOB	20.448	1.7	92.4	0.8	5.1	94.1	5.9
MOC	41.521	11.0	56.4	16.5	16.1	67.4	32.6
M1A	71.192	0.0	16.1	24.7	59.2	16.1	83.9
M1B	72.303	0.0	4.1	29.0	66.9	4.1	95.9
M1C	68.162	1.4	32.5	24.7	41.4	33.9	66.1
M2A	31.843	74.5	17.3	3.4	4.8	91.8	8.2
M2B	40.373	2.5	87.0	2.5	8.0	89.5	10.5
M2C	49.608	0.1	65.5	14.7	19.7	65.6	34.4
M3A	67.306	0.6	34.3	28.3	36.8	34.9	65.1
M3B	66.513	0.5	6.4	23.4	69.7	6.9	93.1
M3C	67.463	0.0	1.3	26.6	72.1	1.3	98.7

COMBINED STATISTICS
SAMPLE GRAPHIC MEASURES

	Median	Mean	Std Dev	In Skew	In Kurt
YES-1A	2.167	2.146	0.348	-0.176	0.342
YES-1B	7.366	7.278	3.454	0.045	0.531
YES-1C	8.054	8.428	3.038	0.106	0.520
YES-1D	8.850	9.105	2.547	0.149	0.390
YES-1E	1.198	2.064	1.624	0.513	2.075
YES-1F	2.945	3.419	2.245	0.480	1.322
YES-1G	2.225	1.950	0.073	-0.466	0.548
YES-2A	2.978	3.363	2.088	0.676	1.602
YES-2B	8.313	8.534	3.003	0.048	0.521
YES-2C	8.863	9.105	2.608	0.131	0.394
YES-2D	8.888	9.220	2.510	0.174	0.387
YES-2E	1.819	3.408	3.197	0.754	2.034
YES-2F	1.880	1.856	0.410	-0.119	0.419
YES-3A	2.647	2.727	1.219	0.613	1.542
YES-3B	8.342	8.400	3.266	-0.008	0.511
YES-3C	8.840	9.053	2.999	-0.002	0.505
YES-3D	8.755	8.983	2.925	0.024	0.494
YES-3E	2.129	2.109	0.411	-0.133	0.392
YES-3F	1.836	3.970	3.749	0.786	0.811
YES-4A	3.184	5.145	3.601	0.707	0.642
YES-4B	2.336	4.540	3.718	0.808	0.646
YES-4C	1.934	2.210	1.584	0.707	1.997
Y-6-A	7.279	7.092	3.886	-0.004	0.512
Y-6-B	8.967	9.105	2.672	0.086	0.393
Y-6-C	9.209	9.392	2.561	0.085	0.386
Y-6-D	90.760	9.239	2.675	0.079	0.389
Y-6-E	2.442	3.206	2.271	0.725	1.942
YES-6A	8.795	8.923	3.080	-0.021	0.496
YES-6B	8.847	8.985	3.018	-0.022	0.506
YES-6C	6.347	6.583	3.979	0.084	0.600
YES-7A	9.183	9.458	2.485	0.134	0.374
YES-7B	2.055	1.974	1.638	0.254	2.078
YES-7C	5.552	6.180	4.054	0.211	0.592
YES-7D	1.951	3.623	3.008	0.849	2.285
YES-8A	8.841	8.208	4.031	-0.250	0.599
YES-8B	9.350	9.516	2.569	0.071	0.373
YES-8C	8.982	9.195	2.633	0.100	0.398
YES-8D	8.985	9.279	2.573	0.157	0.374

SAMPLE Moment Measures

	1	2	3	4
YES-1A	2.104	0.053	-2.507	16.164
YES-1B	7.390	3.254	0.111	2.123
YES-1C	8.255	2.197	-0.006	2.385
YES-1D	9.079	2.395	0.278	2.038
YES-1E	2.611	2.433	2.715	9.996
YES-1F	3.615	2.634	1.887	6.149
YES-1G	1.972	0.860	-0.740	3.970
YES-2A	3.588	2.668	2.072	6.586
YES-2B	8.361	2.881	-0.081	2.437
YES-2C	9.079	2.454	0.221	2.010
YES-2D	9.207	2.358	0.256	2.058
YES-2E	3.187	3.345	1.681	4.578
YES-2F	1.839	0.477	-0.944	7.701
YES-3A	3.276	2.190	2.967	11.630
YES-3B	8.279	3.125	-0.139	2.191
YES-3C	8.872	2.836	-0.288	2.647
YES-3D	8.816	2.764	-0.196	2.635
YES-3E	2.085	0.557	-1.270	9.807
YES-3F	3.844	3.854	1.182	2.965
YES-4A	5.363	3.730	0.704	2.165
YES-4B	4.637	3.914	0.925	2.377
YES-4C	2.809	2.509	2.630	9.196
Y-6-A	7.033	3.771	0.068	1.737
Y-6-B	90.970	2.502	0.167	1.954
Y-6-C	9.388	2.391	0.090	2.031
Y-6-D	9.218	2.527	0.091	1.946
Y-6-E	3.427	2.842	2.111	6.456
YES-6A	8.759	2.927	-0.252	2.466
YES-6B	8.810	2.871	-0.289	2.541
YES-6C	6.353	3.938	0.198	1.784
YES-7A	9.443	2.342	0.148	2.006
YES-7B	2.646	2.525	2.745	10.032
YES-7C	5.957	4.143	0.302	1.677
YES-7D	3.403	3.277	1.701	4.598
YES-8A	8.312	3.744	-0.676	2.608
YES-8B	9.508	2.425	0.042	1.932
YES-8C	9.135	2.496	0.132	2.024
YES-8D	9.251	2.410	0.231	1.925
YES-9A	9.972	2.435	0.189	1.909
YES-9B	9.618	2.397	0.017	1.904
YES-9C	4.000	3.069	1.670	4.823
YES-9D	9.441	2.418	0.112	1.895
YES-9E	9.246	2.431	0.194	1.939

SAMPLE Moment Measures				
	1	2	3	4
YES-MUM	2.053	0.520	-1.366	11.011
P1A	9.294	2.399	0.160	2.026
P1B	6.484	3.791	0.281	1.705
P1C	4.325	4.373	0.721	1.974
P2A	9.592	2.406	-0.087	2.104
P2B				
P2C	5.950	3.576	0.657	2.027
P3A	9.490	2.435	0.054	1.908
P3B	9.564	2.467	0.011	1.845
P3C	7.398	3.477	0.222	1.819
M0A	4.679	3.180	1.094	3.482
M0B	2.258	2.180	3.250	14.704
M0C	5.208	3.200	1.101	2.978
M1A	9.464	2.465	0.062	1.886
M1B	9.407	2.512	0.044	1.848
M1C	7.034	3.779	0.010	1.891
M2A	3.641	4.107	0.957	2.612
M2B	2.764	2.562	2.809	10.039
M2C	5.098	3.317	1.102	2.934
M3A	6.508	3.933	0.096	1.845
M3B	9.684	2.379	-0.013	1.939
M3C	9.542	2.456	0.029	1.856

**Grain-Size Statistics (Graphic)
for the Sand Fraction of the Samples**

SAMPLE	Mz phi sand	Md phi sand	SI sand	SKI sand	KG sand
YES-1A	2.1455	2.1668	0.3475	-0.1761	0.3461
YES-1B	3.2374	3.2626	0.4644	-0.2715	0.3640
YES-1C	3.2020	3.2134	0.5140	-0.1741	0.3795
YES-1D					
YES-1E	1.8362	1.8665	0.5707	-0.0427	0.6046
YES-1F	2.5924	2.8011	0.8006	-0.3416	
YES-1G	1.9497	2.2251	0.7731	-0.4659	0.5483
YES-2A	2.5375	2.5843	0.5822	-0.1744	0.4714
YES-2B	3.2909	3.3199	0.5229	-0.2532	0.3825
YES-2C					
YES-2D					
YES-2E	1.5980	1.6641	0.6755	-0.1023	0.6754
YES-2F	1.8560	1.8797	0.4097	-0.1192	0.4168
YES-3A	2.6335	2.6161	0.2782	0.1570	0.2494
YES-3B	3.1915	3.1656	0.4896	-0.0841	0.3455
YES-3C	3.0844	3.0860	0.5524	-0.1302	0.3958
YES-3D	3.1138	3.2065	0.6985	-0.3693	0.4687
YES-3E	2.1085	2.1290	0.4112	-0.1329	0.3919
YES-3F	1.4857	1.5674	0.6914	-0.0917	0.7423
YES-4A	2.5123	2.7958	0.8176	-0.4874	0.5538
YES-4B	1.9593	1.9480	0.5658	0.0089	0.5383
YES-4C	1.9177	1.8654	0.4421	0.2895	0.4761
Y-6-A	2.6047	2.6096	0.5387	-0.079	0.3803
Y-6-B					
Y-6-C					
Y-6-D					
Y-6-E	2.2789	2.3547	0.4639	-0.2386	0.3647
YES-6A	3.0209	3.0009	0.6368	-0.0485	0.4020
YES-6B	3.2634	3.2346	0.4490	-0.0798	0.3279
YES-6C	2.3578	2.8372	1.0816	-0.5476	0.4979
YES-7A					
YES-7B	1.8667	1.9807	0.5813	-0.3398	0.4956
YES-7C	2.0937	2.4094	0.9145	-0.4861	0.6770
YES-7D	1.8248	1.8246	0.3950	-0.0270	0.3896
YES-8Ag	1.3676	1.3179	0.9056	0.1899	0.8156
YES-8B					
YES-8C					
YES-8D					

SAMPLE	Mz phi sand	Md phi sand	SI sand	SKI sand	KG sand
YES-9A					
YES-9B					
YES-9C	2.5803	2.8832	0.7803	-0.5234	0.4458
YES-9D					
YES-9E					
YES-MUM	2.0673	2.0784	0.4170	-0.0540	0.3725
P1A					
P1B	2.7373	2.8167	0.5846	-0.1615	0.3571
P1C	1.1981	1.0373	0.9812	0.2501	0.8551
P2A					
P2B					
P2C	3.1430	3.1150	0.3861	-0.0126	0.2763
P3A					
P3B					
P3C	3.2423	3.2353	0.4405	-0.1523	0.3499
MOA	2.6300	2.9873	0.9834	-0.5269	0.5464
MOB	1.7861	1.7679	0.8177	-0.0367	0.5687
MOC	3.1254	3.1094	0.3362	-0.0123	0.2464
M1A					
M1B					
M1C	2.6156	2.9855	1.0330	-0.5293	0.5358
M2A	1.1082	0.9638	1.3031	0.1879	0.9402
M2B	1.9444	1.9600	0.2387	-0.1364	0.2795
M2C	3.0113	3.0320	0.4126	-0.1839	0.3141
M3A	2.0053	1.9254	1.0231	0.0637	0.5627
M3B					
M3C					

Grain-Size Data on Individual Samples

- * RSA Output, Data Table and Plot, 2 pages
- * Coulter Counter Data
- * Plot and Tabulation of Combined RSA and Coulter Counter Data

(RSA and Coulter Counter Data are not included if the sand or mud fractions were too low)

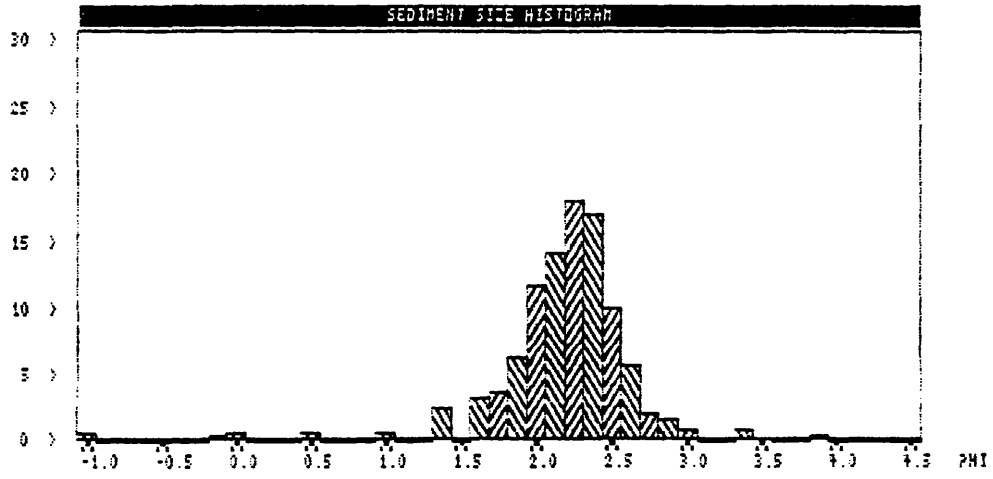
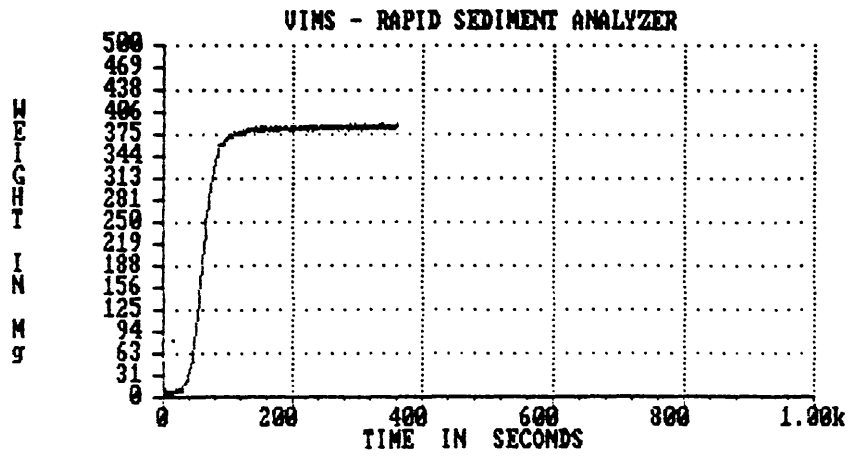
YES_1_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
618.9789 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.1043 0.5035 -2.5067 16.1640 M1 M2 M3 M4 (phi)
2.1455 2.1668 0.3475 -0.1761 0.3416 Mz,Md,SI,SKI,KG

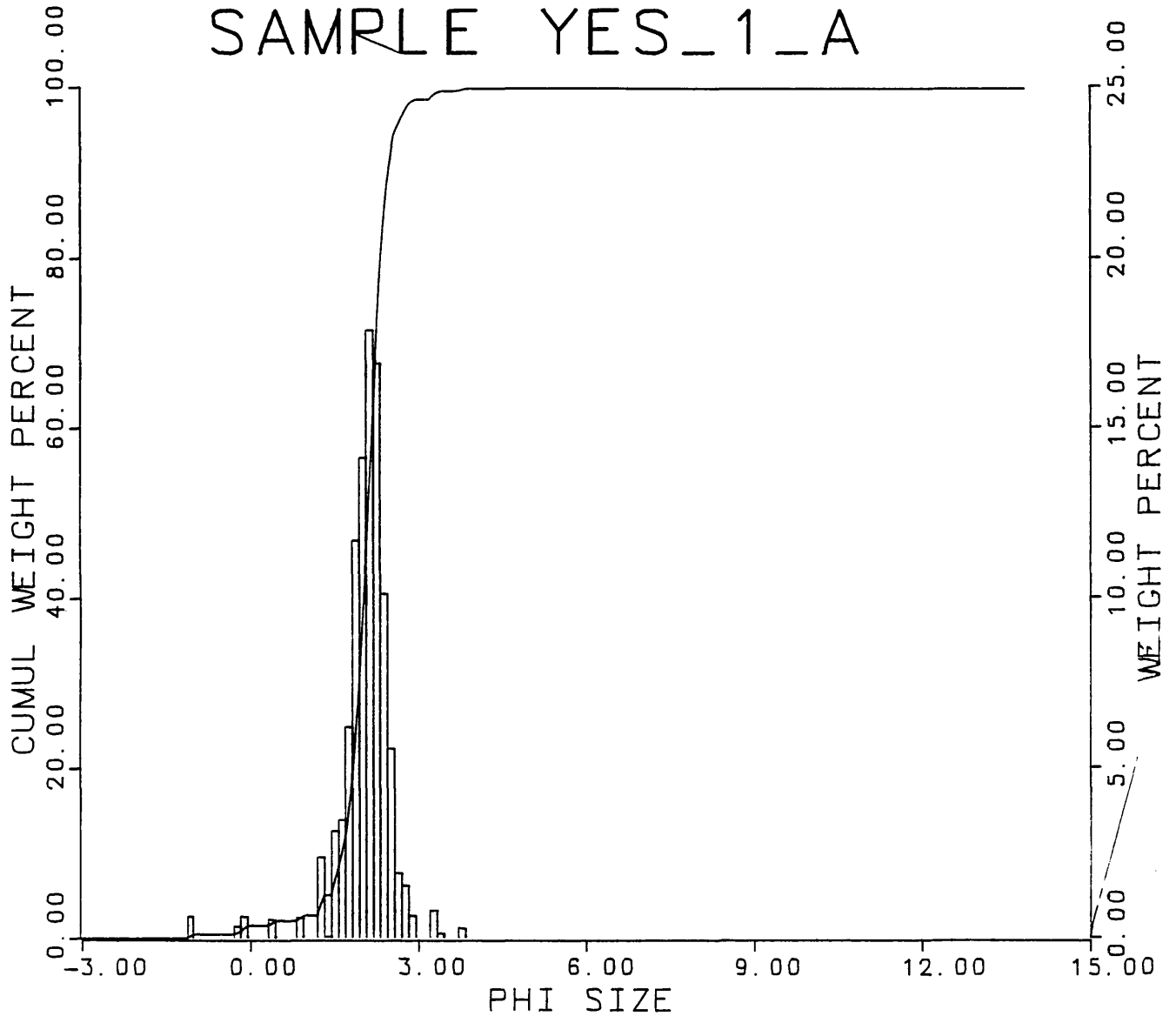
Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.5638	0.6606	2.5638	0.6606
-0.8750	1.8340	18.9156	0.0000	0.0000	2.5638	0.6606
-0.7500	1.6818	17.7631	0.0000	0.0000	2.5638	0.6606
-0.6250	1.5422	16.6582	0.0000	0.0000	2.5638	0.6606
-0.5000	1.4142	15.6003	0.0000	0.0000	2.5638	0.6606
-0.3750	1.2968	14.5884	0.0000	0.0000	2.5638	0.6606
-0.2500	1.1892	13.6217	0.0000	0.0000	2.5638	0.6606
-0.1250	1.0905	12.6995	1.4257	0.3673	3.9895	1.0279
0.0000	1.0000	11.8208	2.5143	0.6478	6.5037	1.6758
0.1250	0.9170	10.9848	0.0000	0.0000	6.5037	1.6758
0.2500	0.8409	10.1905	0.0000	0.0000	6.5037	1.6758
0.3750	0.7711	9.4370	0.0000	0.0000	6.5037	1.6758
0.5000	0.7071	8.7233	2.1657	0.5580	8.6694	2.2338
0.6250	0.6484	8.0484	0.0000	0.0000	8.6694	2.2338
0.7500	0.5946	7.4111	0.0000	0.0000	8.6694	2.2338
0.8750	0.5453	6.8104	0.0000	0.0000	8.6694	2.2338
1.0000	0.5000	6.2452	2.3899	0.6158	11.0593	2.8496
1.1250	0.4585	5.7143	0.0000	0.0000	11.0593	2.8496
1.2500	0.4204	5.2167	0.0000	0.0000	11.0593	2.8496
1.3750	0.3856	4.7510	9.3030	2.3970	20.3623	5.2466
1.5000	0.3536	4.3163	0.2221	0.0572	20.5845	5.3039
1.6250	0.3242	3.9113	12.2755	3.1630	32.8600	8.4668
1.7500	0.2973	3.5349	13.5672	3.4958	46.4272	11.9626
1.8750	0.2726	3.1860	24.2141	6.2391	70.6413	18.2017
2.0000	0.2500	2.8634	45.3452	11.6838	115.9865	29.8855
2.1250	0.2293	2.5660	54.8101	14.1226	170.7966	44.0081
2.2500	0.2102	2.2927	69.5018	17.9081	240.2984	61.9161
2.3750	0.1928	2.0423	65.6601	16.9182	305.9585	78.8344
2.5000	0.1768	1.8137	39.3343	10.1350	345.2928	88.9694
2.6250	0.1621	1.6058	21.7444	5.6027	367.0372	94.5721
2.7500	0.1487	1.4175	7.4438	1.9180	374.4810	96.4901
2.8750	0.1363	1.2476	6.0595	1.5613	380.5405	98.0514
3.0000	0.1250	1.0949	2.6090	0.6722	383.1495	98.7237
3.1250	0.1146	0.9582	0.0000	0.0000	383.1495	98.7237
3.2500	0.1051	0.8364	0.0000	0.0000	383.1495	98.7237
3.3750	0.0964	0.7282	3.1953	0.8233	386.3448	99.5470
3.5000	0.0884	0.6326	0.5578	0.1437	386.9026	99.6907
3.6250	0.0811	0.5484	0.0000	0.0000	386.9026	99.6907
3.7500	0.0743	0.4744	0.0000	0.0000	386.9026	99.6907
3.8750	0.0682	0.4098	1.2003	0.3093	388.1029	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	388.1029	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	388.1029	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	388.1029	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	388.1029	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	388.1029	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_1_A



SAMPLE YES_1_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 97.7
 V-COARSE SAND - 1.0
 COARSE SAND - 1.2
 MEDIUM SAND - 26.6
 FINE SAND - 67.7
 V-FINE SAND - 1.3
 SILT _____ 0.2
 CLAY _____ 2.1

Graphic Measures

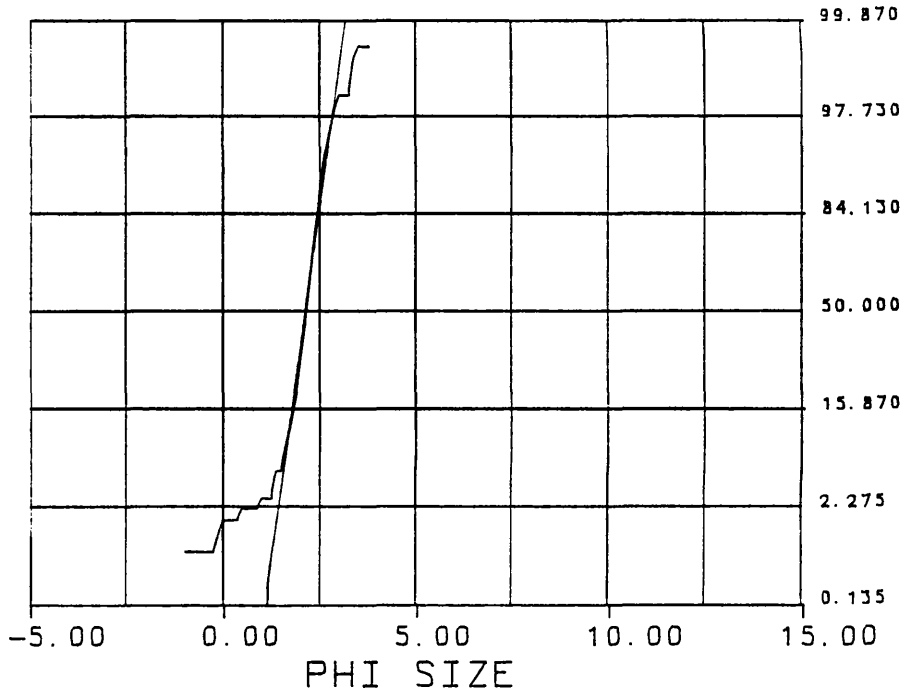
MEDIAN _____ 2.167
 MEAN _____ 2.146
 STD. DEVIATION- 0.348
 INC. SKEWNESS - -0.176
 INC. KURTOSIS - 0.342

Moment Measures

1st MOMENT _____ 2.104
 2nd MOMENT _____ 0.503
 3rd MOMENT _____ -2.507
 4th MOMENT _____ 16.164

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

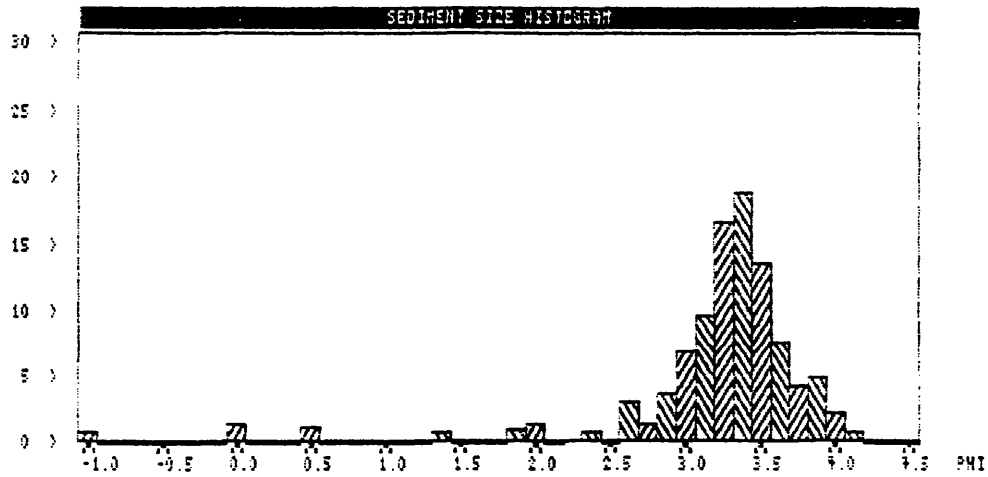
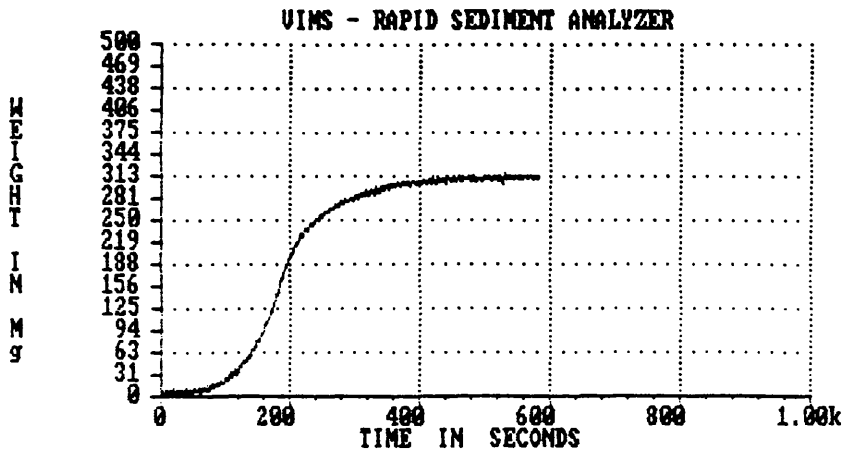
YES_1_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
495.5748 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
3.1152 0.7430 -3.2715 15.8297 M1 M2 M3 M4 (phi)
3.2374 3.2626 0.4637 -0.2715 0.3640 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.7477	0.8593	2.7477	0.8593
-0.8750	1.8340	18.9156	0.0000	0.0000	2.7477	0.8593
-0.7500	1.6818	17.7631	0.0000	0.0000	2.7477	0.8593
-0.6250	1.5422	16.6582	0.0000	0.0000	2.7477	0.8593
-0.5000	1.4142	15.6003	0.0000	0.0000	2.7477	0.8593
-0.3750	1.2968	14.5884	0.0000	0.0000	2.7477	0.8593
-0.2500	1.1892	13.6217	0.0000	0.0000	2.7477	0.8593
-0.1250	1.0905	12.6995	0.0000	0.0000	2.7477	0.8593
0.0000	1.0000	11.8208	4.5401	1.4198	7.2879	2.2790
0.1250	0.9170	10.9848	0.0000	0.0000	7.2879	2.2790
0.2500	0.8409	10.1905	0.0000	0.0000	7.2879	2.2790
0.3750	0.7711	9.4370	0.0000	0.0000	7.2879	2.2790
0.5000	0.7071	8.7233	3.6606	1.1447	10.9485	3.4237
0.6250	0.6484	8.0484	0.0000	0.0000	10.9485	3.4237
0.7500	0.5946	7.4111	0.0000	0.0000	10.9485	3.4237
0.8750	0.5453	6.8104	0.0000	0.0000	10.9485	3.4237
1.0000	0.5000	6.2452	0.0000	0.0000	10.9485	3.4237
1.1250	0.4585	5.7143	0.0000	0.0000	10.9485	3.4237
1.2500	0.4204	5.2167	0.0000	0.0000	10.9485	3.4237
1.3750	0.3856	4.7510	2.2104	0.6912	13.1589	4.1149
1.5000	0.3536	4.3163	0.0000	0.0000	13.1589	4.1149
1.6250	0.3242	3.9113	0.0000	0.0000	13.1589	4.1149
1.7500	0.2973	3.5349	0.0000	0.0000	13.1589	4.1149
1.8750	0.2726	3.1860	3.1305	0.9790	16.2894	5.0939
2.0000	0.2500	2.8634	4.1881	1.3097	20.4775	6.4036
2.1250	0.2293	2.5660	0.0000	0.0000	20.4775	6.4036
2.2500	0.2102	2.2927	0.4636	0.1450	20.9411	6.5486
2.3750	0.1928	2.0423	2.2972	0.7184	23.2383	7.2669
2.5000	0.1768	1.8137	0.0000	0.0000	23.2383	7.2669
2.6250	0.1621	1.6058	9.4175	2.9450	32.6558	10.2119
2.7500	0.1487	1.4175	4.5954	1.4370	37.2511	11.6489
2.8750	0.1363	1.2476	11.2165	3.5076	48.4677	15.1565
3.0000	0.1250	1.0949	21.7063	6.7878	70.1740	21.9443
3.1250	0.1146	0.9582	30.6108	9.5724	100.7848	31.5167
3.2500	0.1051	0.8364	53.0464	16.5883	153.8312	48.1050
3.3750	0.0964	0.7282	60.1630	18.8137	213.9942	66.9188
3.5000	0.0884	0.6326	43.0128	13.4507	257.0069	80.3694
3.6250	0.0811	0.5484	24.5734	7.6844	281.5803	88.0539
3.7500	0.0743	0.4744	13.6668	4.2738	295.2472	92.3277
3.8750	0.0682	0.4098	15.1385	4.7340	310.3857	97.0617
4.0000	0.0625	0.3533	6.7101	2.0983	317.0958	99.1600
4.1250	0.0573	0.3043	2.6862	0.8400	319.7820	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	319.7820	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	319.7820	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	319.7820	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_1_B



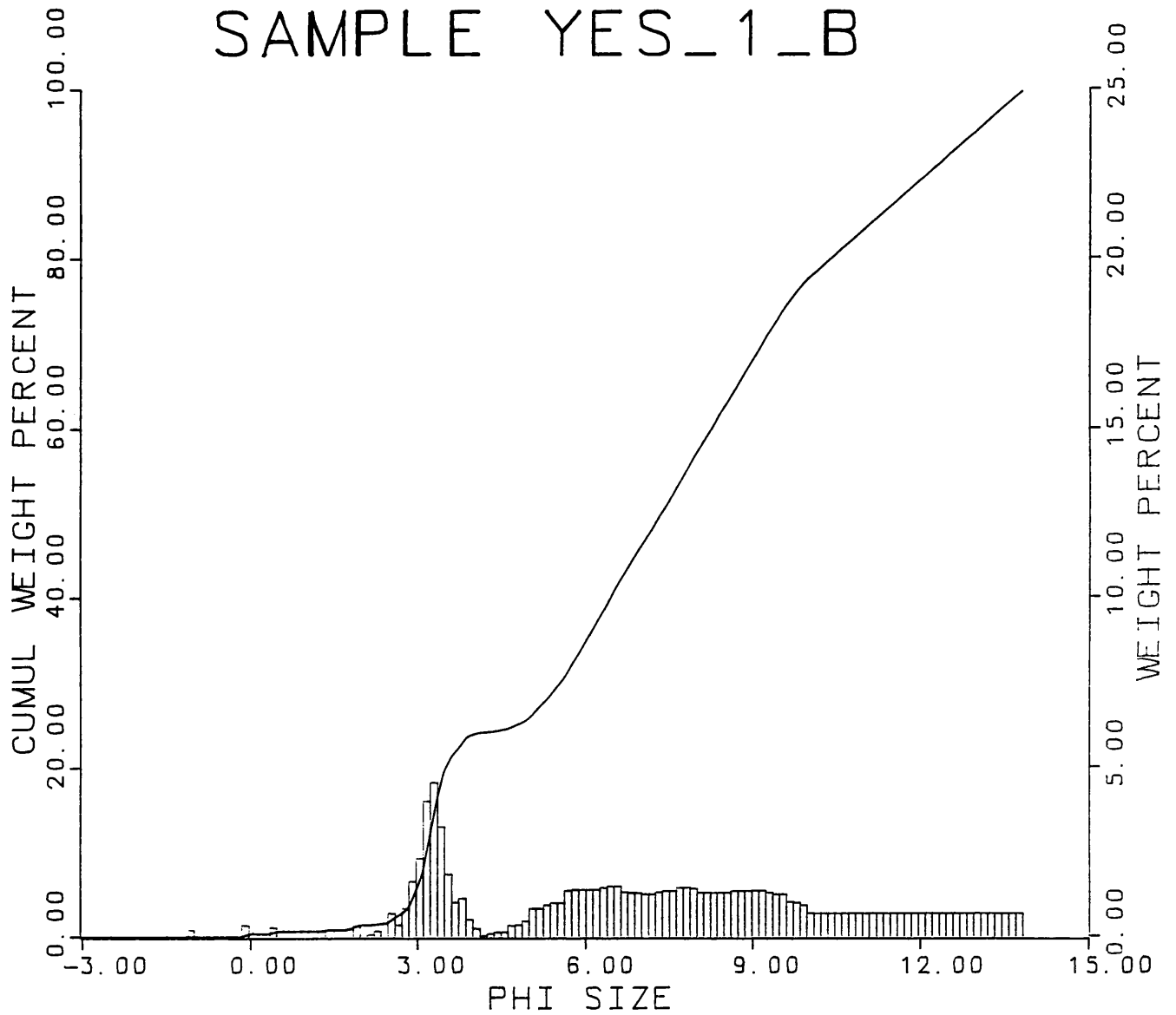
Coulter data

This data corresponds to file YES_1_B.3rd

8.8026	2.4871	0.3638	2.1049	M1	M2	M3	M4 (phi)
8.8305	8.4936	2.6402	0.1904	0.4147	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.1558%	is larger than	4.3033	phi.
0.6749%	is larger than	4.6367	phi.
1.9210%	is larger than	4.9700	phi.
4.9322%	is larger than	5.3033	phi.
8.5146%	is larger than	5.6367	phi.
13.4468%	is larger than	5.9700	phi.
19.3790%	is larger than	6.3033	phi.
23.6747%	is larger than	6.6367	phi.
28.2903%	is larger than	6.9700	phi.
32.7645%	is larger than	7.3033	phi.
37.5685%	is larger than	7.6367	phi.
42.7492%	is larger than	7.9700	phi.
47.3648%	is larger than	8.3033	phi.
51.9804%	is larger than	8.6367	phi.
56.7843%	is larger than	8.9700	phi.
61.6354%	is larger than	9.3033	phi.
66.1097%	is larger than	9.6367	phi.
69.7362%	is larger than	9.9700	phi.
72.2582%	is larger than	10.3033	phi.
74.7802%	is larger than	10.6367	phi.
77.3022%	is larger than	10.9700	phi.
79.8241%	is larger than	11.3033	phi.
82.3461%	is larger than	11.6367	phi.
84.8681%	is larger than	11.9700	phi.
87.3901%	is larger than	12.3033	phi.
89.9121%	is larger than	12.6367	phi.
92.4341%	is larger than	12.9700	phi.
94.9560%	is larger than	13.3033	phi.
97.4780%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_1_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 24.2
 V-COARSE SAND - 0.3
 COARSE SAND _____ 0.3
 MEDIUM SAND _____ 0.7
 FINE SAND _____ 3.8
 V-FINE SAND _____ 19.0
 SILT _____ 39.0
 CLAY _____ 36.8

Graphic Measures

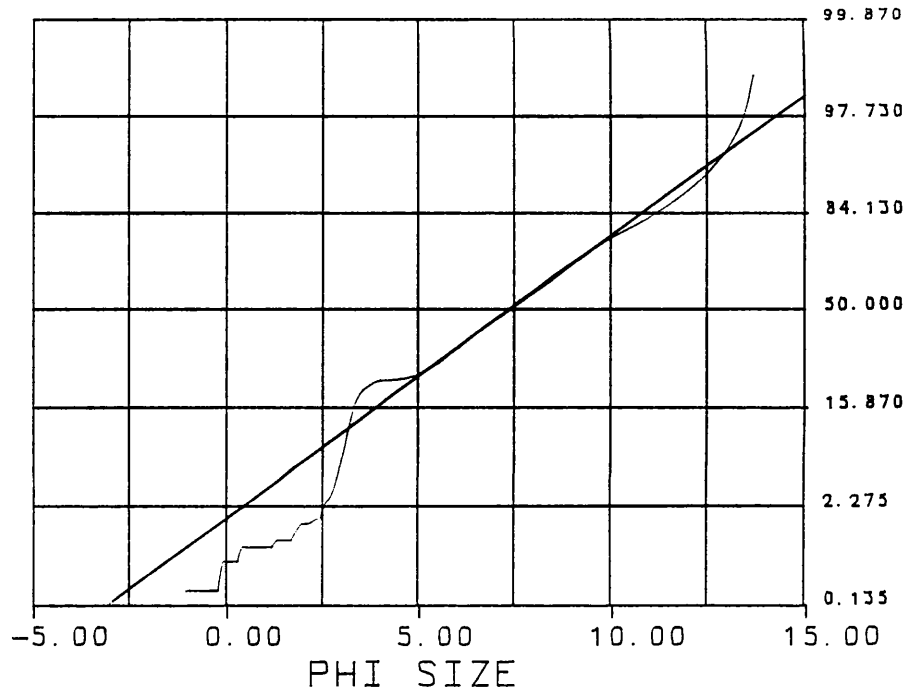
MEDIAN _____ 7.366
 MEAN _____ 7.278
 STD. DEVIATION- 3.454
 INC. SKEWNESS- 0.043
 INC. KURTOSIS- 0.531

Moment Measures

1st MOMENT _____ 7.390
 2nd MOMENT _____ 3.254
 3rd MOMENT _____ 0.111
 4th MOMENT _____ 2.123

DATE: 12-09-92

PROBABILITY CURVE



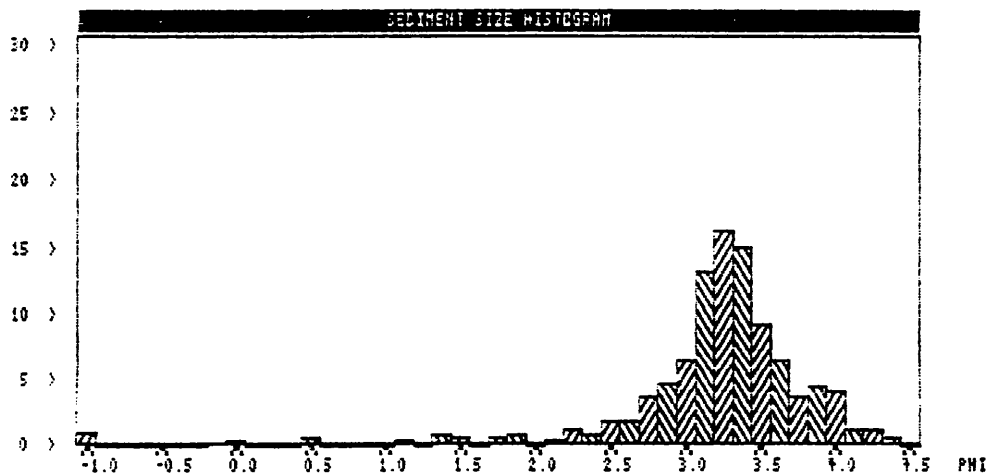
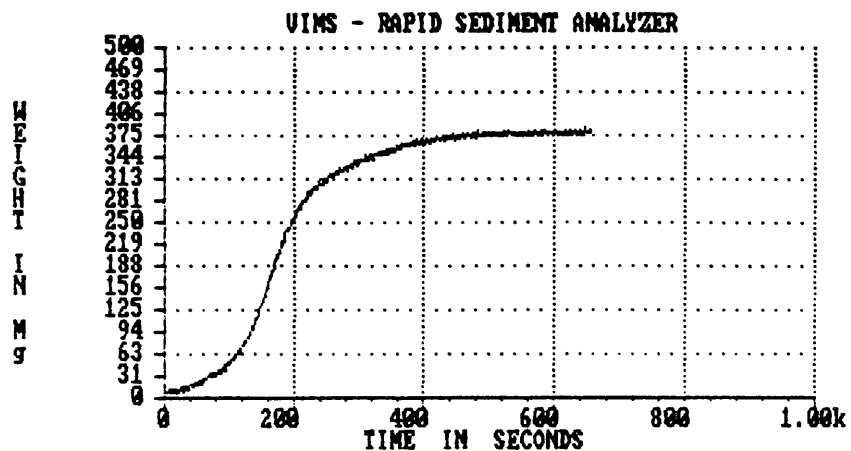
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_1_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
612.7107 Dry Sand Fraction Weight (mg) ~
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
3.1169 0.7132 -2.9868 16.3404 M1 M2 M3 M4 (phi)
3.2020 3.2134 0.5140 -0.1741 0.3795 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	4.0168	1.0561	4.0168	1.0561
-0.8750	1.8340	18.9156	0.0000	0.0000	4.0168	1.0561
-0.7500	1.6818	17.7631	0.0000	0.0000	4.0168	1.0561
-0.6250	1.5422	16.6582	0.0000	0.0000	4.0168	1.0561
-0.5000	1.4142	15.6003	0.0000	0.0000	4.0168	1.0561
-0.3750	1.2968	14.5884	0.0000	0.0000	4.0168	1.0561
-0.2500	1.1892	13.6217	0.0000	0.0000	4.0168	1.0561
-0.1250	1.0905	12.6995	0.2755	0.0724	4.2922	1.1285
0.0000	1.0000	11.8208	1.0368	0.2726	5.3290	1.4011
0.1250	0.9170	10.9848	0.0000	0.0000	5.3290	1.4011
0.2500	0.8409	10.1905	0.0000	0.0000	5.3290	1.4011
0.3750	0.7711	9.4370	0.0000	0.0000	5.3290	1.4011
0.5000	0.7071	8.7233	2.2088	0.5807	7.5379	1.9818
0.6250	0.6484	8.0484	0.1773	0.0466	7.7152	2.0284
0.7500	0.5946	7.4111	0.0000	0.0000	7.7152	2.0284
0.8750	0.5453	6.8104	0.0000	0.0000	7.7152	2.0284
1.0000	0.5000	6.2452	0.0000	0.0000	7.7152	2.0284
1.1250	0.4585	5.7143	1.2066	0.3172	8.9218	2.3457
1.2500	0.4204	5.2167	0.0000	0.0000	8.9218	2.3457
1.3750	0.3856	4.7510	2.7593	0.7255	11.6811	3.0711
1.5000	0.3536	4.3163	2.4373	0.6408	14.1184	3.7120
1.6250	0.3242	3.9113	0.0000	0.0000	14.1184	3.7120
1.7500	0.2973	3.5349	1.8852	0.4956	16.0036	4.2076
1.8750	0.2726	3.1860	3.1576	0.8302	19.1612	5.0378
2.0000	0.2500	2.8634	0.0000	0.0000	19.1612	5.0378
2.1250	0.2293	2.5660	1.4610	0.3841	20.6222	5.4219
2.2500	0.2102	2.2927	4.3883	1.1538	25.0105	6.5756
2.3750	0.1928	2.0423	2.9212	0.7680	27.9317	7.3437
2.5000	0.1768	1.8137	7.0541	1.8546	34.9857	9.1983
2.6250	0.1621	1.6058	6.4858	1.7052	41.4715	10.9035
2.7500	0.1487	1.4175	13.3954	3.5219	54.8670	14.4254
2.8750	0.1363	1.2476	17.7911	4.6776	72.6581	19.1029
3.0000	0.1250	1.0949	24.1987	6.3622	96.8568	25.4651
3.1250	0.1146	0.9582	50.0635	13.1625	146.9203	38.6276
3.2500	0.1051	0.8364	61.1579	16.0794	208.0782	54.7070
3.3750	0.0964	0.7282	56.3257	14.8089	264.4038	69.5159
3.5000	0.0884	0.6326	35.4042	9.3083	299.8081	78.8242
3.6250	0.0811	0.5484	24.4705	6.4337	324.2786	85.2579
3.7500	0.0743	0.4744	13.8545	3.6426	338.1331	88.9004
3.8750	0.0682	0.4098	16.8842	4.4391	355.0173	93.3395
4.0000	0.0625	0.3533	14.9691	3.9356	369.9864	97.2752
4.1250	0.0573	0.3043	4.2315	1.1125	374.2180	98.3877
4.2500	0.0526	0.2617	4.3216	1.1362	378.5395	99.5239
4.3750	0.0482	0.2248	1.8109	0.4761	380.3504	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	380.3504	100.0000

* - fall velocity of natural grains in fresh water at 20oC

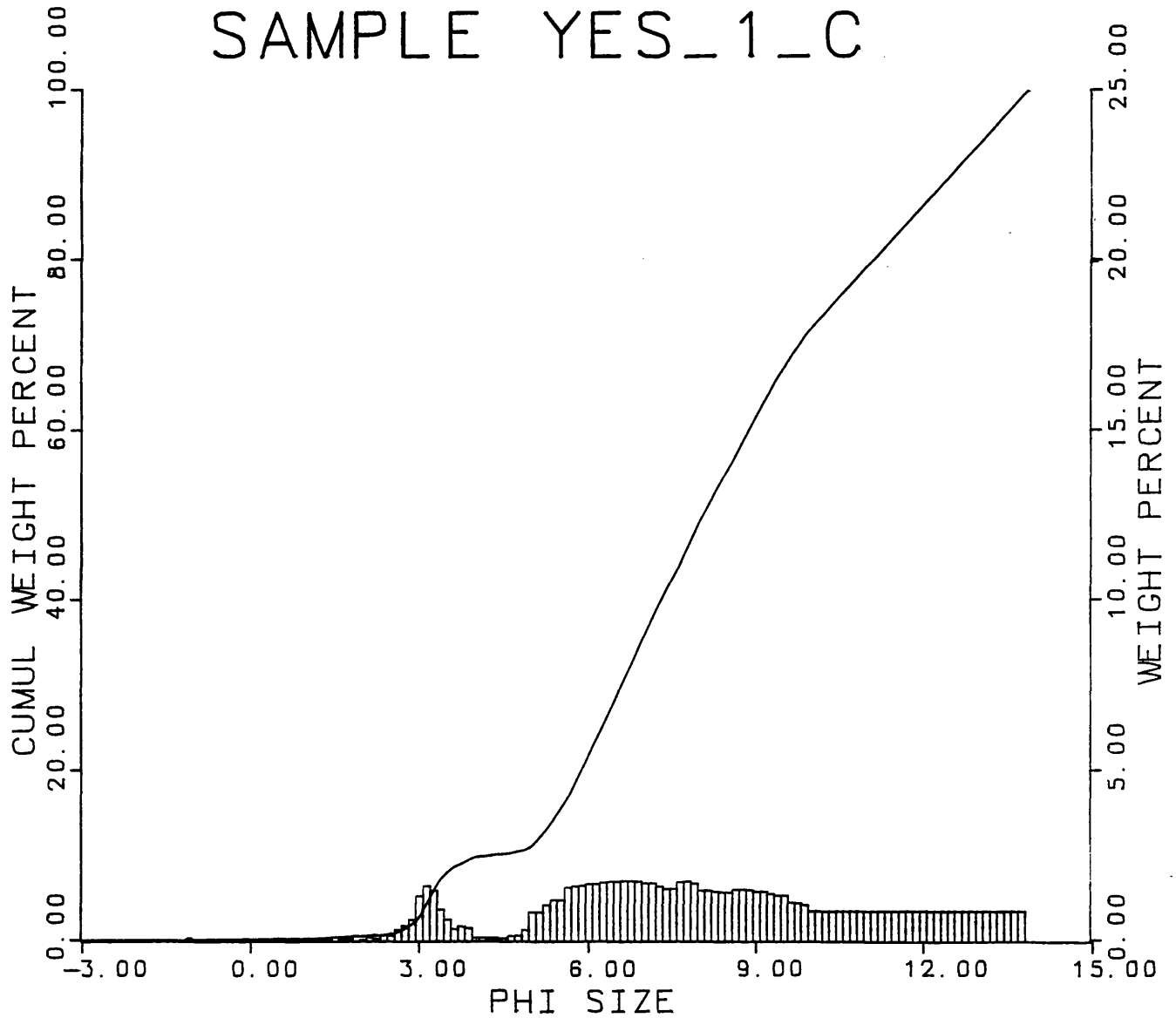


Coulter data
This data corresponds to file YES_1_C.3rd

8.8824	2.4894	0.3719	2.0317	M1	M2	M3	M4 (phi)
8.9051	8.5118	2.6328	0.2144	0.4017			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.3148%	is larger than	4.6367	phi.
0.8395%	is larger than	4.9700	phi.
3.4628%	is larger than	5.3033	phi.
7.1355%	is larger than	5.6367	phi.
12.0149%	is larger than	5.9700	phi.
17.1041%	is larger than	6.3033	phi.
22.4033%	is larger than	6.6367	phi.
27.7479%	is larger than	6.9700	phi.
32.8890%	is larger than	7.3033	phi.
37.5210%	is larger than	7.6367	phi.
42.8148%	is larger than	7.9700	phi.
47.2941%	is larger than	8.3033	phi.
51.6208%	is larger than	8.6367	phi.
56.2019%	is larger than	8.9700	phi.
60.5795%	is larger than	9.3033	phi.
64.6007%	is larger than	9.6367	phi.
67.9602%	is larger than	9.9700	phi.
70.6302%	is larger than	10.3033	phi.
73.3001%	is larger than	10.6367	phi.
75.9701%	is larger than	10.9700	phi.
78.6401%	is larger than	11.3033	phi.
81.3101%	is larger than	11.6367	phi.
83.9801%	is larger than	11.9700	phi.
86.6501%	is larger than	12.3033	phi.
89.3201%	is larger than	12.6367	phi.
91.9900%	is larger than	12.9700	phi.
94.6600%	is larger than	13.3033	phi.
97.3300%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_1_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 10.2
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.1
 MEDIUM SAND _____ 0.3
 FINE SAND _____ 2.2
 V-FINE SAND _____ 7.6
 SILT _____ 43.5
 CLAY _____ 46.3

Graphic Measures

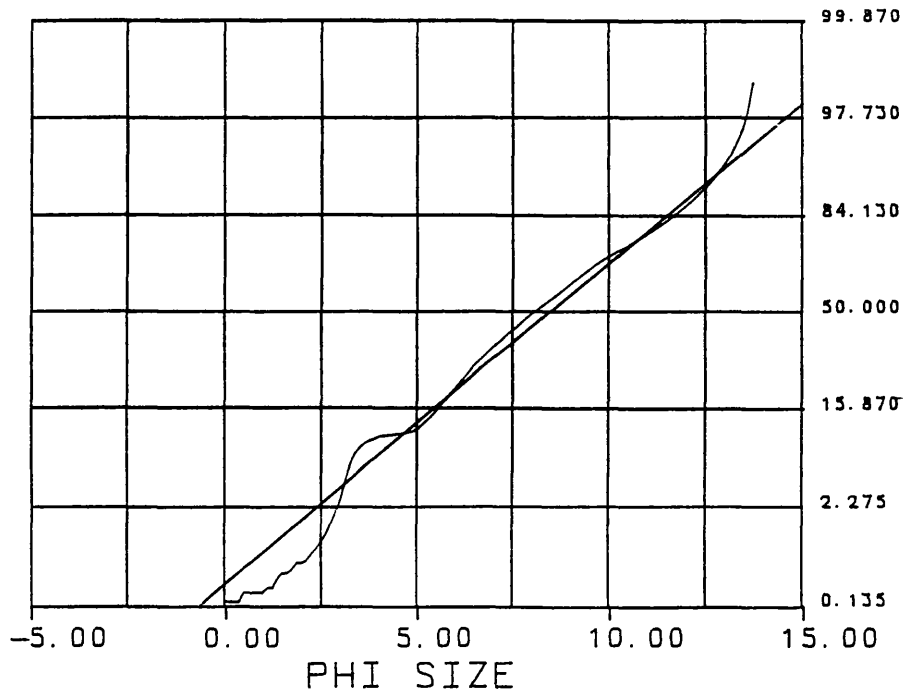
MEDIAN _____ 8.054
 MEAN _____ 8.428
 STD. DEVIATION _____ 3.038
 INC. SKEWNESS _____ 0.106
 INC. KURTOSIS _____ 0.520

Moment Measures

1st MOMENT _____ 8.255
 2nd MOMENT _____ 2.917
 3rd MOMENT _____ -0.006
 4th MOMENT _____ 2.385

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

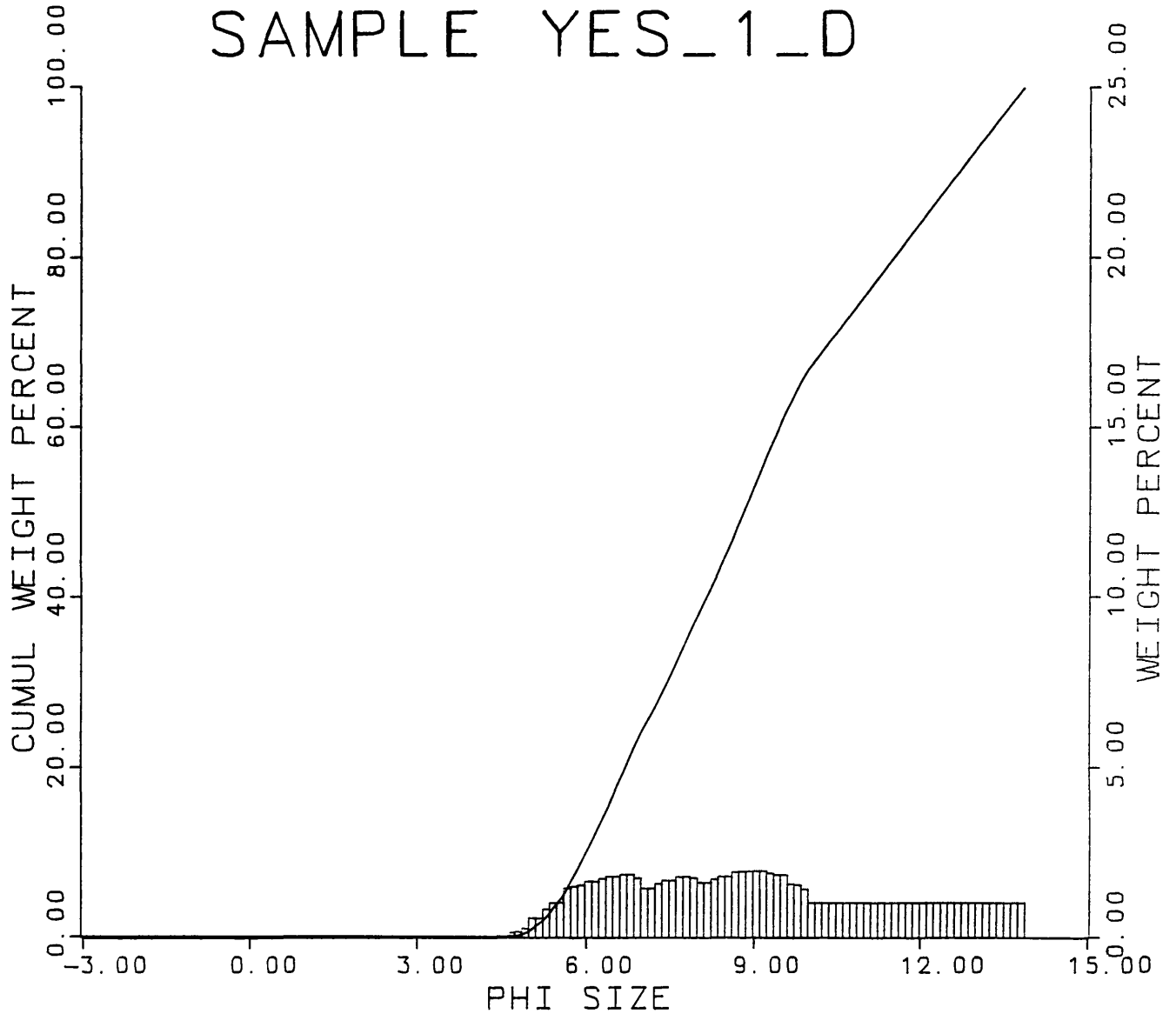
Coulter data

This data corresponds to file YES_1_D.3rd

9.1181	2.4225	0.2828	2.0314	M1	M2	M3	M4 (phi)
9.1436	8.8751	2.5777	0.1536	0.3909	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.5444%	is larger than	4.9700	phi.
2.1776%	is larger than	5.3033	phi.
4.9903%	is larger than	5.6367	phi.
9.0733%	is larger than	5.9700	phi.
13.5646%	is larger than	6.3033	phi.
18.4642%	is larger than	6.6367	phi.
23.5034%	is larger than	6.9700	phi.
27.4601%	is larger than	7.3033	phi.
32.0513%	is larger than	7.6367	phi.
36.9412%	is larger than	7.9700	phi.
41.3458%	is larger than	8.3033	phi.
46.2357%	is larger than	8.6367	phi.
51.4989%	is larger than	8.9700	phi.
56.7994%	is larger than	9.3033	phi.
61.8012%	is larger than	9.6367	phi.
66.0192%	is larger than	9.9700	phi.
68.8509%	is larger than	10.3033	phi.
71.6827%	is larger than	10.6367	phi.
74.5144%	is larger than	10.9700	phi.
77.3461%	is larger than	11.3033	phi.
80.1779%	is larger than	11.6367	phi.
83.0096%	is larger than	11.9700	phi.
85.8413%	is larger than	12.3033	phi.
88.6731%	is larger than	12.6367	phi.
91.5048%	is larger than	12.9700	phi.
94.3365%	is larger than	13.3033	phi.
97.1683%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_1_D



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.4
 SAND _____ 3.7
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 43.3
 CLAY _____ 52.6

Graphic Measures

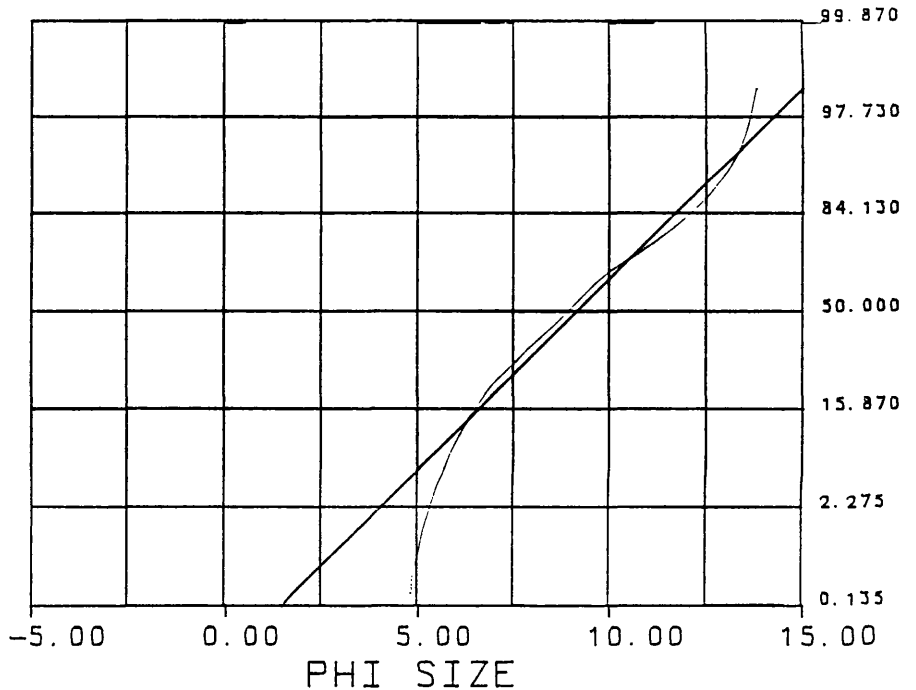
MEDIAN _____ 8.850
 MEAN _____ 9.105
 STD. DEVIATION- 2.547
 INC. SKEWNESS- 0.149
 INC. KURTOSIS- 0.390

Moment Measures

1st MOMENT _____ 9.079
 2nd MOMENT _____ 2.395
 3rd MOMENT _____ 0.278
 4th MOMENT _____ 2.038

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

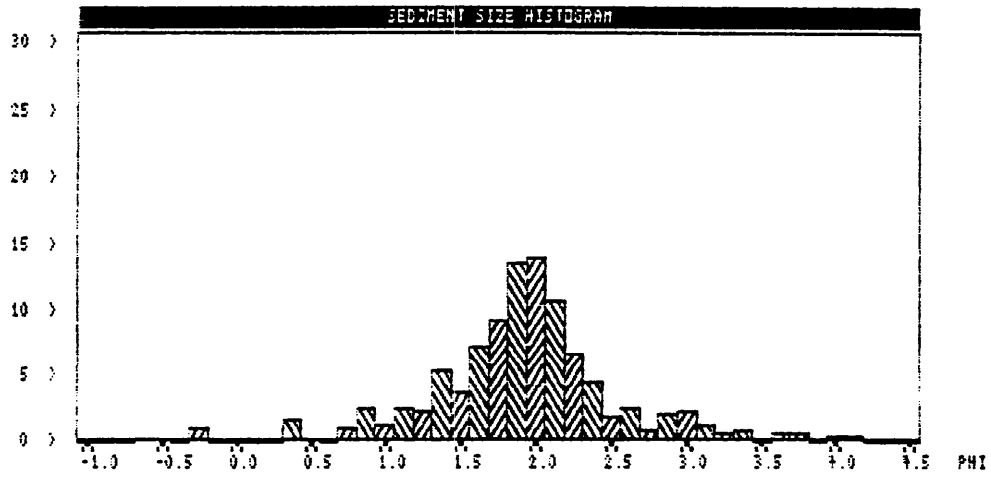
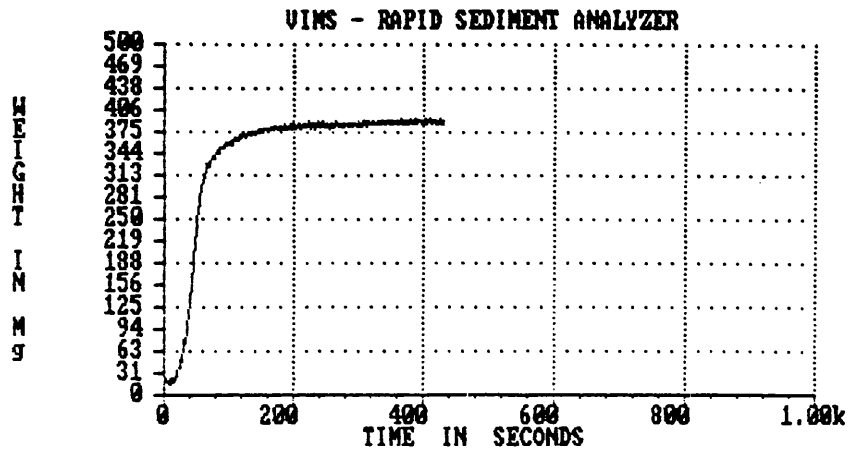
YES_1_E

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
625.2470 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
1.8500 0.6494 -0.1607 5.4230 M1 M2 M3 M4 (phi)
1.8362 1.8665 0.5707 -0.0427 0.6046 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0232	0.0061	0.0232	0.0061
-0.6250	1.5422	16.6582	0.6242	0.1652	0.6473	0.1713
-0.5000	1.4142	15.6003	0.8972	0.2375	1.5445	0.4088
-0.3750	1.2968	14.5884	0.0000	0.0000	1.5445	0.4088
-0.2500	1.1892	13.6217	3.8828	1.0277	5.4273	1.4365
-0.1250	1.0905	12.6995	0.0000	0.0000	5.4273	1.4365
0.0000	1.0000	11.8208	0.0000	0.0000	5.4273	1.4365
0.1250	0.9170	10.9848	0.0000	0.0000	5.4273	1.4365
0.2500	0.8409	10.1905	0.0000	0.0000	5.4273	1.4365
0.3750	0.7711	9.4370	5.9222	1.5675	11.3495	3.0040
0.5000	0.7071	8.7233	0.9695	0.2566	12.3190	3.2606
0.6250	0.6484	8.0484	0.0000	0.0000	12.3190	3.2606
0.7500	0.5946	7.4111	3.8529	1.0198	16.1719	4.2804
0.8750	0.5453	6.8104	8.8880	2.3525	25.0600	6.6329
1.0000	0.5000	6.2452	4.3650	1.1553	29.4250	7.7882
1.1250	0.4585	5.7143	8.7588	2.3183	38.1838	10.1065
1.2500	0.4204	5.2167	8.4856	2.2460	46.6694	12.3525
1.3750	0.3856	4.7510	19.3530	5.1223	66.0224	17.4748
1.5000	0.3536	4.3163	13.5223	3.5791	79.5447	21.0539
1.6250	0.3242	3.9113	26.9771	7.1403	106.5218	28.1942
1.7500	0.2973	3.5349	34.7780	9.2050	141.2998	37.3992
1.8750	0.2726	3.1860	51.0602	13.5146	192.3600	50.9138
2.0000	0.2500	2.8634	52.8500	13.9883	245.2101	64.9021
2.1250	0.2293	2.5660	40.3178	10.6713	285.5279	75.5734
2.2500	0.2102	2.2927	24.8389	6.5743	310.3668	82.1478
2.3750	0.1928	2.0423	16.5074	4.3692	326.8742	86.5170
2.5000	0.1768	1.8137	7.0150	1.8567	333.8892	88.3737
2.6250	0.1621	1.6058	9.2681	2.4531	343.1573	90.8268
2.7500	0.1487	1.4175	2.5895	0.6854	345.7468	91.5122
2.8750	0.1363	1.2476	7.5490	1.9981	353.2958	93.5102
3.0000	0.1250	1.0949	7.8649	2.0817	361.1607	95.5919
3.1250	0.1146	0.9582	4.7422	1.2552	365.9029	96.8471
3.2500	0.1051	0.8364	1.8927	0.5010	367.7956	97.3480
3.3750	0.0964	0.7282	2.7898	0.7384	370.5854	98.0864
3.5000	0.0884	0.6326	0.0000	0.0000	370.5854	98.0864
3.6250	0.0811	0.5484	2.2861	0.6051	372.8715	98.6915
3.7500	0.0743	0.4744	2.1425	0.5671	375.0140	99.2586
3.8750	0.0682	0.4098	0.0000	0.0000	375.0140	99.2586
4.0000	0.0625	0.3533	1.1855	0.3138	376.1996	99.5724
4.1250	0.0573	0.3043	1.6156	0.4276	377.8151	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	377.8151	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	377.8151	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	377.8151	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_1_E



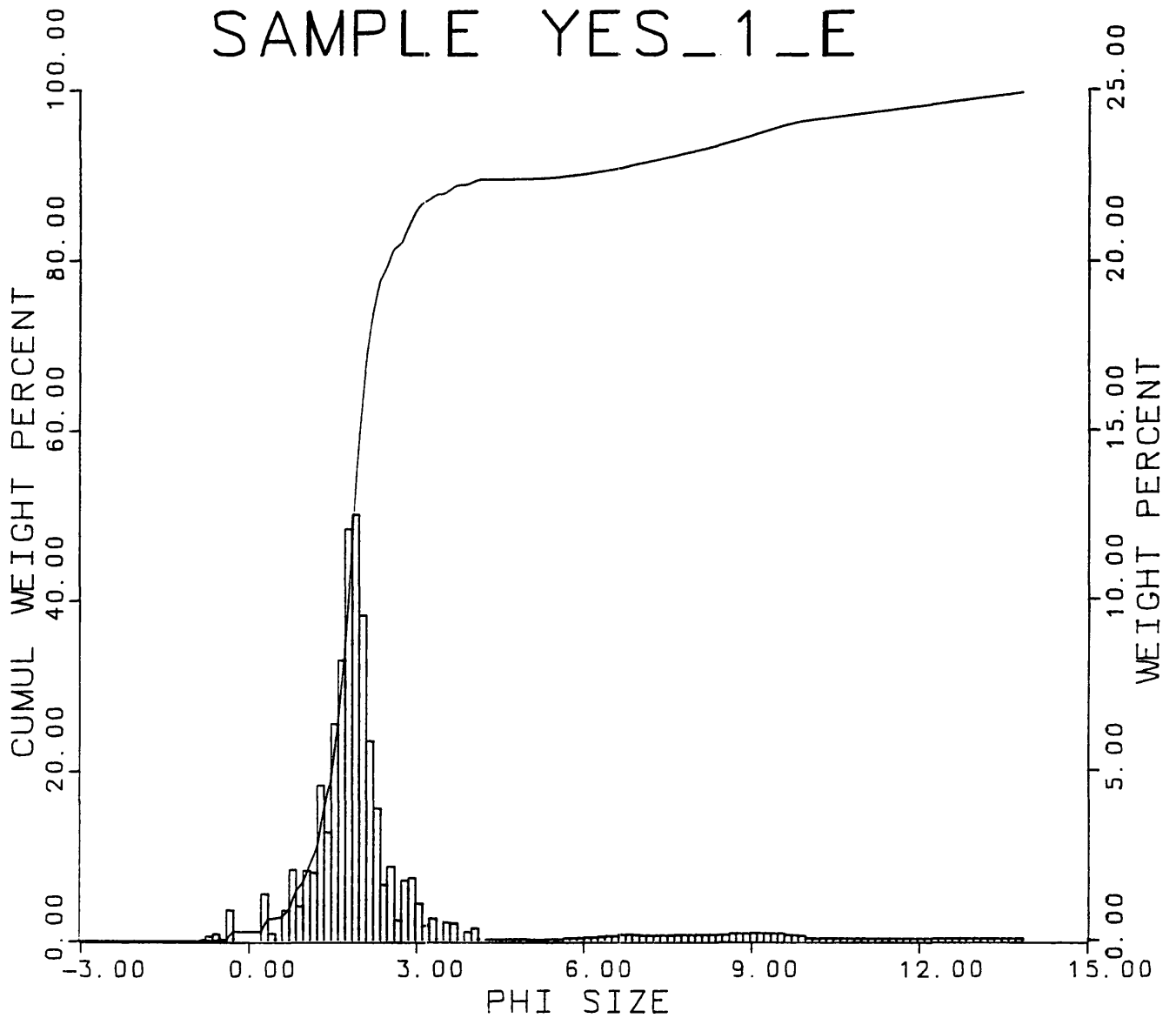
Coulter data

This data corresponds to file YES_1_E.3rd

9.2442	2.2789	0.3027	2.2064	M1	M2	M3	M4 (phi)
9.2878	9.0062	2.4301	0.1631	0.3905	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1757%	is larger than	4.6367	phi.
0.6150%	is larger than	4.9700	phi.
1.5375%	is larger than	5.3033	phi.
3.2507%	is larger than	5.6367	phi.
5.7106%	is larger than	5.9700	phi.
8.8295%	is larger than	6.3033	phi.
12.8709%	is larger than	6.6367	phi.
18.0718%	is larger than	6.9700	phi.
22.5470%	is larger than	7.3033	phi.
27.2238%	is larger than	7.6367	phi.
32.3440%	is larger than	7.9700	phi.
37.5853%	is larger than	8.3033	phi.
42.9475%	is larger than	8.6367	phi.
49.2773%	is larger than	8.9700	phi.
55.9296%	is larger than	9.3033	phi.
62.1787%	is larger than	9.6367	phi.
67.1781%	is larger than	9.9700	phi.
69.9132%	is larger than	10.3033	phi.
72.6484%	is larger than	10.6367	phi.
75.3836%	is larger than	10.9700	phi.
78.1137%	is larger than	11.3033	phi.
80.8539%	is larger than	11.6367	phi.
83.5890%	is larger than	11.9700	phi.
86.3242%	is larger than	12.3033	phi.
89.0594%	is larger than	12.6367	phi.
91.7945%	is larger than	12.9700	phi.
94.5297%	is larger than	13.3033	phi.
97.2648%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_1_E



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 89.5
 V-COARSE SAND - 1.3
 COARSE SAND _____ 5.7
 MEDIUM SAND _____ 51.3
 FINE SAND _____ 27.6
 V-FINE SAND _____ 3.6
 SILT _____ 4.9
 CLAY _____ 5.5

Graphic Measures

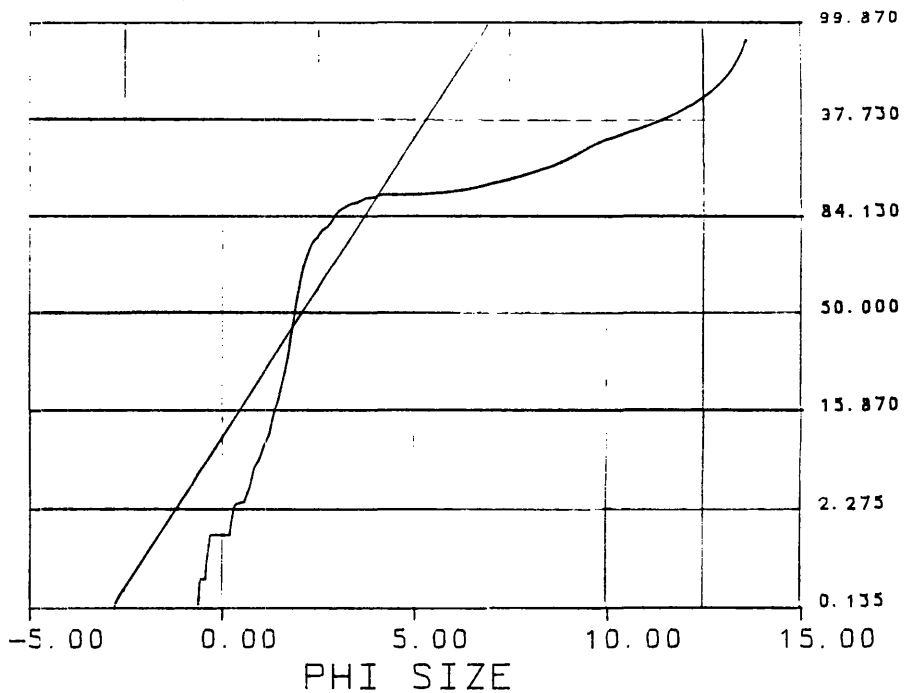
MEDIAN _____ 1.918
 MEAN _____ 2.064
 STD. DEVIATION- 1.624
 INC. SKEWNESS- 0.513
 INC. KURTOSIS- 2.075

Moment Measures

1st MOMENT _____ 2.611
 2nd MOMENT _____ 2.433
 3rd MOMENT _____ 2.715
 4th MOMENT _____ 9.996

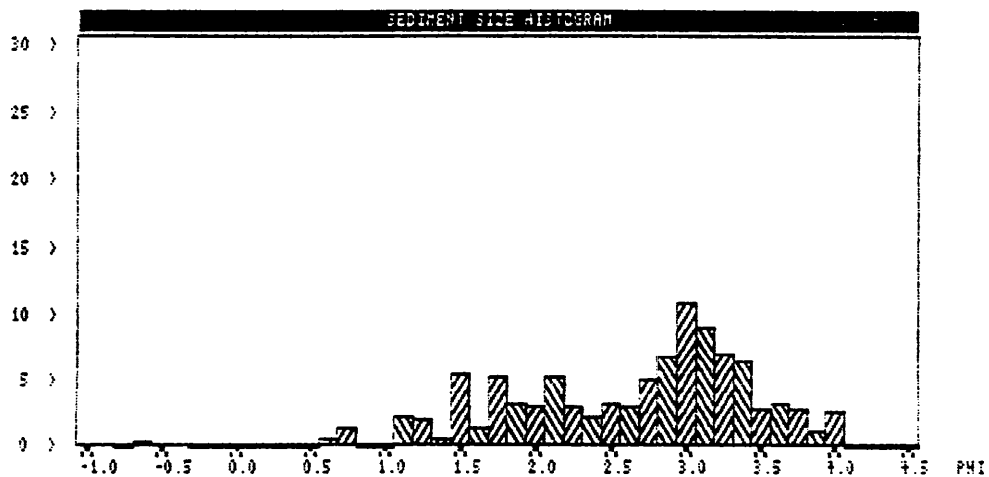
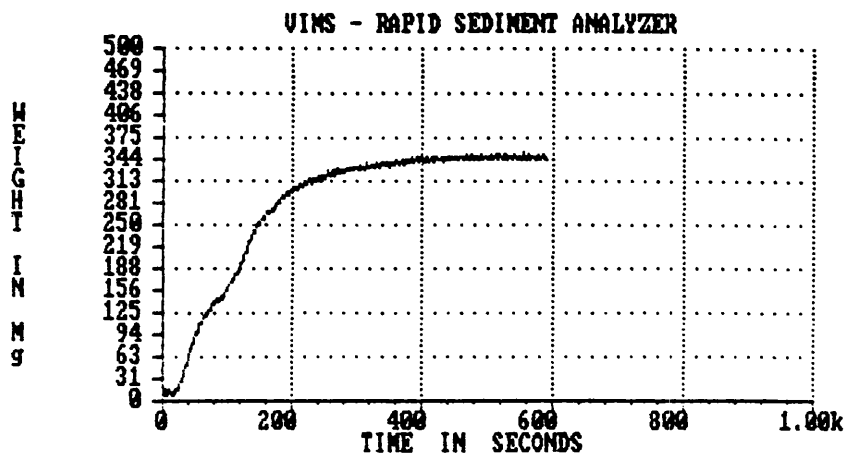
DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_1_F



YES_1_F

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
553.9469 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.5594 0.8414 -0.9180 4.2559 M1 M2 M3 M4 (phi)
2.5924 2.8011 0.8006 -0.3416 0.4518 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.7305	0.2136	0.7305	0.2136
-0.8750	1.8340	18.9156	0.8206	0.2399	1.5511	0.4535
-0.7500	1.6818	17.7631	0.0000	0.0000	1.5511	0.4535
-0.6250	1.5422	16.6582	1.3927	0.4072	2.9438	0.8607
-0.5000	1.4142	15.6003	0.2213	0.0647	3.1650	0.9254
-0.3750	1.2968	14.5884	0.2389	0.0698	3.4039	0.9952
-0.2500	1.1892	13.6217	0.0000	0.0000	3.4039	0.9952
-0.1250	1.0905	12.6995	0.0000	0.0000	3.4039	0.9952
0.0000	1.0000	11.8208	0.0000	0.0000	3.4039	0.9952
0.1250	0.9170	10.9848	0.0000	0.0000	3.4039	0.9952
0.2500	0.8409	10.1905	0.0000	0.0000	3.4039	0.9952
0.3750	0.7711	9.4370	0.0000	0.0000	3.4039	0.9952
0.5000	0.7071	8.7233	0.0000	0.0000	3.4039	0.9952
0.6250	0.6484	8.0484	1.6721	0.4889	5.0761	1.4841
0.7500	0.5946	7.4111	4.3748	1.2791	9.4509	2.7632
0.8750	0.5453	6.8104	0.0000	0.0000	9.4509	2.7632
1.0000	0.5000	6.2452	0.0000	0.0000	9.4509	2.7632
1.1250	0.4585	5.7143	7.6042	2.2233	17.0551	4.9865
1.2500	0.4204	5.2167	6.7363	1.9695	23.7913	6.9560
1.3750	0.3856	4.7510	2.1021	0.6146	25.8934	7.5706
1.5000	0.3536	4.3163	19.4904	5.4061	44.3838	12.9767
1.6250	0.3242	3.9113	4.3732	1.2786	48.7570	14.2554
1.7500	0.2973	3.5349	17.9357	5.2440	66.6927	19.4993
1.8750	0.2726	3.1860	10.6472	3.1130	77.3400	22.6123
2.0000	0.2500	2.8634	10.1850	2.9779	87.5250	25.5901
2.1250	0.2293	2.5660	18.0251	5.2701	105.5501	30.8602
2.2500	0.2102	2.2927	9.9701	2.9150	115.5202	33.7753
2.3750	0.1928	2.0423	7.7341	2.2612	123.2543	36.0365
2.5000	0.1768	1.8137	10.6126	3.1029	133.8669	39.1394
2.6250	0.1621	1.6058	10.1350	2.9632	144.0019	42.1026
2.7500	0.1487	1.4175	17.4016	5.0878	161.4036	47.1904
2.8750	0.1363	1.2476	23.5116	6.8742	184.9152	54.0646
3.0000	0.1250	1.0949	37.1510	10.8620	222.0662	64.9267
3.1250	0.1146	0.9582	30.8796	9.0284	252.9458	73.9551
3.2500	0.1051	0.8364	24.0041	7.0182	276.9498	80.9733
3.3750	0.0964	0.7282	21.7658	6.3638	298.7156	87.3371
3.5000	0.0884	0.6326	9.7456	2.8494	308.4612	90.1864
3.6250	0.0811	0.5484	10.6554	3.1154	319.1166	93.3018
3.7500	0.0743	0.4744	9.8223	2.8718	328.9390	96.1736
3.8750	0.0682	0.4098	4.1104	1.2018	333.0494	97.3754
4.0000	0.0625	0.3533	8.9768	2.6246	342.0261	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	342.0261	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	342.0261	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	342.0261	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	342.0261	100.0000

* - fall velocity of natural grains in fresh water at 20oC

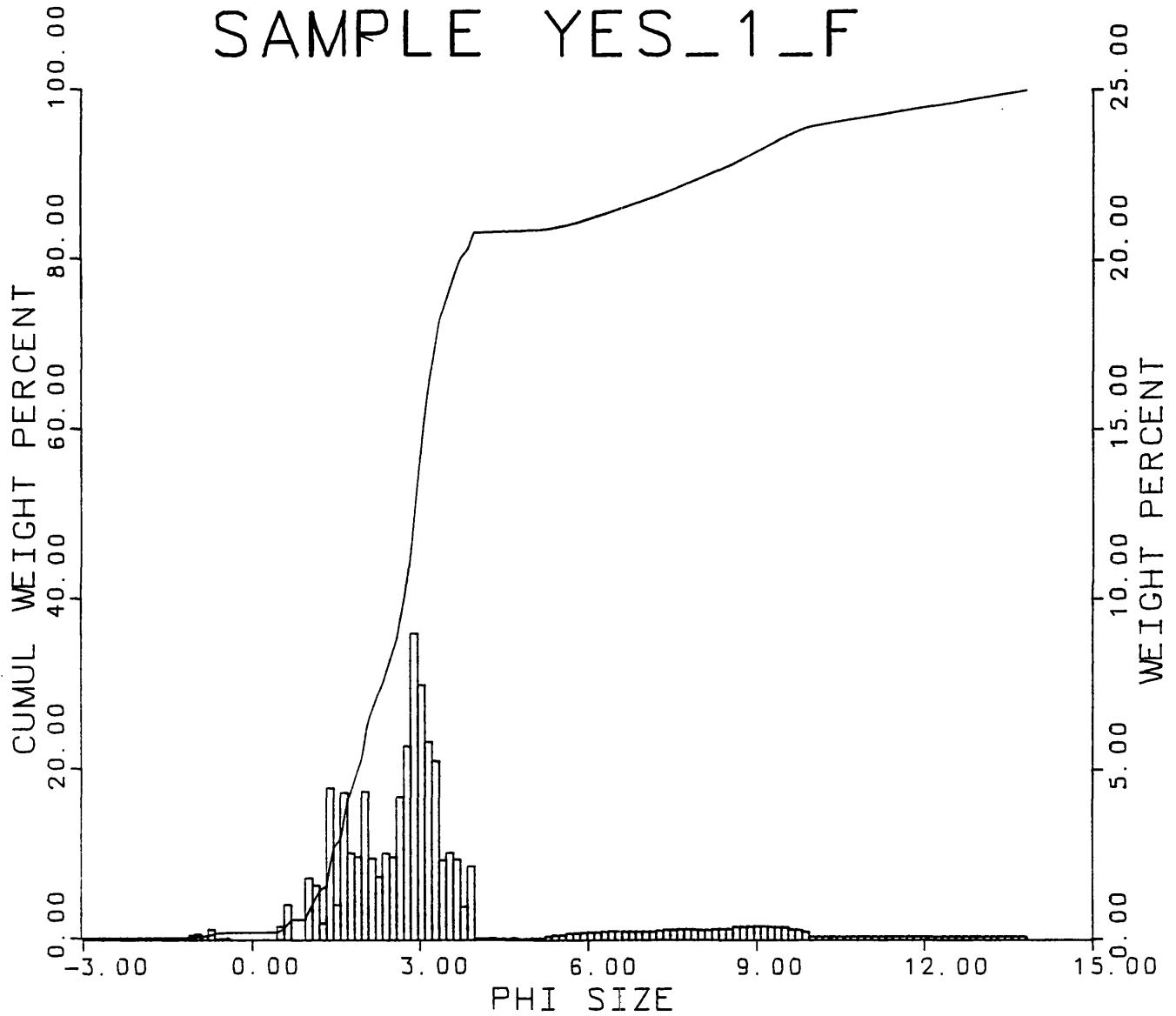
Coulter data

This data corresponds to file YES_1_F.3rd

8.8690 2.2565 0.4001 2.4725 M1 M2 M3 M4 (phi)
8.9007 8.7064 2.3925 0.1491 0.4360 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.2989% is larger than 4.3033 phi.
0.9466% is larger than 4.6367 phi.
1.4947% is larger than 4.9700 phi.
2.7402% is larger than 5.3033 phi.
5.3310% is larger than 5.6367 phi.
8.9182% is larger than 5.9700 phi.
13.0535% is larger than 6.3033 phi.
17.6870% is larger than 6.6367 phi.
22.2653% is larger than 6.9700 phi.
26.8436% is larger than 7.3033 phi.
32.1155% is larger than 7.6367 phi.
37.6187% is larger than 7.9700 phi.
42.7982% is larger than 8.3033 phi.
48.5789% is larger than 8.6367 phi.
55.3769% is larger than 8.9700 phi.
62.4062% is larger than 9.3033 phi.
68.9268% is larger than 9.6367 phi.
74.2912% is larger than 9.9700 phi.
76.4336% is larger than 10.3033 phi.
78.5760% is larger than 10.6367 phi.
80.7184% is larger than 10.9700 phi.
82.8608% is larger than 11.3033 phi.
85.0032% is larger than 11.6367 phi.
87.1456% is larger than 11.9700 phi.
89.2880% is larger than 12.3033 phi.
91.4304% is larger than 12.6367 phi.
93.5728% is larger than 12.9700 phi.
95.7152% is larger than 13.3033 phi.
97.8576% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_1_F



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 83.1
 V-COARSE SAND - 0.7
 COARSE SAND _____ 1.5
 MEDIUM SAND _____ 19.0
 FINE SAND _____ 32.8
 V-FINE SAND _____ 29.2
 SILT _____ 10.0
 CLAY _____ 6.9

Graphic Measures

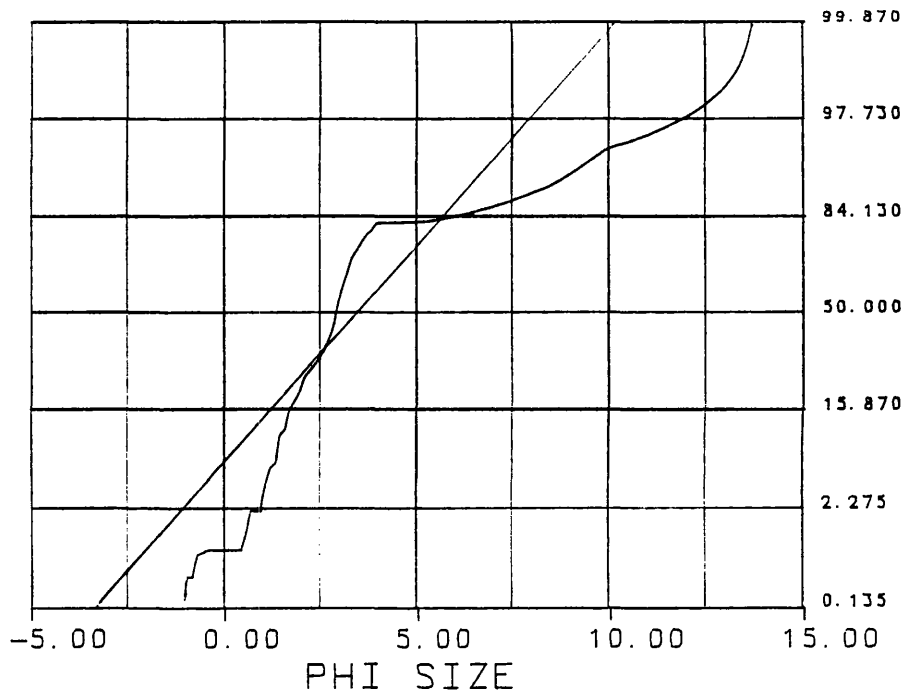
MEDIAN _____ 2.945
 MEAN _____ 3.419
 STD. DEVIATION- 2.245
 INC. SKEWNESS- 0.480
 INC. KURTOSIS- 1.322

Moment Measures

1st MOMENT _____ 3.615
 2nd MOMENT _____ 2.634
 3rd MOMENT _____ 1.887
 4th MOMENT _____ 6.149

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

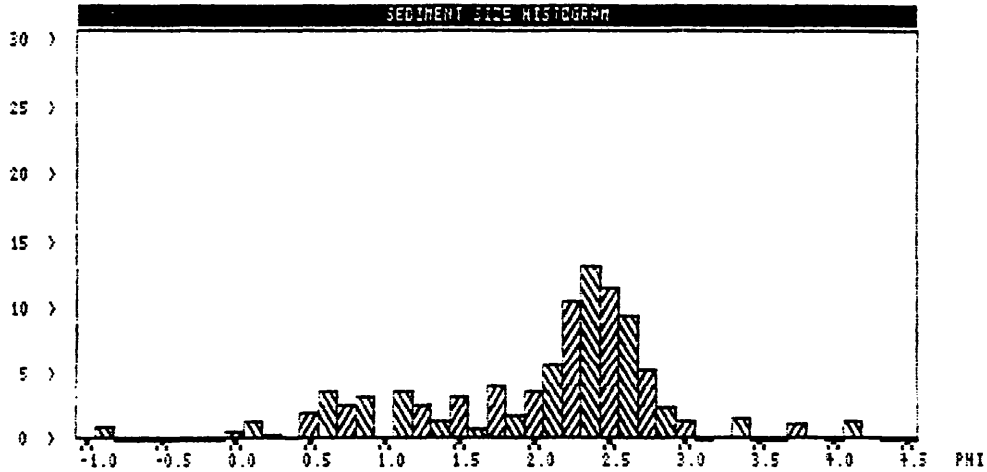
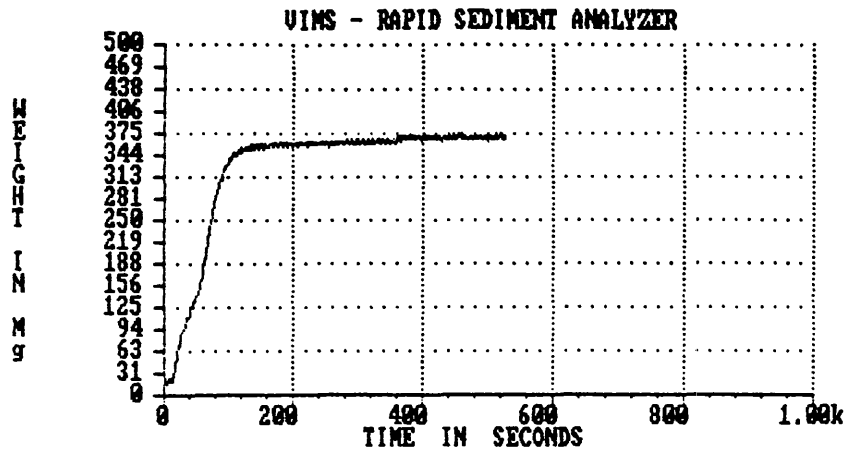
YES_1_G

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
595.0816 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
1.9719 0.8599 -0.7404 3.9699 M1 M2 M3 M4 (phi)
1.9497 2.2251 0.7731 -0.4659 0.5483 Mz,Md,SI,SKI,KG

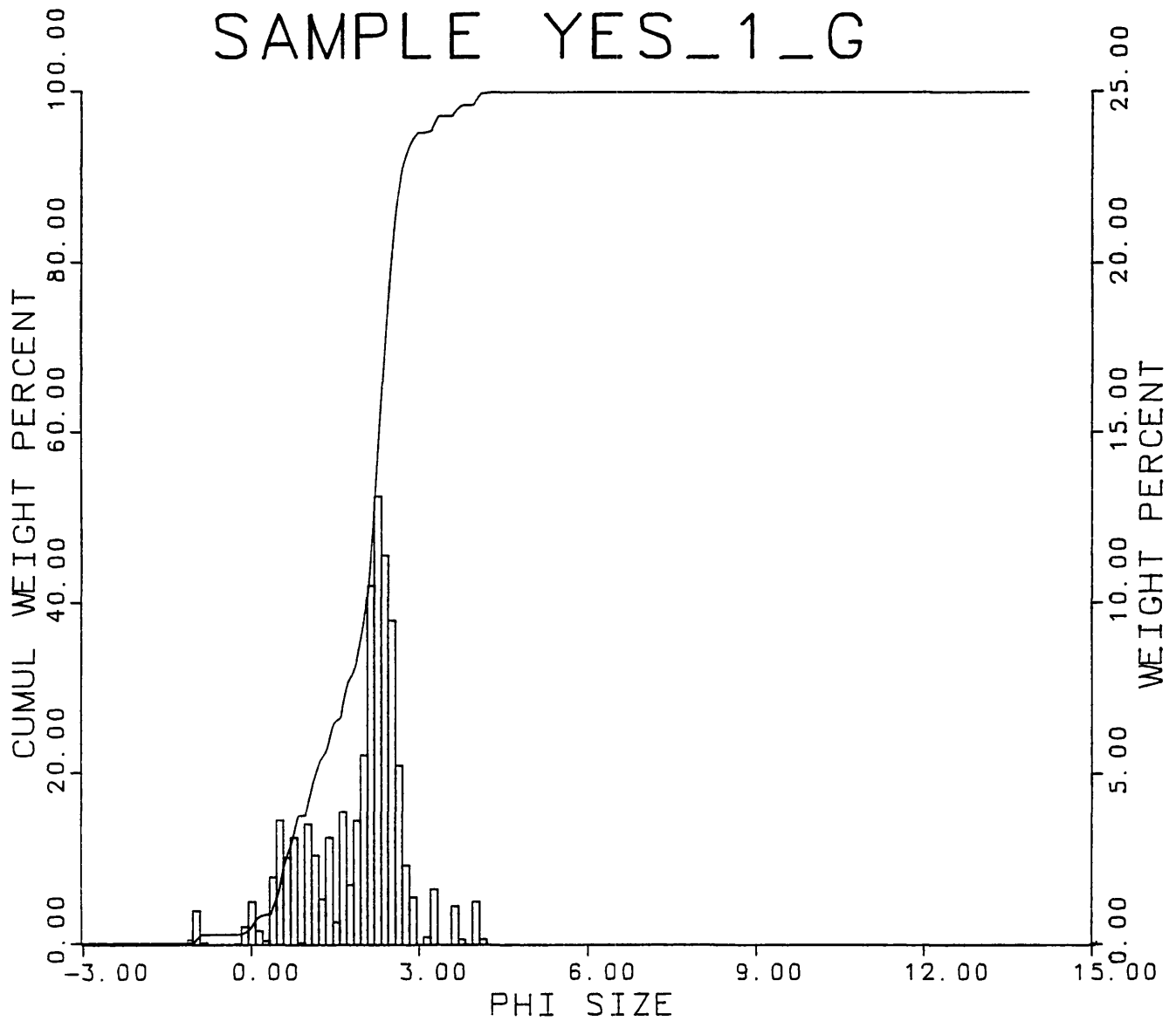
Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.5973	0.1678	0.5973	0.1678
-0.8750	1.8340	18.9156	3.6142	1.0156	4.2114	1.1835
-0.7500	1.6818	17.7631	0.1159	0.0326	4.3274	1.2160
-0.6250	1.5422	16.6582	0.0000	0.0000	4.3274	1.2160
-0.5000	1.4142	15.6003	0.0000	0.0000	4.3274	1.2160
-0.3750	1.2968	14.5884	0.0000	0.0000	4.3274	1.2160
-0.2500	1.1892	13.6217	0.0000	0.0000	4.3274	1.2160
-0.1250	1.0905	12.6995	0.1698	0.0477	4.4972	1.2638
0.0000	1.0000	11.8208	1.9816	0.5568	6.4788	1.8206
0.1250	0.9170	10.9848	4.5507	1.2788	11.0295	3.0994
0.2500	0.8409	10.1905	1.5549	0.4369	12.5844	3.5363
0.3750	0.7711	9.4370	0.4972	0.1397	13.0816	3.6761
0.5000	0.7071	8.7233	7.1486	2.0088	20.2302	5.6849
0.6250	0.6484	8.0484	13.0123	3.6566	33.2425	9.3415
0.7500	0.5946	7.4111	9.2010	2.5856	42.4435	11.9270
0.8750	0.5453	6.8104	11.2756	3.1685	53.7191	15.0956
1.0000	0.5000	6.2452	0.3220	0.0905	54.0411	15.1861
1.1250	0.4585	5.7143	12.6357	3.5508	66.6768	18.7368
1.2500	0.4204	5.2167	9.4122	2.6449	76.0890	21.3817
1.3750	0.3856	4.7510	4.8487	1.3625	80.9377	22.7443
1.5000	0.3536	4.3163	11.2877	3.1720	92.2254	25.9162
1.6250	0.3242	3.9113	2.4787	0.6965	94.7041	26.6128
1.7500	0.2973	3.5349	13.9136	3.9099	108.6177	30.5226
1.8750	0.2726	3.1860	6.3535	1.7854	114.9712	32.3080
2.0000	0.2500	2.8634	13.0083	3.6555	127.9795	35.9635
2.1250	0.2293	2.5660	19.8743	5.5849	147.8538	41.5483
2.2500	0.2102	2.2927	37.5682	10.5570	185.4220	52.1054
2.3750	0.1928	2.0423	46.8482	13.1648	232.2702	65.2702
2.5000	0.1768	1.8137	40.7142	11.4411	272.9844	76.7112
2.6250	0.1621	1.6058	33.9601	9.5431	306.9445	86.2543
2.7500	0.1487	1.4175	18.7809	5.2776	325.7254	91.5320
2.8750	0.1363	1.2476	8.3281	2.3403	334.0535	93.8722
3.0000	0.1250	1.0949	5.0399	1.4162	339.0934	95.2885
3.1250	0.1146	0.9582	0.0000	0.0000	339.0934	95.2885
3.2500	0.1051	0.8364	0.8934	0.2511	339.9868	95.5395
3.3750	0.0964	0.7282	5.8853	1.6538	345.8721	97.1934
3.5000	0.0884	0.6326	0.0000	0.0000	345.8721	97.1934
3.6250	0.0811	0.5484	0.0000	0.0000	345.8721	97.1934
3.7500	0.0743	0.4744	4.1087	1.1546	349.9808	98.3479
3.8750	0.0682	0.4098	0.6570	0.1846	350.6377	98.5326
4.0000	0.0625	0.3533	0.0000	0.0000	350.6377	98.5326
4.1250	0.0573	0.3043	4.5673	1.2835	355.2050	99.8160
4.2500	0.0526	0.2617	0.6547	0.1840	355.8598	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	355.8598	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	355.8598	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_1_G



SAMPLE YES_1_G



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.2
 SAND _____ 95.6
 V-COARSE SAND - 1.6
 COARSE SAND - 13.0
 MEDIUM SAND - 20.2
 FINE SAND - 57.7
 V-FINE SAND - 3.2
 SILT _____ 1.9
 CLAY _____ 2.3

Graphic Measures

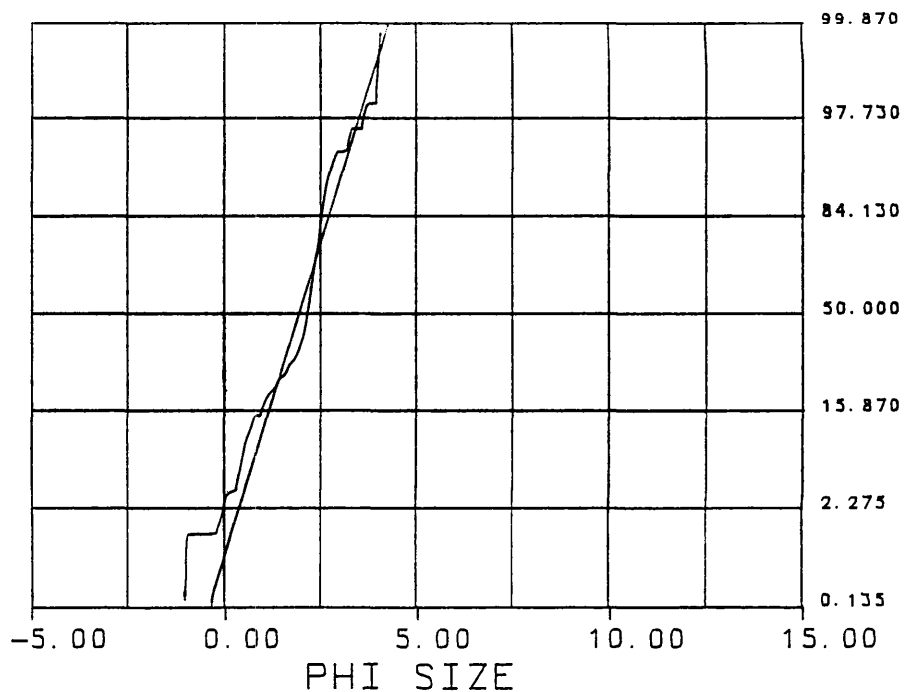
MEDIAN _____ 2.225
 MEAN _____ 1.950
 STD. DEVIATION - 0.773
 INC. SKEWNESS - -0.466
 INC. KURTOSIS - 0.548

Moment Measures

1st MOMENT _____ 1.972
 2nd MOMENT _____ 0.860
 3rd MOMENT _____ -0.740
 4th MOMENT _____ 3.970

DATE: 12-09-92

PROBABILITY CURVE



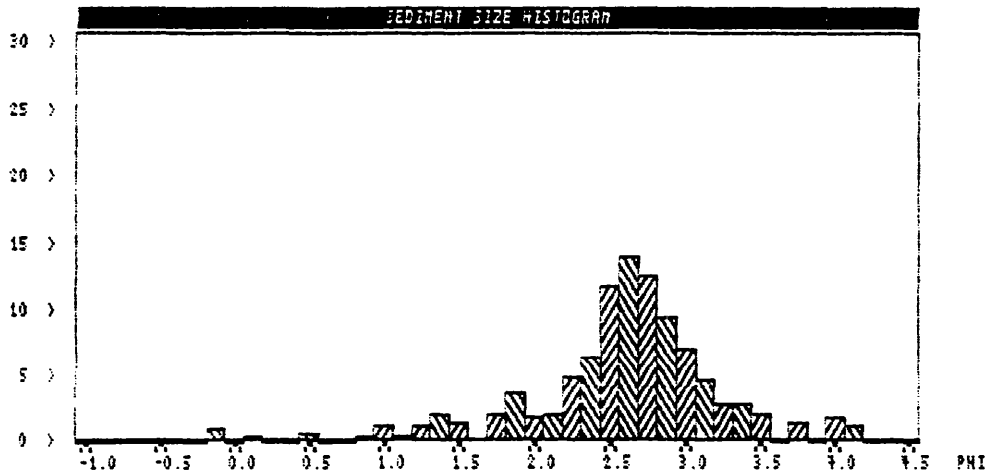
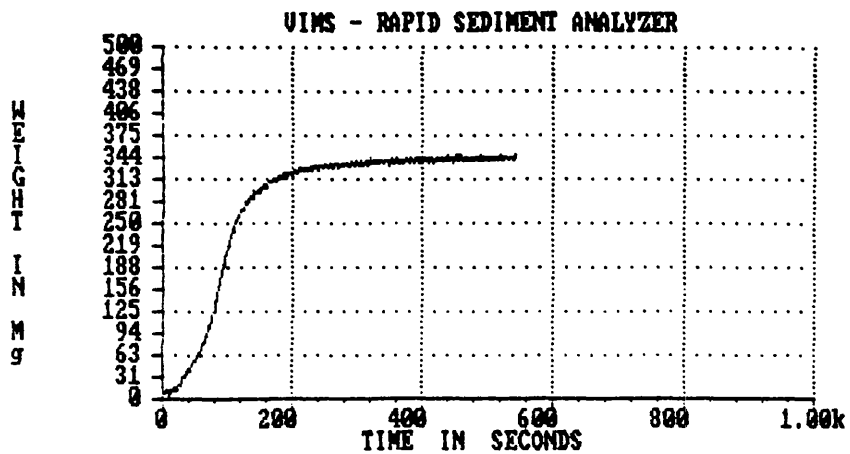
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_2_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
554.7304 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.5145 0.6700 -1.0411 5.9728 M1 M2 M3 M4 (phi)
2.5375 2.5843 0.5822 -0.1744 0.4714 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	3.4836	1.0214	3.4836	1.0214
0.0000	1.0000	11.8208	0.0000	0.0000	3.4836	1.0214
0.1250	0.9170	10.9848	1.0898	0.3195	4.5734	1.3410
0.2500	0.8409	10.1905	0.0000	0.0000	4.5734	1.3410
0.3750	0.7711	9.4370	0.0000	0.0000	4.5734	1.3410
0.5000	0.7071	8.7233	1.8629	0.5462	6.4363	1.8872
0.6250	0.6484	8.0484	0.0000	0.0000	6.4363	1.8872
0.7500	0.5946	7.4111	0.0000	0.0000	6.4363	1.8872
0.8750	0.5453	6.8104	1.2868	0.3773	7.7231	2.2645
1.0000	0.5000	6.2452	4.2284	1.2398	11.9515	3.5043
1.1250	0.4585	5.7143	0.8998	0.2638	12.8513	3.7681
1.2500	0.4204	5.2167	3.9314	1.1527	16.7827	4.9208
1.3750	0.3856	4.7510	6.8608	2.0116	23.6435	6.9324
1.5000	0.3536	4.3163	4.3979	1.2895	28.0414	8.2219
1.6250	0.3242	3.9113	0.7555	0.2215	28.7969	8.4435
1.7500	0.2973	3.5349	6.6208	1.9412	35.4177	10.3847
1.8750	0.2726	3.1860	12.0130	3.5223	47.4306	13.9070
2.0000	0.2500	2.8634	6.2392	1.8294	53.6698	15.7364
2.1250	0.2293	2.5660	6.7011	1.9648	60.3709	17.7012
2.2500	0.2102	2.2927	16.4468	4.8223	76.8177	22.5235
2.3750	0.1928	2.0423	22.0169	6.4555	98.8346	28.9790
2.5000	0.1768	1.8137	39.7195	11.6460	138.5541	40.6250
2.6250	0.1621	1.6058	47.4165	13.9028	185.9707	54.5278
2.7500	0.1487	1.4175	42.8269	12.5571	228.7976	67.0850
2.8750	0.1363	1.2476	31.9572	9.3701	260.7547	76.4550
3.0000	0.1250	1.0949	24.2822	7.1197	285.0369	83.5747
3.1250	0.1146	0.9582	15.6729	4.5954	300.7098	88.1701
3.2500	0.1051	0.8364	9.1609	2.6860	309.8707	90.8561
3.3750	0.0964	0.7282	9.6184	2.8202	319.4890	93.6763
3.5000	0.0884	0.6326	6.9563	2.0396	326.4453	95.7159
3.6250	0.0811	0.5484	0.0000	0.0000	326.4453	95.7159
3.7500	0.0743	0.4744	4.6877	1.3745	331.1331	97.0904
3.8750	0.0682	0.4098	0.0000	0.0000	331.1331	97.0904
4.0000	0.0625	0.3533	5.9223	1.7365	337.0554	98.8269
4.1250	0.0573	0.3043	4.0011	1.1731	341.0564	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	341.0564	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	341.0564	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	341.0564	100.0000

* - fall velocity of natural grains in fresh water at 20oC



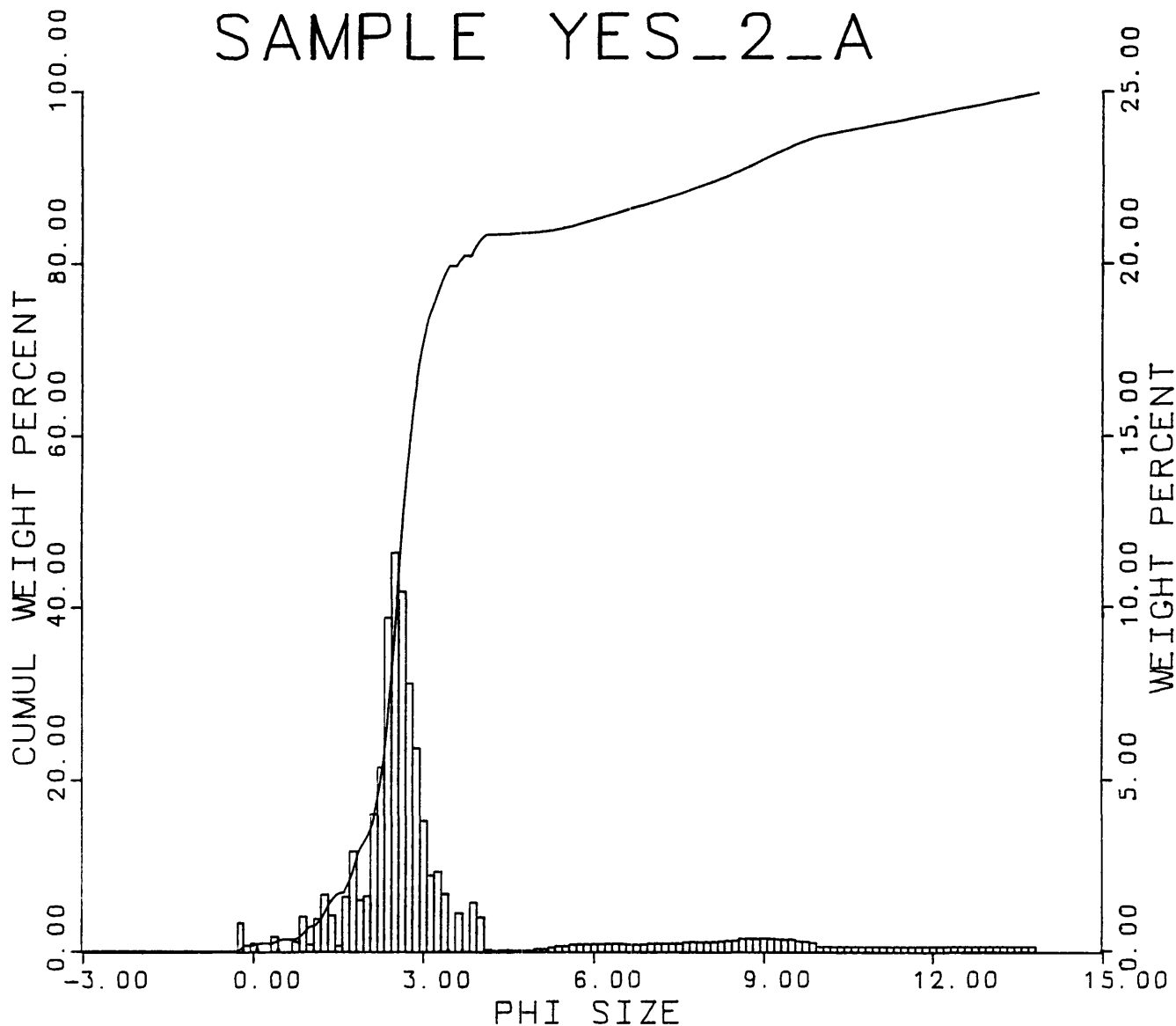
Coulter data

This data corresponds to file YES_2_A.3rd

9.0569	2.3813	0.2463	2.2246	M1	M2	M3	M4 (phi)
9.0899	8.8889	2.5478	0.1223	0.4118		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.5880%	is larger than	4.3033	phi.
1.0855%	is larger than	4.6367	phi.
1.6735%	is larger than	4.9700	phi.
3.2565%	is larger than	5.3033	phi.
6.2415%	is larger than	5.6367	phi.
10.0407%	is larger than	5.9700	phi.
13.9756%	is larger than	6.3033	phi.
18.0914%	is larger than	6.6367	phi.
21.7385%	is larger than	6.9700	phi.
25.8808%	is larger than	7.3033	phi.
30.1582%	is larger than	7.6367	phi.
35.0209%	is larger than	7.9700	phi.
39.8386%	is larger than	8.3033	phi.
45.1967%	is larger than	8.6367	phi.
51.5452%	is larger than	8.9700	phi.
57.9839%	is larger than	9.3033	phi.
63.8822%	is larger than	9.6367	phi.
68.8800%	is larger than	9.9700	phi.
71.4733%	is larger than	10.3033	phi.
74.0667%	is larger than	10.6367	phi.
76.6600%	is larger than	10.9700	phi.
79.2533%	is larger than	11.3033	phi.
81.8467%	is larger than	11.6367	phi.
84.4400%	is larger than	11.9700	phi.
87.0333%	is larger than	12.3033	phi.
89.6267%	is larger than	12.6367	phi.
92.2200%	is larger than	12.9700	phi.
94.8133%	is larger than	13.3033	phi.
97.4067%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_2_A



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 1.2
 SAND ——— 82.4
 V-COARSE SAND — 0.9
 COARSE SAND — 2.1
 MEDIUM SAND — 10.2
 FINE SAND — 56.6
 V-FINE SAND — 12.7
 SILT ——— 8.2
 CLAY ——— 8.2

Graphic Measures

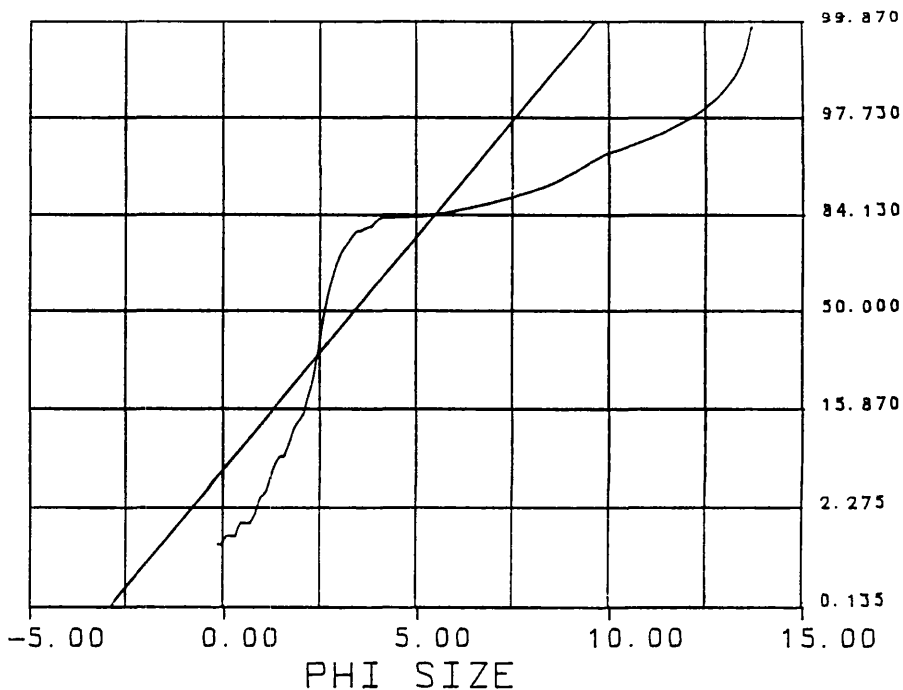
MEDIAN ——— 2.678
 MEAN ——— 3.363
 STD. DEVIATION— 2.088
 INC. SKEWNESS— 0.678
 INC. KURTOSIS— 1.602

Moment Measures

1st MOMENT ——— 3.388
 2nd MOMENT ——— 2.668
 3rd MOMENT ——— 2.072
 4th MOMENT ——— 6.386

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

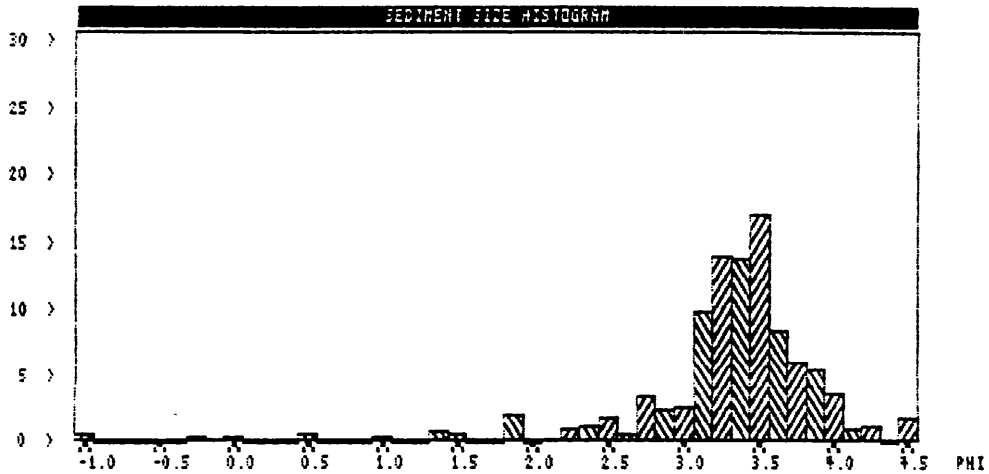
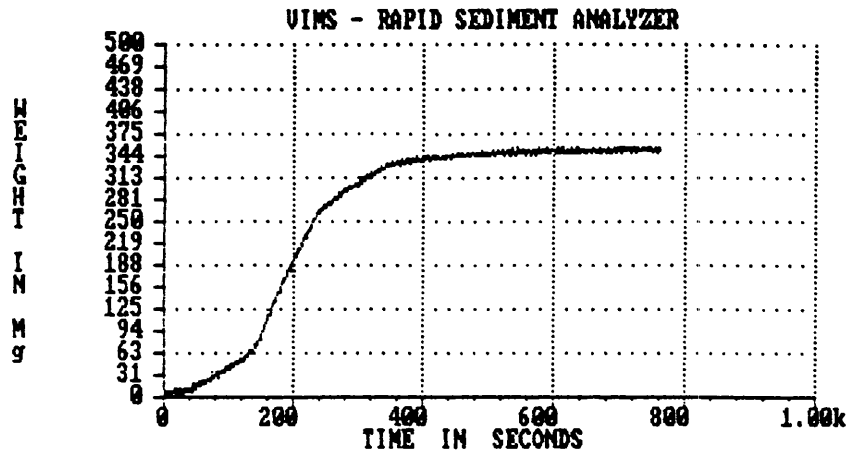
YES_2_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
572.7513 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
3.2008 0.7078 -2.6734 13.7620 M1 M2 M3 M4 (phi)
3.2909 3.3199 0.5229 -0.2532 0.3825 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.7208	0.4779	1.7208	0.4779
-0.8750	1.8340	18.9156	0.0000	0.0000	1.7208	0.4779
-0.7500	1.6818	17.7631	0.0000	0.0000	1.7208	0.4779
-0.6250	1.5422	16.6582	0.0000	0.0000	1.7208	0.4779
-0.5000	1.4142	15.6003	0.0000	0.0000	1.7208	0.4779
-0.3750	1.2968	14.5884	0.0000	0.0000	1.7208	0.4779
-0.2500	1.1892	13.6217	1.0934	0.3036	2.8142	0.7815
-0.1250	1.0905	12.6995	0.4333	0.1203	3.2475	0.9018
0.0000	1.0000	11.8208	1.3735	0.3814	4.6211	1.2832
0.1250	0.9170	10.9848	0.0000	0.0000	4.6211	1.2832
0.2500	0.8409	10.1905	0.0000	0.0000	4.6211	1.2832
0.3750	0.7711	9.4370	0.0000	0.0000	4.6211	1.2832
0.5000	0.7071	8.7233	2.3718	0.6586	6.9929	1.9418
0.6250	0.6484	8.0484	0.0000	0.0000	6.9929	1.9418
0.7500	0.5946	7.4111	0.0000	0.0000	6.9929	1.9418
0.8750	0.5453	6.8104	0.0000	0.0000	6.9929	1.9418
1.0000	0.5000	6.2452	1.4735	0.4092	8.4664	2.3510
1.1250	0.4585	5.7143	0.0000	0.0000	8.4664	2.3510
1.2500	0.4204	5.2167	0.0000	0.0000	8.4664	2.3510
1.3750	0.3856	4.7510	2.9172	0.8101	11.3835	3.1611
1.5000	0.3536	4.3163	1.7219	0.4781	13.1054	3.6392
1.6250	0.3242	3.9113	0.0000	0.0000	13.1054	3.6392
1.7500	0.2973	3.5349	0.0000	0.0000	13.1054	3.6392
1.8750	0.2726	3.1860	6.8577	1.9043	19.9631	5.5436
2.0000	0.2500	2.8634	0.0000	0.0000	19.9631	5.5436
2.1250	0.2293	2.5660	0.3092	0.0858	20.2723	5.6294
2.2500	0.2102	2.2927	3.7905	1.0526	24.0627	6.6820
2.3750	0.1928	2.0423	4.4550	1.2371	28.5177	7.9191
2.5000	0.1768	1.8137	6.5657	1.8232	35.0834	9.7423
2.6250	0.1621	1.6058	2.1557	0.5986	37.2391	10.3409
2.7500	0.1487	1.4175	12.0435	3.3443	49.2826	13.6853
2.8750	0.1363	1.2476	8.5291	2.3684	57.8117	16.0537
3.0000	0.1250	1.0949	9.2152	2.5590	67.0269	18.6127
3.1250	0.1146	0.9582	35.1527	9.7616	102.1796	28.3742
3.2500	0.1051	0.8364	50.1338	13.9216	152.3134	42.2959
3.3750	0.0964	0.7282	49.6072	13.7754	201.9206	56.0713
3.5000	0.0884	0.6326	60.6699	16.8474	262.5905	72.9187
3.6250	0.0811	0.5484	30.1870	8.3826	292.7775	81.3014
3.7500	0.0743	0.4744	21.8004	6.0538	314.5779	87.3551
3.8750	0.0682	0.4098	19.1408	5.3152	333.7187	92.6703
4.0000	0.0625	0.3533	12.9139	3.5861	346.6326	96.2564
4.1250	0.0573	0.3043	3.2606	0.9054	349.8932	97.1618
4.2500	0.0526	0.2617	4.0625	1.1281	353.9557	98.2899
4.3750	0.0482	0.2248	0.0000	0.0000	353.9557	98.2899
4.5000	0.0442	0.1930	6.1583	1.7101	360.1140	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_2_B



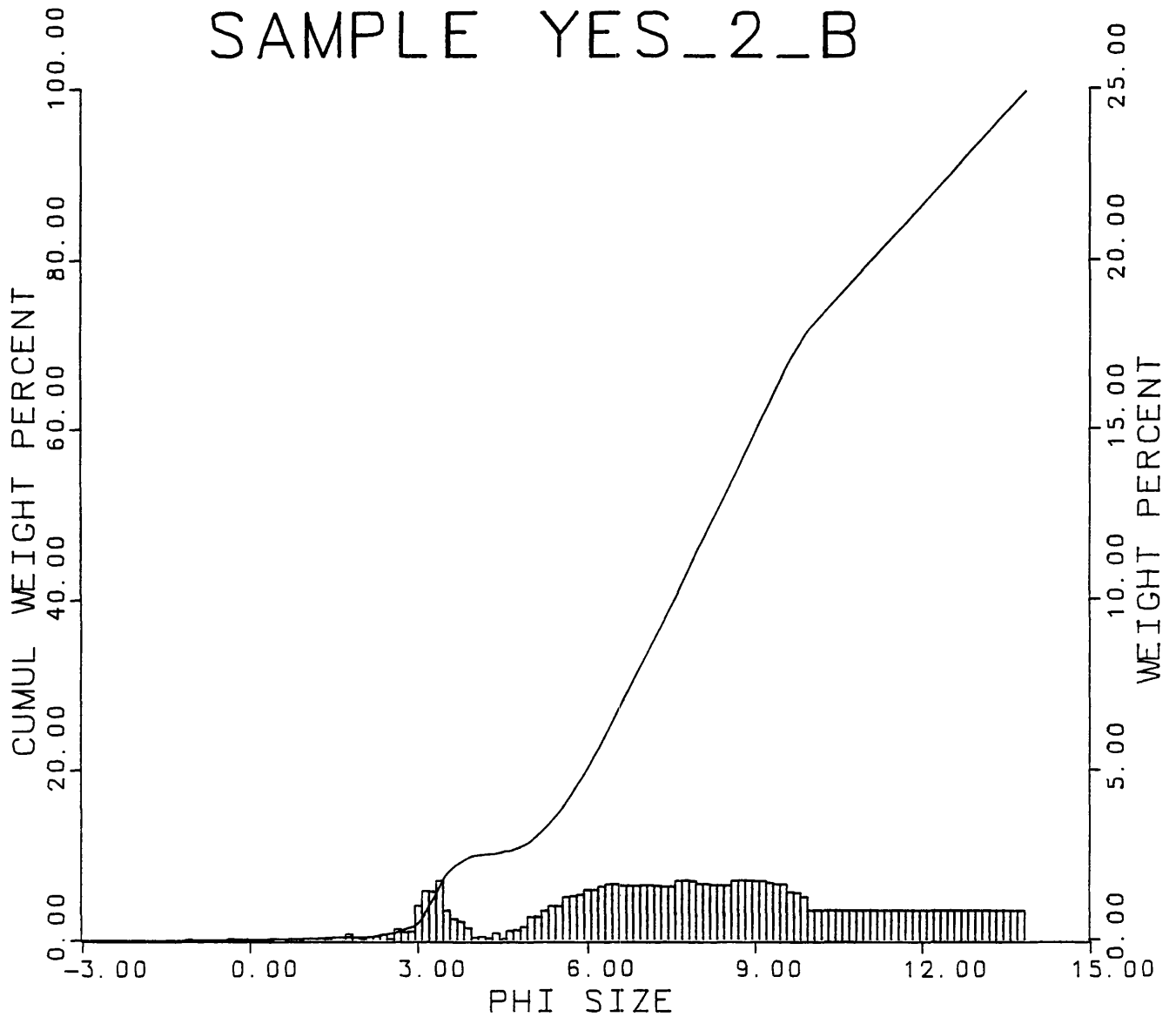
Coulter data

This data corresponds to file YES_2_B.3rd

9.0037	2.4199	0.3242	2.1002	M1	M2	M3	M4 (phi)
9.0390	8.7346	2.5754	0.1708	0.4034	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1467%	is larger than	4.6367	phi.
1.0761%	is larger than	4.9700	phi.
3.1304%	is larger than	5.3033	phi.
6.1140%	is larger than	5.6367	phi.
9.9781%	is larger than	5.9700	phi.
14.3802%	is larger than	6.3033	phi.
19.2714%	is larger than	6.6367	phi.
24.0104%	is larger than	6.9700	phi.
28.7963%	is larger than	7.3033	phi.
33.4884%	is larger than	7.6367	phi.
38.7435%	is larger than	7.9700	phi.
43.6702%	is larger than	8.3033	phi.
48.4561%	is larger than	8.6367	phi.
53.7112%	is larger than	8.9700	phi.
58.9194%	is larger than	9.3033	phi.
63.8461%	is larger than	9.6367	phi.
68.0221%	is larger than	9.9700	phi.
70.6869%	is larger than	10.3033	phi.
73.3517%	is larger than	10.6367	phi.
76.0165%	is larger than	10.9700	phi.
78.6814%	is larger than	11.3033	phi.
81.3462%	is larger than	11.6367	phi.
84.0110%	is larger than	11.9700	phi.
86.6759%	is larger than	12.3033	phi.
89.3407%	is larger than	12.6367	phi.
92.0055%	is larger than	12.9700	phi.
94.6703%	is larger than	13.3033	phi.
97.3352%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_2_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.2
 SAND _____ 10.4
 V-COARSE SAND - 0.1
 COARSE SAND _____ 0.1
 MEDIUM SAND _____ 0.3
 FINE SAND _____ 1.4
 V-FINE SAND _____ 8.4
 SILT _____ 43.4
 CLAY _____ 46.0

Graphic Measures

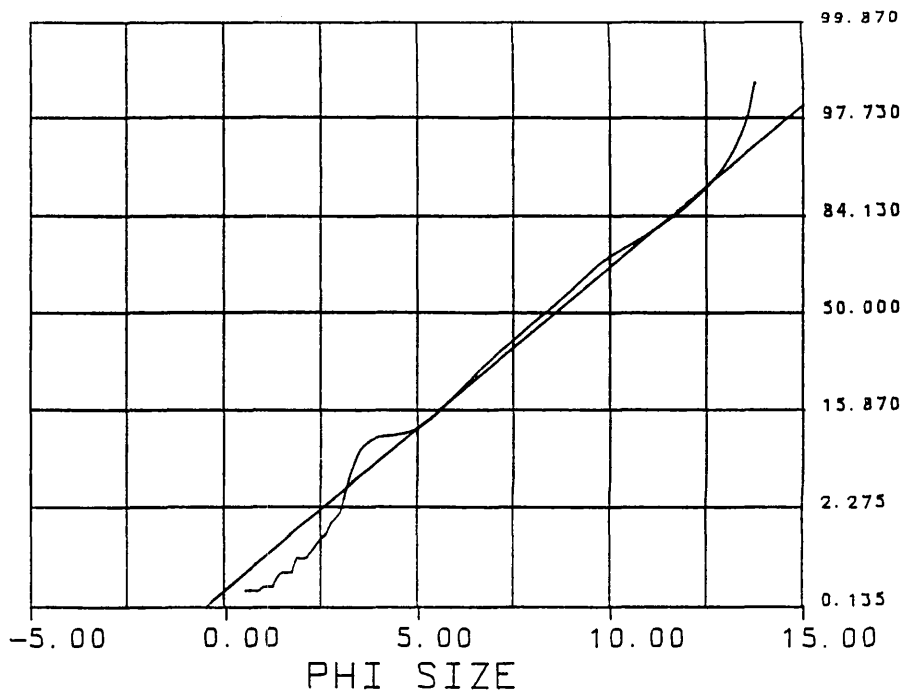
MEDIAN _____ 8.313
 MEAN _____ 8.534
 STD. DEVIATION- 3.003
 INC. SKEWNESS- 0.048
 INC. KURTOSIS- 0.521

Moment Measures

1st MOMENT _____ 8.361
 2nd MOMENT _____ 2.881
 3rd MOMENT _____ -0.081
 4th MOMENT _____ 2.437

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data

This data corresponds to file YES_2_C.3rd

9.1139	2.4741	0.2465	2.0028	M1	M2	M3	M4 (phi)
9.1444	8.8906	2.6384	0.1353	0.3950			Mz, Md, SI, SKI, KG

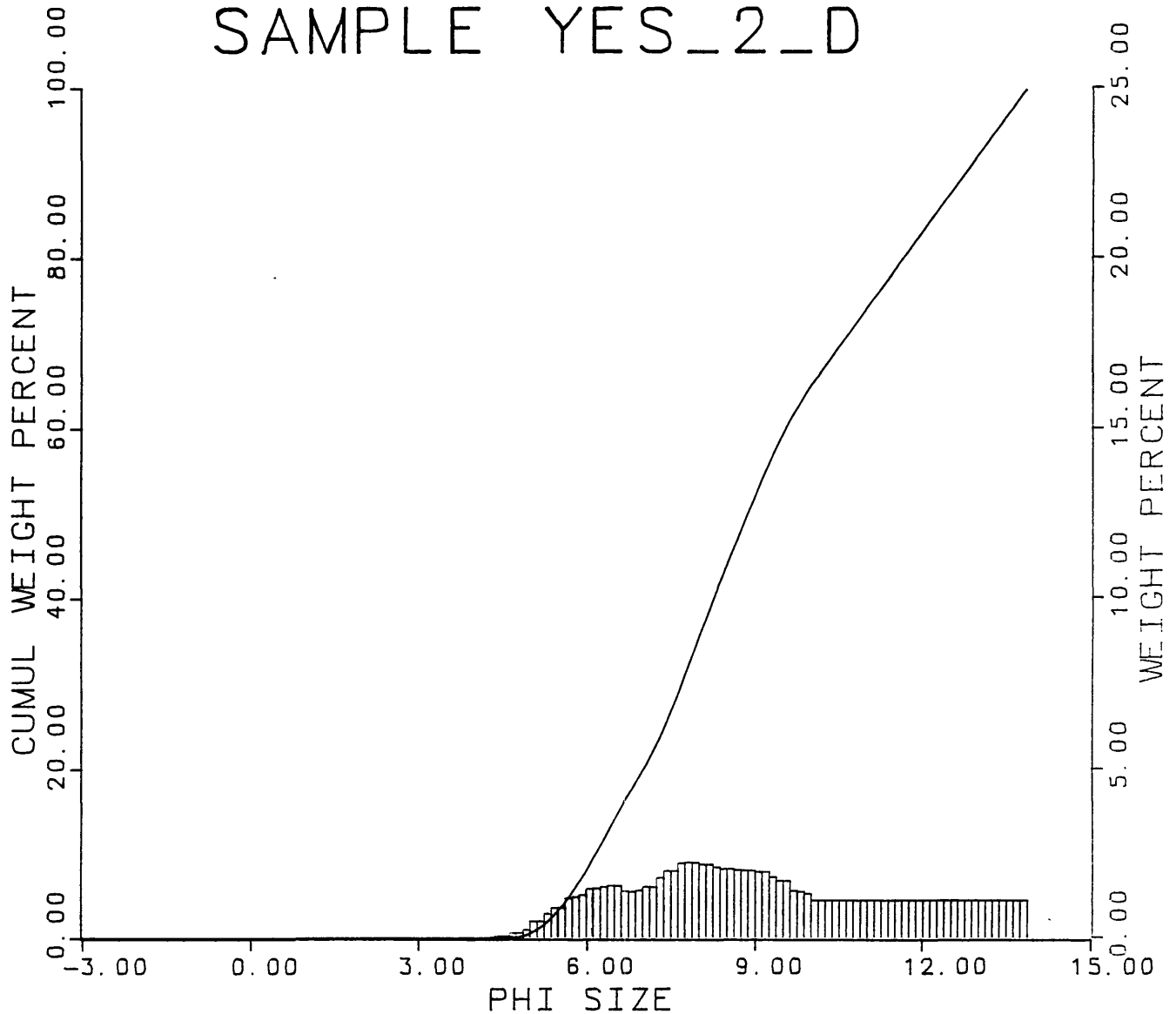
0.1378%	is larger than	3.9700	phi.
0.1378%	is larger than	4.3033	phi.
0.3675%	is larger than	4.6367	phi.
1.3322%	is larger than	4.9700	phi.
3.3074%	is larger than	5.3033	phi.
6.5689%	is larger than	5.6367	phi.
10.6573%	is larger than	5.9700	phi.
14.7915%	is larger than	6.3033	phi.
19.1555%	is larger than	6.6367	phi.
23.6251%	is larger than	6.9700	phi.
27.8857%	is larger than	7.3033	phi.
32.2300%	is larger than	7.6367	phi.
37.1590%	is larger than	7.9700	phi.
41.6285%	is larger than	8.3033	phi.
46.1816%	is larger than	8.6367	phi.
51.1942%	is larger than	8.9700	phi.
56.2067%	is larger than	9.3033	phi.
60.8851%	is larger than	9.6367	phi.
64.8952%	is larger than	9.9700	phi.
67.8206%	is larger than	10.3033	phi.
70.7460%	is larger than	10.6367	phi.
73.6714%	is larger than	10.9700	phi.
76.5968%	is larger than	11.3033	phi.
79.5222%	is larger than	11.6367	phi.
82.4476%	is larger than	11.9700	phi.
85.3730%	is larger than	12.3033	phi.
88.2984%	is larger than	12.6367	phi.
91.2238%	is larger than	12.9700	phi.
94.1492%	is larger than	13.3033	phi.
97.0746%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

Coulter data
This data corresponds to file YES_2_D.3rd

9.2472	2.3856	0.2611	2.0466	M1	M2	M3	M4 (phi)
9.2594	8.9143	2.5403	0.1786	0.3876	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0878%	is larger than	4.6367	phi.
0.5268%	is larger than	4.9700	phi.
1.8438%	is larger than	5.3033	phi.
4.2144%	is larger than	5.6367	phi.
7.4630%	is larger than	5.9700	phi.
11.3700%	is larger than	6.3033	phi.
15.4966%	is larger than	6.6367	phi.
19.1404%	is larger than	6.9700	phi.
23.1718%	is larger than	7.3033	phi.
28.4436%	is larger than	7.6367	phi.
34.3744%	is larger than	7.9700	phi.
40.1501%	is larger than	8.3033	phi.
45.5769%	is larger than	8.6367	phi.
50.8875%	is larger than	8.9700	phi.
56.0818%	is larger than	9.3033	phi.
60.5784%	is larger than	9.6367	phi.
64.2221%	is larger than	9.9700	phi.
67.2036%	is larger than	10.3033	phi.
70.1851%	is larger than	10.6367	phi.
73.1666%	is larger than	10.9700	phi.
76.1481%	is larger than	11.3033	phi.
79.1296%	is larger than	11.6367	phi.
82.1111%	is larger than	11.9700	phi.
85.0925%	is larger than	12.3033	phi.
88.0740%	is larger than	12.6367	phi.
91.0555%	is larger than	12.9700	phi.
94.0370%	is larger than	13.3033	phi.
97.0185%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_2_D



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 1.2
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 41.6
 CLAY _____ 57.2

Graphic Measures

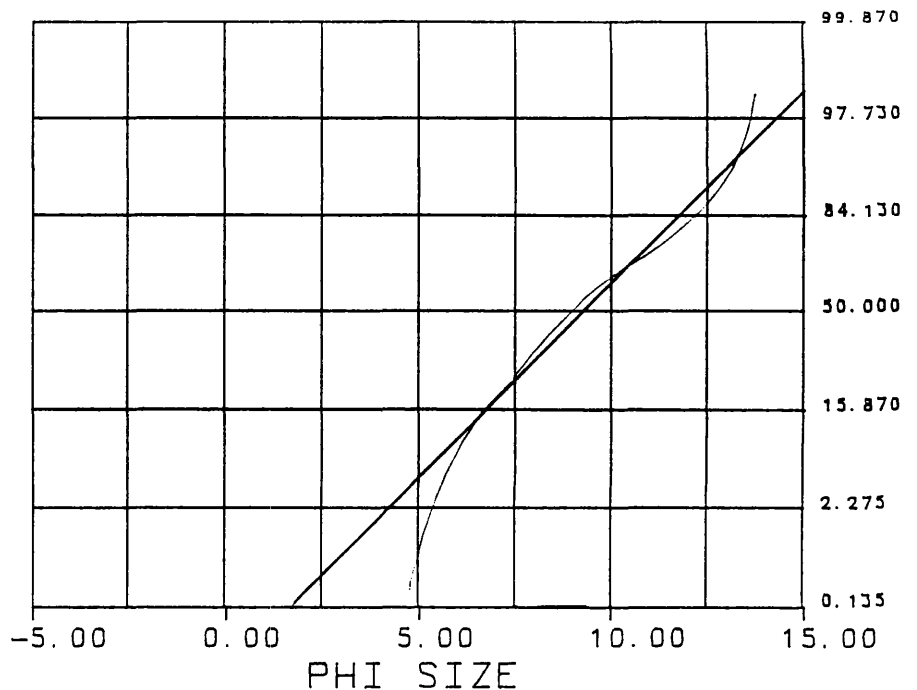
MEDIAN _____ 8.888
 MEAN _____ 9.220
 STD. DEVIATION- 2.510
 INC. SKEWNESS- 0.174
 INC. KURTOSIS- 0.387

Moment Measures

1st MOMENT _____ 9.207
 2nd MOMENT _____ 2.358
 3rd MOMENT _____ 0.256
 4th MOMENT _____ 2.056

DATE: 12-09-92

PROBABILITY CURVE



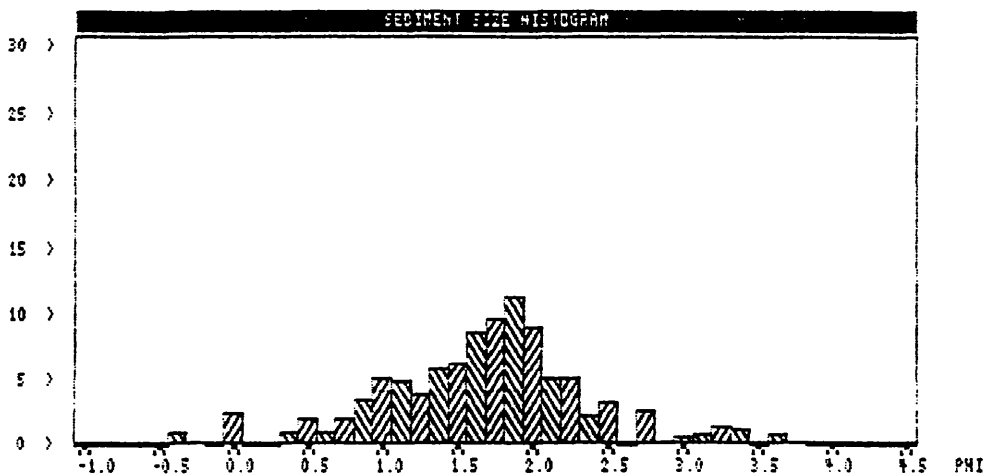
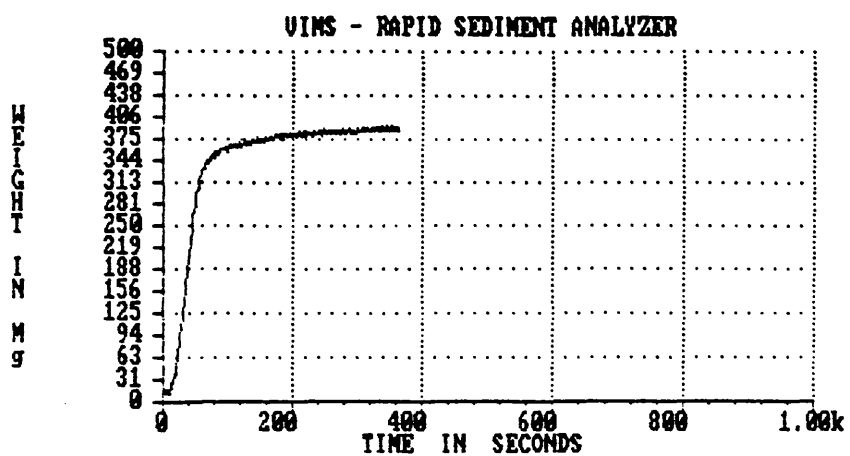
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_2_E

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
619.7624 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.6104 0.7092 -0.1002 3.8348 M1 M2 M3 M4 (phi)
1.5980 1.6641 0.6755 -0.1023 0.6754 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	3.6881	0.9825	3.6881	0.9825
-0.2500	1.1892	13.6217	0.9024	0.2404	4.5906	1.2229
-0.1250	1.0905	12.6995	0.0000	0.0000	4.5906	1.2229
0.0000	1.0000	11.8208	9.1097	2.4268	13.7003	3.6497
0.1250	0.9170	10.9848	0.0000	0.0000	13.7003	3.6497
0.2500	0.8409	10.1905	0.0000	0.0000	13.7003	3.6497
0.3750	0.7711	9.4370	3.9827	1.0610	17.6830	4.7107
0.5000	0.7071	8.7233	7.3981	1.9709	25.0812	6.6816
0.6250	0.6484	8.0484	3.3756	0.8993	28.4568	7.5809
0.7500	0.5946	7.4111	7.5484	2.0109	36.0052	9.5917
0.8750	0.5453	6.8104	12.5178	3.3347	48.5230	12.9265
1.0000	0.5000	6.2452	18.5623	4.9450	67.0852	17.8714
1.1250	0.4585	5.7143	17.8644	4.7590	84.9496	22.6305
1.2500	0.4204	5.2167	13.9142	3.7067	98.8637	26.3372
1.3750	0.3856	4.7510	21.8608	5.8237	120.7245	32.1609
1.5000	0.3536	4.3163	23.2851	6.2031	144.0096	38.3640
1.6250	0.3242	3.9113	32.4623	8.6479	176.4718	47.0119
1.7500	0.2973	3.5349	35.8653	9.5545	212.3371	56.5663
1.8750	0.2726	3.1860	42.3060	11.2703	254.6431	67.8366
2.0000	0.2500	2.8634	34.2903	9.1349	288.9334	76.9715
2.1250	0.2293	2.5660	18.6731	4.9745	307.6065	81.9460
2.2500	0.2102	2.2927	18.4677	4.9198	326.0742	86.8657
2.3750	0.1928	2.0423	7.9752	2.1246	334.0495	88.9903
2.5000	0.1768	1.8137	12.1725	3.2427	346.2220	92.2331
2.6250	0.1621	1.6058	0.0000	0.0000	346.2220	92.2331
2.7500	0.1487	1.4175	9.7836	2.6063	356.0055	94.8394
2.8750	0.1363	1.2476	0.9297	0.2477	356.9352	95.0871
3.0000	0.1250	1.0949	1.8832	0.5017	358.8184	95.5887
3.1250	0.1146	0.9582	3.0186	0.8041	361.8369	96.3929
3.2500	0.1051	0.8364	5.4539	1.4529	367.2909	97.8458
3.3750	0.0964	0.7282	4.6520	1.2393	371.9429	99.0851
3.5000	0.0884	0.6326	0.0000	0.0000	371.9429	99.0851
3.6250	0.0811	0.5484	3.0209	0.8048	374.9638	99.8899
3.7500	0.0743	0.4744	0.4134	0.1101	375.3772	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	375.3772	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	375.3772	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	375.3772	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	375.3772	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	375.3772	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	375.3772	100.0000

* - fall velocity of natural grains in fresh water at 20oC



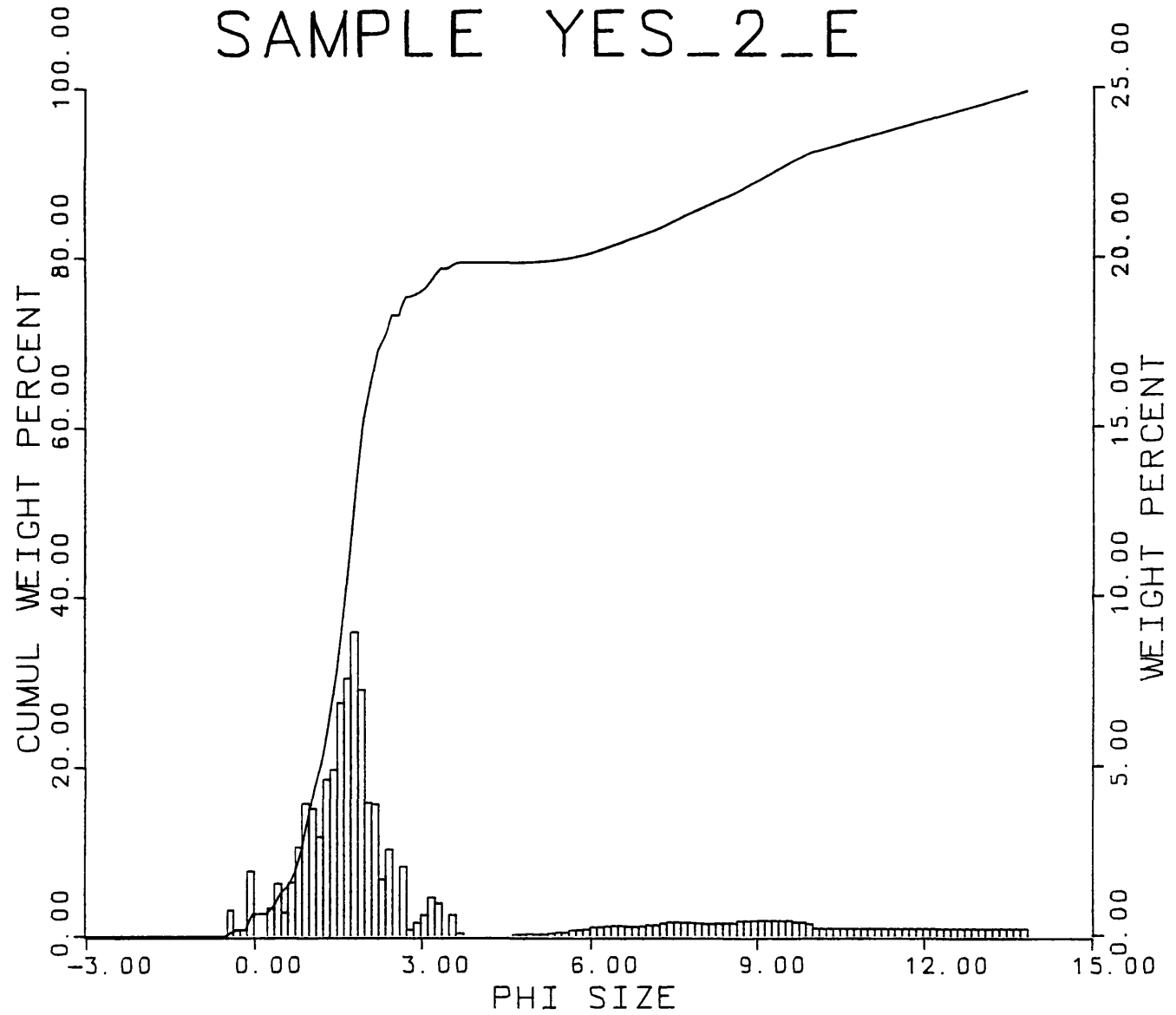
Coulter data

This data corresponds to file YES_2_E.3rd

9.4046	2.3015	0.2278	2.0887	M1	M2	M3	M4 (phi)
9.4472	9.1741	2.4433	0.1474	0.3769			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.2804%	is larger than	4.9700	phi.
1.1216%	is larger than	5.3033	phi.
2.6438%	is larger than	5.6367	phi.
5.0473%	is larger than	5.9700	phi.
8.5324%	is larger than	6.3033	phi.
12.4982%	is larger than	6.6367	phi.
16.1447%	is larger than	6.9700	phi.
20.3382%	is larger than	7.3033	phi.
25.6986%	is larger than	7.6367	phi.
30.8038%	is larger than	7.9700	phi.
35.5443%	is larger than	8.3033	phi.
40.4671%	is larger than	8.6367	phi.
46.3380%	is larger than	8.9700	phi.
52.3193%	is larger than	9.3033	phi.
58.2986%	is larger than	9.6367	phi.
63.6226%	is larger than	9.9700	phi.
66.6540%	is larger than	10.3033	phi.
69.6855%	is larger than	10.6367	phi.
72.7169%	is larger than	10.9700	phi.
75.7484%	is larger than	11.3033	phi.
78.7798%	is larger than	11.6367	phi.
81.8113%	is larger than	11.9700	phi.
84.8427%	is larger than	12.3033	phi.
87.8742%	is larger than	12.6367	phi.
90.9056%	is larger than	12.9700	phi.
93.9371%	is larger than	13.3033	phi.
96.9685%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_2_E



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 1.3
 SAND _____ 78.5
 V-COARSE SAND - 2.9
 COARSE SAND _____ 11.2
 MEDIUM SAND _____ 46.4
 FINE SAND _____ 14.6
 V-FINE SAND _____ 3.5
 SILT _____ 8.3
 CLAY _____ 11.9

Graphic Measures

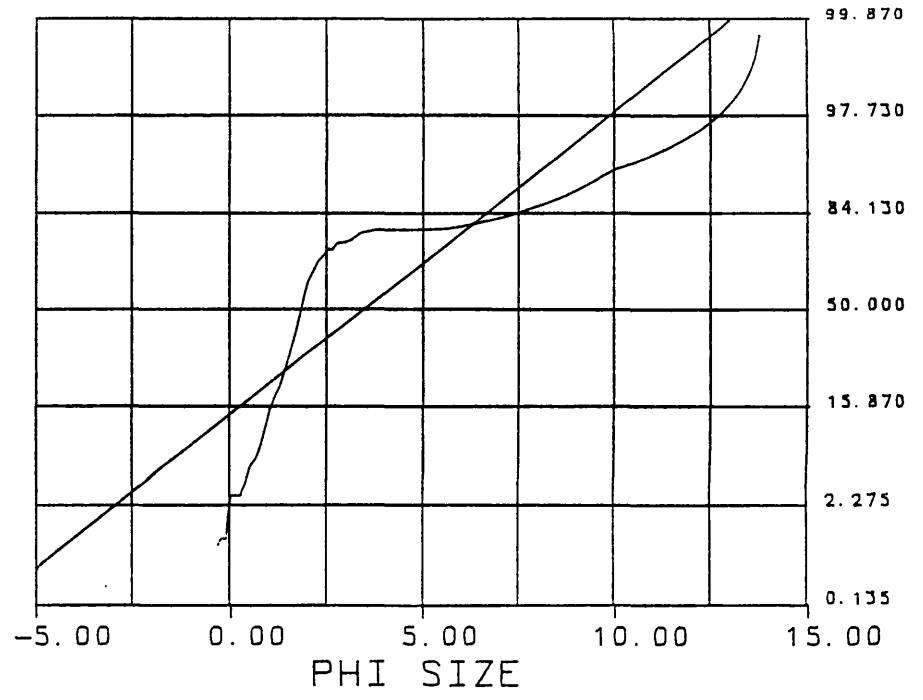
MEDIAN _____ 1.819
 MEAN _____ 3.408
 STD. DEVIATION- 3.197
 INC. SKEWNESS- 0.754
 INC. KURTOSIS- 2.034

Moment Measures

1st MOMENT _____ 3.187
 2nd MOMENT _____ 3.345
 3rd MOMENT _____ 1.681
 4th MOMENT _____ 4.578

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

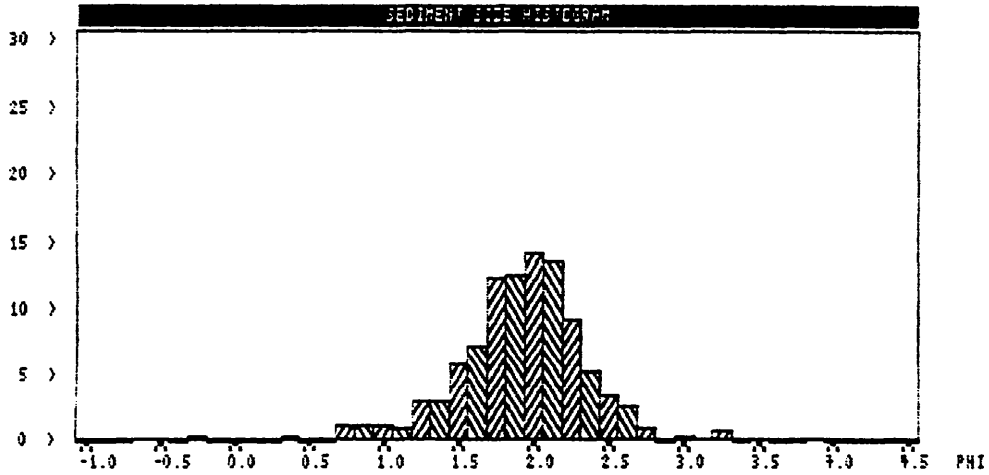
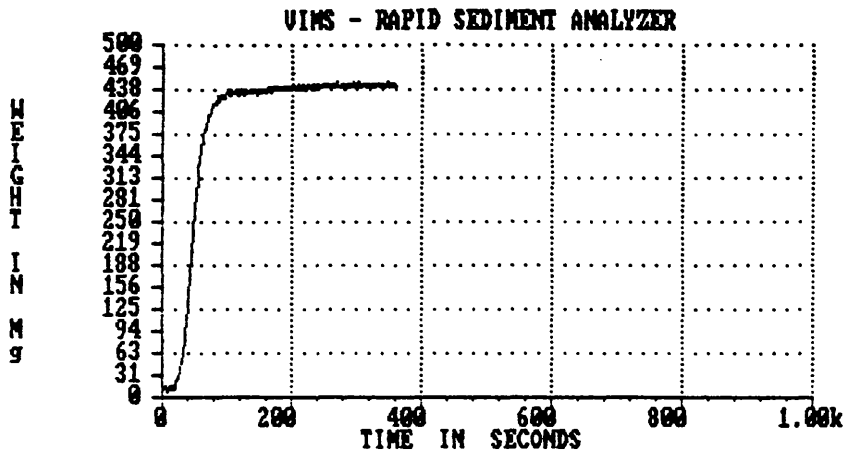
YES_2_F

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
708.2999 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{*0.913}$
1.8395 0.4767 -0.9441 7.7014 M1 M2 M3 M4 (phi)
1.8560 1.8797 0.4097 -0.1192 0.4186 Mz,Md,SI,SKI,KG

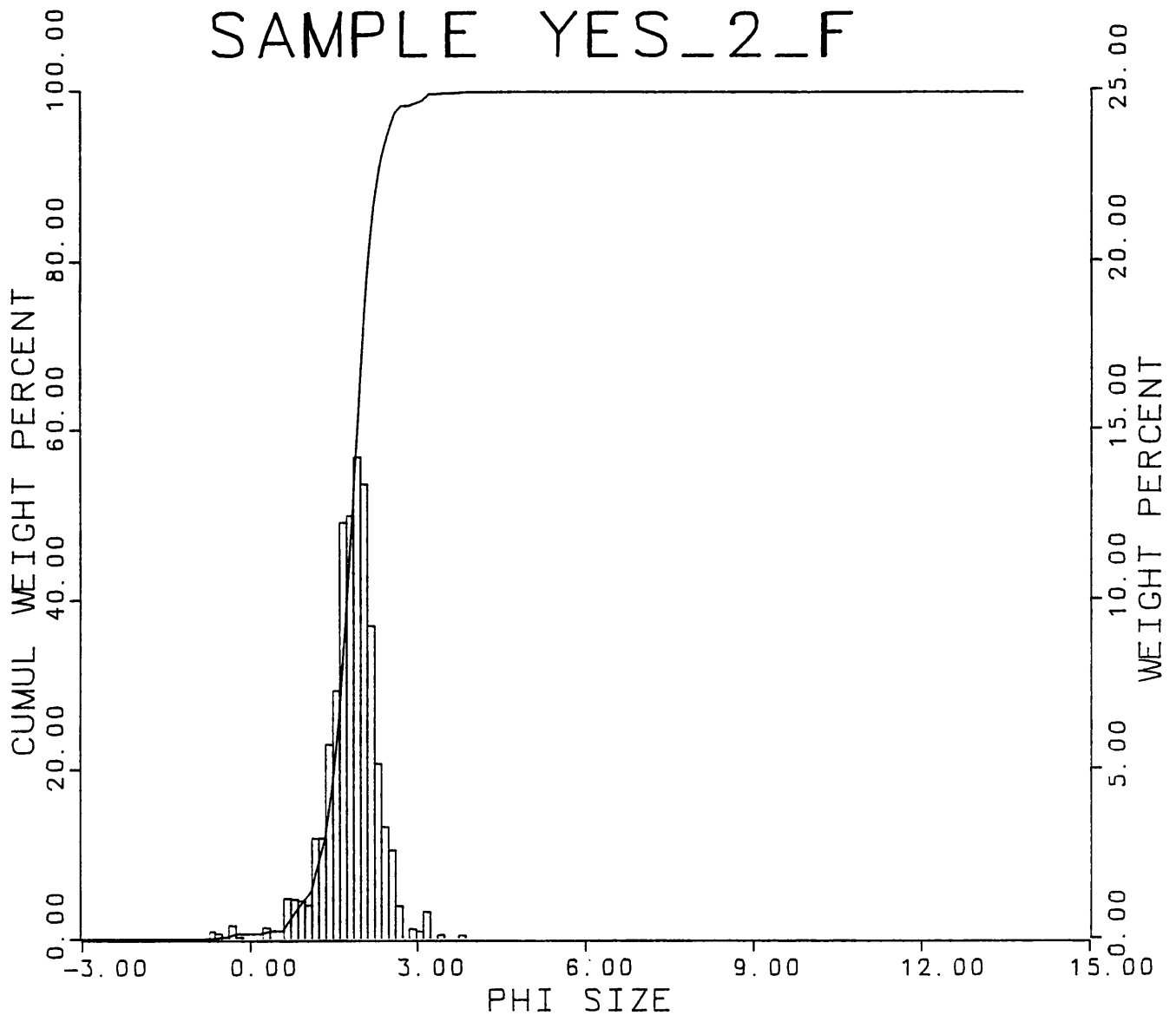
Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	1.0254	0.2362	1.0254	0.2362
-0.5000	1.4142	15.6003	0.7322	0.1686	1.7576	0.4048
-0.3750	1.2968	14.5884	0.0000	0.0000	1.7576	0.4048
-0.2500	1.1892	13.6217	1.7491	0.4028	3.5067	0.8076
-0.1250	1.0905	12.6995	0.0849	0.0195	3.5915	0.8272
0.0000	1.0000	11.8208	0.0000	0.0000	3.5915	0.8272
0.1250	0.9170	10.9848	0.0000	0.0000	3.5915	0.8272
0.2500	0.8409	10.1905	0.0000	0.0000	3.5915	0.8272
0.3750	0.7711	9.4370	1.4679	0.3381	5.0594	1.1652
0.5000	0.7071	8.7233	0.0000	0.0000	5.0594	1.1652
0.6250	0.6484	8.0484	0.0000	0.0000	5.0594	1.1652
0.7500	0.5946	7.4111	5.2212	1.2025	10.2806	2.3677
0.8750	0.5453	6.8104	5.1311	1.1817	15.4117	3.5495
1.0000	0.5000	6.2452	4.9250	1.1343	20.3367	4.6837
1.1250	0.4585	5.7143	4.3413	0.9998	24.6780	5.6836
1.2500	0.4204	5.2167	12.9091	2.9731	37.5870	8.6566
1.3750	0.3856	4.7510	12.9045	2.9720	50.4915	11.6286
1.5000	0.3536	4.3163	24.9496	5.7461	75.4411	17.3748
1.6250	0.3242	3.9113	31.8289	7.3305	107.2700	24.7052
1.7500	0.2973	3.5349	53.3483	12.2866	160.6183	36.9918
1.8750	0.2726	3.1860	54.1817	12.4785	214.7999	49.4703
2.0000	0.2500	2.8634	61.6500	14.1985	276.4499	63.6689
2.1250	0.2293	2.5660	58.2792	13.4222	334.7291	77.0911
2.2500	0.2102	2.2927	40.1536	9.2477	374.8827	86.3388
2.3750	0.1928	2.0423	22.4413	5.1684	397.3240	91.5073
2.5000	0.1768	1.8137	14.3821	3.3123	411.7062	94.8196
2.6250	0.1621	1.6058	11.4188	2.6299	423.1249	97.4494
2.7500	0.1487	1.4175	4.2369	0.9758	427.3619	98.4252
2.8750	0.1363	1.2476	0.0000	0.0000	427.3619	98.4252
3.0000	0.1250	1.0949	1.3277	0.3058	428.6895	98.7310
3.1250	0.1146	0.9582	1.0046	0.2314	429.6942	98.9624
3.2500	0.1051	0.8364	3.4922	0.8043	433.1863	99.7667
3.3750	0.0964	0.7282	0.0000	0.0000	433.1863	99.7667
3.5000	0.0884	0.6326	0.5190	0.1195	433.7054	99.8862
3.6250	0.0811	0.5484	0.0000	0.0000	433.7054	99.8862
3.7500	0.0743	0.4744	0.0000	0.0000	433.7054	99.8862
3.8750	0.0682	0.4098	0.4941	0.1138	434.1995	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	434.1995	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	434.1995	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	434.1995	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	434.1995	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	434.1995	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_2_F



SAMPLE YES_2_F



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 0.0
 SAND ——— 98.2
 V-COARSE SAND — 0.8
 COARSE SAND — 3.8
 MEDIUM SAND — 57.9
 FINE SAND — 34.4
 V-FINE SAND — 1.2
 SILT ——— 0.4
 CLAY ——— 1.4

Graphic Measures

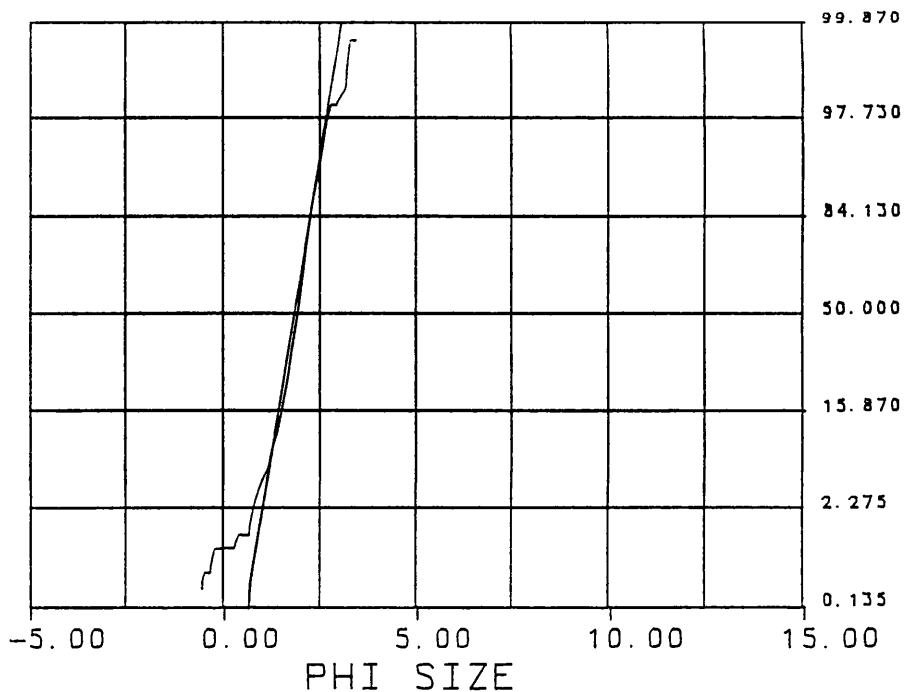
MEDIAN ——— 1.880
 MEAN ——— 1.856
 STD. DEVIATION — 0.410
 INC. SKEWNESS — -0.119
 INC. KURTOSIS — 0.419

Moment Measures

1st MOMENT ——— 1.839
 2nd MOMENT ——— 0.477
 3rd MOMENT ——— -0.944
 4th MOMENT ——— 7.701

DATE: 12-09-92

PROBABILITY CURVE



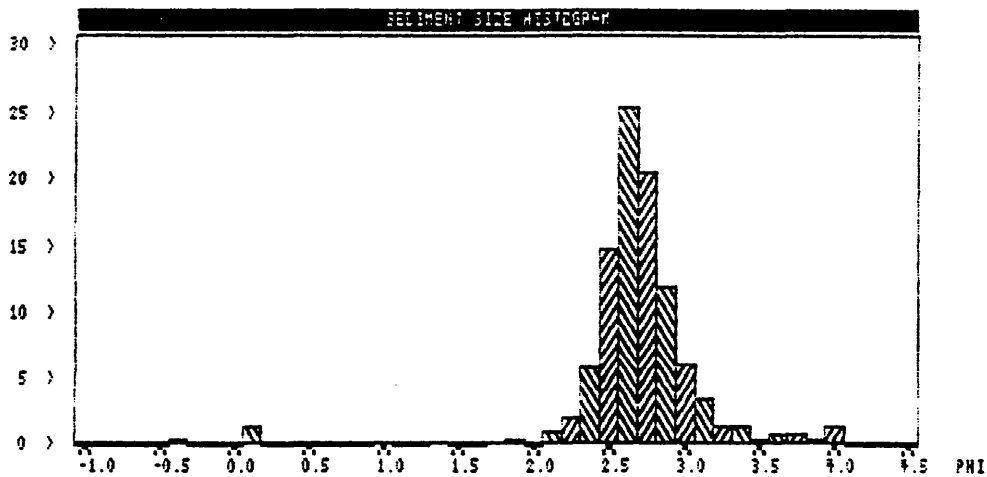
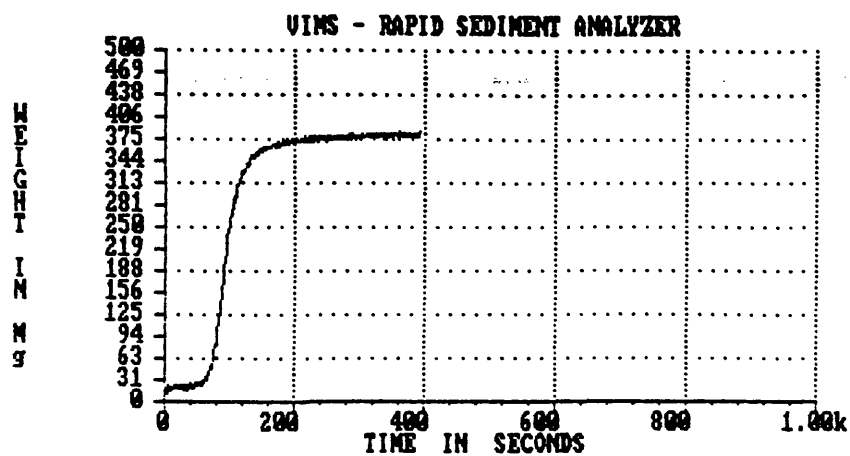
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_3_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
618.5871 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.6132 0.4964 -2.6453 18.3610 M1 M2 M3 M4 (phi)
2.6335 2.6161 0.2782 0.1570 0.2494 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.1201	0.0320	0.1201	0.0320
-0.3750	1.2968	14.5884	1.6644	0.4441	1.7845	0.4762
-0.2500	1.1892	13.6217	0.0000	0.0000	1.7845	0.4762
-0.1250	1.0905	12.6995	0.0000	0.0000	1.7845	0.4762
0.0000	1.0000	11.8208	0.0000	0.0000	1.7845	0.4762
0.1250	0.9170	10.9848	5.2254	1.3944	7.0098	1.8706
0.2500	0.8409	10.1905	0.0000	0.0000	7.0098	1.8706
0.3750	0.7711	9.4370	0.0000	0.0000	7.0098	1.8706
0.5000	0.7071	8.7233	0.0000	0.0000	7.0098	1.8706
0.6250	0.6484	8.0484	0.0000	0.0000	7.0098	1.8706
0.7500	0.5946	7.4111	0.0000	0.0000	7.0098	1.8706
0.8750	0.5453	6.8104	0.0000	0.0000	7.0098	1.8706
1.0000	0.5000	6.2452	0.9057	0.2417	7.9155	2.1123
1.1250	0.4585	5.7143	0.0000	0.0000	7.9155	2.1123
1.2500	0.4204	5.2167	0.0000	0.0000	7.9155	2.1123
1.3750	0.3856	4.7510	0.9072	0.2421	8.8227	2.3543
1.5000	0.3536	4.3163	0.0000	0.0000	8.8227	2.3543
1.6250	0.3242	3.9113	0.0000	0.0000	8.8227	2.3543
1.7500	0.2973	3.5349	0.8196	0.2187	9.6423	2.5730
1.8750	0.2726	3.1860	1.6003	0.4270	11.2426	3.0001
2.0000	0.2500	2.8634	0.0000	0.0000	11.2426	3.0001
2.1250	0.2293	2.5660	3.8981	1.0402	15.1407	4.0403
2.2500	0.2102	2.2927	7.0824	1.8899	22.2231	5.9302
2.3750	0.1928	2.0423	22.1180	5.9022	44.3411	11.8324
2.5000	0.1768	1.8137	55.1507	14.7169	99.4919	26.5493
2.6250	0.1621	1.6058	94.5867	25.2403	194.0785	51.7896
2.7500	0.1487	1.4175	76.4329	20.3960	270.5114	72.1856
2.8750	0.1363	1.2476	44.6363	11.9111	315.1477	84.0968
3.0000	0.1250	1.0949	22.5762	6.0244	337.7238	90.1212
3.1250	0.1146	0.9582	13.0390	3.4794	350.7629	93.6006
3.2500	0.1051	0.8364	4.8229	1.2870	355.5858	94.8876
3.3750	0.0964	0.7282	5.3519	1.4281	360.9377	96.3158
3.5000	0.0884	0.6326	1.4628	0.3903	362.4005	96.7061
3.6250	0.0811	0.5484	2.9927	0.7986	365.3932	97.5047
3.7500	0.0743	0.4744	2.8824	0.7692	368.2756	98.2739
3.8750	0.0682	0.4098	1.0836	0.2891	369.3592	98.5630
4.0000	0.0625	0.3533	5.3849	1.4370	374.7441	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	374.7441	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	374.7441	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	374.7441	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	374.7441	100.0000

* - fall velocity of natural grains in fresh water at 20oC



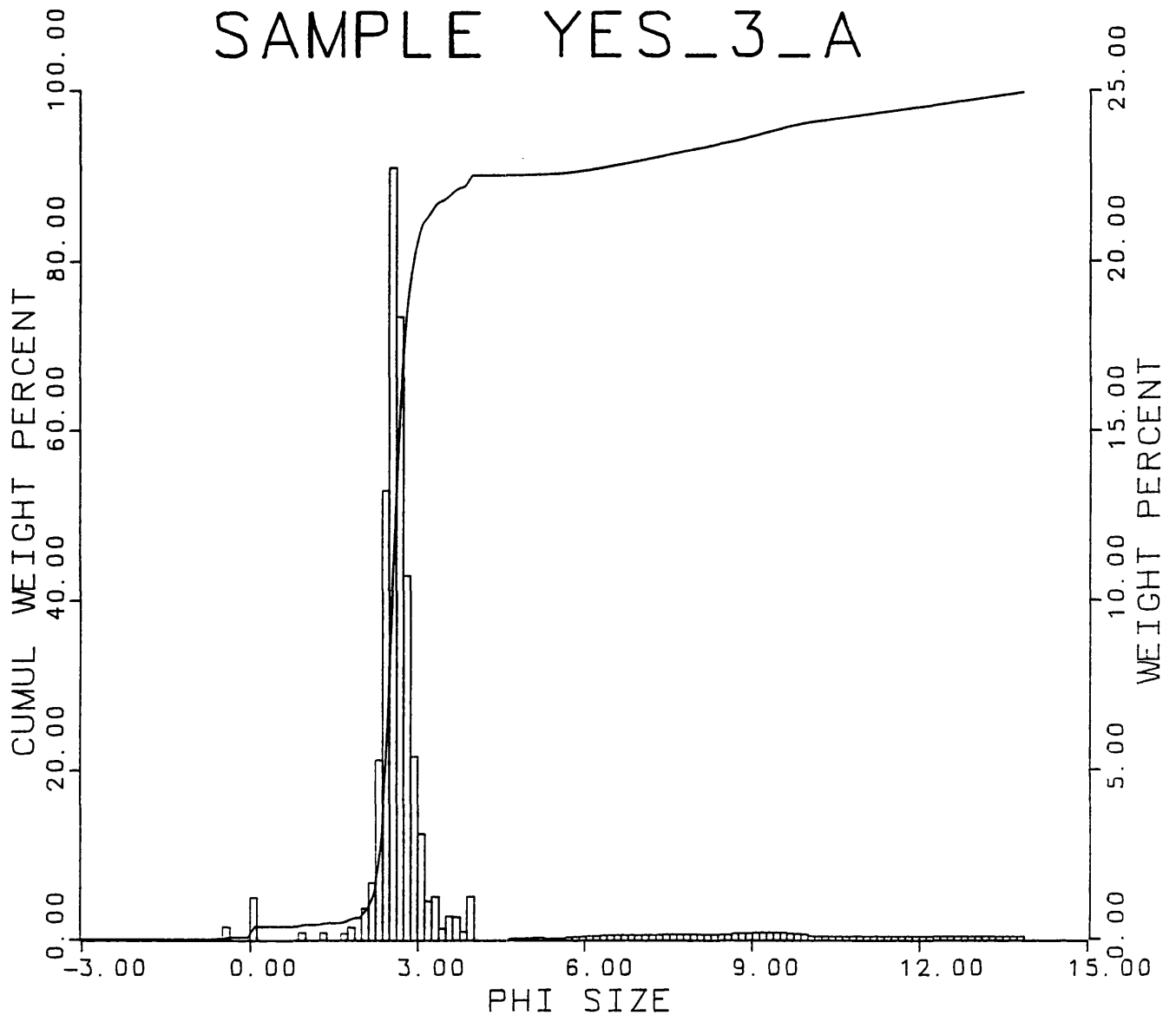
Coulter data

This data corresponds to file YES_3_A.3rd

9.4263	2.3447	0.1846	2.0304	M1	M2	M3	M4 (phi)
9.4536	9.2267	2.4961	0.1216	0.3755		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700 phi.
0.0000%	is larger than	4.3033 phi.
0.0000%	is larger than	4.6367 phi.
0.4036%	is larger than	4.9700 phi.
1.2914%	is larger than	5.3033 phi.
2.8652%	is larger than	5.6367 phi.
5.5690%	is larger than	5.9700 phi.
9.1203%	is larger than	6.3033 phi.
13.2366%	is larger than	6.6367 phi.
17.3651%	is larger than	6.9700 phi.
21.6423%	is larger than	7.3033 phi.
26.3287%	is larger than	7.6367 phi.
31.0894%	is larger than	7.9700 phi.
35.5155%	is larger than	8.3033 phi.
39.9787%	is larger than	8.6367 phi.
45.4461%	is larger than	8.9700 phi.
51.3599%	is larger than	9.3033 phi.
57.2364%	is larger than	9.6367 phi.
62.2576%	is larger than	9.9700 phi.
65.4028%	is larger than	10.3033 phi.
68.5480%	is larger than	10.6367 phi.
71.6932%	is larger than	10.9700 phi.
74.8384%	is larger than	11.3033 phi.
77.9836%	is larger than	11.6367 phi.
81.1288%	is larger than	11.9700 phi.
84.2740%	is larger than	12.3033 phi.
87.4192%	is larger than	12.6367 phi.
90.5644%	is larger than	12.9700 phi.
93.7096%	is larger than	13.3033 phi.
96.8548%	is larger than	13.6367 phi.
100.0000%	is larger than	13.9700 phi.

SAMPLE YES_3_A



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 0.7
 SAND ——— 89.5
 V-COARSE SAND — 0.4
 COARSE SAND — 1.5
 MEDIUM SAND — 0.8
 FINE SAND — 78.0
 V-FINE SAND — 8.8
 SILT ——— 3.8
 CLAY ——— 6.0

Graphic Measures

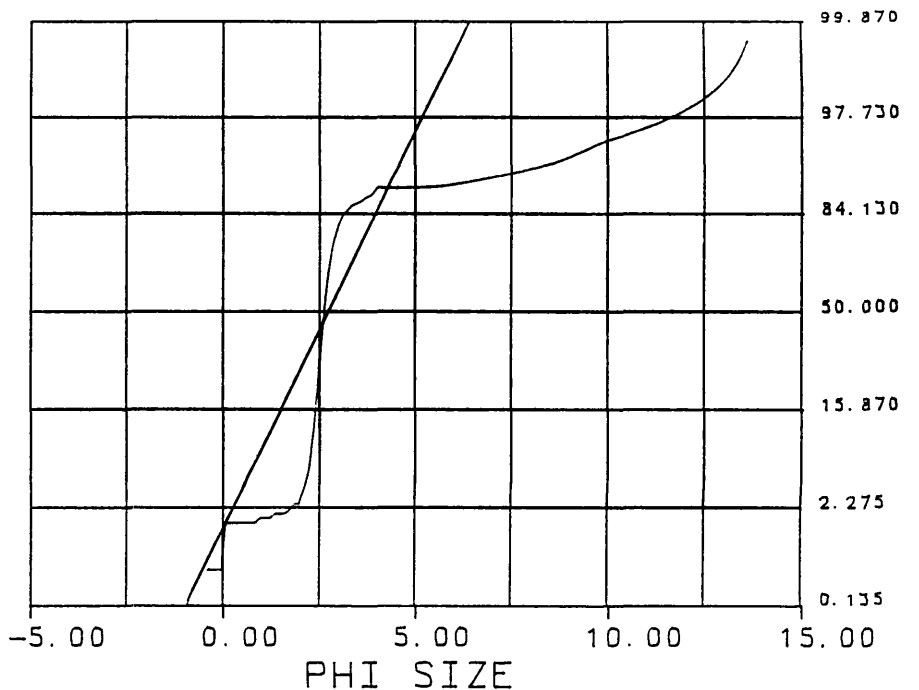
MEDIAN ——— 2.647
 MEAN ——— 2.727
 STD. DEVIATION — 1.219
 INC. SKEWNESS — 0.613
 INC. KURTOSIS — 1.542

Moment Measures

1st MOMENT ——— 3.276
 2nd MOMENT ——— 2.190
 3rd MOMENT ——— 2.967
 4th MOMENT ——— 11.630

DATE: 12-09-92

PROBABILITY CURVE



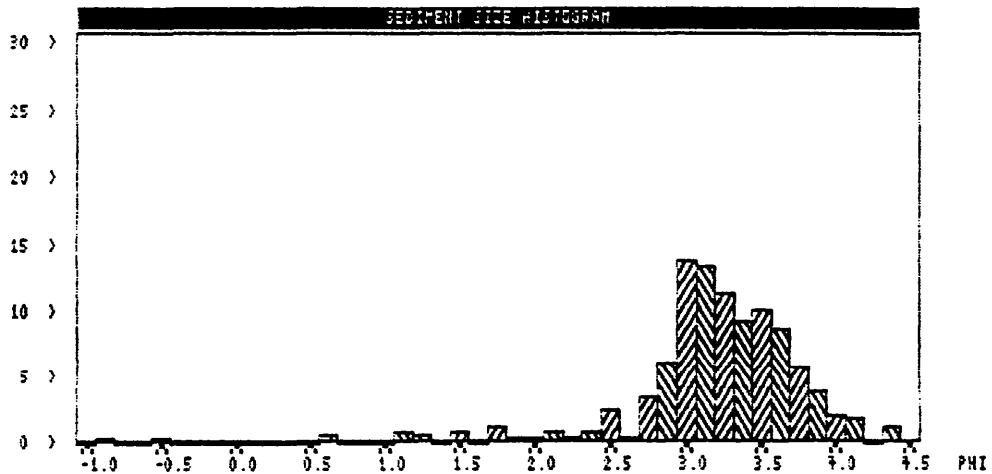
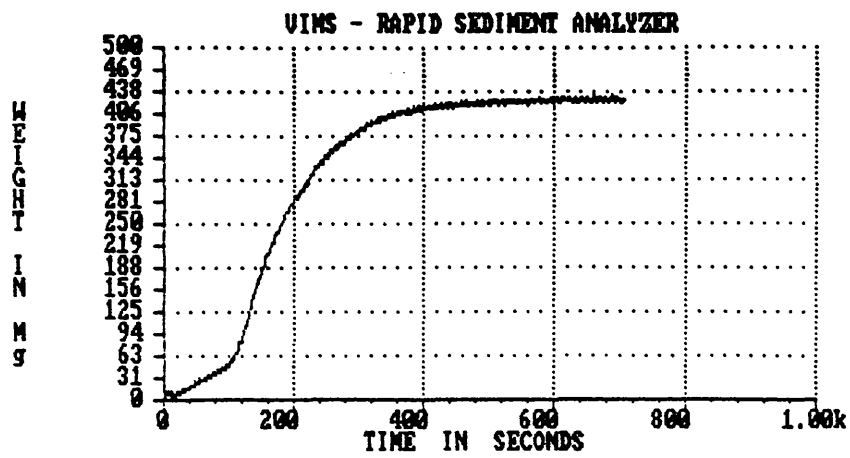
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_3_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
684.7943 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
3.1135 0.6389 -2.4007 13.2761 M1 M2 M3 M4 (phi)
3.1915 3.1656 0.4896 -0.0841 0.3455 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.3515	0.3174	1.3515	0.3174
-0.7500	1.6818	17.7631	0.0000	0.0000	1.3515	0.3174
-0.6250	1.5422	16.6582	0.0000	0.0000	1.3515	0.3174
-0.5000	1.4142	15.6003	1.6291	0.3826	2.9805	0.7001
-0.3750	1.2968	14.5884	0.0000	0.0000	2.9805	0.7001
-0.2500	1.1892	13.6217	0.0000	0.0000	2.9805	0.7001
-0.1250	1.0905	12.6995	0.0000	0.0000	2.9805	0.7001
0.0000	1.0000	11.8208	0.0000	0.0000	2.9805	0.7001
0.1250	0.9170	10.9848	0.0000	0.0000	2.9805	0.7001
0.2500	0.8409	10.1905	0.0000	0.0000	2.9805	0.7001
0.3750	0.7711	9.4370	0.0000	0.0000	2.9805	0.7001
0.5000	0.7071	8.7233	0.0000	0.0000	2.9805	0.7001
0.6250	0.6484	8.0484	2.3816	0.5594	5.3622	1.2595
0.7500	0.5946	7.4111	0.0000	0.0000	5.3622	1.2595
0.8750	0.5453	6.8104	0.0000	0.0000	5.3622	1.2595
1.0000	0.5000	6.2452	0.0000	0.0000	5.3622	1.2595
1.1250	0.4585	5.7143	3.1215	0.7332	8.4837	1.9926
1.2500	0.4204	5.2167	2.5550	0.6001	11.0386	2.5927
1.3750	0.3856	4.7510	0.0000	0.0000	11.0386	2.5927
1.5000	0.3536	4.3163	2.8906	0.6789	13.9293	3.2717
1.6250	0.3242	3.9113	0.0000	0.0000	13.9293	3.2717
1.7500	0.2973	3.5349	4.8948	1.1497	18.8240	4.4214
1.8750	0.2726	3.1860	1.5002	0.3524	20.3242	4.7737
2.0000	0.2500	2.8634	1.5829	0.3718	21.9071	5.1455
2.1250	0.2293	2.5660	3.3436	0.7853	25.2508	5.9309
2.2500	0.2102	2.2927	1.8101	0.4252	27.0609	6.3560
2.3750	0.1928	2.0423	3.1670	0.7439	30.2279	7.0999
2.5000	0.1768	1.8137	10.4457	2.4535	40.6736	9.5534
2.6250	0.1621	1.6058	1.2552	0.2948	41.9288	9.8482
2.7500	0.1487	1.4175	14.5776	3.4240	56.5064	13.2722
2.8750	0.1363	1.2476	25.5967	6.0121	82.1031	19.2843
3.0000	0.1250	1.0949	58.5057	13.7418	140.6088	33.0261
3.1250	0.1146	0.9582	56.7115	13.3204	197.3203	46.3465
3.2500	0.1051	0.8364	47.8562	11.2404	245.1765	57.5869
3.3750	0.0964	0.7282	39.7290	9.3315	284.9055	66.9184
3.5000	0.0884	0.6326	42.5243	9.9881	327.4298	76.9065
3.6250	0.0811	0.5484	36.9467	8.6780	364.3766	85.5845
3.7500	0.0743	0.4744	24.2687	5.7002	388.6453	91.2848
3.8750	0.0682	0.4098	16.4540	3.8647	405.0993	95.1495
4.0000	0.0625	0.3533	8.4179	1.9772	413.5172	97.1267
4.1250	0.0573	0.3043	7.2176	1.6953	420.7348	98.8219
4.2500	0.0526	0.2617	0.0000	0.0000	420.7348	98.8219
4.3750	0.0482	0.2248	4.5683	1.0730	425.3031	99.8949
4.5000	0.0442	0.1930	0.4474	0.1051	425.7505	100.0000

* - fall velocity of natural grains in fresh water at 20oC



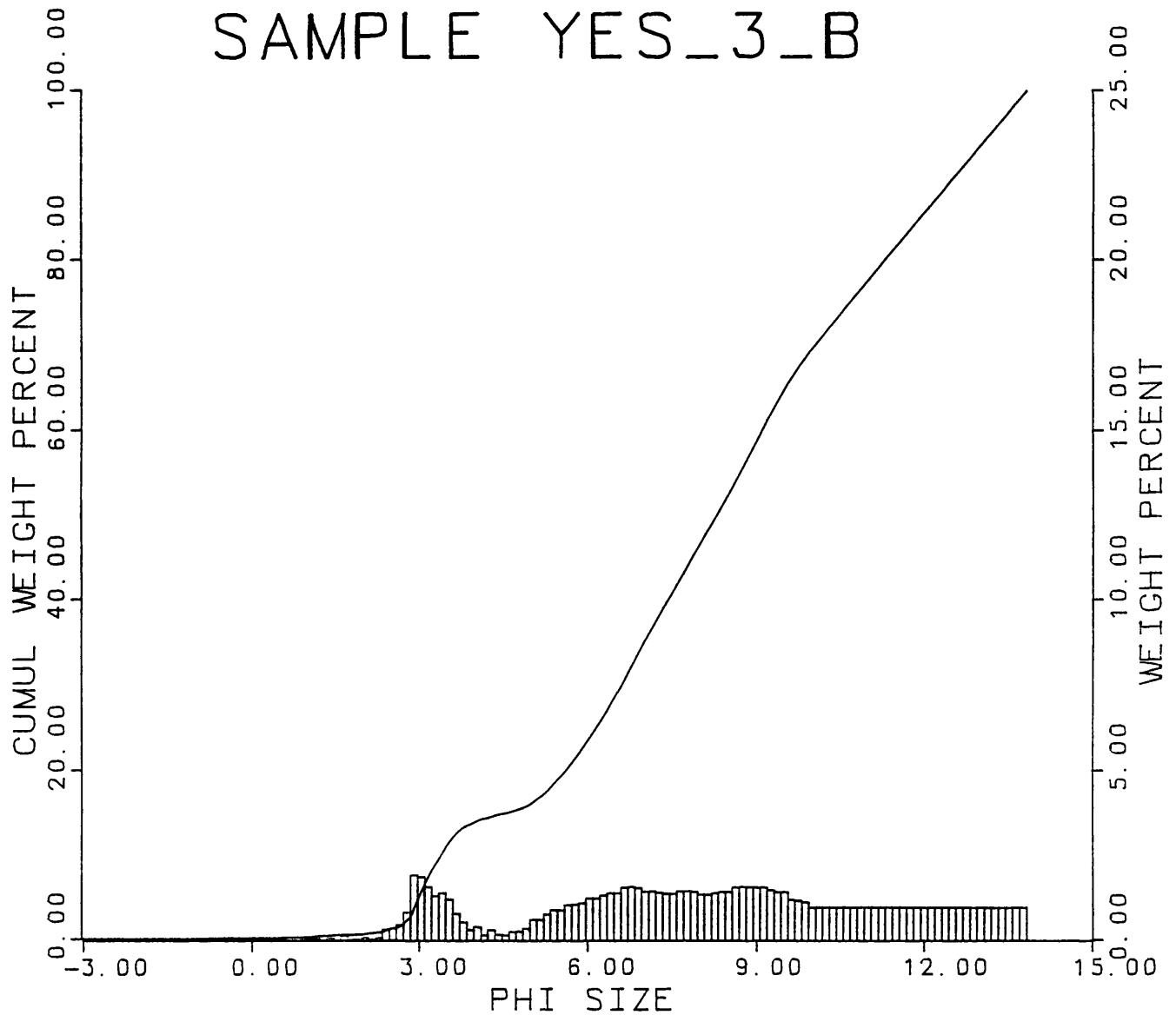
Coulter data

This data corresponds to file YES_3_B.3rd

9.1783	2.5084	0.1752	1.9853	M1	M2	M3	M4 (phi)	
9.2167	8.9554	2.6493	0.1282	0.3924	Mz,	Md,	SI,	SKI, KG

0.0000%	is larger than	3.9700	phi.
0.5166%	is larger than	4.3033	phi.
1.0331%	is larger than	4.6367	phi.
1.8784%	is larger than	4.9700	phi.
3.8038%	is larger than	5.3033	phi.
6.6214%	is larger than	5.6367	phi.
9.9555%	is larger than	5.9700	phi.
13.8532%	is larger than	6.3033	phi.
18.2205%	is larger than	6.6367	phi.
23.1499%	is larger than	6.9700	phi.
27.6684%	is larger than	7.3033	phi.
32.0044%	is larger than	7.6367	phi.
36.5686%	is larger than	7.9700	phi.
40.8133%	is larger than	8.3033	phi.
45.2862%	is larger than	8.6367	phi.
50.2155%	is larger than	8.9700	phi.
55.0992%	is larger than	9.3033	phi.
59.5721%	is larger than	9.6367	phi.
63.2691%	is larger than	9.9700	phi.
66.3301%	is larger than	10.3033	phi.
69.3910%	is larger than	10.6367	phi.
72.4519%	is larger than	10.9700	phi.
75.5128%	is larger than	11.3033	phi.
78.5737%	is larger than	11.6367	phi.
81.6346%	is larger than	11.9700	phi.
84.6955%	is larger than	12.3033	phi.
87.7564%	is larger than	12.6367	phi.
90.8173%	is larger than	12.9700	phi.
93.8782%	is larger than	13.3033	phi.
96.9391%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_3_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.2
 SAND _____ 14.1
 V-COARSE SAND - 0.1
 COARSE SAND _____ 0.1
 MEDIUM SAND _____ 0.6
 FINE SAND _____ 4.0
 V-FINE SAND _____ 9.3
 SILT _____ 34.7
 CLAY _____ 51.0

Graphic Measures

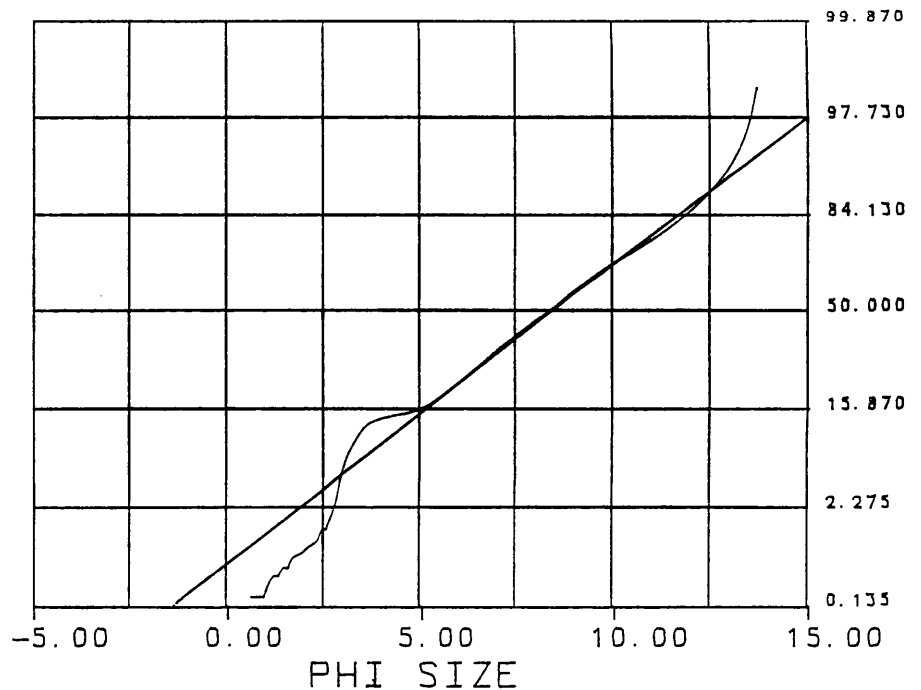
MEDIAN _____ 8.342
 MEAN _____ 8.400
 STD. DEVIATION- 3.266
 INC. SKEWNESS- -0.008
 INC. KURTOSIS- 0.511

Moment Measures

1st MOMENT _____ 8.279
 2nd MOMENT _____ 3.125
 3rd MOMENT _____ -0.139
 4th MOMENT _____ 2.191

DATE: 12-09-92

PROBABILITY CURVE



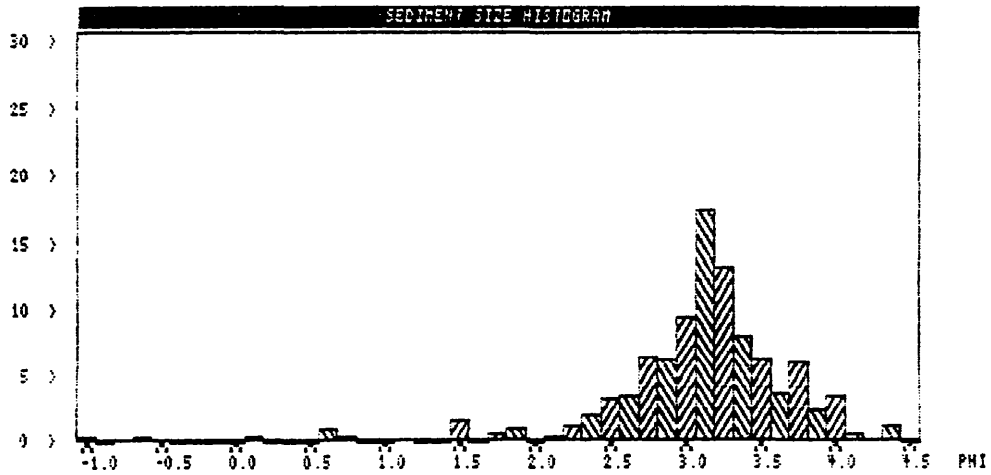
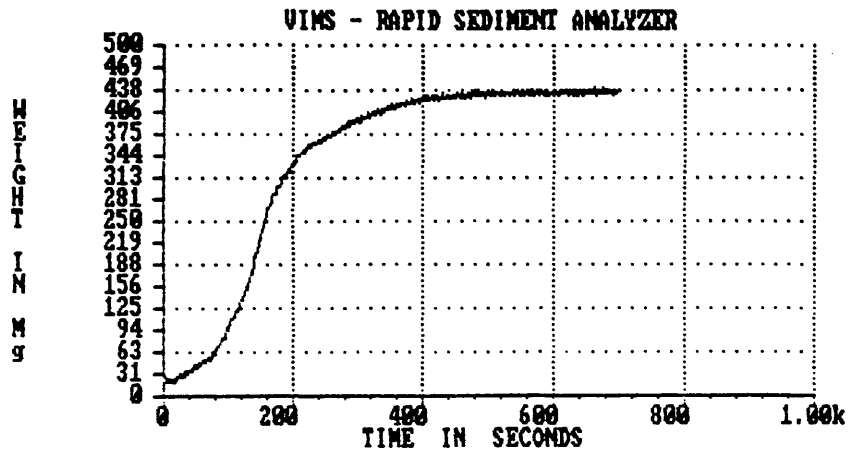
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_3_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
698.5059 Dry Sand Fraction Weight (mg) -
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.9953 0.7227 -2.4371 12.5200 M1 M2 M3 M4 (phi)
3.0844 3.0860 0.5524 -0.1302 0.3958 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.8002	0.4273	1.8002	0.4273
-0.8750	1.8340	18.9156	0.0000	0.0000	1.8002	0.4273
-0.7500	1.6818	17.7631	0.9497	0.2254	2.7499	0.6527
-0.6250	1.5422	16.6582	1.2474	0.2961	3.9974	0.9487
-0.5000	1.4142	15.6003	0.7106	0.1686	4.7080	1.1174
-0.3750	1.2968	14.5884	0.0000	0.0000	4.7080	1.1174
-0.2500	1.1892	13.6217	0.0000	0.0000	4.7080	1.1174
-0.1250	1.0905	12.6995	0.0000	0.0000	4.7080	1.1174
0.0000	1.0000	11.8208	0.0000	0.0000	4.7080	1.1174
0.1250	0.9170	10.9848	1.4929	0.3543	6.2008	1.4717
0.2500	0.8409	10.1905	0.0000	0.0000	6.2008	1.4717
0.3750	0.7711	9.4370	0.0000	0.0000	6.2008	1.4717
0.5000	0.7071	8.7233	0.0000	0.0000	6.2008	1.4717
0.6250	0.6484	8.0484	3.9184	0.9300	10.1192	2.4017
0.7500	0.5946	7.4111	1.7288	0.4103	11.8480	2.8120
0.8750	0.5453	6.8104	0.0000	0.0000	11.8480	2.8120
1.0000	0.5000	6.2452	0.0000	0.0000	11.8480	2.8120
1.1250	0.4585	5.7143	0.6642	0.1576	12.5122	2.9696
1.2500	0.4204	5.2167	0.0000	0.0000	12.5122	2.9696
1.3750	0.3856	4.7510	0.0000	0.0000	12.5122	2.9696
1.5000	0.3536	4.3163	6.3130	1.4983	18.8252	4.4679
1.6250	0.3242	3.9113	0.0000	0.0000	18.8252	4.4679
1.7500	0.2973	3.5349	2.2115	0.5249	21.0366	4.9928
1.8750	0.2726	3.1860	4.3814	1.0399	25.4180	6.0326
2.0000	0.2500	2.8634	0.0000	0.0000	25.4180	6.0326
2.1250	0.2293	2.5660	1.7038	0.4044	27.1219	6.4370
2.2500	0.2102	2.2927	5.2084	1.2361	32.3302	7.6732
2.3750	0.1928	2.0423	8.1489	1.9340	40.4791	9.6072
2.5000	0.1768	1.8137	13.1648	3.1245	53.6439	12.7317
2.6250	0.1621	1.6058	13.9358	3.3075	67.5797	16.0392
2.7500	0.1487	1.4175	26.7454	6.3477	94.3251	22.3869
2.8750	0.1363	1.2476	25.9370	6.1558	120.2621	28.5427
3.0000	0.1250	1.0949	39.8629	9.4610	160.1250	38.0036
3.1250	0.1146	0.9582	73.4317	17.4281	233.5568	55.4317
3.2500	0.1051	0.8364	54.7322	12.9900	288.2890	68.4217
3.3750	0.0964	0.7282	34.0104	8.0719	322.2993	76.4937
3.5000	0.0884	0.6326	26.3014	6.2423	348.6008	82.7360
3.6250	0.0811	0.5484	15.2599	3.6218	363.8607	86.3577
3.7500	0.0743	0.4744	25.6277	6.0824	389.4883	92.4401
3.8750	0.0682	0.4098	10.3922	2.4665	399.8806	94.9066
4.0000	0.0625	0.3533	13.8905	3.2967	413.7710	98.2033
4.1250	0.0573	0.3043	2.4551	0.5827	416.2261	98.7860
4.2500	0.0526	0.2617	0.5892	0.1398	416.8153	98.9258
4.3750	0.0482	0.2248	4.5260	1.0742	421.3412	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	421.3412	100.0000

* - fall velocity of natural grains in fresh water at 20oC

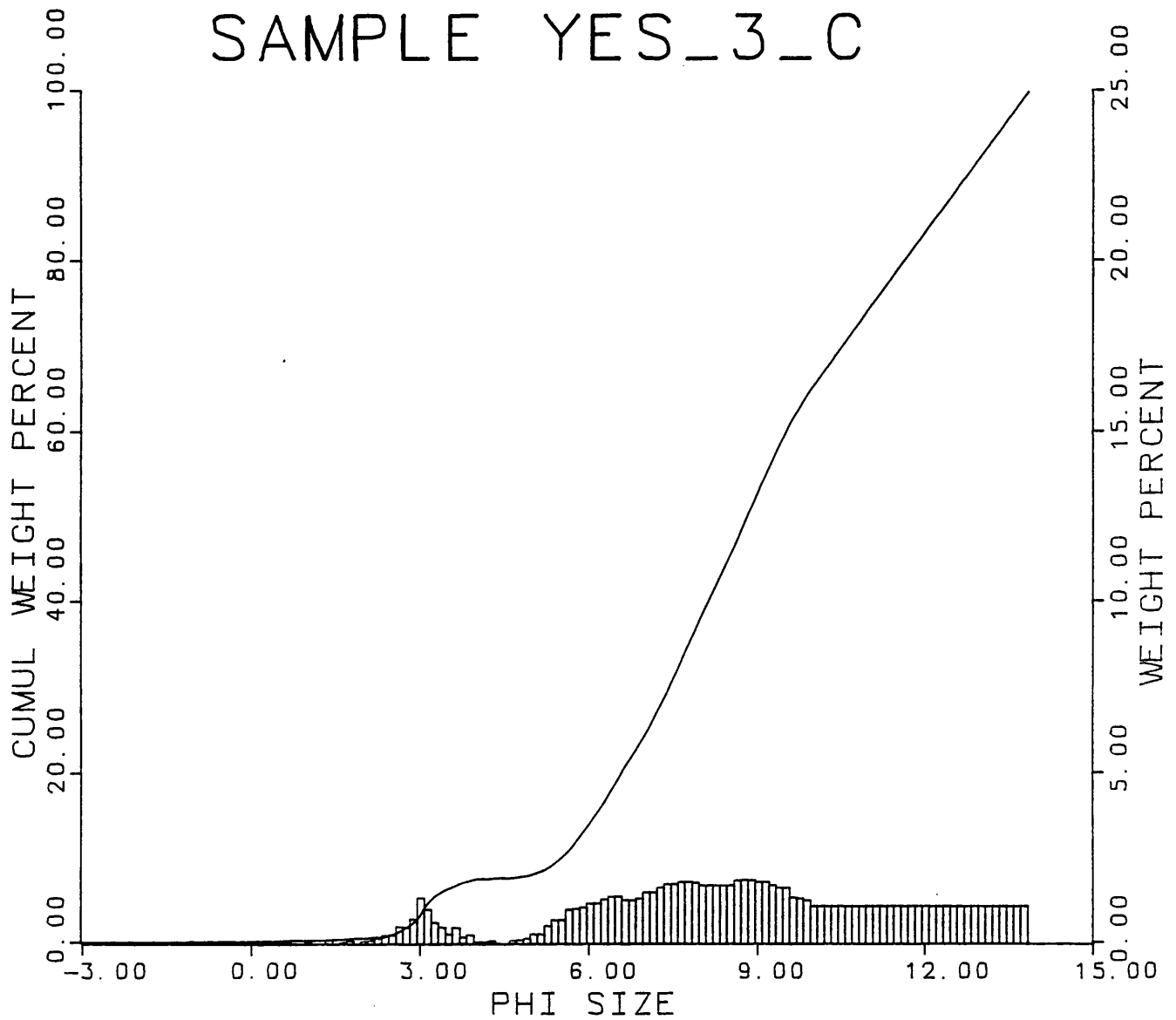


Coulter data
This data corresponds to file YES_3_C.3rd

				M1	M2	M3	M4 (phi)
9.4090	2.3764	0.1974	1.9828				
9.4291	9.1286	2.5203	0.1502	0.3761			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.3285%	is larger than	4.9700	phi.
1.1498%	is larger than	5.3033	phi.
3.2029%	is larger than	5.6367	phi.
6.2006%	is larger than	5.9700	phi.
9.6499%	is larger than	6.3033	phi.
13.6741%	is larger than	6.6367	phi.
17.3715%	is larger than	6.9700	phi.
21.7621%	is larger than	7.3033	phi.
26.8459%	is larger than	7.6367	phi.
32.1223%	is larger than	7.9700	phi.
37.0907%	is larger than	8.3033	phi.
42.0590%	is larger than	8.6367	phi.
47.4894%	is larger than	8.9700	phi.
52.7659%	is larger than	9.3033	phi.
57.5416%	is larger than	9.6367	phi.
61.3930%	is larger than	9.9700	phi.
64.6103%	is larger than	10.3033	phi.
67.8275%	is larger than	10.6367	phi.
71.0448%	is larger than	10.9700	phi.
74.2620%	is larger than	11.3033	phi.
77.4793%	is larger than	11.6367	phi.
80.6965%	is larger than	11.9700	phi.
83.9138%	is larger than	12.3033	phi.
87.1310%	is larger than	12.6367	phi.
90.3483%	is larger than	12.9700	phi.
93.5655%	is larger than	13.3033	phi.
96.7828%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_3_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 7.7
 V-COARSE SAND - 0.1
 COARSE SAND _____ 0.1
 MEDIUM SAND _____ 0.3
 FINE SAND _____ 2.5
 V-FINE SAND _____ 4.7
 SILT _____ 34.4
 CLAY _____ 57.8

Graphic Measures

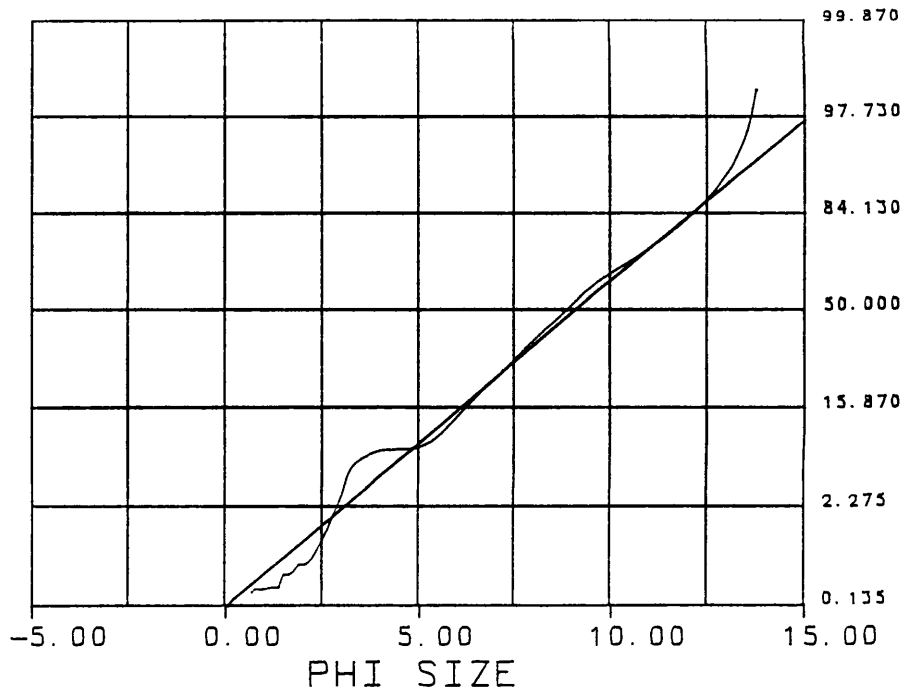
MEDIAN _____ 8.840
 MEAN _____ 9.053
 STD. DEVIATION- 2.999
 INC. SKEWNESS- -0.002
 INC. KURTOSIS- 0.505

Moment Measures

1st MOMENT _____ 8.872
 2nd MOMENT _____ 2.836
 3rd MOMENT _____ -0.288
 4th MOMENT _____ 2.647

DATE: 12-09-92

PROBABILITY CURVE



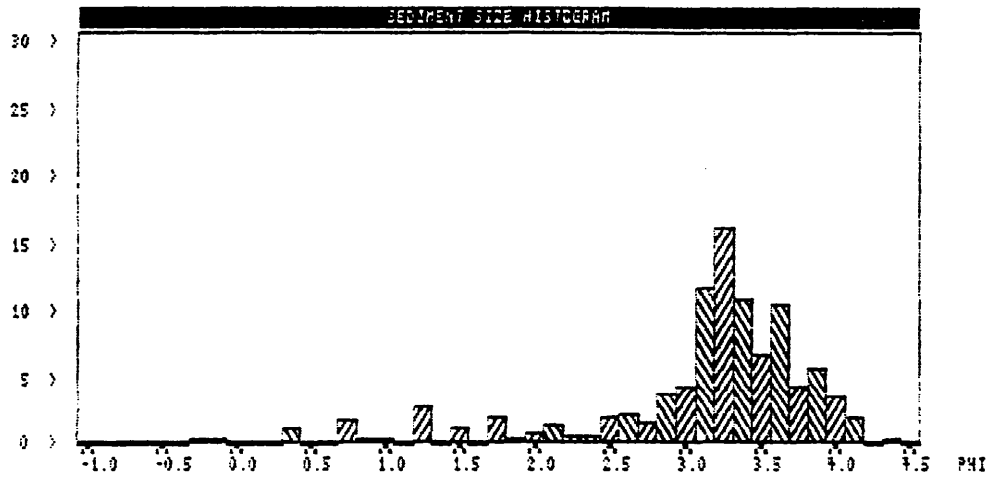
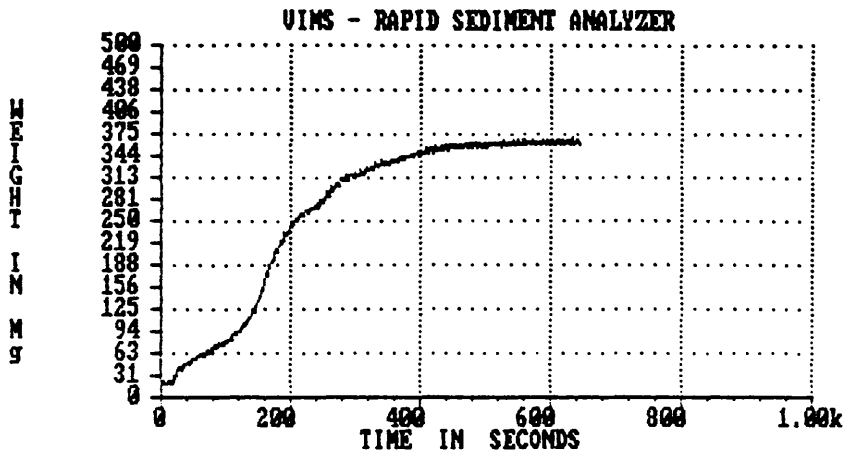
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_3_D

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
579.4112 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
3.0204 0.8226 -1.7680 6.1078 M1 M2 M3 M4 (phi)
3.1138 3.2065 0.6985 -0.3693 0.4867 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	1.5085	0.4354	1.5085	0.4354
-0.1250	1.0905	12.6995	1.2895	0.3722	2.7980	0.8077
0.0000	1.0000	11.8208	0.0000	0.0000	2.7980	0.8077
0.1250	0.9170	10.9848	0.0000	0.0000	2.7980	0.8077
0.2500	0.8409	10.1905	0.0000	0.0000	2.7980	0.8077
0.3750	0.7711	9.4370	3.7299	1.0767	6.5279	1.8844
0.5000	0.7071	8.7233	0.0000	0.0000	6.5279	1.8844
0.6250	0.6484	8.0484	0.0000	0.0000	6.5279	1.8844
0.7500	0.5946	7.4111	6.1097	1.7637	12.6376	3.6480
0.8750	0.5453	6.8104	1.2269	0.3542	13.8645	4.0022
1.0000	0.5000	6.2452	1.4821	0.4278	15.3466	4.4300
1.1250	0.4585	5.7143	0.0000	0.0000	15.3466	4.4300
1.2500	0.4204	5.2167	9.8221	2.8353	25.1687	7.2653
1.3750	0.3856	4.7510	0.0000	0.0000	25.1687	7.2653
1.5000	0.3536	4.3163	4.2354	1.2226	29.4041	8.4879
1.6250	0.3242	3.9113	0.0000	0.0000	29.4041	8.4879
1.7500	0.2973	3.5349	7.1310	2.0585	36.5352	10.5464
1.8750	0.2726	3.1860	1.2993	0.3751	37.8345	10.9215
2.0000	0.2500	2.8634	2.3421	0.6761	40.1766	11.5976
2.1250	0.2293	2.5660	4.4073	1.2722	44.5839	12.8698
2.2500	0.2102	2.2927	1.7650	0.5095	46.3489	13.3793
2.3750	0.1928	2.0423	2.0982	0.6057	48.4471	13.9850
2.5000	0.1768	1.8137	6.5861	1.9012	55.0331	15.8861
2.6250	0.1621	1.6058	7.5442	2.1777	62.5773	18.0639
2.7500	0.1487	1.4175	5.4788	1.5815	68.0561	19.6454
2.8750	0.1363	1.2476	13.2575	3.8270	81.3137	23.4724
3.0000	0.1250	1.0949	15.1571	4.3753	96.4707	27.8477
3.1250	0.1146	0.9582	40.4316	11.6712	136.9023	39.5189
3.2500	0.1051	0.8364	55.6880	16.0752	192.5903	55.5940
3.3750	0.0964	0.7282	37.7410	10.8945	230.3313	66.4885
3.5000	0.0884	0.6326	23.8980	6.8985	254.2293	73.3870
3.6250	0.0811	0.5484	36.3425	10.4908	290.5718	83.8778
3.7500	0.0743	0.4744	15.1069	4.3608	305.6797	88.2387
3.8750	0.0682	0.4098	20.0449	5.7862	325.7236	94.0249
4.0000	0.0625	0.3533	12.5052	3.6098	338.2287	97.6347
4.1250	0.0573	0.3043	7.1437	2.0621	345.3724	99.6968
4.2500	0.0526	0.2617	0.0000	0.0000	345.3724	99.6968
4.3750	0.0482	0.2248	1.0502	0.3032	346.4227	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	346.4227	100.0000

* - fall velocity of natural grains in fresh water at 20oC

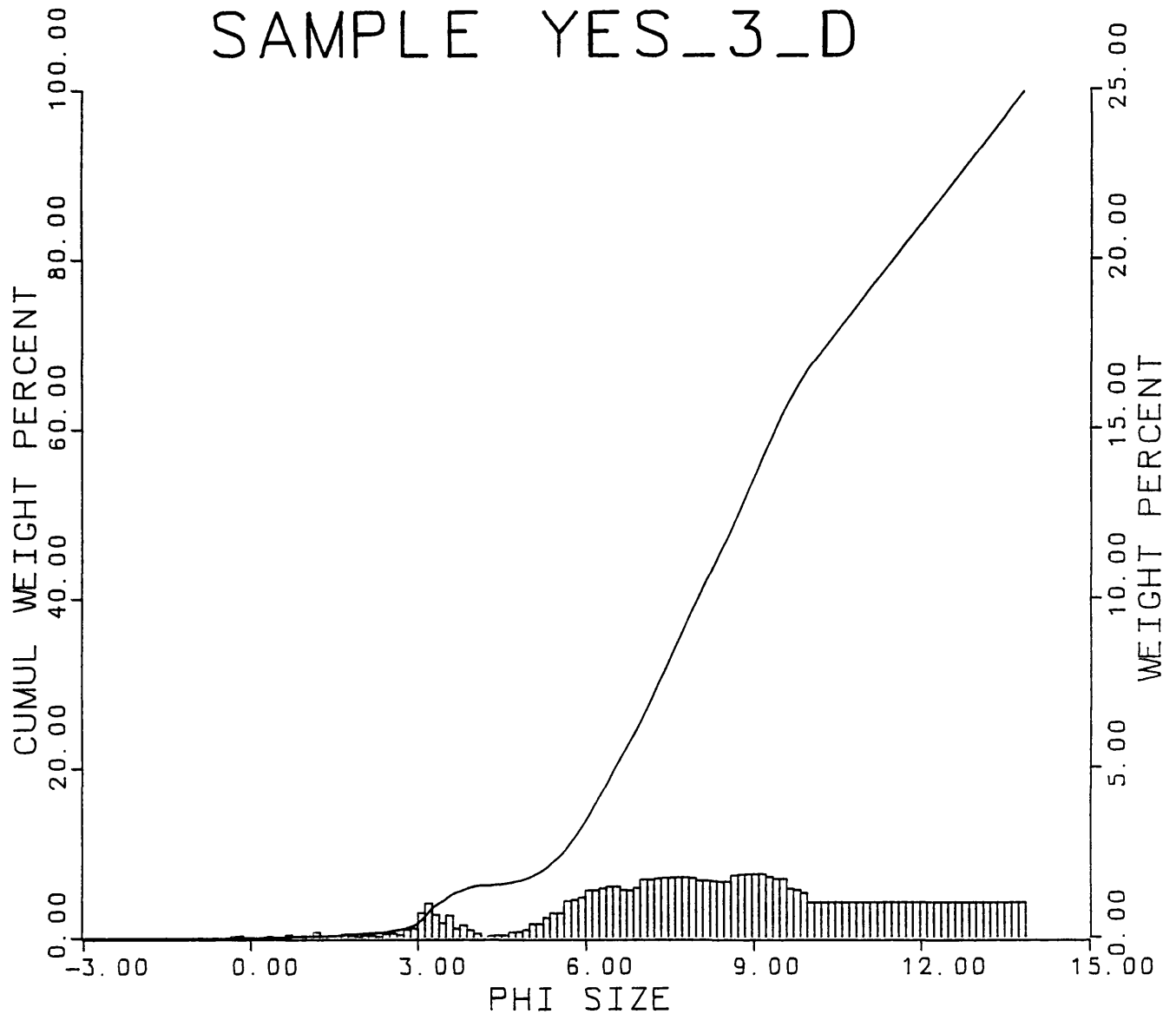


Coulter data
This data corresponds to file YES_3_D.3rd

9.2577	2.4008	0.2355	2.0273	M1	M2	M3	M4 (phi)
9.2858	8.9972	2.5478	0.1531	0.3844	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.2703%	is larger than	4.6367	phi.
0.8108%	is larger than	4.9700	phi.
1.9820%	is larger than	5.3033	phi.
4.0991%	is larger than	5.6367	phi.
7.3423%	is larger than	5.9700	phi.
11.3513%	is larger than	6.3033	phi.
15.6756%	is larger than	6.6367	phi.
19.6729%	is larger than	6.9700	phi.
24.5787%	is larger than	7.3033	phi.
29.6207%	is larger than	7.6367	phi.
34.7082%	is larger than	7.9700	phi.
39.5232%	is larger than	8.3033	phi.
44.2473%	is larger than	8.6367	phi.
49.5619%	is larger than	8.9700	phi.
54.9219%	is larger than	9.3033	phi.
59.8732%	is larger than	9.6367	phi.
63.9159%	is larger than	9.9700	phi.
66.9229%	is larger than	10.3033	phi.
69.9299%	is larger than	10.6367	phi.
72.9369%	is larger than	10.9700	phi.
75.9439%	is larger than	11.3033	phi.
78.9509%	is larger than	11.6367	phi.
81.9580%	is larger than	11.9700	phi.
84.9650%	is larger than	12.3033	phi.
87.9720%	is larger than	12.6367	phi.
90.9790%	is larger than	12.9700	phi.
93.9860%	is larger than	13.3033	phi.
96.9930%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_3_D



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.3
 SAND _____ 8.4
 V-COARSE SAND - 0.1
 COARSE SAND _____ 0.2
 MEDIUM SAND _____ 0.5
 FINE SAND _____ 1.1
 V-FINE SAND _____ 4.6
 SILT _____ 38.8
 CLAY _____ 54.5

Graphic Measures

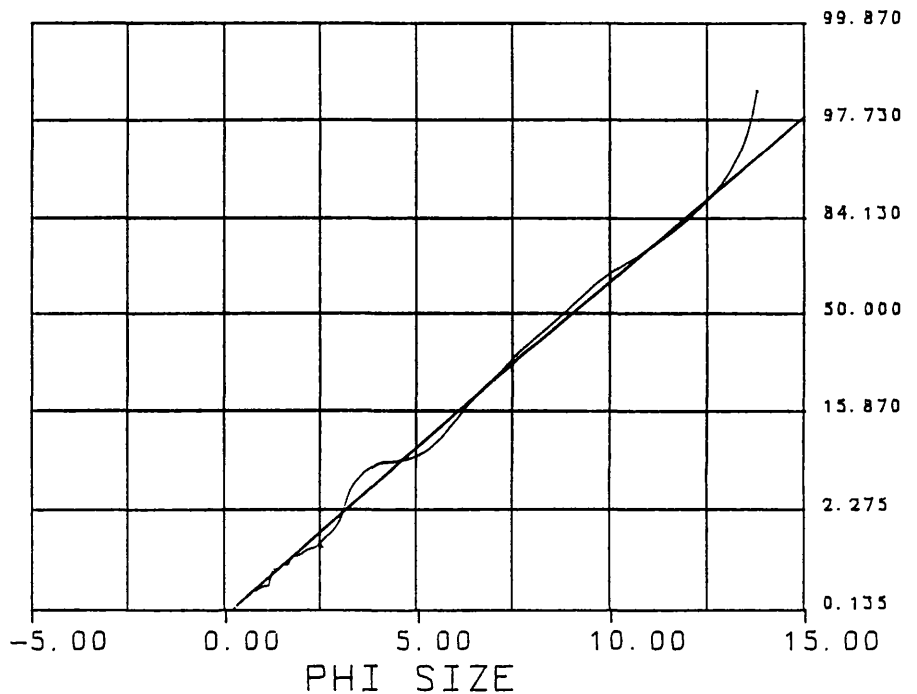
MEDIAN _____ 8.755
 MEAN _____ 8.983
 STD. DEVIATION- 2.925
 INC. SKEWNESS- 0.024
 INC. KURTOSIS- 0.494

Moment Measures

1st MOMENT _____ 8.816
 2nd MOMENT _____ 2.764
 3rd MOMENT _____ -0.196
 4th MOMENT _____ 2.635

DATE: 12-09-92

PROBABILITY CURVE



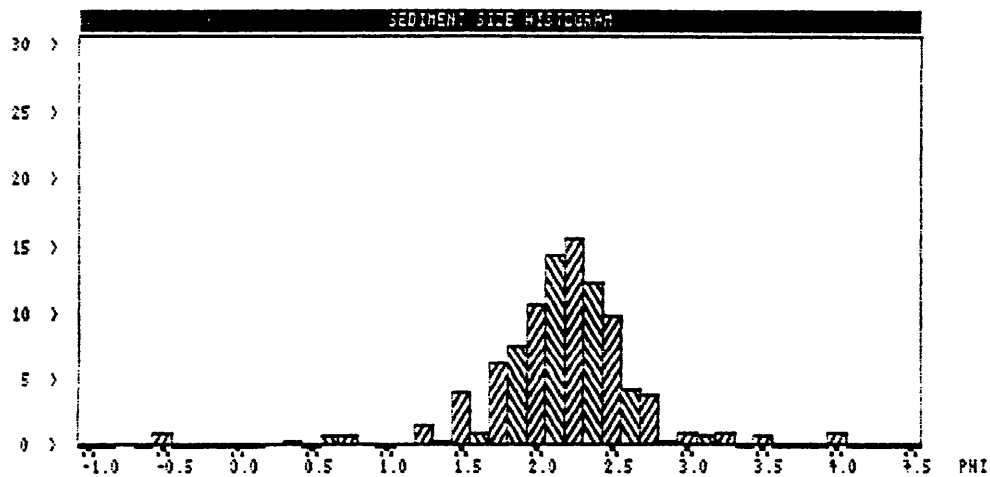
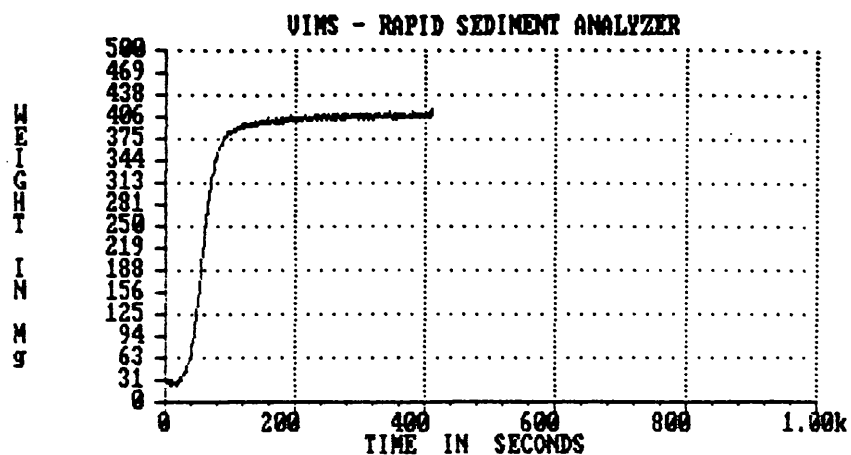
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_3_E2

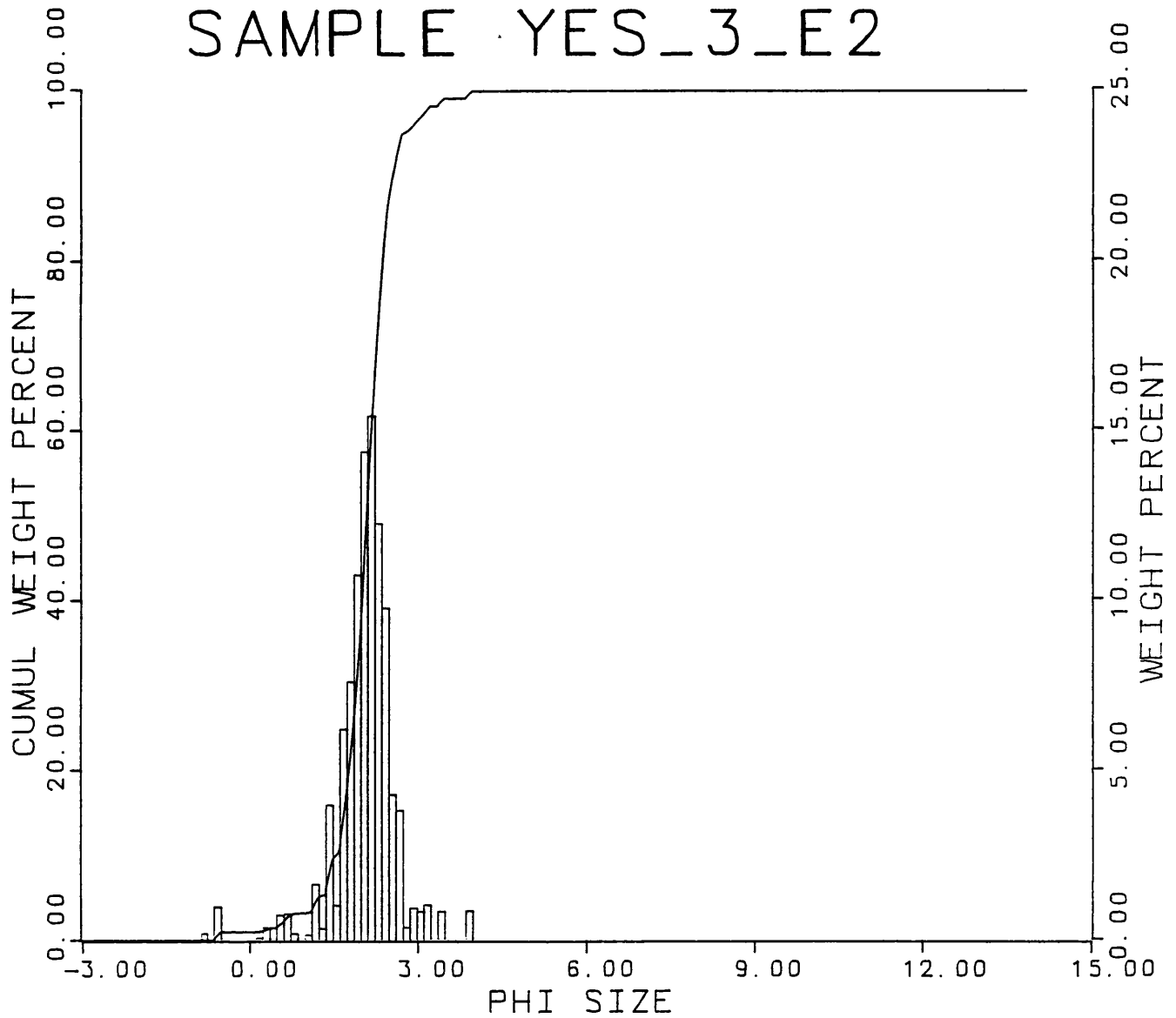
0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
656.5877 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.0849 0.5567 -1.2700 9.8070 M1 M2 M3 M4 (phi)
2.1085 2.1290 0.4112 -0.1329 0.3919 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.8033	0.2047	0.8033	0.2047
-0.6250	1.5422	16.6582	0.0000	0.0000	0.8033	0.2047
-0.5000	1.4142	15.6003	3.8528	0.9819	4.6561	1.1866
-0.3750	1.2968	14.5884	0.0000	0.0000	4.6561	1.1866
-0.2500	1.1892	13.6217	0.0000	0.0000	4.6561	1.1866
-0.1250	1.0905	12.6995	0.0000	0.0000	4.6561	1.1866
0.0000	1.0000	11.8208	0.0000	0.0000	4.6561	1.1866
0.1250	0.9170	10.9848	0.0000	0.0000	4.6561	1.1866
0.2500	0.8409	10.1905	0.3070	0.0782	4.9631	1.2648
0.3750	0.7711	9.4370	1.4654	0.3734	6.4285	1.6382
0.5000	0.7071	8.7233	0.0000	0.0000	6.4285	1.6382
0.6250	0.6484	8.0484	2.9393	0.7490	9.3678	2.3873
0.7500	0.5946	7.4111	3.0838	0.7859	12.4516	3.1732
0.8750	0.5453	6.8104	0.7907	0.2015	13.2424	3.3747
1.0000	0.5000	6.2452	0.0000	0.0000	13.2424	3.3747
1.1250	0.4585	5.7143	0.6314	0.1609	13.8738	3.5356
1.2500	0.4204	5.2167	6.4912	1.6542	20.3650	5.1898
1.3750	0.3856	4.7510	1.3825	0.3523	21.7475	5.5421
1.5000	0.3536	4.3163	15.6616	3.9912	37.4091	9.5333
1.6250	0.3242	3.9113	4.0407	1.0297	41.4498	10.5631
1.7500	0.2973	3.5349	24.4253	6.2245	65.8751	16.7876
1.8750	0.2726	3.1860	29.8638	7.6105	95.7389	24.3981
2.0000	0.2500	2.8634	42.1876	10.7511	137.9265	35.1492
2.1250	0.2293	2.5660	56.3539	14.3612	194.2804	49.5104
2.2500	0.2102	2.2927	60.4912	15.4156	254.7717	64.9260
2.3750	0.1928	2.0423	48.0402	12.2426	302.8119	77.1685
2.5000	0.1768	1.8137	38.3876	9.7827	341.1995	86.9512
2.6250	0.1621	1.6058	16.8229	4.2871	358.0224	91.2384
2.7500	0.1487	1.4175	15.0138	3.8261	373.0362	95.0645
2.8750	0.1363	1.2476	1.5044	0.3834	374.5406	95.4479
3.0000	0.1250	1.0949	3.7039	0.9439	378.2445	96.3918
3.1250	0.1146	0.9582	3.3279	0.8481	381.5725	97.2399
3.2500	0.1051	0.8364	4.0818	1.0402	385.6542	98.2801
3.3750	0.0964	0.7282	0.0000	0.0000	385.6542	98.2801
3.5000	0.0884	0.6326	3.3410	0.8514	388.9953	99.1315
3.6250	0.0811	0.5484	0.0000	0.0000	388.9953	99.1315
3.7500	0.0743	0.4744	0.0000	0.0000	388.9953	99.1315
3.8750	0.0682	0.4098	0.0000	0.0000	388.9953	99.1315
4.0000	0.0625	0.3533	3.4080	0.8685	392.4033	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	392.4033	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	392.4033	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	392.4033	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	392.4033	100.0000

* - fall velocity of natural grains in fresh water at 20oC



SAMPLE YES_3_E2



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 97.4
 V-COARSE SAND - 1.2
 COARSE SAND _____ 2.1
 MEDIUM SAND _____ 30.9
 FINE SAND _____ 59.7
 V-FINE SAND _____ 3.5
 SILT _____ 0.4
 CLAY _____ 2.2

Graphic Measures

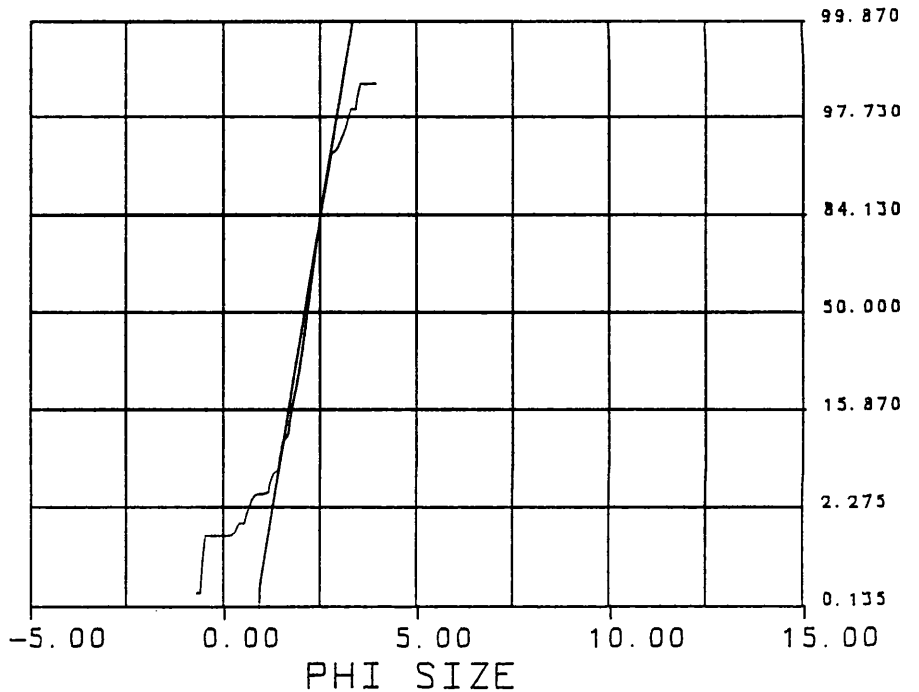
MEDIAN _____ 2.129
 MEAN _____ 2.109
 STD. DEVIATION- 0.411
 INC. SKEWNESS - -0.133
 INC. KURTOSIS - 0.392

Moment Measures

1st MOMENT _____ 2.085
 2nd MOMENT _____ 0.557
 3rd MOMENT _____ -1.270
 4th MOMENT _____ 9.807

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

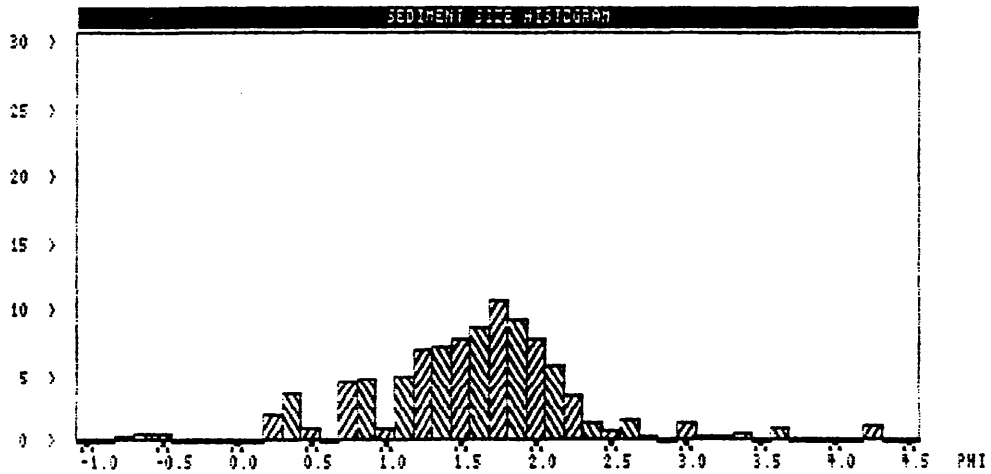
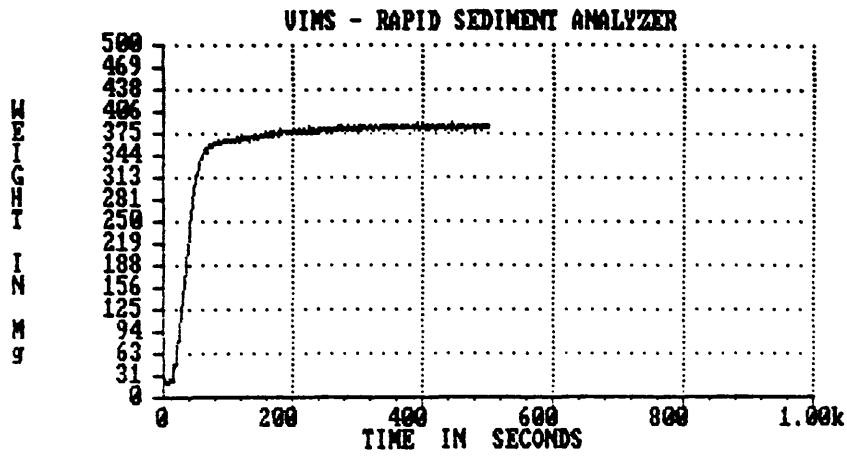
YES_3_E1

F?

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 618.1953 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
 1.5335 0.7306 0.3367 5.2401 M1 M2 M3 M4 (phi)
 1.4857 1.5674 0.6914 -0.0917 0.7423 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.2066	0.3257	1.2066	0.3257
-0.6250	1.5422	16.6582	2.2004	0.5939	3.4070	0.9195
-0.5000	1.4142	15.6003	1.8735	0.5057	5.2806	1.4252
-0.3750	1.2968	14.5884	0.0000	0.0000	5.2806	1.4252
-0.2500	1.1892	13.6217	0.0000	0.0000	5.2806	1.4252
-0.1250	1.0905	12.6995	0.0000	0.0000	5.2806	1.4252
0.0000	1.0000	11.8208	0.0000	0.0000	5.2806	1.4252
0.1250	0.9170	10.9848	0.0000	0.0000	5.2806	1.4252
0.2500	0.8409	10.1905	7.2595	1.9593	12.5401	3.3845
0.3750	0.7711	9.4370	13.0888	3.5326	25.6289	6.9171
0.5000	0.7071	8.7233	3.2175	0.8684	28.8465	7.7855
0.6250	0.6484	8.0484	0.0000	0.0000	28.8465	7.7855
0.7500	0.5946	7.4111	17.1938	4.6405	46.0403	12.4260
0.8750	0.5453	6.8104	18.1684	4.9035	64.2087	17.3295
1.0000	0.5000	6.2452	3.6743	0.9917	67.8830	18.3212
1.1250	0.4585	5.7143	18.5250	4.9998	86.4080	23.3210
1.2500	0.4204	5.2167	25.6708	6.9284	112.0788	30.2494
1.3750	0.3856	4.7510	26.5262	7.1593	138.6050	37.4087
1.5000	0.3536	4.3163	29.3886	7.9318	167.9936	45.3405
1.6250	0.3242	3.9113	32.0199	8.6420	200.0134	53.9825
1.7500	0.2973	3.5349	39.7803	10.7365	239.7938	64.7189
1.8750	0.2726	3.1860	33.9572	9.1649	273.7510	73.8838
2.0000	0.2500	2.8634	29.0383	7.8373	302.7894	81.7211
2.1250	0.2293	2.5660	21.7597	5.8728	324.5491	87.5939
2.2500	0.2102	2.2927	12.5279	3.3812	337.0770	90.9751
2.3750	0.1928	2.0423	4.8145	1.2994	341.8915	92.2745
2.5000	0.1768	1.8137	2.9996	0.8096	344.8911	93.0841
2.6250	0.1621	1.6058	5.6330	1.5203	350.5242	94.6044
2.7500	0.1487	1.4175	1.3421	0.3622	351.8663	94.9666
2.8750	0.1363	1.2476	0.0000	0.0000	351.8663	94.9666
3.0000	0.1250	1.0949	5.1652	1.3941	357.0315	96.3607
3.1250	0.1146	0.9582	1.5677	0.4231	358.5992	96.7838
3.2500	0.1051	0.8364	1.6200	0.4372	360.2191	97.2210
3.3750	0.0964	0.7282	2.1758	0.5872	362.3950	97.8083
3.5000	0.0884	0.6326	0.0000	0.0000	362.3950	97.8083
3.6250	0.0811	0.5484	3.9471	1.0653	366.3420	98.8736
3.7500	0.0743	0.4744	0.0000	0.0000	366.3420	98.8736
3.8750	0.0682	0.4098	0.0000	0.0000	366.3420	98.8736
4.0000	0.0625	0.3533	0.0000	0.0000	366.3420	98.8736
4.1250	0.0573	0.3043	0.0000	0.0000	366.3420	98.8736
4.2500	0.0526	0.2617	4.1736	1.1264	370.5156	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	370.5156	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	370.5156	100.0000

* - fall velocity of natural grains in fresh water at 20oC



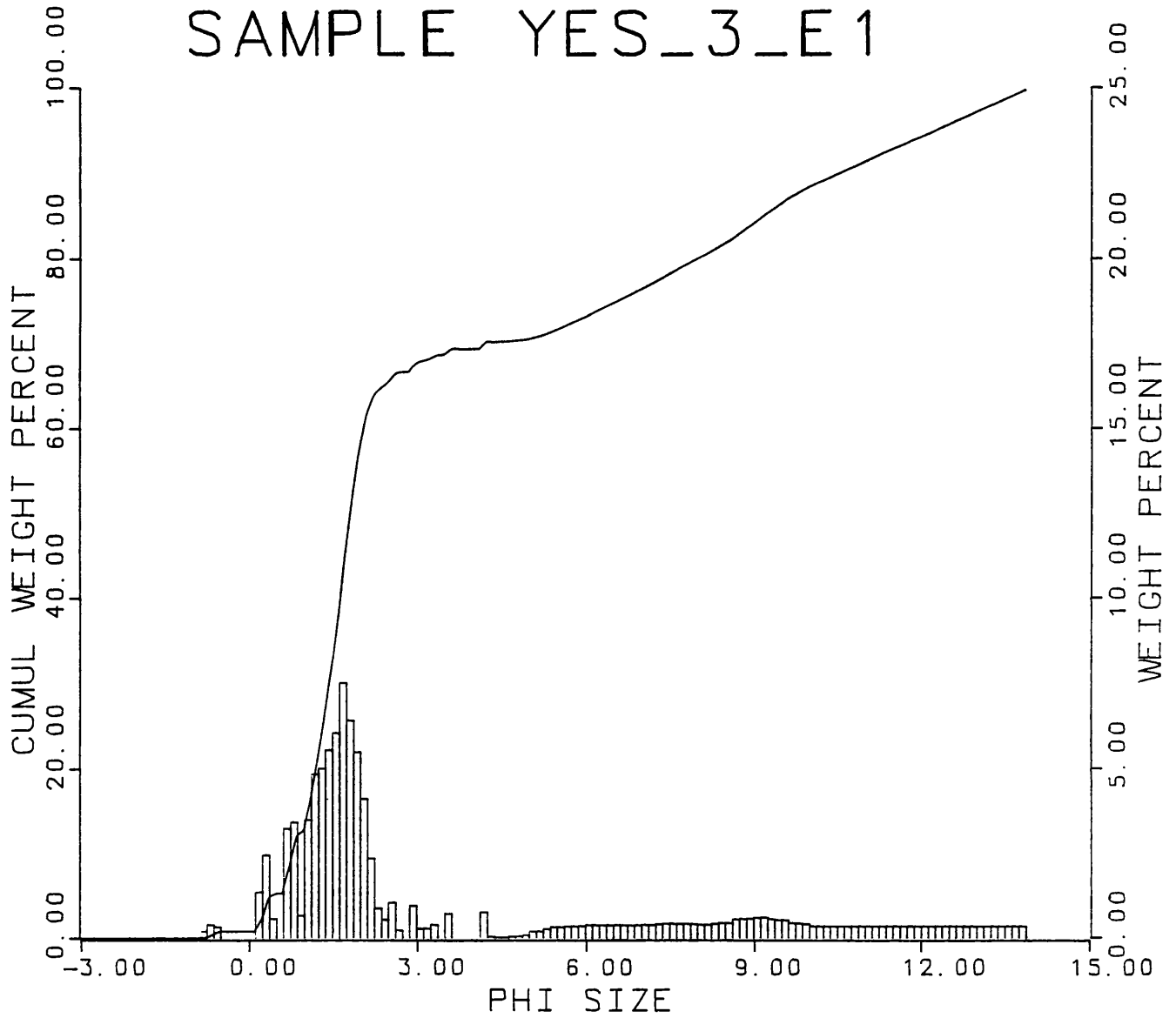
Coulter data

This data corresponds to file YES_3_E1.3rd

9.3798	2.4849	0.0786	1.9606	M1	M2	M3	M4 (phi)
9.3829	9.2309	2.6538	0.0716	0.3869	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.3720%	is larger than	4.6367	phi.
1.0746%	is larger than	4.9700	phi.
3.0584%	is larger than	5.3033	phi.
6.1995%	is larger than	5.6367	phi.
9.5059%	is larger than	5.9700	phi.
13.1429%	is larger than	6.3033	phi.
16.8213%	is larger than	6.6367	phi.
20.4297%	is larger than	6.9700	phi.
24.1950%	is larger than	7.3033	phi.
28.2741%	is larger than	7.6367	phi.
32.2748%	is larger than	7.9700	phi.
36.0401%	is larger than	8.3033	phi.
40.2761%	is larger than	8.6367	phi.
45.6103%	is larger than	8.9700	phi.
51.2190%	is larger than	9.3033	phi.
56.2395%	is larger than	9.6367	phi.
60.3578%	is larger than	9.9700	phi.
63.6613%	is larger than	10.3033	phi.
66.9648%	is larger than	10.6367	phi.
70.2683%	is larger than	10.9700	phi.
73.5719%	is larger than	11.3033	phi.
76.8754%	is larger than	11.6367	phi.
80.1789%	is larger than	11.9700	phi.
83.4824%	is larger than	12.3033	phi.
86.7859%	is larger than	12.6367	phi.
90.0894%	is larger than	12.9700	phi.
93.3930%	is larger than	13.3033	phi.
96.6965%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_3_E1



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 54.7
 SAND ——— 31.8
 V-COARSE SAND — 0.5
 COARSE SAND — 5.4
 MEDIUM SAND — 20.4
 FINE SAND — 4.7
 V-FINE SAND — 0.8
 SILT ——— 4.8
 CLAY ——— 8.7

Graphic Measures

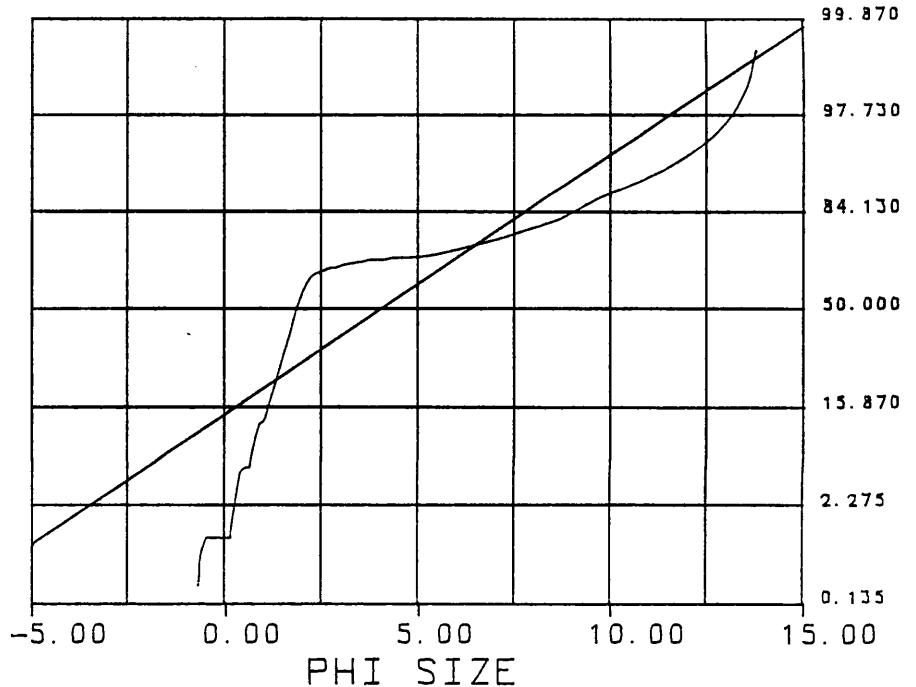
MEDIAN ——— 1.836
 MEAN ——— 3.970
 STD. DEVIATION — 3.749
 INC. SKEWNESS — 0.786
 INC. KURTOSIS — 0.811

Moment Measures

1st MOMENT ——— 3.844
 2nd MOMENT ——— 3.854
 3rd MOMENT ——— 1.182
 4th MOMENT ——— 2.965

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

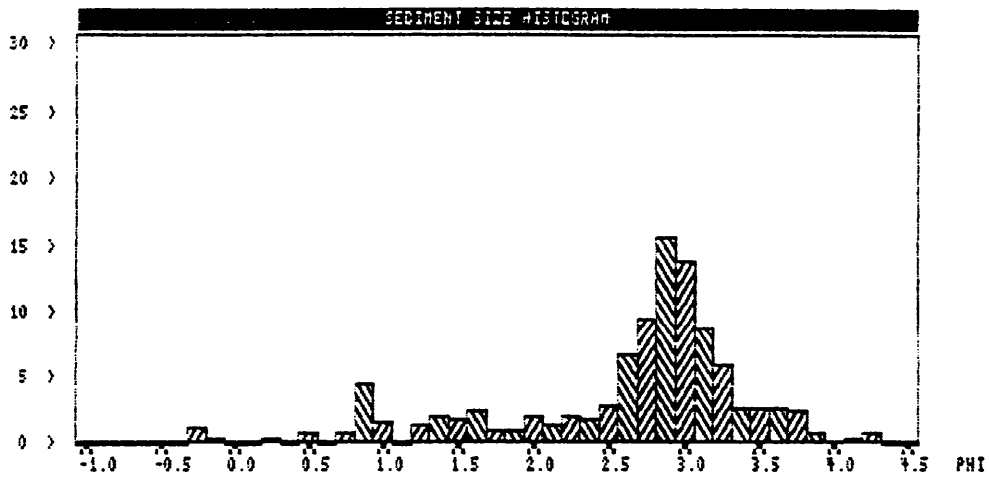
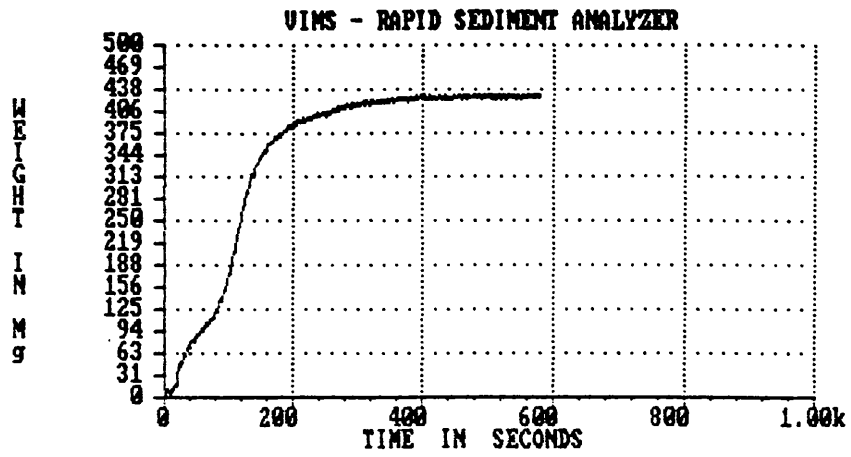
YES_4_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
684.0108 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.5433 0.8446 -1.2421 4.2630 M1 M2 M3 M4 (phi)
2.5123 2.7958 0.8176 -0.4874 0.5538 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	4.6594	1.1000	4.6594	1.1000
-0.1250	1.0905	12.6995	1.7003	0.4014	6.3597	1.5014
0.0000	1.0000	11.8208	0.0000	0.0000	6.3597	1.5014
0.1250	0.9170	10.9848	0.0000	0.0000	6.3597	1.5014
0.2500	0.8409	10.1905	1.4405	0.3401	7.8001	1.8414
0.3750	0.7711	9.4370	0.0000	0.0000	7.8001	1.8414
0.5000	0.7071	8.7233	3.5749	0.8440	11.3751	2.6854
0.6250	0.6484	8.0484	0.0000	0.0000	11.3751	2.6854
0.7500	0.5946	7.4111	3.3390	0.7883	14.7141	3.4737
0.8750	0.5453	6.8104	18.6085	4.3931	33.3226	7.8667
1.0000	0.5000	6.2452	6.6307	1.5654	39.9533	9.4321
1.1250	0.4585	5.7143	0.0000	0.0000	39.9533	9.4321
1.2500	0.4204	5.2167	6.1754	1.4579	46.1287	10.8900
1.3750	0.3856	4.7510	8.0628	1.9034	54.1915	12.7934
1.5000	0.3536	4.3163	7.2329	1.7075	61.4244	14.5010
1.6250	0.3242	3.9113	9.9273	2.3436	71.3517	16.8446
1.7500	0.2973	3.5349	3.7902	0.8948	75.1419	17.7394
1.8750	0.2726	3.1860	4.0688	0.9606	79.2108	18.6999
2.0000	0.2500	2.8634	8.3579	1.9731	87.5687	20.6731
2.1250	0.2293	2.5660	5.5478	1.3097	93.1164	21.9828
2.2500	0.2102	2.2927	7.9968	1.8879	101.1132	23.8706
2.3750	0.1928	2.0423	7.1024	1.6767	108.2156	25.5474
2.5000	0.1768	1.8137	11.4770	2.7095	119.6926	28.2568
2.6250	0.1621	1.6058	28.2754	6.6752	147.9680	34.9320
2.7500	0.1487	1.4175	39.6136	9.3519	187.5815	44.2839
2.8750	0.1363	1.2476	66.0550	15.5942	253.6366	59.8781
3.0000	0.1250	1.0949	58.3181	13.7676	311.9547	73.6457
3.1250	0.1146	0.9582	36.8041	8.6887	348.7588	82.3344
3.2500	0.1051	0.8364	24.5089	5.7860	373.2677	88.1204
3.3750	0.0964	0.7282	10.9736	2.5906	384.2412	90.7110
3.5000	0.0884	0.6326	11.2298	2.6511	395.4710	93.3621
3.6250	0.0811	0.5484	10.7028	2.5267	406.1738	95.8888
3.7500	0.0743	0.4744	10.0288	2.3676	416.2026	98.2564
3.8750	0.0682	0.4098	2.8442	0.6714	419.0468	98.9279
4.0000	0.0625	0.3533	0.4742	0.1119	419.5210	99.0398
4.1250	0.0573	0.3043	1.1965	0.2825	420.7175	99.3223
4.2500	0.0526	0.2617	2.8707	0.6777	423.5882	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	423.5882	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	423.5882	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_4_A



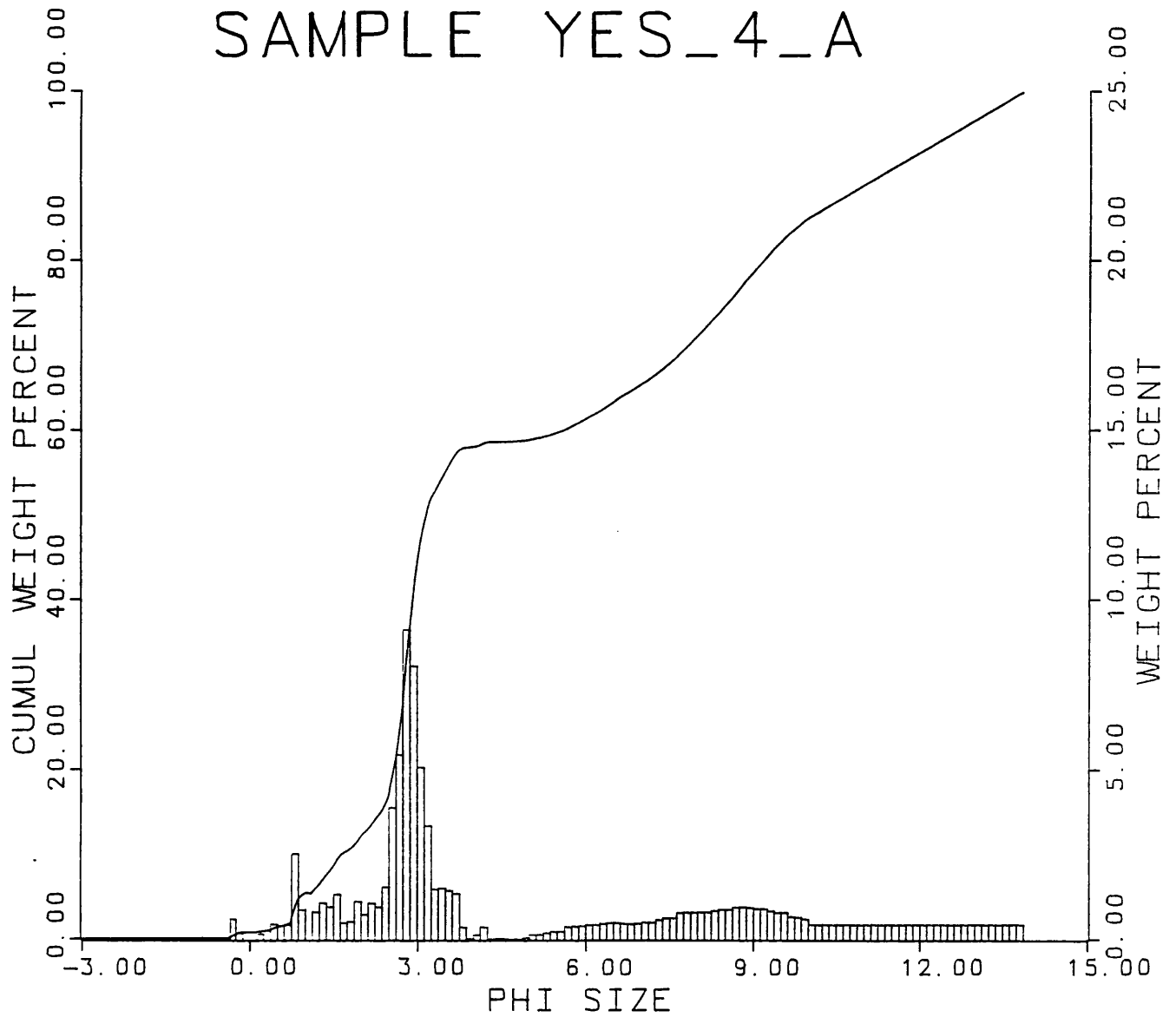
Coulter data

This data corresponds to file YES_4_A.3rd

9.4236	2.3136	0.1954	2.1164	M1	M2	M3	M4 (phi)
9.4561	9.1346	2.4617	0.1580	0.3837		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1155%	is larger than	4.6367	phi.
0.4619%	is larger than	4.9700	phi.
1.5782%	is larger than	5.3033	phi.
3.3104%	is larger than	5.6367	phi.
6.0434%	is larger than	5.9700	phi.
9.0844%	is larger than	6.3033	phi.
12.5102%	is larger than	6.6367	phi.
15.7630%	is larger than	6.9700	phi.
19.2898%	is larger than	7.3033	phi.
23.6382%	is larger than	7.6367	phi.
29.0824%	is larger than	7.9700	phi.
34.5608%	is larger than	8.3033	phi.
40.5528%	is larger than	8.6367	phi.
46.9899%	is larger than	8.9700	phi.
53.0846%	is larger than	9.3033	phi.
58.4946%	is larger than	9.6367	phi.
62.9800%	is larger than	9.9700	phi.
66.0650%	is larger than	10.3033	phi.
69.1500%	is larger than	10.6367	phi.
72.2350%	is larger than	10.9700	phi.
75.3200%	is larger than	11.3033	phi.
78.4050%	is larger than	11.6367	phi.
81.4900%	is larger than	11.9700	phi.
84.5750%	is larger than	12.3033	phi.
87.6600%	is larger than	12.6367	phi.
90.7450%	is larger than	12.9700	phi.
93.8300%	is larger than	13.3033	phi.
96.9150%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_4_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 25.2
 SAND _____ 43.8
 V-COARSE SAND - 0.7
 COARSE SAND _____ 3.5
 MEDIUM SAND _____ 5.0
 FINE SAND _____ 23.4
 V-FINE SAND _____ 11.2
 SILT _____ 12.4
 CLAY _____ 18.6

Graphic Measures

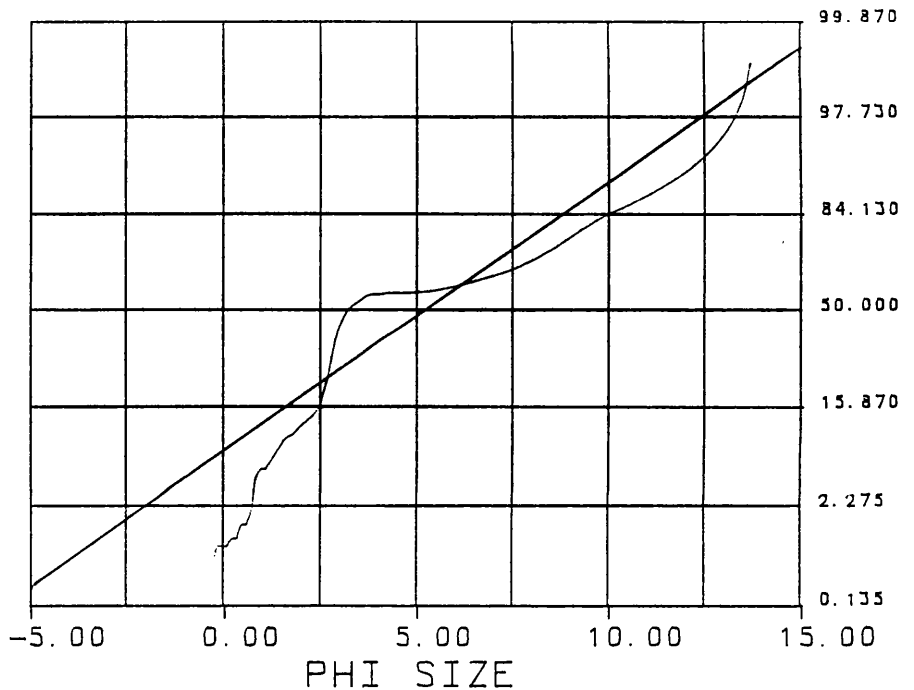
MEDIAN _____ 3.184
 MEAN _____ 5.145
 STD. DEVIATION- 3.601
 INC. SKEWNESS- 0.707
 INC. KURTOSIS- 0.642

Moment Measures

1st MOMENT _____ 5.363
 2nd MOMENT _____ 3.730
 3rd MOMENT _____ 0.704
 4th MOMENT _____ 2.165

DATE: 12-09-92

PROBABILITY CURVE



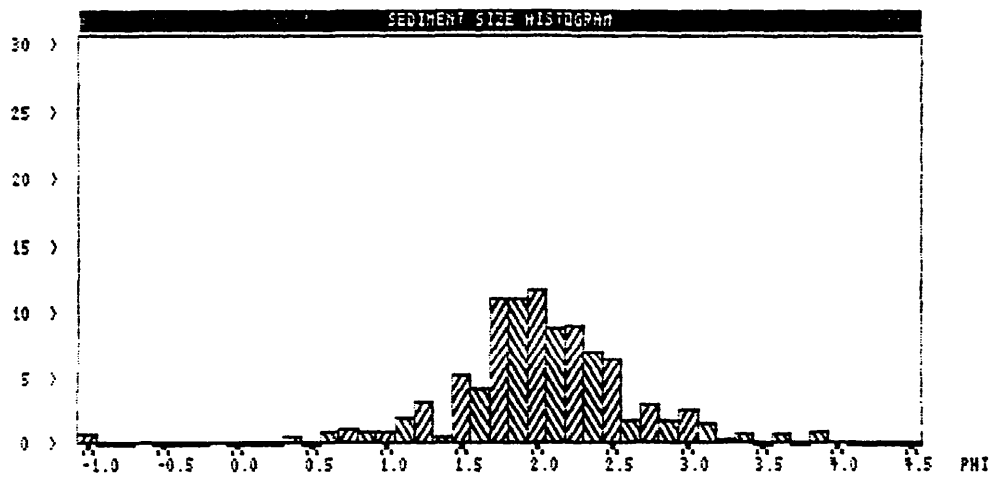
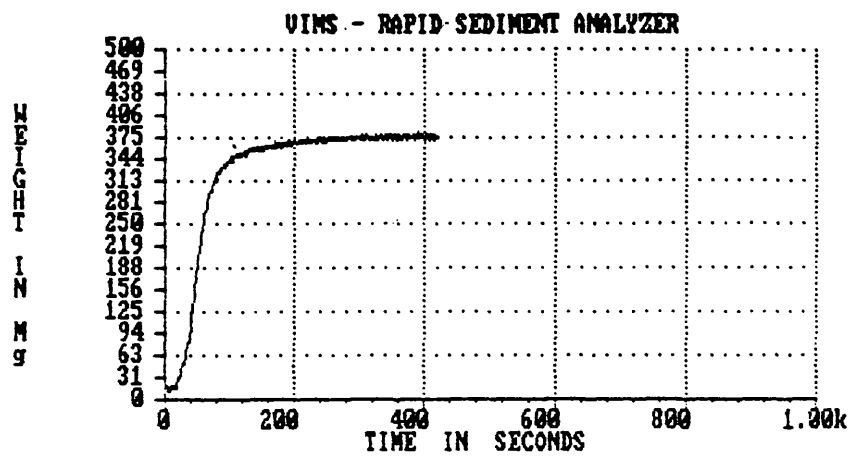
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_4_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
602.9168 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
1.9516 0.6527 -0.6477 6.6206 M1 M2 M3 M4 (phi)
1.9593 1.9480 0.5658 0.0089 0.5383 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.5293	0.6937	2.5293	0.6937
-0.8750	1.8340	18.9156	0.0000	0.0000	2.5293	0.6937
-0.7500	1.6818	17.7631	0.0000	0.0000	2.5293	0.6937
-0.6250	1.5422	16.6582	0.8942	0.2452	3.4234	0.9389
-0.5000	1.4142	15.6003	0.0000	0.0000	3.4234	0.9389
-0.3750	1.2968	14.5884	0.0000	0.0000	3.4234	0.9389
-0.2500	1.1892	13.6217	0.0000	0.0000	3.4234	0.9389
-0.1250	1.0905	12.6995	0.7365	0.2020	4.1599	1.1409
0.0000	1.0000	11.8208	0.0000	0.0000	4.1599	1.1409
0.1250	0.9170	10.9848	0.0000	0.0000	4.1599	1.1409
0.2500	0.8409	10.1905	0.0000	0.0000	4.1599	1.1409
0.3750	0.7711	9.4370	2.0475	0.5615	6.2074	1.7024
0.5000	0.7071	8.7233	0.0000	0.0000	6.2074	1.7024
0.6250	0.6484	8.0484	3.6557	1.0026	9.8631	2.7050
0.7500	0.5946	7.4111	4.5667	1.2524	14.4298	3.9574
0.8750	0.5453	6.8104	3.7814	1.0371	18.2112	4.9944
1.0000	0.5000	6.2452	3.3620	0.9220	21.5732	5.9165
1.1250	0.4585	5.7143	7.5634	2.0743	29.1366	7.9907
1.2500	0.4204	5.2167	11.9294	3.2717	41.0661	11.2624
1.3750	0.3856	4.7510	2.2151	0.6075	43.2812	11.8699
1.5000	0.3536	4.3163	19.2893	5.2901	62.5705	17.1600
1.6250	0.3242	3.9113	15.0076	4.1159	77.5781	21.2759
1.7500	0.2973	3.5349	40.0644	10.9877	117.6426	32.2636
1.8750	0.2726	3.1860	40.0028	10.9708	157.6454	43.2344
2.0000	0.2500	2.8634	42.2411	11.5846	199.8864	54.8190
2.1250	0.2293	2.5660	32.4094	8.8883	232.2958	63.7073
2.2500	0.2102	2.2927	33.0963	9.0767	265.3921	72.7840
2.3750	0.1928	2.0423	25.5327	7.0024	290.9248	79.7863
2.5000	0.1768	1.8137	23.3627	6.4072	314.2875	86.1936
2.6250	0.1621	1.6058	6.2486	1.7137	320.5361	87.9073
2.7500	0.1487	1.4175	10.8604	2.9785	331.3965	90.8857
2.8750	0.1363	1.2476	6.8002	1.8650	338.1967	92.7507
3.0000	0.1250	1.0949	9.2977	2.5499	347.4944	95.3006
3.1250	0.1146	0.9582	5.8343	1.6001	353.3286	96.9006
3.2500	0.1051	0.8364	1.6416	0.4502	354.9703	97.3508
3.3750	0.0964	0.7282	2.7579	0.7564	357.7281	98.1072
3.5000	0.0884	0.6326	0.0327	0.0090	357.7609	98.1162
3.6250	0.0811	0.5484	2.8413	0.7792	360.6022	98.8954
3.7500	0.0743	0.4744	0.1658	0.0455	360.7679	98.9409
3.8750	0.0682	0.4098	3.3112	0.9081	364.0791	99.8490
4.0000	0.0625	0.3533	0.5508	0.1510	364.6299	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	364.6299	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	364.6299	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	364.6299	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	364.6299	100.0000

* - fall velocity of natural grains in fresh water at 20oC



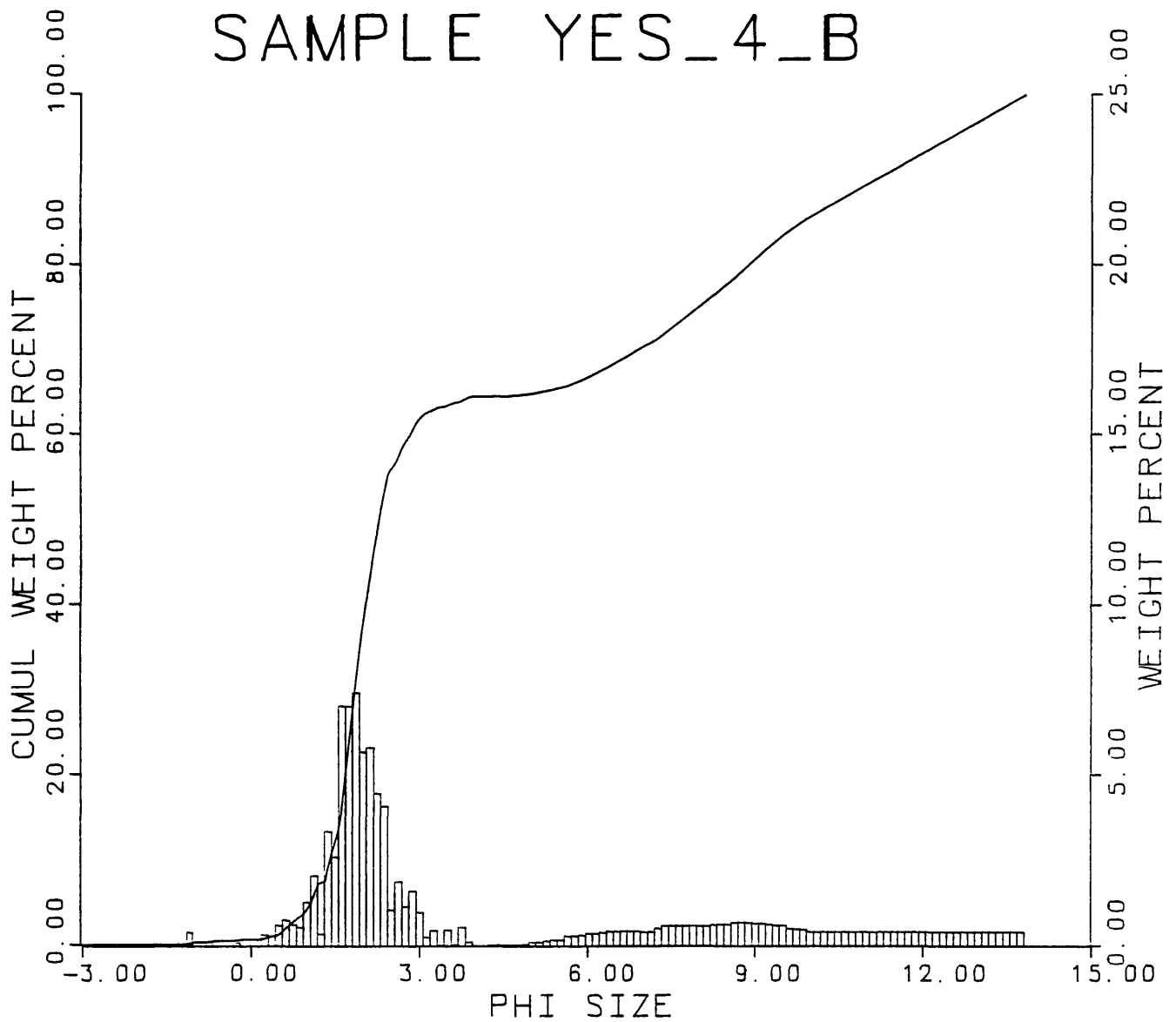
Coulter data

This data corresponds to file YES_4_B.3rd

9.5361	2.3800	0.1091	2.0102	M1	M2	M3	M4 (phi)
9.5620	9.3133	2.5253	0.1129	0.3740			Mz, Md, SI, SKI, KG

0.1525%	is larger than	3.9700	phi.
0.1525%	is larger than	4.3033	phi.
0.4194%	is larger than	4.6367	phi.
0.9532%	is larger than	4.9700	phi.
2.0589%	is larger than	5.3033	phi.
3.6222%	is larger than	5.6367	phi.
6.0623%	is larger than	5.9700	phi.
9.0745%	is larger than	6.3033	phi.
12.5441%	is larger than	6.6367	phi.
16.1424%	is larger than	6.9700	phi.
19.5198%	is larger than	7.3033	phi.
24.3176%	is larger than	7.6367	phi.
29.1153%	is larger than	7.9700	phi.
33.8815%	is larger than	8.3033	phi.
38.9950%	is larger than	8.6367	phi.
44.5187%	is larger than	8.9700	phi.
49.8531%	is larger than	9.3033	phi.
54.7455%	is larger than	9.6367	phi.
58.8173%	is larger than	9.9700	phi.
62.2492%	is larger than	10.3033	phi.
65.6311%	is larger than	10.6367	phi.
69.1130%	is larger than	10.9700	phi.
72.5449%	is larger than	11.3033	phi.
75.9768%	is larger than	11.6367	phi.
79.4087%	is larger than	11.9700	phi.
82.8405%	is larger than	12.3033	phi.
86.2724%	is larger than	12.6367	phi.
89.7043%	is larger than	12.9700	phi.
93.1362%	is larger than	13.3033	phi.
96.5681%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_4_B



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 4.2
 SAND ——— 61.5
 V-COARSE SAND — 0.3
 COARSE SAND — 3.0
 MEDIUM SAND — 30.3
 FINE SAND — 25.0
 V-FINE SAND — 3.0
 SILT ——— 11.3
 CLAY ——— 23.0

Graphic Measures

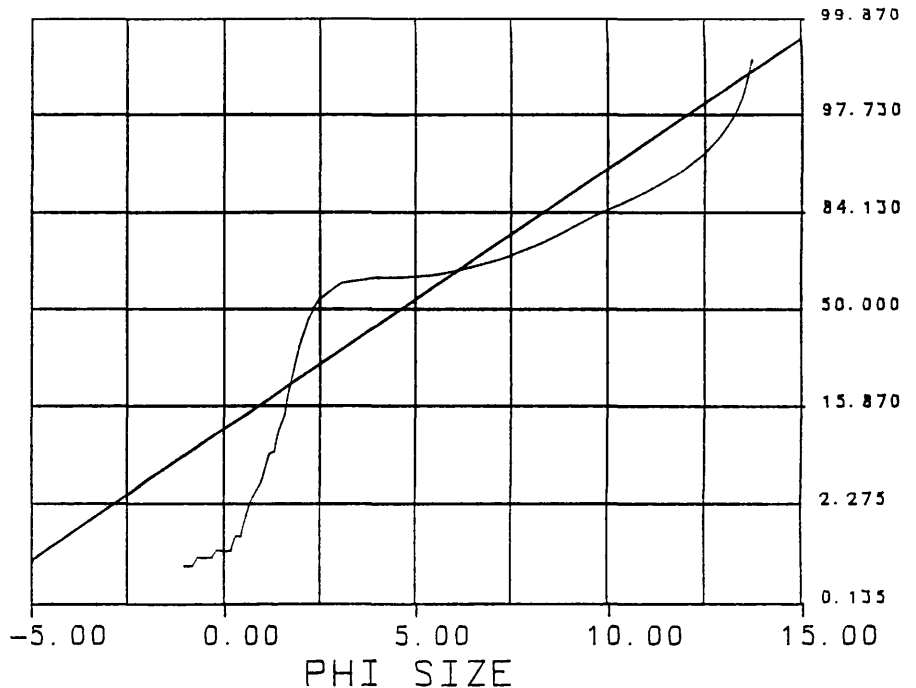
MEDIAN ——— 2.336
 MEAN ——— 4.540
 STD. DEVIATION — 3.718
 INC. SKEWNESS — 0.808
 INC. KURTOSIS — 0.646

Moment Measures

1st MOMENT ——— 4.637
 2nd MOMENT ——— 3.914
 3rd MOMENT ——— 0.925
 4th MOMENT ——— 2.377

DATE: 12-09-92

PROBABILITY CURVE



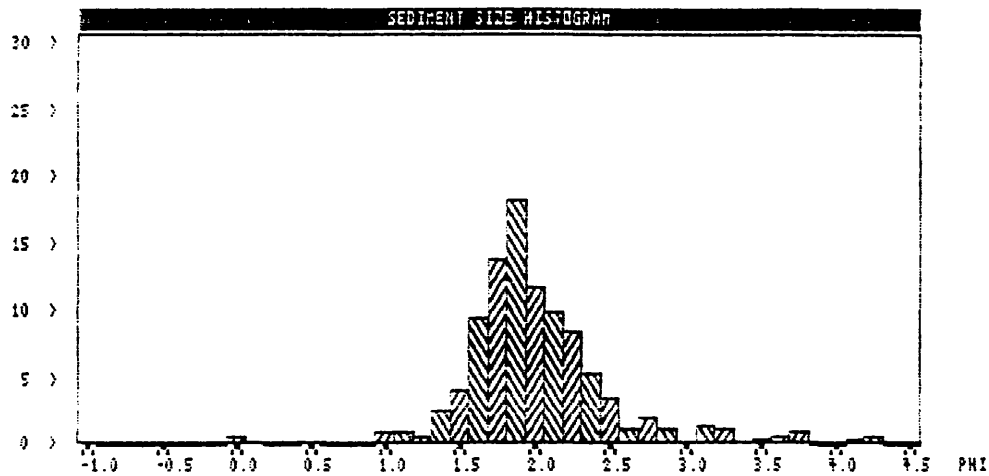
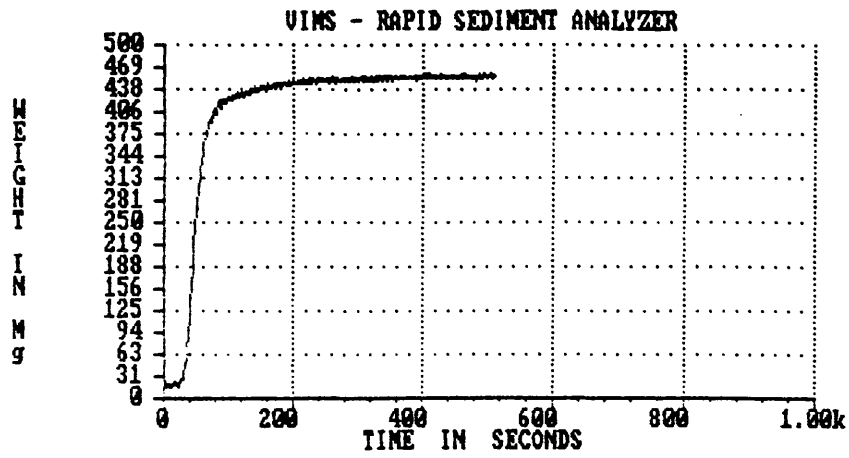
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_4_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
733.7642 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
1.9506 0.5398 0.6489 8.1759 M1 M2 M3 M4 (phi)
1.9177 1.8654 0.4421 0.2895 0.4761 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.6977	0.1567	0.6977	0.1567
-0.8750	1.8340	18.9156	0.0000	0.0000	0.6977	0.1567
-0.7500	1.6818	17.7631	0.0000	0.0000	0.6977	0.1567
-0.6250	1.5422	16.6582	0.0000	0.0000	0.6977	0.1567
-0.5000	1.4142	15.6003	0.0000	0.0000	0.6977	0.1567
-0.3750	1.2968	14.5884	0.0000	0.0000	0.6977	0.1567
-0.2500	1.1892	13.6217	0.0000	0.0000	0.6977	0.1567
-0.1250	1.0905	12.6995	0.0000	0.0000	0.6977	0.1567
0.0000	1.0000	11.8208	2.6545	0.5963	3.3522	0.7530
0.1250	0.9170	10.9848	0.4018	0.0903	3.7540	0.8433
0.2500	0.8409	10.1905	0.0000	0.0000	3.7540	0.8433
0.3750	0.7711	9.4370	0.0000	0.0000	3.7540	0.8433
0.5000	0.7071	8.7233	1.0626	0.2387	4.8166	1.0820
0.6250	0.6484	8.0484	0.0000	0.0000	4.8166	1.0820
0.7500	0.5946	7.4111	0.0000	0.0000	4.8166	1.0820
0.8750	0.5453	6.8104	0.0000	0.0000	4.8166	1.0820
1.0000	0.5000	6.2452	4.1129	0.9239	8.9295	2.0059
1.1250	0.4585	5.7143	4.6698	1.0490	13.5993	3.0549
1.2500	0.4204	5.2167	2.0752	0.4662	15.6745	3.5211
1.3750	0.3856	4.7510	11.1640	2.5078	26.8385	6.0289
1.5000	0.3536	4.3163	18.6667	4.1932	45.5052	10.2221
1.6250	0.3242	3.9113	41.9013	9.4126	87.4065	19.6347
1.7500	0.2973	3.5349	60.6406	13.6221	148.0471	33.2569
1.8750	0.2726	3.1860	80.7587	18.1414	228.8058	51.3982
2.0000	0.2500	2.8634	52.0350	11.6890	280.8408	63.0872
2.1250	0.2293	2.5660	44.0168	9.8878	324.8576	72.9750
2.2500	0.2102	2.2927	37.3521	8.3907	362.2097	81.3657
2.3750	0.1928	2.0423	24.0371	5.3996	386.2468	86.7653
2.5000	0.1768	1.8137	15.5944	3.5031	401.8412	90.2684
2.6250	0.1621	1.6058	5.2093	1.1702	407.0505	91.4386
2.7500	0.1487	1.4175	8.6266	1.9379	415.6771	93.3764
2.8750	0.1363	1.2476	5.2547	1.1804	420.9318	94.5569
3.0000	0.1250	1.0949	0.5955	0.1338	421.5273	94.6906
3.1250	0.1146	0.9582	5.6898	1.2781	427.2171	95.9688
3.2500	0.1051	0.8364	5.6158	1.2615	432.8328	97.2303
3.3750	0.0964	0.7282	0.3337	0.0750	433.1666	97.3052
3.5000	0.0884	0.6326	1.2825	0.2881	434.4491	97.5933
3.6250	0.0811	0.5484	2.3086	0.5186	436.7577	98.1119
3.7500	0.0743	0.4744	4.3724	0.9822	441.1301	99.0941
3.8750	0.0682	0.4098	0.0000	0.0000	441.1301	99.0941
4.0000	0.0625	0.3533	0.0000	0.0000	441.1301	99.0941
4.1250	0.0573	0.3043	1.7291	0.3884	442.8592	99.4826
4.2500	0.0526	0.2617	2.3035	0.5174	445.1627	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	445.1627	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	445.1627	100.0000

* - fall velocity of natural grains in fresh water at 20oC

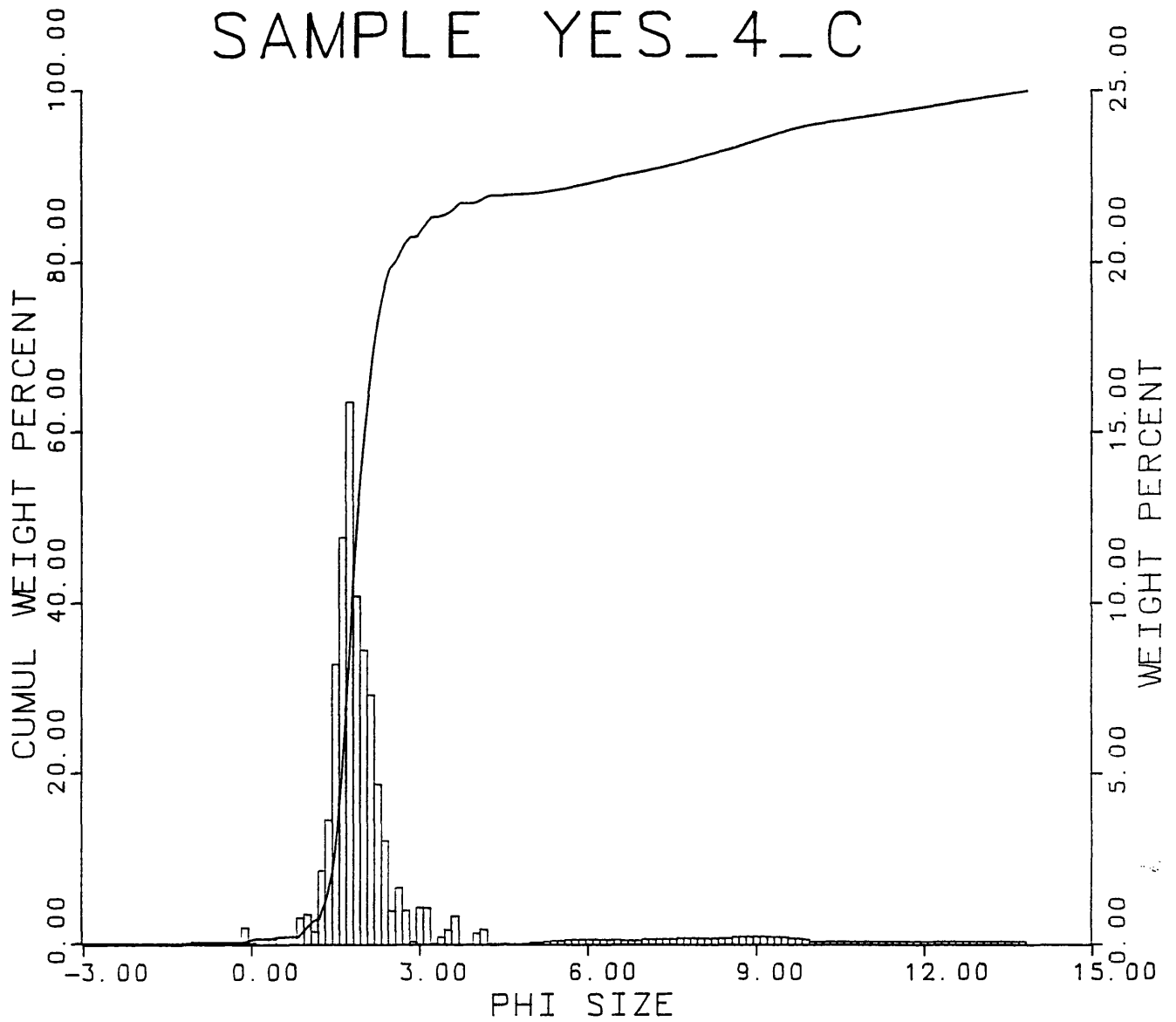


Coulter data
This data corresponds to file YES_4_C.3rd

				M1	M2	M3	M4 (phi)
9.0582	2.4451	0.2137	2.1389				
9.0851	8.8918	2.6185	0.1118	0.4100			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.5488%	is larger than	4.3033	phi.
1.1433%	is larger than	4.6367	phi.
2.0122%	is larger than	4.9700	phi.
4.1616%	is larger than	5.3033	phi.
7.3628%	is larger than	5.6367	phi.
11.2957%	is larger than	5.9700	phi.
15.3658%	is larger than	6.3033	phi.
19.2072%	is larger than	6.6367	phi.
22.5485%	is larger than	6.9700	phi.
26.7024%	is larger than	7.3033	phi.
31.0370%	is larger than	7.6367	phi.
35.9585%	is larger than	7.9700	phi.
40.7446%	is larger than	8.3033	phi.
45.5758%	is larger than	8.6367	phi.
51.3552%	is larger than	8.9700	phi.
57.3604%	is larger than	9.3033	phi.
62.8689%	is larger than	9.6367	phi.
67.4292%	is larger than	9.9700	phi.
70.1434%	is larger than	10.3033	phi.
72.8577%	is larger than	10.6367	phi.
75.5719%	is larger than	10.9700	phi.
78.2961%	is larger than	11.3033	phi.
81.0004%	is larger than	11.6367	phi.
83.7146%	is larger than	11.9700	phi.
86.4288%	is larger than	12.3033	phi.
89.1431%	is larger than	12.6367	phi.
91.8573%	is larger than	12.9700	phi.
94.5715%	is larger than	13.3033	phi.
97.2858%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_4_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.2
 SAND _____ 87.6
 V-COARSE SAND - 0.5
 COARSE SAND _____ 1.1
 MEDIUM SAND _____ 54.1
 FINE SAND _____ 28.0
 V-FINE SAND _____ 3.9
 SILT _____ 5.8
 CLAY _____ 6.4

Graphic Measures

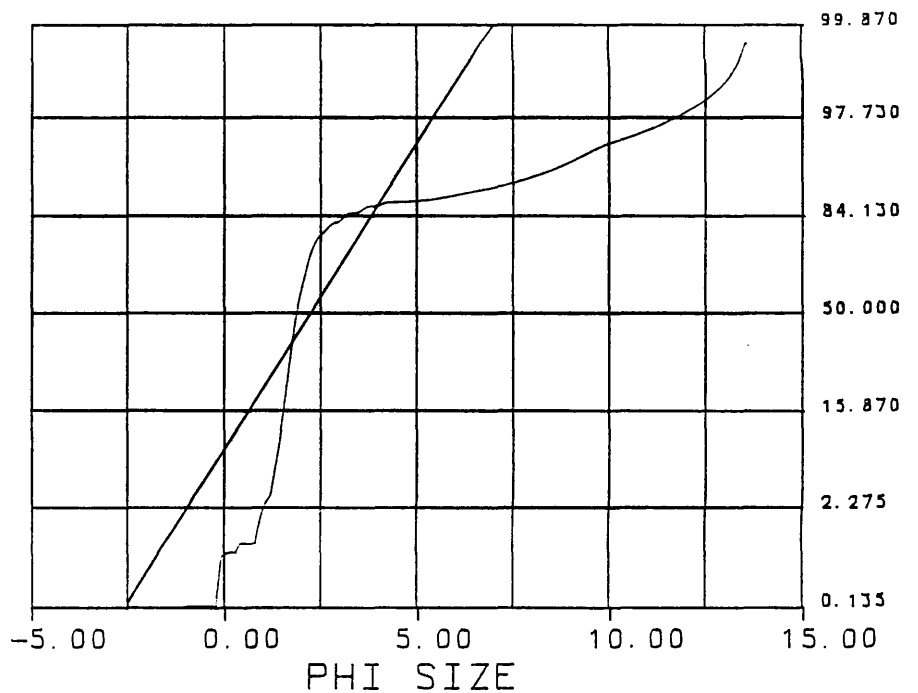
MEDIAN _____ 1.934
 MEAN _____ 2.210
 STD. DEVIATION- 1.584
 INC. SKEWNESS- 0.707
 INC. KURTOSIS- 1.997

Moment Measures

1st MOMENT _____ 2.809
 2nd MOMENT _____ 2.509
 3rd MOMENT _____ 2.630
 4th MOMENT _____ 9.198

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

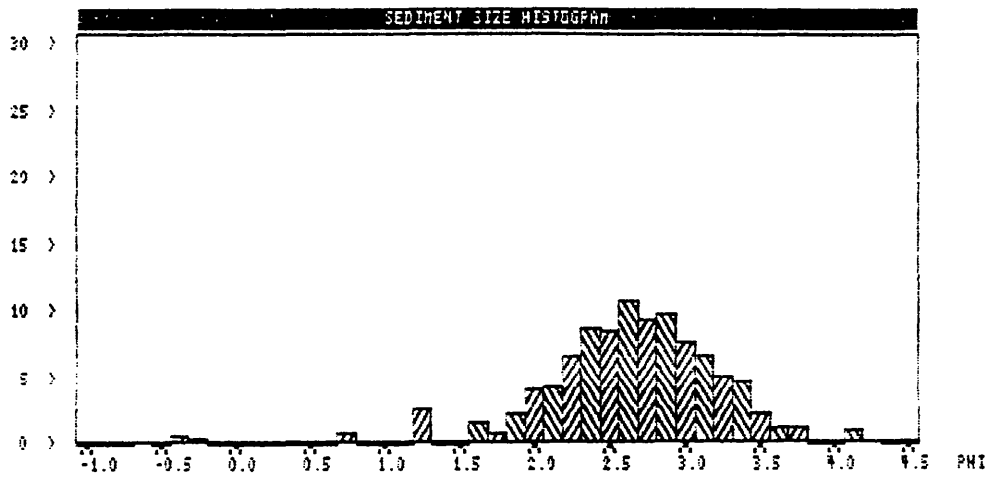
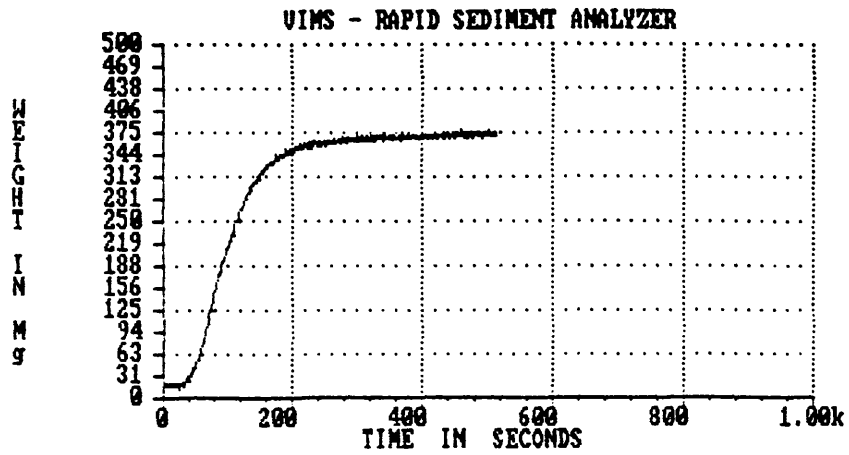
Y_6_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 600.9580 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
 2.5637 0.6337 -1.3201 7.7417 M1 M2 M3 M4 (phi)
 2.6047 2.6096 0.5387 -0.0790 0.3803 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.5104	0.1382	0.5104	0.1382
-0.5000	1.4142	15.6003	0.0000	0.0000	0.5104	0.1382
-0.3750	1.2968	14.5884	1.9120	0.5178	2.4223	0.6561
-0.2500	1.1892	13.6217	1.6994	0.4603	4.1217	1.1163
-0.1250	1.0905	12.6995	0.0000	0.0000	4.1217	1.1163
0.0000	1.0000	11.8208	0.0000	0.0000	4.1217	1.1163
0.1250	0.9170	10.9848	0.0000	0.0000	4.1217	1.1163
0.2500	0.8409	10.1905	0.0000	0.0000	4.1217	1.1163
0.3750	0.7711	9.4370	0.0000	0.0000	4.1217	1.1163
0.5000	0.7071	8.7233	0.0000	0.0000	4.1217	1.1163
0.6250	0.6484	8.0484	0.0000	0.0000	4.1217	1.1163
0.7500	0.5946	7.4111	2.7246	0.7379	6.8463	1.8542
0.8750	0.5453	6.8104	0.0000	0.0000	6.8463	1.8542
1.0000	0.5000	6.2452	0.0000	0.0000	6.8463	1.8542
1.1250	0.4585	5.7143	0.0000	0.0000	6.8463	1.8542
1.2500	0.4204	5.2167	9.8268	2.6615	16.6731	4.5157
1.3750	0.3856	4.7510	0.0000	0.0000	16.6731	4.5157
1.5000	0.3536	4.3163	0.0000	0.0000	16.6731	4.5157
1.6250	0.3242	3.9113	5.9317	1.6065	22.6048	6.1223
1.7500	0.2973	3.5349	2.8106	0.7612	25.4154	6.8835
1.8750	0.2726	3.1860	7.8609	2.1291	33.2763	9.0126
2.0000	0.2500	2.8634	14.4796	3.9217	47.7560	12.9343
2.1250	0.2293	2.5660	15.2377	4.1270	62.9937	17.0612
2.2500	0.2102	2.2927	24.4637	6.6258	87.4573	23.6870
2.3750	0.1928	2.0423	31.5866	8.5549	119.0440	32.2420
2.5000	0.1768	1.8137	31.1348	8.4326	150.1788	40.6745
2.6250	0.1621	1.6058	39.2685	10.6355	189.4472	51.3100
2.7500	0.1487	1.4175	34.3563	9.3051	223.8035	60.6151
2.8750	0.1363	1.2476	36.0155	9.7545	259.8191	70.3696
3.0000	0.1250	1.0949	28.3395	7.6755	288.1586	78.0451
3.1250	0.1146	0.9582	24.6301	6.6708	312.7887	84.7159
3.2500	0.1051	0.8364	18.4136	4.9872	331.2023	89.7030
3.3750	0.0964	0.7282	17.1762	4.6520	348.3785	94.3551
3.5000	0.0884	0.6326	7.9679	2.1580	356.3464	96.5131
3.6250	0.0811	0.5484	4.5725	1.2384	360.9189	97.7515
3.7500	0.0743	0.4744	3.9515	1.0702	364.8704	98.8217
3.8750	0.0682	0.4098	0.0000	0.0000	364.8704	98.8217
4.0000	0.0625	0.3533	0.0000	0.0000	364.8704	98.8217
4.1250	0.0573	0.3043	3.4865	0.9443	368.3569	99.7660
4.2500	0.0526	0.2617	0.8639	0.2340	369.2208	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	369.2208	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	369.2208	100.0000

* - fall velocity of natural grains in fresh water at 20oC

Y_6_A



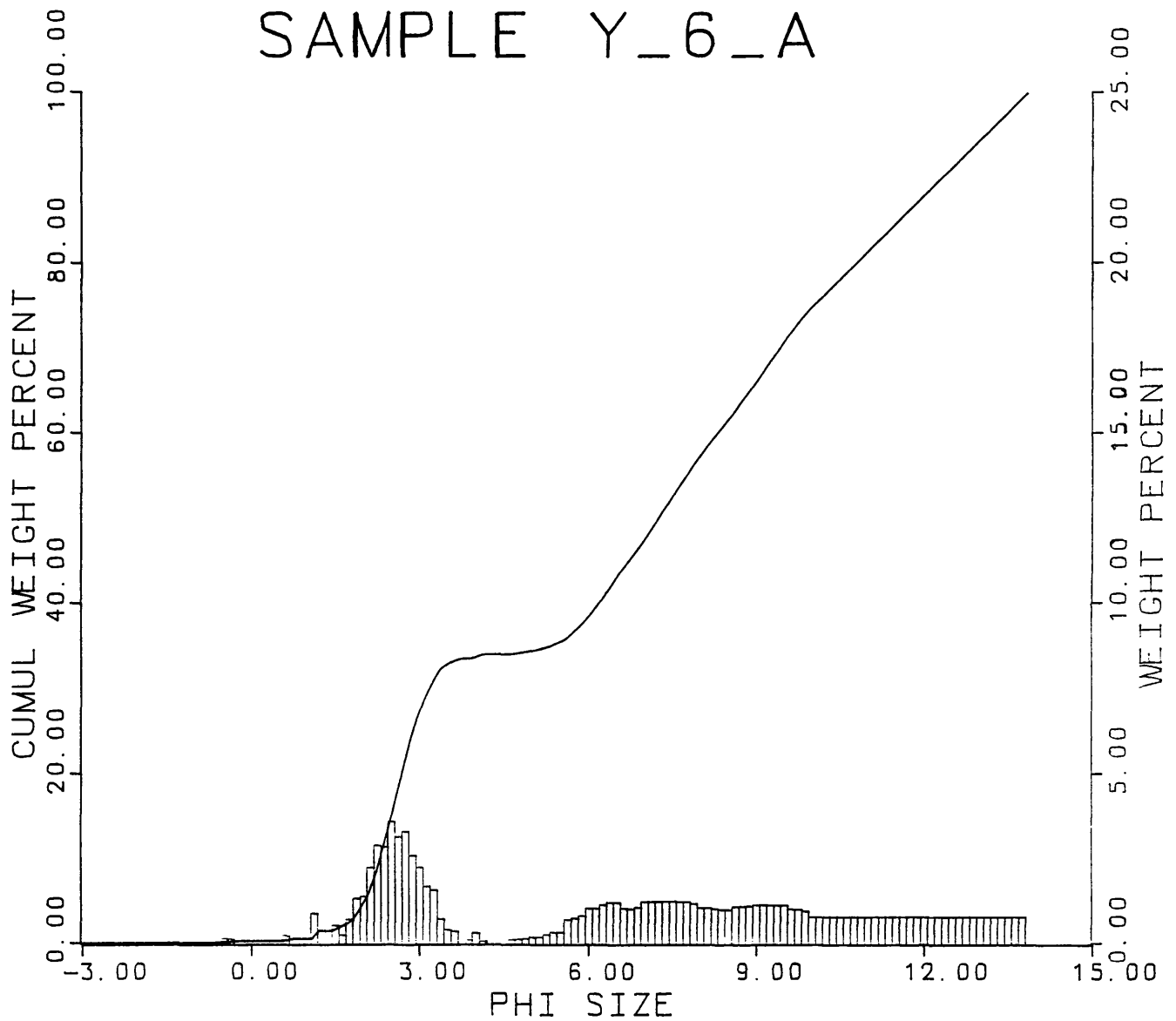
Coulter data

This data corresponds to file Y_6_A.3rd

9.3688	2.4173	0.2133	1.9227	M1	M2	M3	M4 (phi)
9.3973	9.1562	2.5593	0.1307	0.3704		Mz, Md, SI, SKI, KG	

0.1721%	is larger than	3.9700	phi.
0.1721%	is larger than	4.3033	phi.
0.1721%	is larger than	4.6367	phi.
0.7316%	is larger than	4.9700	phi.
1.5492%	is larger than	5.3033	phi.
2.9263%	is larger than	5.6367	phi.
5.9817%	is larger than	5.9700	phi.
10.2420%	is larger than	6.3033	phi.
15.1909%	is larger than	6.6367	phi.
19.3744%	is larger than	6.9700	phi.
24.4115%	is larger than	7.3033	phi.
29.4914%	is larger than	7.6367	phi.
34.4859%	is larger than	7.9700	phi.
38.7974%	is larger than	8.3033	phi.
42.8954%	is larger than	8.6367	phi.
47.3777%	is larger than	8.9700	phi.
52.0734%	is larger than	9.3033	phi.
56.7264%	is larger than	9.6367	phi.
60.8671%	is larger than	9.9700	phi.
64.1282%	is larger than	10.3033	phi.
67.3893%	is larger than	10.6367	phi.
70.6503%	is larger than	10.9700	phi.
73.9114%	is larger than	11.3033	phi.
77.1725%	is larger than	11.6367	phi.
80.4336%	is larger than	11.9700	phi.
83.6946%	is larger than	12.3033	phi.
86.9557%	is larger than	12.6367	phi.
90.2168%	is larger than	12.9700	phi.
93.4779%	is larger than	13.3033	phi.
96.7389%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE Y_6_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.5
 SAND _____ 33.6
 V-COARSE SAND _____ 0.4
 COARSE SAND _____ 0.3
 MEDIUM SAND _____ 3.8
 FINE SAND _____ 22.1
 V-FINE SAND _____ 7.2
 SILT _____ 24.0
 CLAY _____ 41.9

Graphic Measures

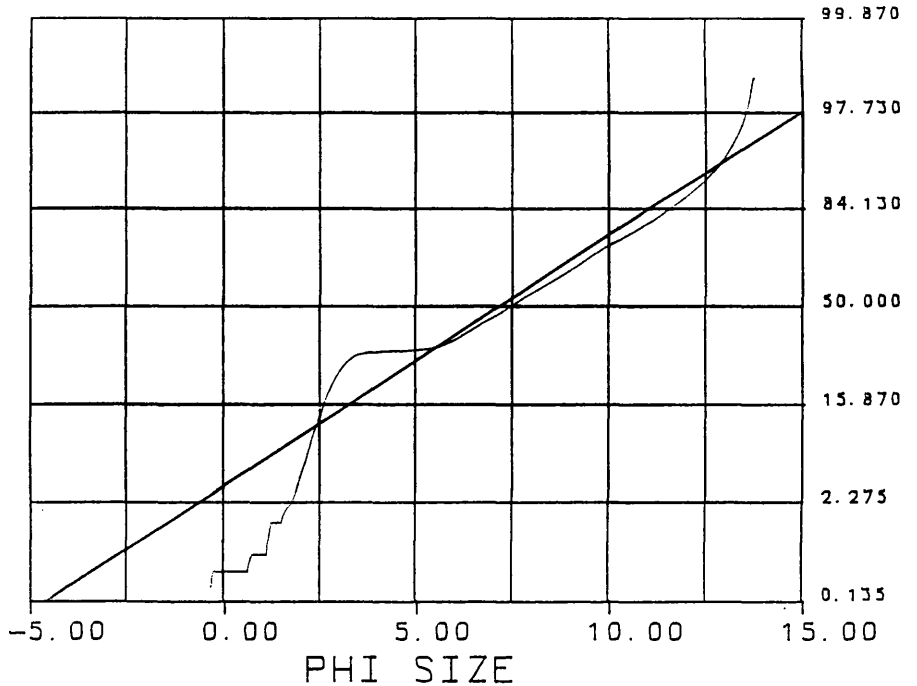
MEDIAN _____ 7.279
 MEAN _____ 7.092
 STD. DEVIATION _____ 3.886
 INC. SKEWNESS _____ -0.004
 INC. KURTOSIS _____ 0.512

Moment Measures

1st MOMENT _____ 7.033
 2nd MOMENT _____ 3.771
 3rd MOMENT _____ 0.068
 4th MOMENT _____ 1.737

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

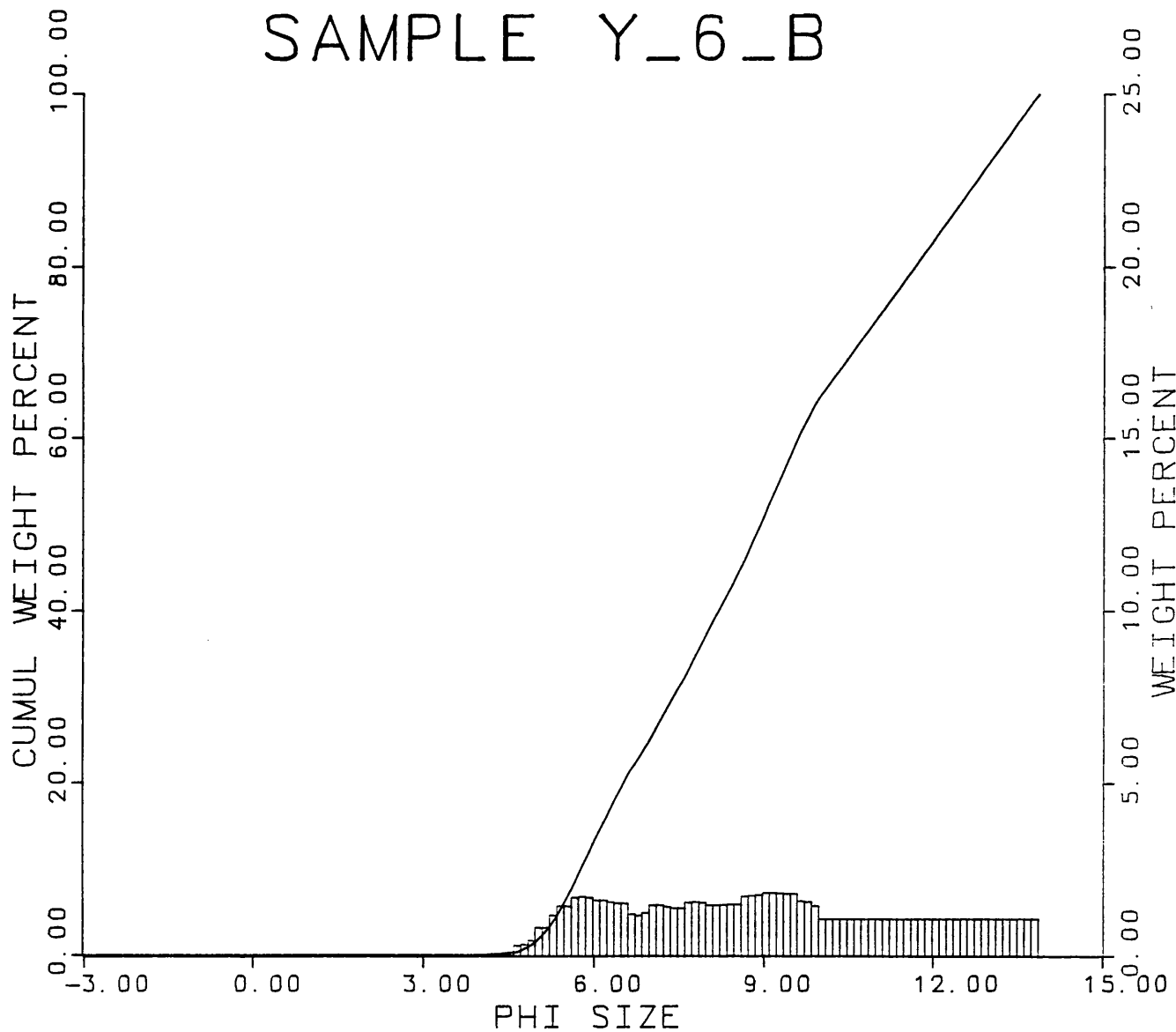
Coulter data

This data corresponds to file Y_6_B.3rd

9.1385	2.5290	0.1710	1.9491	M1	M2	M3	M4 (phi)
9.1454	8.9962	2.7020	0.0897	0.3942	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.1342%	is larger than	4.3033	phi.
0.3578%	is larger than	4.6367	phi.
1.3866%	is larger than	4.9700	phi.
3.7125%	is larger than	5.3033	phi.
7.6933%	is larger than	5.6367	phi.
12.3898%	is larger than	5.9700	phi.
16.8179%	is larger than	6.3033	phi.
21.0223%	is larger than	6.6367	phi.
24.3042%	is larger than	6.9700	phi.
28.3946%	is larger than	7.3033	phi.
32.2471%	is larger than	7.6367	phi.
36.5753%	is larger than	7.9700	phi.
40.6657%	is larger than	8.3033	phi.
44.8037%	is larger than	8.6367	phi.
49.6075%	is larger than	8.9700	phi.
54.6016%	is larger than	9.3033	phi.
59.5481%	is larger than	9.6367	phi.
63.8764%	is larger than	9.9700	phi.
66.8867%	is larger than	10.3033	phi.
69.8970%	is larger than	10.6367	phi.
72.9073%	is larger than	10.9700	phi.
75.9176%	is larger than	11.3033	phi.
78.9279%	is larger than	11.6367	phi.
81.9382%	is larger than	11.9700	phi.
84.9485%	is larger than	12.3033	phi.
87.9588%	is larger than	12.6367	phi.
90.9691%	is larger than	12.9700	phi.
93.9794%	is larger than	13.3033	phi.
96.9897%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE Y_6_B



Sample Location
 LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

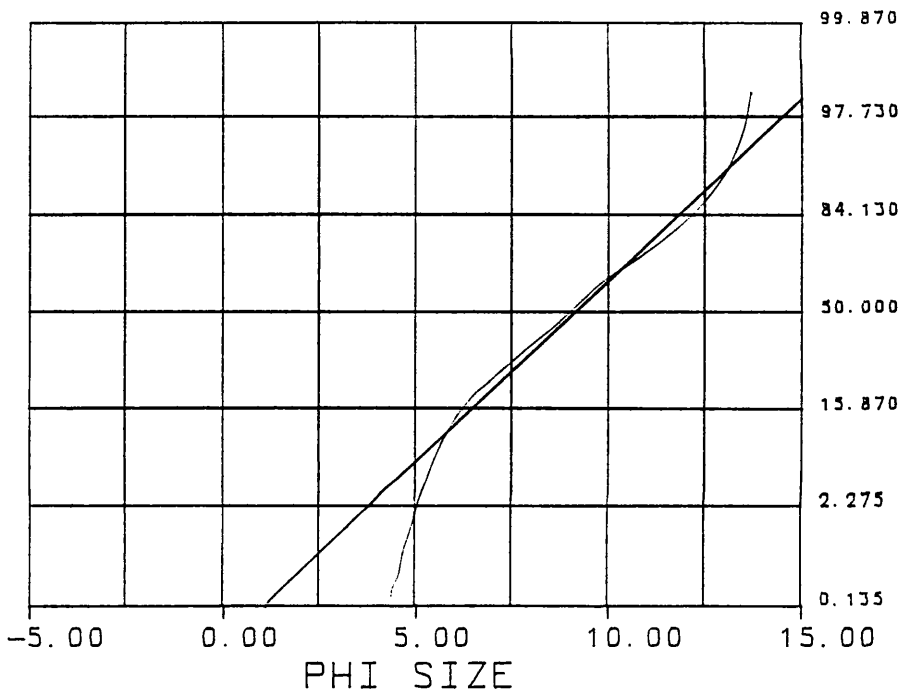
Gross Parameters (%)
 GRAVEL _____ 0.0
 SAND _____ 3.9
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 3.9
 SILT _____ 39.9
 CLAY _____ 56.2

Graphic Measures
 MEDIAN _____ 8.967
 MEAN _____ 9.103
 STD. DEVIATION- 2.672
 INC. SKEWNESS- 0.086
 INC. KURTOSIS- 0.393

Moment Measures
 1st MOMENT _____ 9.097
 2nd MOMENT _____ 2.502
 3rd MOMENT _____ 0.167
 4th MOMENT _____ 1.934

DATE: 12-09-92

PROBABILITY CURVE



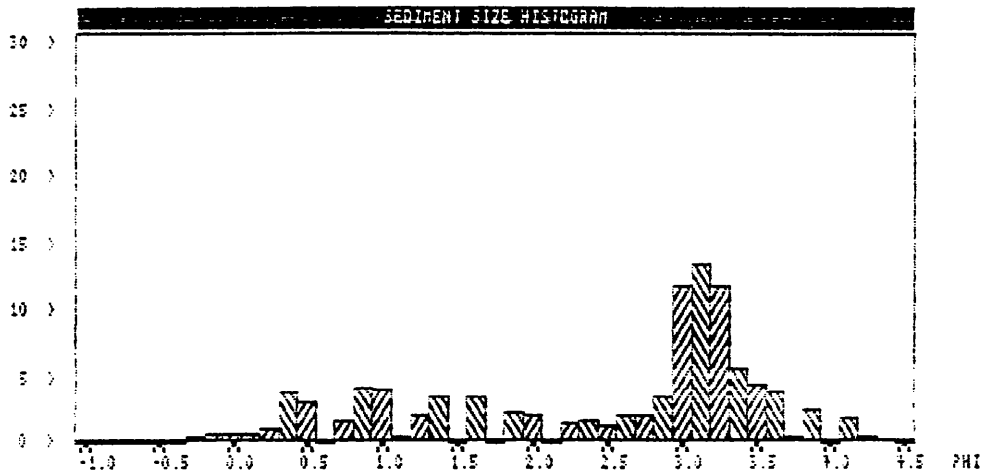
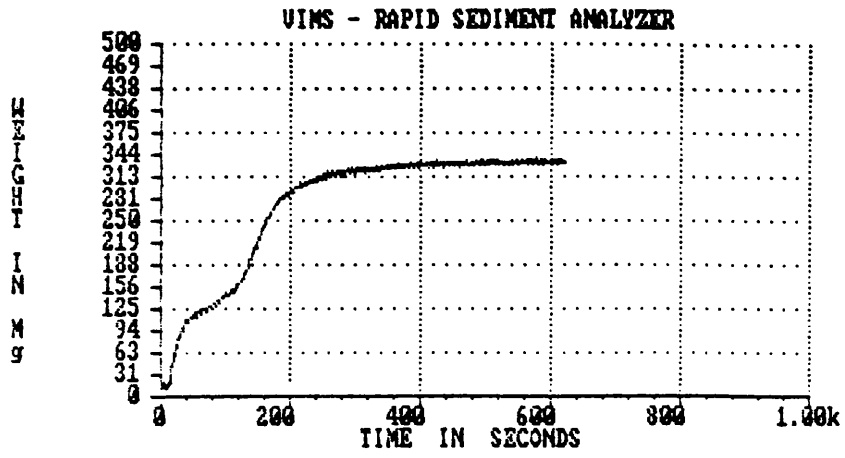
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_6_C_

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
534.7507 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.3914 1.1223 -0.7366 2.2121 M1 M2 M3 M4 (phi)
2.3750 2.9333 1.1149 -0.6290 0.5210 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	1.2210	0.3805	1.2210	0.3805
-0.1250	1.0905	12.6995	2.1246	0.6621	3.3456	1.0426
0.0000	1.0000	11.8208	1.7032	0.5308	5.0488	1.5734
0.1250	0.9170	10.9848	2.0154	0.6281	7.0642	2.2015
0.2500	0.8409	10.1905	3.1162	0.9712	10.1804	3.1727
0.3750	0.7711	9.4370	12.4356	3.8755	22.6160	7.0481
0.5000	0.7071	8.7233	9.7870	3.0501	32.4030	10.0982
0.6250	0.6484	8.0484	0.0000	0.0000	32.4030	10.0982
0.7500	0.5946	7.4111	4.8024	1.4966	37.2055	11.5949
0.8750	0.5453	6.8104	13.6923	4.2671	50.8978	15.8620
1.0000	0.5000	6.2452	13.0173	4.0567	63.9150	19.9187
1.1250	0.4585	5.7143	1.2359	0.3852	65.1510	20.3039
1.2500	0.4204	5.2167	6.1921	1.9297	71.3431	22.2336
1.3750	0.3856	4.7510	11.0014	3.4285	82.3445	25.6621
1.5000	0.3536	4.3163	0.0000	0.0000	82.3445	25.6621
1.6250	0.3242	3.9113	11.0845	3.4544	93.4290	29.1166
1.7500	0.2973	3.5349	0.0000	0.0000	93.4290	29.1166
1.8750	0.2726	3.1860	7.3125	2.2789	100.7414	31.3954
2.0000	0.2500	2.8634	6.4255	2.0025	107.1670	33.3979
2.1250	0.2293	2.5660	0.0000	0.0000	107.1670	33.3979
2.2500	0.2102	2.2927	4.1884	1.3053	111.3553	34.7032
2.3750	0.1928	2.0423	4.8135	1.5001	116.1688	36.2033
2.5000	0.1768	1.8137	3.6990	1.1528	119.8678	37.3561
2.6250	0.1621	1.6058	6.1978	1.9315	126.0656	39.2876
2.7500	0.1487	1.4175	6.1888	1.9287	132.2544	41.2163
2.8750	0.1363	1.2476	10.6540	3.3202	142.9084	44.5365
3.0000	0.1250	1.0949	37.5886	11.7143	190.4970	56.2508
3.1250	0.1146	0.9582	42.6062	13.2780	223.1032	69.5287
3.2500	0.1051	0.8364	37.3227	11.6314	260.4259	81.1601
3.3750	0.0964	0.7282	18.2434	5.6854	278.6692	86.8455
3.5000	0.0884	0.6326	13.9724	4.3544	292.6416	91.2000
3.6250	0.0811	0.5484	11.8696	3.6991	304.5112	94.8990
3.7500	0.0743	0.4744	1.4599	0.4550	305.9711	95.3540
3.8750	0.0682	0.4098	7.7903	2.4278	313.7614	97.7818
4.0000	0.0625	0.3533	0.0000	0.0000	313.7614	97.7818
4.1250	0.0573	0.3043	5.8386	1.8196	319.6000	99.6014
4.2500	0.0526	0.2617	0.9303	0.2899	320.5304	99.8913
4.3750	0.0482	0.2248	0.3487	0.1087	320.8791	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	320.8791	100.0000

* - fall velocity of natural grains in fresh water at 20oC

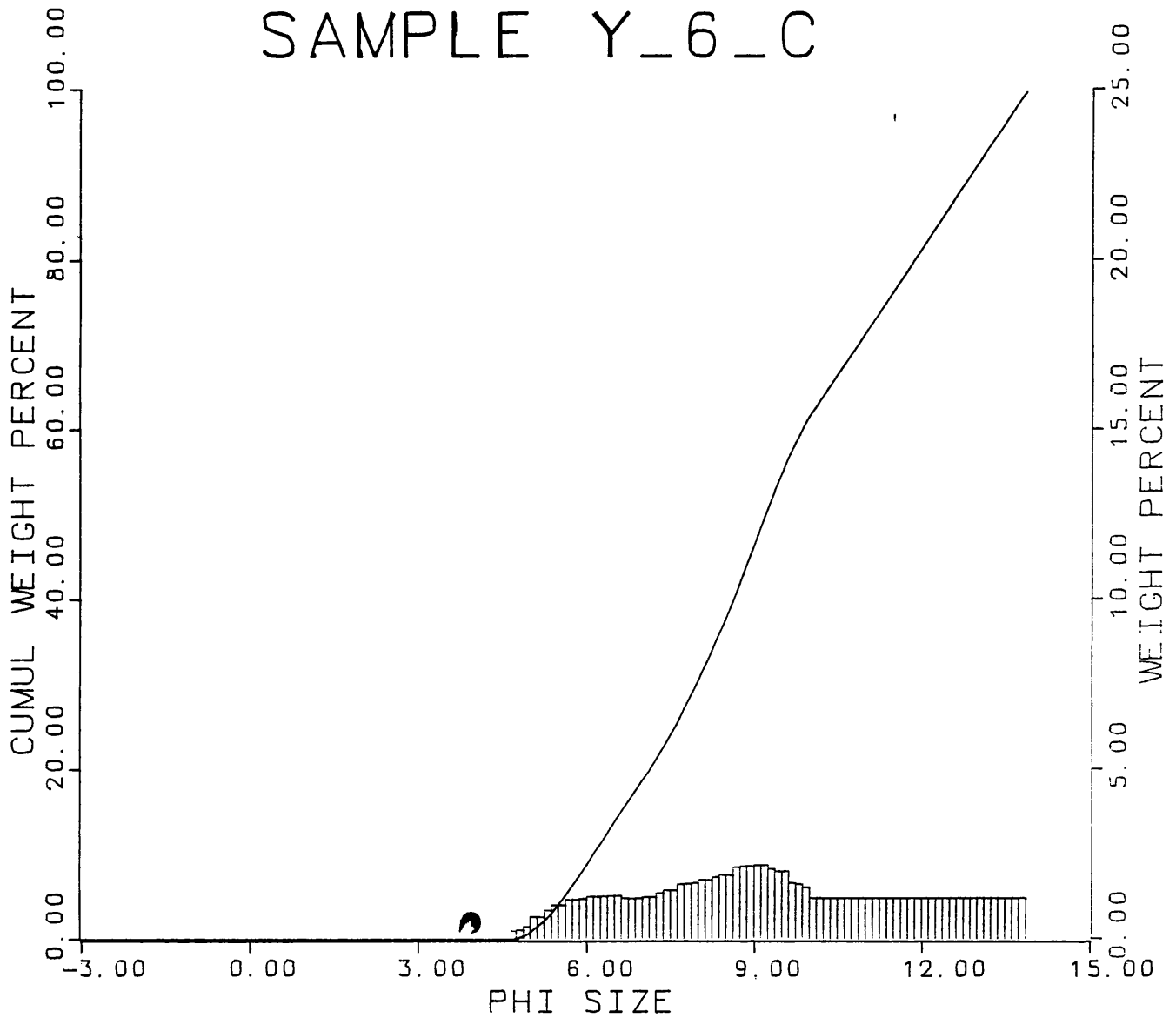


Coulter data
This data corresponds to file Y_6_C.3rd

9.4300	2.4176	0.0953	2.0228	M1	M2	M3	M4 (phi)
9.4330	9.2357	2.5903	0.0909	0.3874		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.7379%	is larger than	4.9700	phi.
2.5243%	is larger than	5.3033	phi.
5.2038%	is larger than	5.6367	phi.
8.3495%	is larger than	5.9700	phi.
11.6892%	is larger than	6.3033	phi.
15.1067%	is larger than	6.6367	phi.
18.3280%	is larger than	6.9700	phi.
21.6556%	is larger than	7.3033	phi.
25.5141%	is larger than	7.6367	phi.
29.9036%	is larger than	7.9700	phi.
34.5763%	is larger than	8.3033	phi.
39.6384%	is larger than	8.6367	phi.
45.3731%	is larger than	8.9700	phi.
51.1796%	is larger than	9.3033	phi.
56.5239%	is larger than	9.6367	phi.
60.8780%	is larger than	9.9700	phi.
64.1381%	is larger than	10.3033	phi.
67.3983%	is larger than	10.6367	phi.
70.6585%	is larger than	10.9700	phi.
73.9187%	is larger than	11.3033	phi.
77.1788%	is larger than	11.6367	phi.
80.4390%	is larger than	11.9700	phi.
83.6992%	is larger than	12.3033	phi.
86.9593%	is larger than	12.6367	phi.
90.2195%	is larger than	12.9700	phi.
93.4797%	is larger than	13.3033	phi.
96.7398%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE Y_6_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 1.2
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 38.0
 CLAY _____ 62.8

Graphic Measures

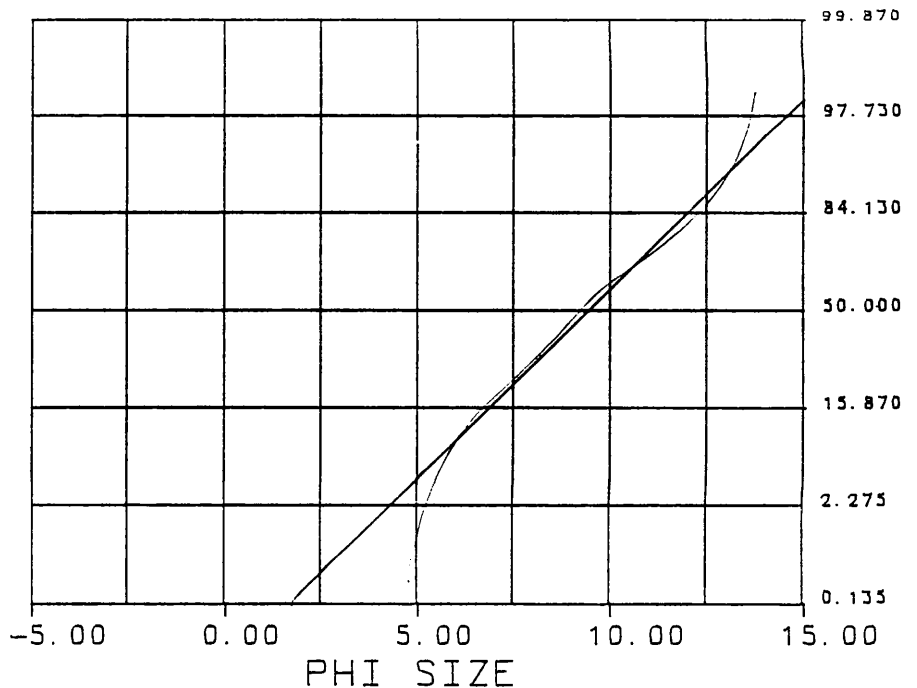
MEDIAN _____ 9.209
 MEAN _____ 9.392
 STD. DEVIATION- 2.361
 INC. SKEWNESS- 0.085
 INC. KURTOSIS- 0.386

Moment Measures

1st MOMENT _____ 9.388
 2nd MOMENT _____ 2.391
 3rd MOMENT _____ 0.090
 4th MOMENT _____ 2.031

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

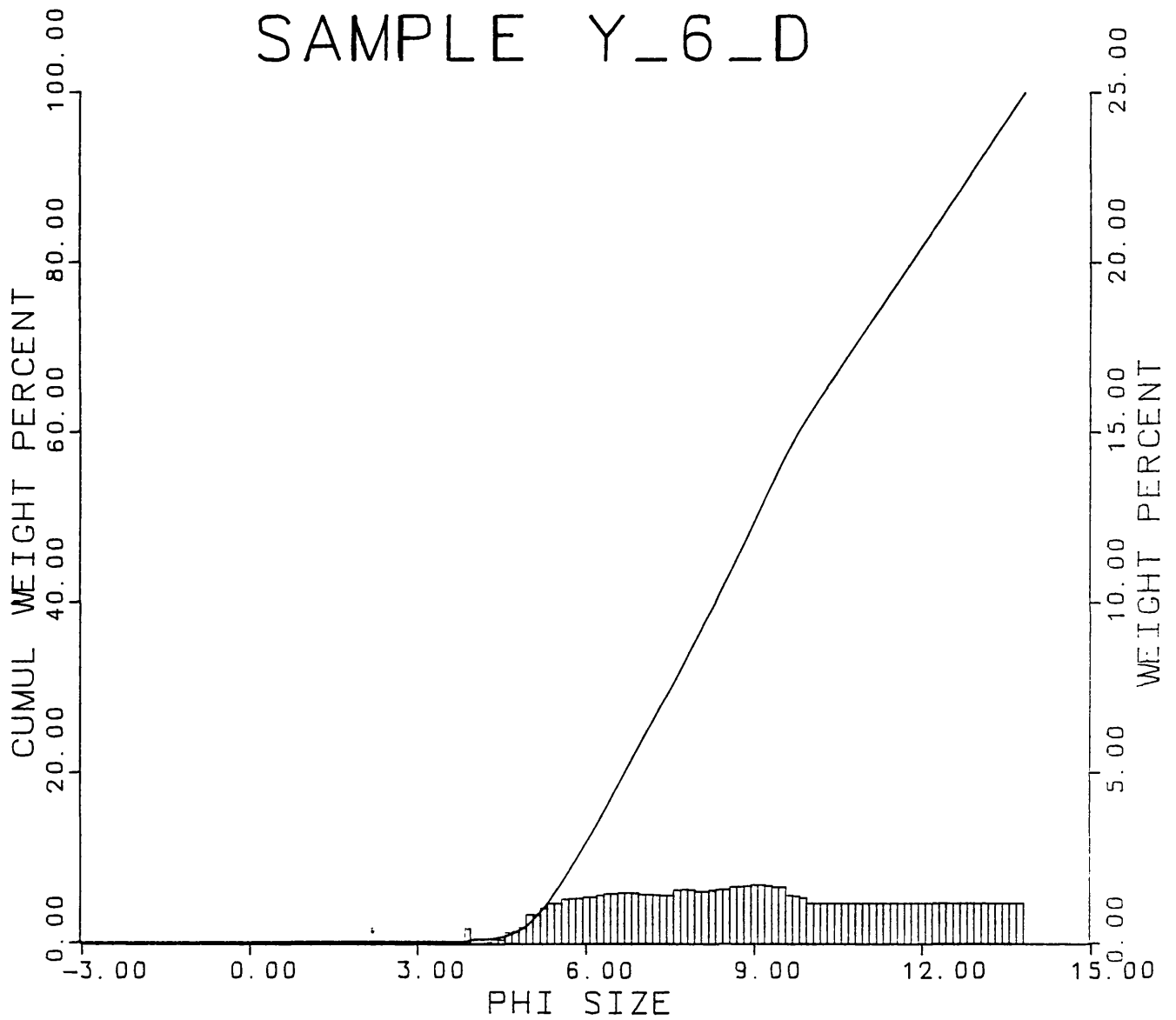
Coulter data

This data corresponds to file Y_6_D.3rd

9.2428	2.5268	0.1642	1.9320	M1	M2	M3	M4 (phi)
9.2803	9.1089	2.7046	0.0820	0.3904			Mz, Md, SI, SKI, KG

0.4775%	is larger than	3.9700	phi.
0.4775%	is larger than	4.3033	phi.
0.8682%	is larger than	4.6367	phi.
1.8666%	is larger than	4.9700	phi.
4.2108%	is larger than	5.3033	phi.
7.4665%	is larger than	5.6367	phi.
11.0696%	is larger than	5.9700	phi.
14.8028%	is larger than	6.3033	phi.
18.7966%	is larger than	6.6367	phi.
22.8757%	is larger than	6.9700	phi.
26.8299%	is larger than	7.3033	phi.
30.7009%	is larger than	7.6367	phi.
35.0298%	is larger than	7.9700	phi.
39.1922%	is larger than	8.3033	phi.
43.5211%	is larger than	8.6367	phi.
48.0581%	is larger than	8.9700	phi.
52.7199%	is larger than	9.3033	phi.
57.2153%	is larger than	9.6367	phi.
61.0030%	is larger than	9.9700	phi.
64.2528%	is larger than	10.3033	phi.
67.5025%	is larger than	10.6367	phi.
70.7523%	is larger than	10.9700	phi.
74.0020%	is larger than	11.3033	phi.
77.2518%	is larger than	11.6367	phi.
80.5015%	is larger than	11.9700	phi.
83.7513%	is larger than	12.3033	phi.
87.0010%	is larger than	12.6367	phi.
90.2508%	is larger than	12.9700	phi.
93.5005%	is larger than	13.3033	phi.
96.7503%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE Y_6_D



Sample Location
 LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

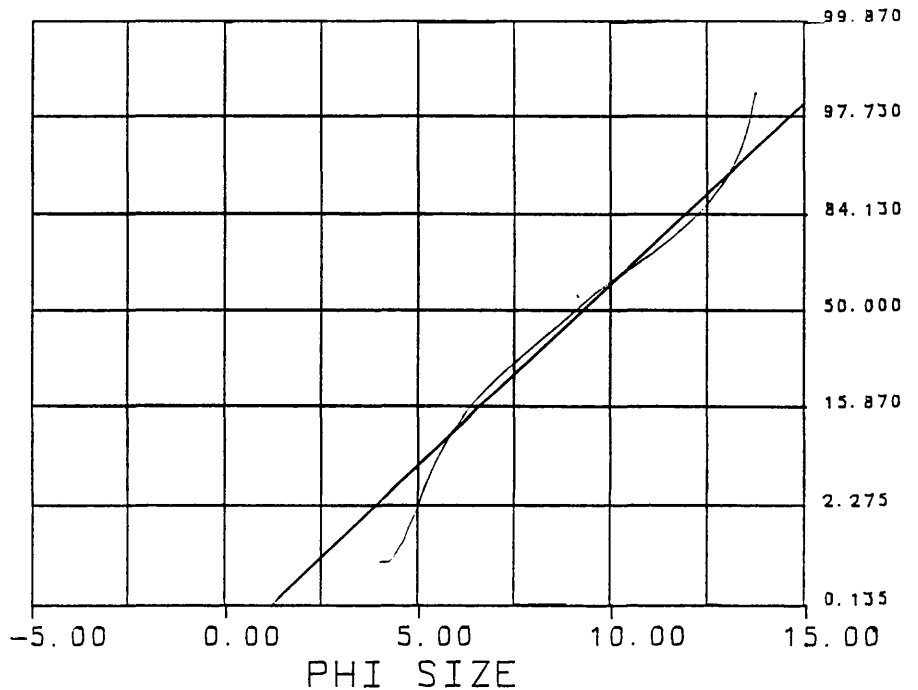
Gross Parameters (%)
 GRAVEL _____ 0.0
 SAND _____ 4.5
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 4.5
 SILT _____ 35.0
 CLAY _____ 60.5

Graphic Measures
 MEDIAN _____ 9.076
 MEAN _____ 9.239
 STD. DEVIATION _____ 2.675
 INC. SKEWNESS _____ 0.079
 INC. KURTOSIS _____ 0.389

Moment Measures
 1st MOMENT _____ 9.218
 2nd MOMENT _____ 2.527
 3rd MOMENT _____ 0.091
 4th MOMENT _____ 1.946

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

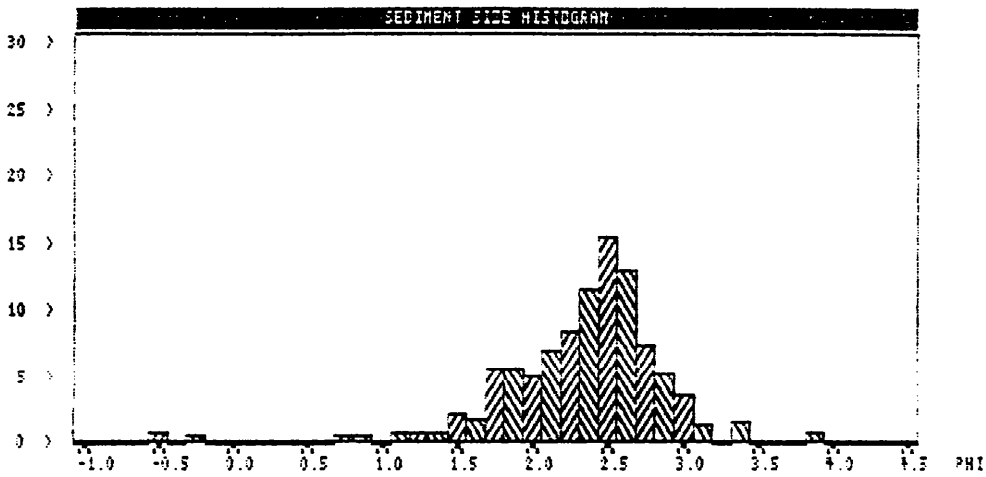
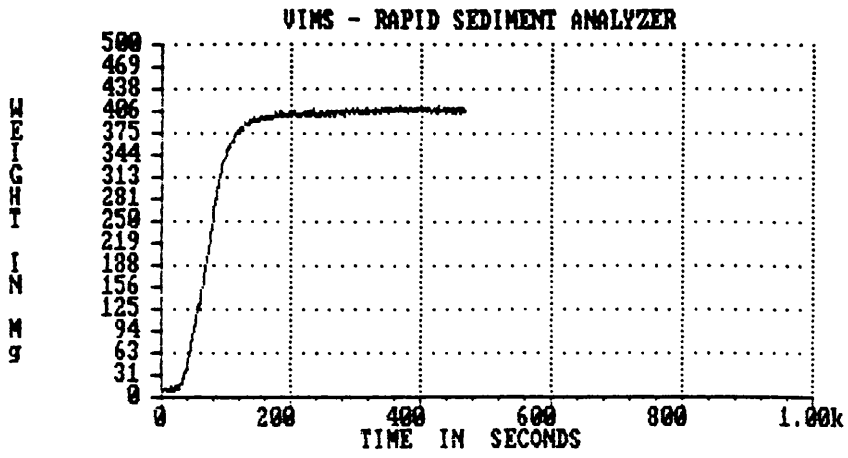
Y_6_E

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 651.1031 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
 2.2589 0.5603 -1.4780 8.8336 M1 M2 M3 M4 (phi)
 2.2789 2.3547 0.4639 -0.2386 0.3647 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	2.8230	0.6985	2.8230	0.6985
-0.3750	1.2968	14.5884	0.0000	0.0000	2.8230	0.6985
-0.2500	1.1892	13.6217	1.9216	0.4755	4.7446	1.1740
-0.1250	1.0905	12.6995	0.1646	0.0407	4.9092	1.2148
0.0000	1.0000	11.8208	0.0000	0.0000	4.9092	1.2148
0.1250	0.9170	10.9848	0.0000	0.0000	4.9092	1.2148
0.2500	0.8409	10.1905	0.0000	0.0000	4.9092	1.2148
0.3750	0.7711	9.4370	0.0000	0.0000	4.9092	1.2148
0.5000	0.7071	8.7233	0.0000	0.0000	4.9092	1.2148
0.6250	0.6484	8.0484	0.0000	0.0000	4.9092	1.2148
0.7500	0.5946	7.4111	2.3207	0.5742	7.2299	1.7890
0.8750	0.5453	6.8104	2.4157	0.5978	9.6456	2.3868
1.0000	0.5000	6.2452	0.0000	0.0000	9.6456	2.3868
1.1250	0.4585	5.7143	2.7456	0.6794	12.3912	3.0662
1.2500	0.4204	5.2167	2.8304	0.7004	15.2216	3.7665
1.3750	0.3856	4.7510	3.4963	0.8651	18.7179	4.6317
1.5000	0.3536	4.3163	9.0558	2.2408	27.7737	6.8725
1.6250	0.3242	3.9113	7.2930	1.8046	35.0666	8.6771
1.7500	0.2973	3.5349	22.8560	5.6557	57.9227	14.3328
1.8750	0.2726	3.1860	22.6752	5.6109	80.5979	19.9437
2.0000	0.2500	2.8634	20.3442	5.0341	100.9420	24.9778
2.1250	0.2293	2.5660	28.1231	6.9590	129.0651	31.9368
2.2500	0.2102	2.2927	34.4533	8.5254	163.5195	40.4622
2.3750	0.1928	2.0423	46.0050	11.3838	209.5235	51.8460
2.5000	0.1768	1.8137	61.5196	15.2228	271.0430	67.0689
2.6250	0.1621	1.6058	51.8002	12.8178	322.8433	79.8867
2.7500	0.1487	1.4175	29.7122	7.3522	352.5554	87.2389
2.8750	0.1363	1.2476	21.4520	5.3082	374.0074	92.5471
3.0000	0.1250	1.0949	14.6715	3.6304	388.6789	96.1775
3.1250	0.1146	0.9582	5.6573	1.3999	394.3362	97.5774
3.2500	0.1051	0.8364	0.0000	0.0000	394.3362	97.5774
3.3750	0.0964	0.7282	6.3800	1.5787	400.7162	99.1561
3.5000	0.0884	0.6326	0.0000	0.0000	400.7162	99.1561
3.6250	0.0811	0.5484	0.0000	0.0000	400.7162	99.1561
3.7500	0.0743	0.4744	0.0000	0.0000	400.7162	99.1561
3.8750	0.0682	0.4098	3.4103	0.8439	404.1265	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	404.1265	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	404.1265	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	404.1265	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	404.1265	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	404.1265	100.0000

* - fall velocity of natural grains in fresh water at 20oC

Y_6_E



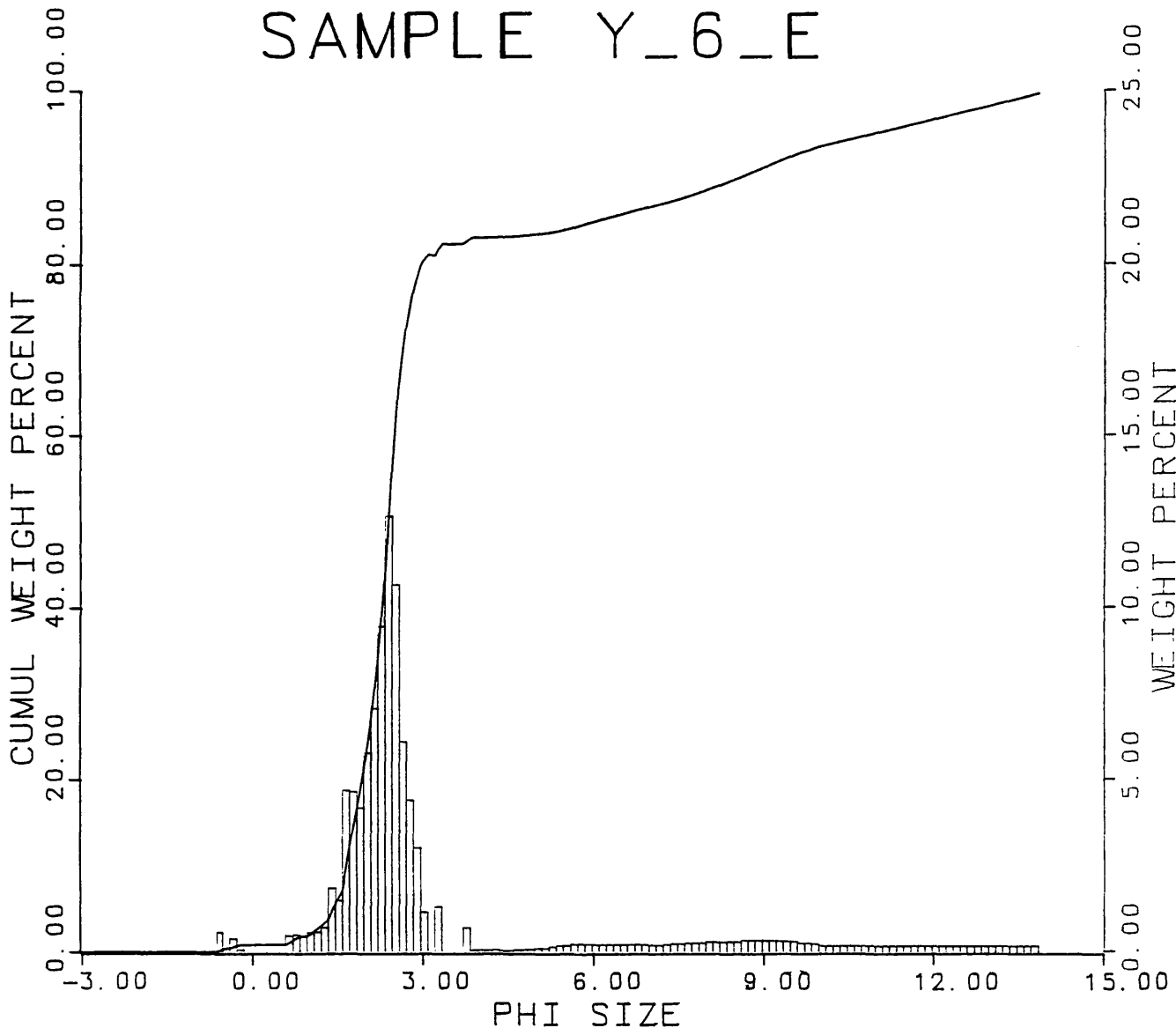
Coulter data

This data corresponds to file Y_6_E.3rd

9.2930	2.4840	0.0960	2.0383	M1	M2	M3	M4 (phi)
9.3047	9.1355	2.6575	0.0813	0.3958		Mz, Md, SI, SKI, KG	

0.0816%	is larger than	3.9700	phi.
0.4081%	is larger than	4.3033	phi.
0.9793%	is larger than	4.6367	phi.
2.1627%	is larger than	4.9700	phi.
3.8766%	is larger than	5.3033	phi.
6.8554%	is larger than	5.6367	phi.
10.5687%	is larger than	5.9700	phi.
13.9556%	is larger than	6.3033	phi.
17.3833%	is larger than	6.6367	phi.
20.8504%	is larger than	6.9700	phi.
24.0344%	is larger than	7.3033	phi.
27.8906%	is larger than	7.6367	phi.
32.1006%	is larger than	7.9700	phi.
36.9120%	is larger than	8.3033	phi.
41.7942%	is larger than	8.6367	phi.
47.2778%	is larger than	8.9700	phi.
52.7614%	is larger than	9.3033	phi.
57.9266%	is larger than	9.6367	phi.
62.2074%	is larger than	9.9700	phi.
65.3568%	is larger than	10.3033	phi.
68.5062%	is larger than	10.6367	phi.
71.6555%	is larger than	10.9700	phi.
74.8049%	is larger than	11.3033	phi.
77.9543%	is larger than	11.6367	phi.
81.1037%	is larger than	11.9700	phi.
84.2531%	is larger than	12.3033	phi.
87.4025%	is larger than	12.6367	phi.
90.5518%	is larger than	12.9700	phi.
93.7012%	is larger than	13.3033	phi.
96.9506%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE Y_6_E



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Cross Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 83.1
 V-COARSE SAND - 1.0
 COARSE SAND _____ 1.0
 MEDIUM SAND _____ 18.8
 FINE SAND _____ 59.2
 V-FINE SAND _____ 3.2
 SILT _____ 6.5
 CLAY _____ 10.3

Graphic Measures

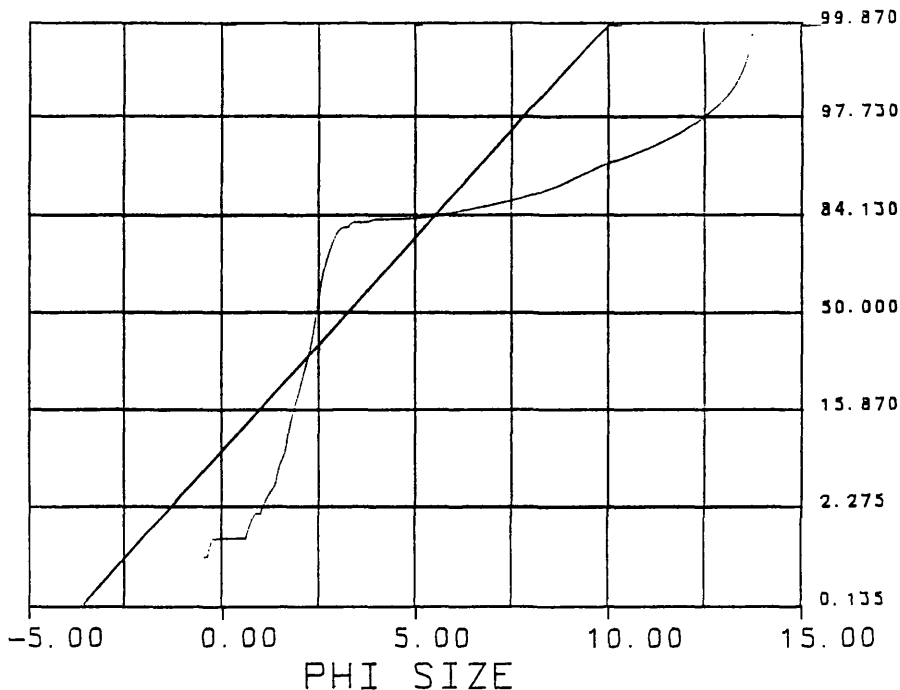
MEDIAN _____ 2.442
 MEAN _____ 3.206
 STD. DEVIATION- 2.271
 INC. SKEWNESS- 0.725
 INC. KURTOSIS- 1.942

Moment Measures

1st MOMENT _____ 3.427
 2nd MOMENT _____ 2.842
 3rd MOMENT _____ 2.111
 4th MOMENT _____ 6.456

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file YES_7_A.3rd

9.4851	2.3692	0.1502	1.9966	M1	M2	M3	M4 (phi)
9.5004	9.2125	2.5133	0.1379	0.3752			Mz, Md, SI, SKI, KG

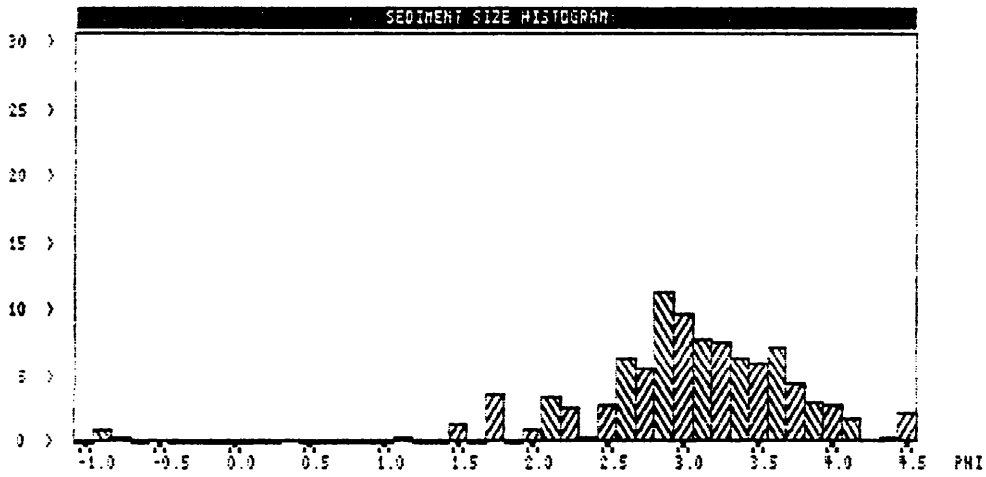
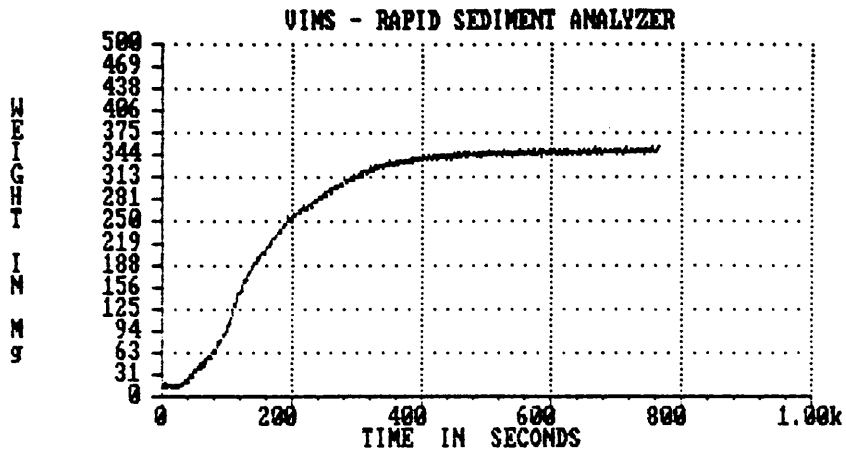
0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1163%	is larger than	4.6367	phi.
0.4265%	is larger than	4.9700	phi.
1.2019%	is larger than	5.3033	phi.
3.1016%	is larger than	5.6367	phi.
6.0868%	is larger than	5.9700	phi.
9.4985%	is larger than	6.3033	phi.
13.1428%	is larger than	6.6367	phi.
16.4289%	is larger than	6.9700	phi.
20.0995%	is larger than	7.3033	phi.
24.7839%	is larger than	7.6367	phi.
29.7829%	is larger than	7.9700	phi.
35.1664%	is larger than	8.3033	phi.
40.4800%	is larger than	8.6367	phi.
46.1083%	is larger than	8.9700	phi.
51.4569%	is larger than	9.3033	phi.
56.3151%	is larger than	9.6367	phi.
60.1964%	is larger than	9.9700	phi.
63.5134%	is larger than	10.3033	phi.
66.8303%	is larger than	10.6367	phi.
70.1473%	is larger than	10.9700	phi.
73.4643%	is larger than	11.3033	phi.
76.7812%	is larger than	11.6367	phi.
80.0982%	is larger than	11.9700	phi.
83.4152%	is larger than	12.3033	phi.
86.7321%	is larger than	12.6367	phi.
90.0491%	is larger than	12.9700	phi.
93.3661%	is larger than	13.3033	phi.
96.6830%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

YES_6_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
571.1843 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.9531 0.7903 -1.7941 9.7837 M1 M2 M3 M4 (phi)
3.0209 3.0009 0.6368 -0.0485 0.4020 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	3.3344	0.9531	3.3344	0.9531
-0.7500	1.6818	17.7631	1.1771	0.3365	4.5115	1.2896
-0.6250	1.5422	16.6582	0.0000	0.0000	4.5115	1.2896
-0.5000	1.4142	15.6003	0.8681	0.2481	5.3796	1.5377
-0.3750	1.2968	14.5884	0.0000	0.0000	5.3796	1.5377
-0.2500	1.1892	13.6217	0.0000	0.0000	5.3796	1.5377
-0.1250	1.0905	12.6995	0.0000	0.0000	5.3796	1.5377
0.0000	1.0000	11.8208	0.0000	0.0000	5.3796	1.5377
0.1250	0.9170	10.9848	0.0000	0.0000	5.3796	1.5377
0.2500	0.8409	10.1905	0.0000	0.0000	5.3796	1.5377
0.3750	0.7711	9.4370	0.6645	0.1899	6.0440	1.7276
0.5000	0.7071	8.7233	0.0000	0.0000	6.0440	1.7276
0.6250	0.6484	8.0484	0.0000	0.0000	6.0440	1.7276
0.7500	0.5946	7.4111	0.0000	0.0000	6.0440	1.7276
0.8750	0.5453	6.8104	0.0000	0.0000	6.0440	1.7276
1.0000	0.5000	6.2452	0.0000	0.0000	6.0440	1.7276
1.1250	0.4585	5.7143	1.4347	0.4101	7.4787	2.1377
1.2500	0.4204	5.2167	0.0000	0.0000	7.4787	2.1377
1.3750	0.3856	4.7510	0.0000	0.0000	7.4787	2.1377
1.5000	0.3536	4.3163	4.9443	1.4133	12.4230	3.5510
1.6250	0.3242	3.9113	0.0000	0.0000	12.4230	3.5510
1.7500	0.2973	3.5349	12.3534	3.5311	24.7765	7.0821
1.8750	0.2726	3.1860	0.0000	0.0000	24.7765	7.0821
2.0000	0.2500	2.8634	3.4593	0.9888	28.2357	8.0709
2.1250	0.2293	2.5660	11.5649	3.3057	39.8006	11.3766
2.2500	0.2102	2.2927	8.7426	2.4990	48.5432	13.9755
2.3750	0.1928	2.0423	1.0796	0.3086	49.6227	14.1841
2.5000	0.1768	1.8137	9.8312	2.8102	59.4540	16.9943
2.6250	0.1621	1.6058	22.4309	6.4116	81.8849	23.4059
2.7500	0.1487	1.4175	19.7170	5.6359	101.6019	29.0418
2.8750	0.1363	1.2476	39.3223	11.2399	140.9242	40.2816
3.0000	0.1250	1.0949	33.8056	9.6630	174.7298	49.9446
3.1250	0.1146	0.9582	27.4982	7.8601	202.2280	57.8046
3.2500	0.1051	0.8364	26.7172	7.6368	228.9452	65.4415
3.3750	0.0964	0.7282	22.2453	6.3586	251.1905	71.8000
3.5000	0.0884	0.6326	21.3805	6.1114	272.5710	77.9114
3.6250	0.0811	0.5484	25.1024	7.1752	297.6734	85.0866
3.7500	0.0743	0.4744	15.5190	4.4359	313.1924	89.5226
3.8750	0.0682	0.4098	10.7698	3.0784	323.9622	92.6010
4.0000	0.0625	0.3533	9.8539	2.8166	333.8161	95.4176
4.1250	0.0573	0.3043	6.4152	1.8337	340.2313	97.2513
4.2500	0.0526	0.2617	0.3163	0.0904	340.5475	97.3418
4.3750	0.0482	0.2248	1.5729	0.4496	342.1205	97.7913
4.5000	0.0442	0.1930	7.7269	2.2087	349.8474	100.0000

* - fall velocity of natural grains in fresh water at 20oC



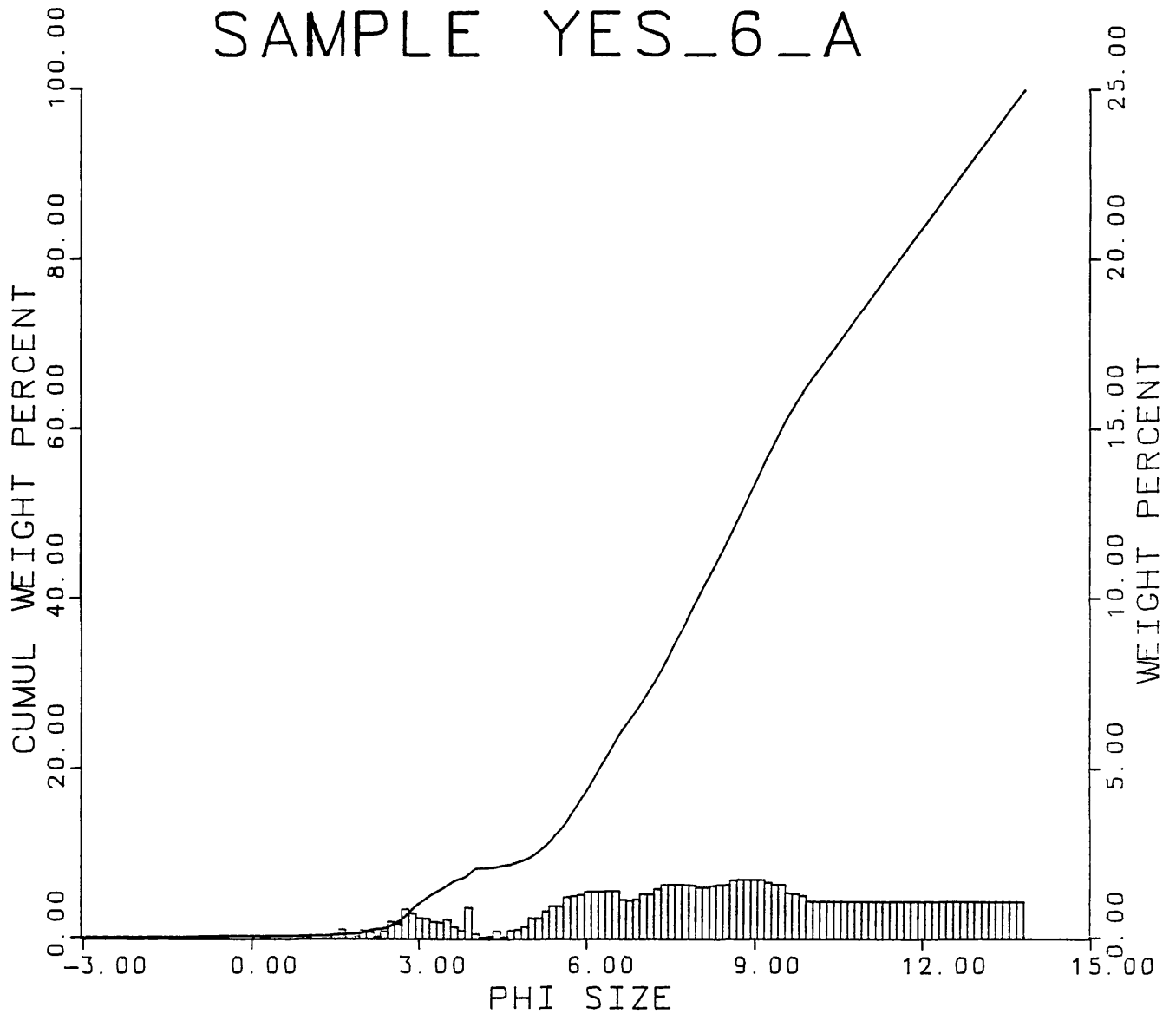
Coulter data

This data corresponds to file YES_6_A.3rd

9.2610	2.4650	0.2211	1.9819	M1	M2	M3	M4 (phi)
9.2993	9.1032	2.6614	0.0970	0.3891	Mz, Md, SI, SKI, KG		

0.7592%	is larger than	3.9700	phi.
0.7592%	is larger than	4.3033	phi.
0.9279%	is larger than	4.6367	phi.
1.6871%	is larger than	4.9700	phi.
3.4164%	is larger than	5.3033	phi.
6.1580%	is larger than	5.6367	phi.
9.7853%	is larger than	5.9700	phi.
13.7923%	is larger than	6.3033	phi.
17.8414%	is larger than	6.6367	phi.
21.0780%	is larger than	6.9700	phi.
24.8673%	is larger than	7.3033	phi.
29.4459%	is larger than	7.6367	phi.
34.0246%	is larger than	7.9700	phi.
38.4059%	is larger than	8.3033	phi.
42.9845%	is larger than	8.6367	phi.
47.9973%	is larger than	8.9700	phi.
53.0102%	is larger than	9.3033	phi.
57.6283%	is larger than	9.6367	phi.
61.4570%	is larger than	9.9700	phi.
64.6689%	is larger than	10.3033	phi.
67.3808%	is larger than	10.6367	phi.
71.0928%	is larger than	10.9700	phi.
74.3047%	is larger than	11.3033	phi.
77.5166%	is larger than	11.6367	phi.
80.7285%	is larger than	11.9700	phi.
83.9404%	is larger than	12.3033	phi.
87.1523%	is larger than	12.6367	phi.
90.3643%	is larger than	12.9700	phi.
93.5762%	is larger than	13.3033	phi.
96.7881%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_6_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 7.7
 V-COARSE SAND - 0.1
 COARSE SAND - 0.0
 MEDIUM SAND - 0.5
 FINE SAND - 3.1
 V-FINE SAND - 4.0
 SILT _____ 34.5
 CLAY _____ 57.7

Graphic Measures

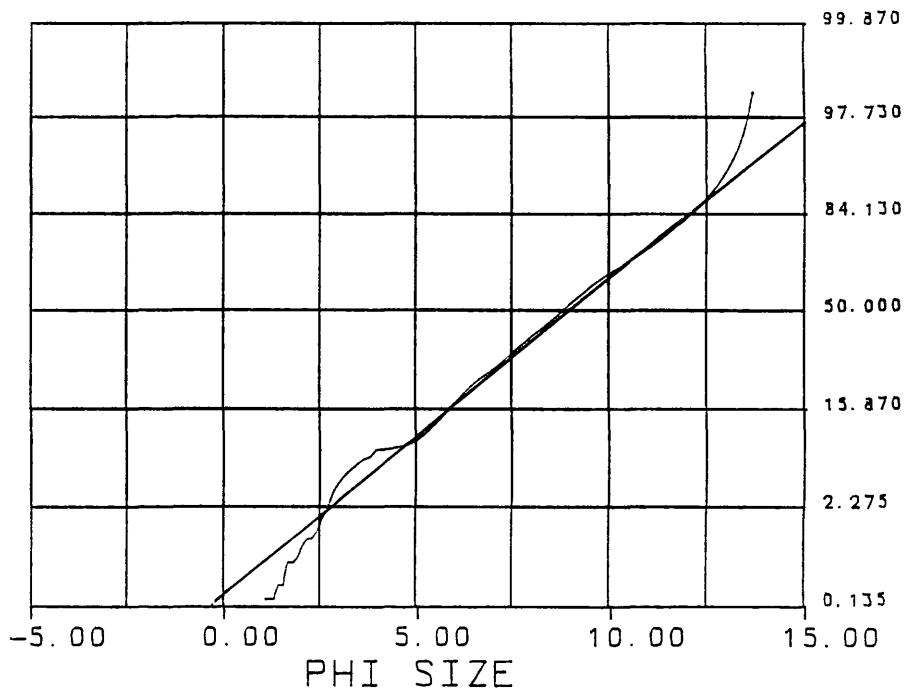
MEDIAN _____ 8.795
 MEAN _____ 8.923
 STD. DEVIATION- 3.080
 INC. SKEWNESS- -0.021
 INC. KURTOSIS- 0.496

Moment Measures

1st MOMENT _____ 8.759
 2nd MOMENT _____ 2.927
 3rd MOMENT _____ -0.252
 4th MOMENT _____ 2.466

DATE: 12-09-92

PROBABILITY CURVE



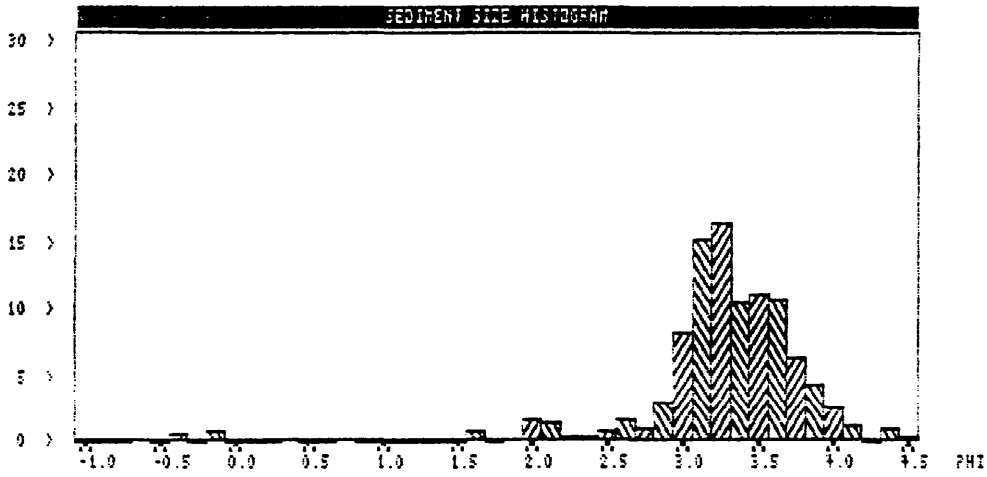
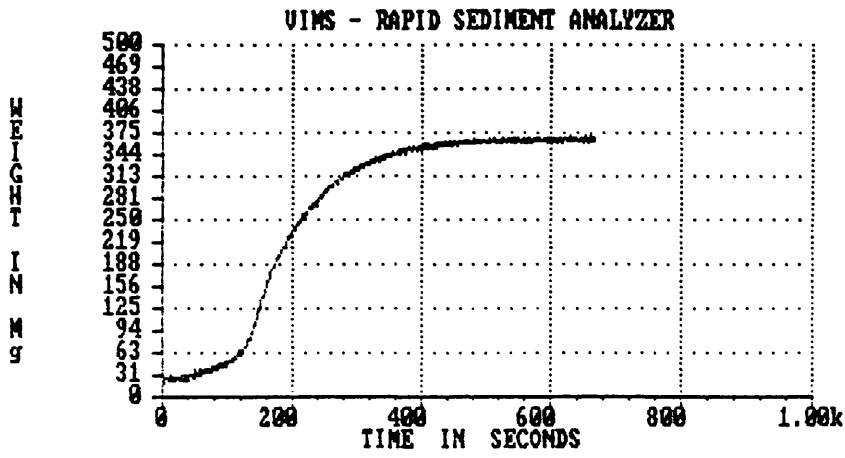
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_6_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
588.0299 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
3.1899 0.6233 -2.8868 16.2517 M1 M2 M3 M4 (phi)
3.2634 3.2346 0.4490 -0.0798 0.3279 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.3383	0.0972	0.3383	0.0972
-0.5000	1.4142	15.6003	0.0378	0.0108	0.3760	0.1080
-0.3750	1.2968	14.5884	1.6197	0.4653	1.9958	0.5733
-0.2500	1.1892	13.6217	0.0000	0.0000	1.9958	0.5733
-0.1250	1.0905	12.6995	2.6373	0.7576	4.6331	1.3309
0.0000	1.0000	11.8208	0.0000	0.0000	4.6331	1.3309
0.1250	0.9170	10.9848	0.0000	0.0000	4.6331	1.3309
0.2500	0.8409	10.1905	0.0000	0.0000	4.6331	1.3309
0.3750	0.7711	9.4370	0.7797	0.2240	5.4128	1.5549
0.5000	0.7071	8.7233	0.0000	0.0000	5.4128	1.5549
0.6250	0.6484	8.0484	0.0000	0.0000	5.4128	1.5549
0.7500	0.5946	7.4111	0.7429	0.2134	6.1557	1.7683
0.8750	0.5453	6.8104	0.0000	0.0000	6.1557	1.7683
1.0000	0.5000	6.2452	0.0000	0.0000	6.1557	1.7683
1.1250	0.4585	5.7143	0.0000	0.0000	6.1557	1.7683
1.2500	0.4204	5.2167	0.0000	0.0000	6.1557	1.7683
1.3750	0.3856	4.7510	0.0000	0.0000	6.1557	1.7683
1.5000	0.3536	4.3163	0.0000	0.0000	6.1557	1.7683
1.6250	0.3242	3.9113	2.3965	0.6884	8.5522	2.4567
1.7500	0.2973	3.5349	0.0000	0.0000	8.5522	2.4567
1.8750	0.2726	3.1860	0.8827	0.2536	9.4350	2.7103
2.0000	0.2500	2.8634	5.5953	1.6073	15.0303	4.3176
2.1250	0.2293	2.5660	4.4854	1.2885	19.5157	5.6060
2.2500	0.2102	2.2927	1.1021	0.3166	20.6178	5.9226
2.3750	0.1929	2.0423	0.9758	0.2803	21.5936	6.2029
2.5000	0.1768	1.8137	2.5970	0.7460	24.1906	6.9489
2.6250	0.1621	1.6058	5.3019	1.5230	29.4926	8.4720
2.7500	0.1487	1.4175	3.0411	0.8736	32.5337	9.3455
2.8750	0.1363	1.2476	10.1357	2.9116	42.6694	12.2571
3.0000	0.1250	1.0949	29.0338	8.3402	71.7032	20.5973
3.1250	0.1146	0.9582	52.7769	15.1606	124.4800	35.7579
3.2500	0.1051	0.8364	56.5680	16.2496	181.0481	52.0075
3.3750	0.0964	0.7282	36.3619	10.4452	217.4100	62.4527
3.5000	0.0884	0.6326	38.1990	10.9729	255.6090	73.4257
3.6250	0.0811	0.5484	36.9814	10.6232	292.5904	84.0488
3.7500	0.0743	0.4744	22.2563	6.3933	314.8466	90.4421
3.8750	0.0682	0.4098	15.0795	4.3317	329.9261	94.7738
4.0000	0.0625	0.3533	9.1954	2.6414	339.1215	97.4153
4.1250	0.0573	0.3043	4.0048	1.1504	343.1262	98.5657
4.2500	0.0526	0.2617	0.0000	0.0000	343.1262	98.5657
4.3750	0.0482	0.2248	3.5556	1.0214	346.6819	99.5871
4.5000	0.0442	0.1930	1.4376	0.4129	348.1194	100.0000

* - fall velocity of natural grains in fresh water at 20oC



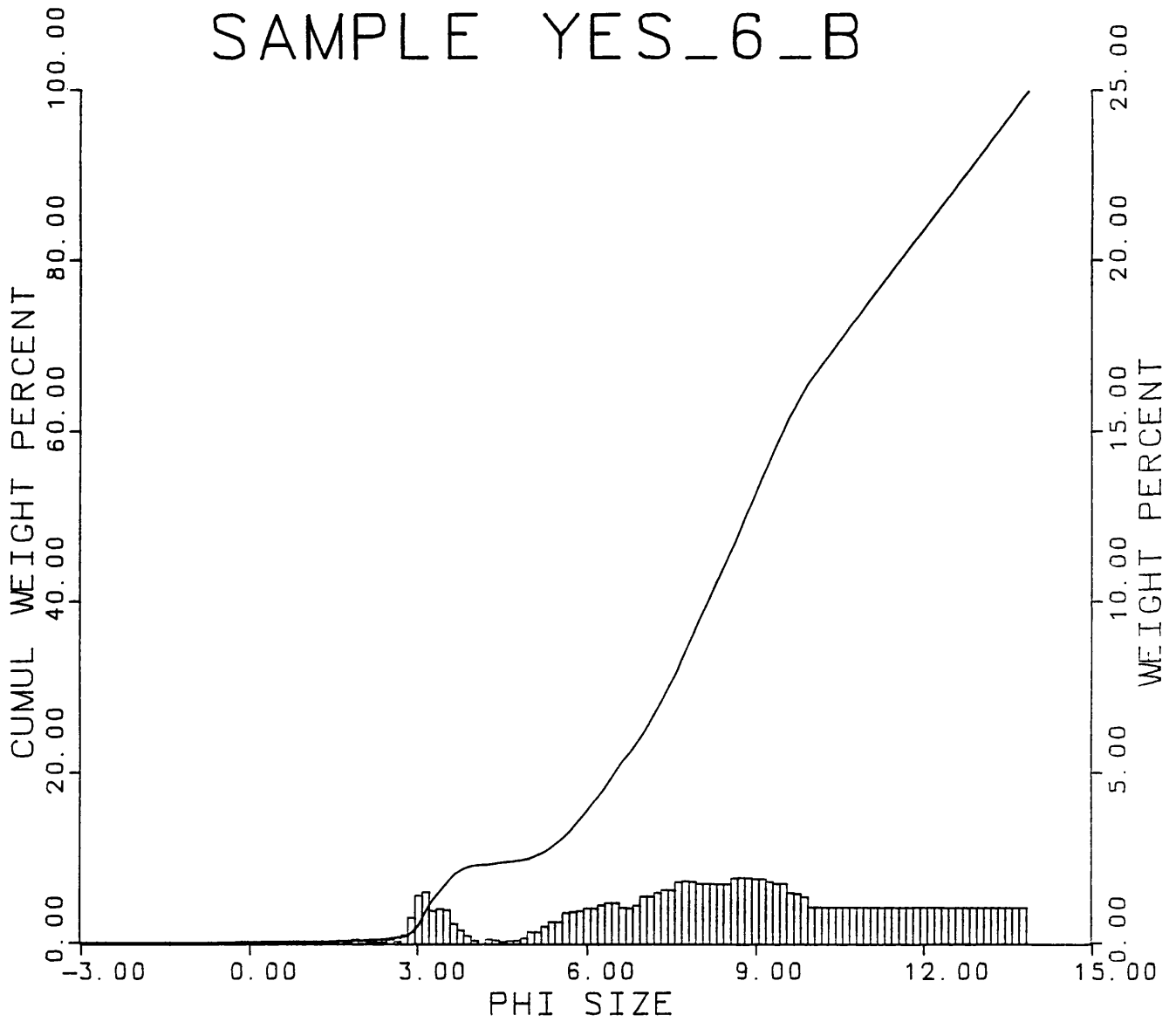
Coulter data

This data corresponds to file YES_6_B.3rd

9.4405 2.3524 0.1682 2.0529 M1 M2 M3 M4 (phi)
9.4816 9.1796 2.4899 0.1443 0.3801 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.0000% is larger than 4.3033 phi.
0.2382% is larger than 4.6367 phi.
0.5557% is larger than 4.9700 phi.
1.5878% is larger than 5.3033 phi.
3.4932% is larger than 5.6367 phi.
6.2718% is larger than 5.9700 phi.
9.3680% is larger than 6.3033 phi.
12.9405% is larger than 6.6367 phi.
16.0455% is larger than 6.9700 phi.
20.1723% is larger than 7.3033 phi.
24.8493% is larger than 7.6367 phi.
30.3124% is larger than 7.9700 phi.
35.5397% is larger than 8.3033 phi.
40.7277% is larger than 8.6367 phi.
46.4659% is larger than 8.9700 phi.
52.0862% is larger than 9.3033 phi.
57.3135% is larger than 9.6367 phi.
61.6761% is larger than 9.9700 phi.
64.8698% is larger than 10.3033 phi.
68.0634% is larger than 10.6367 phi.
71.2571% is larger than 10.9700 phi.
74.4508% is larger than 11.3033 phi.
77.6444% is larger than 11.6367 phi.
80.8381% is larger than 11.9700 phi.
84.0317% is larger than 12.3033 phi.
87.2254% is larger than 12.6367 phi.
90.4190% is larger than 12.9700 phi.
93.6127% is larger than 13.3033 phi.
96.8063% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_6_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 9.4
 V-COARSE SAND - 0.1
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.2
 FINE SAND _____ 1.6
 V-FINE SAND _____ 7.4
 SILT _____ 34.2
 CLAY _____ 56.3

Graphic Measures

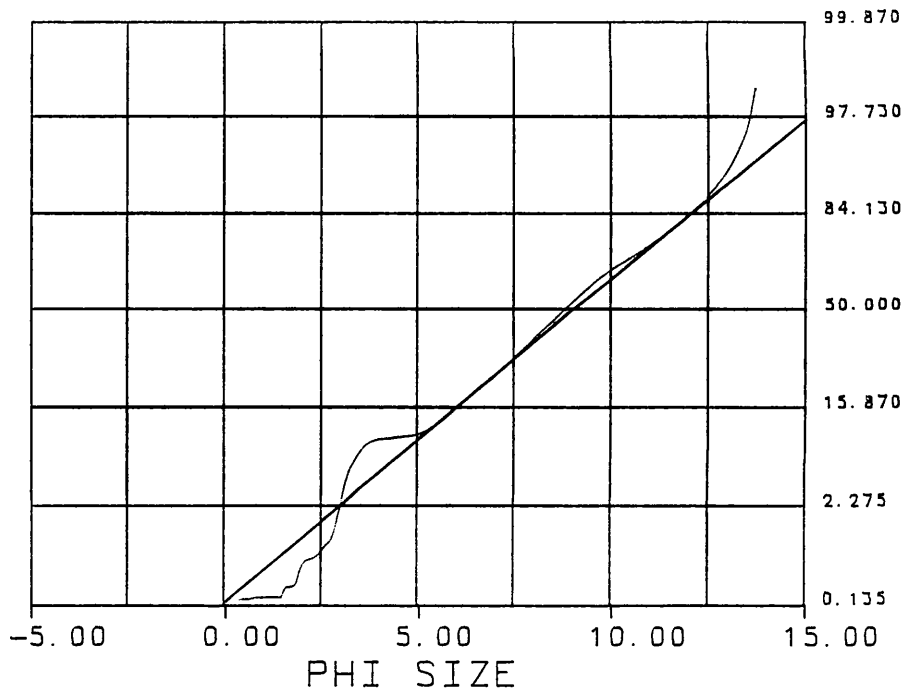
MEDIAN _____ 8.847
 MEAN _____ 8.985
 STD. DEVIATION- 3.018
 INC. SKEWNESS- -0.022
 INC. KURTOSIS- 0.506

Moment Measures

1st MOMENT _____ 8.810
 2nd MOMENT _____ 2.871
 3rd MOMENT _____ -0.289
 4th MOMENT _____ 2.541

DATE: 12-09-92

PROBABILITY CURVE



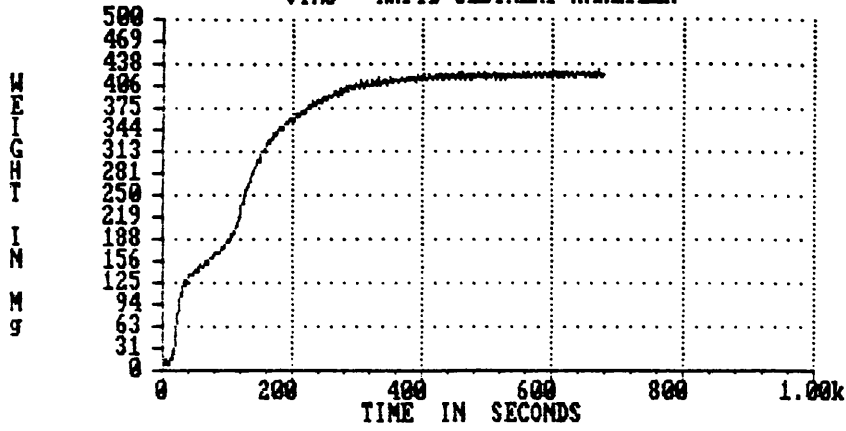
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 674.6086 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
 2.3587 1.0775 -0.6361 2.0857 M1 M2 M3 M4 (phi)
 2.3578 2.8372 1.0816 -0.5476 0.4979 Mz,Md,SI,SKI,KG

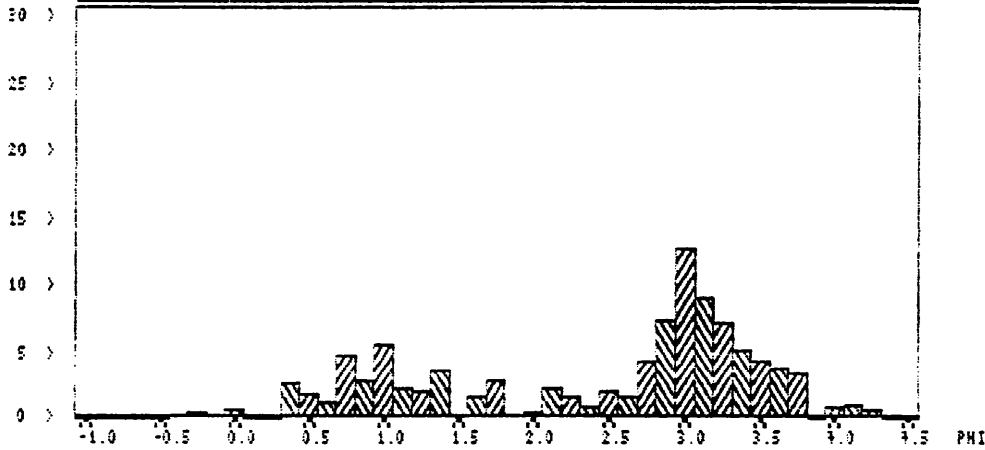
Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.7753	0.1882	0.7753	0.1882
-0.2500	1.1892	13.6217	1.5421	0.3743	2.3174	0.5625
-0.1250	1.0905	12.6995	0.5584	0.1355	2.8758	0.6980
0.0000	1.0000	11.8208	2.7014	0.6557	5.5771	1.3537
0.1250	0.9170	10.9848	0.0000	0.0000	5.5771	1.3537
0.2500	0.8409	10.1905	0.0000	0.0000	5.5771	1.3537
0.3750	0.7711	9.4370	10.3260	2.5063	15.9031	3.8600
0.5000	0.7071	8.7233	6.9375	1.6838	22.8406	5.5438
0.6250	0.6484	8.0484	4.4654	1.0838	27.3060	6.6276
0.7500	0.5946	7.4111	19.4634	4.7241	46.7694	11.3517
0.8750	0.5453	6.8104	11.1877	2.7154	57.9571	14.0672
1.0000	0.5000	6.2452	23.0788	5.6016	81.0359	19.6688
1.1250	0.4585	5.7143	9.3735	2.2751	90.4094	21.9439
1.2500	0.4204	5.2167	8.3475	2.0261	98.7569	23.9700
1.3750	0.3856	4.7510	14.5347	3.5278	113.2916	27.4978
1.5000	0.3536	4.3163	0.3021	0.0733	113.5937	27.5711
1.6250	0.3242	3.9113	6.5890	1.5993	120.1827	29.1704
1.7500	0.2973	3.5349	11.1420	2.7043	131.3246	31.8747
1.8750	0.2726	3.1860	0.3255	0.0790	131.6501	31.9537
2.0000	0.2500	2.8634	1.4046	0.3409	133.0548	32.2946
2.1250	0.2293	2.5660	9.3808	2.2769	142.4355	34.5715
2.2500	0.2102	2.2927	6.6813	1.6217	149.1168	36.1932
2.3750	0.1929	2.0423	3.0992	0.7522	152.2160	36.9454
2.5000	0.1768	1.8137	8.4525	2.0516	160.6685	38.9970
2.6250	0.1621	1.6058	6.0902	1.4782	166.7587	40.4751
2.7500	0.1487	1.4175	18.0734	4.3867	184.8320	44.8619
2.8750	0.1363	1.2476	30.3417	7.3644	215.1737	52.2263
3.0000	0.1250	1.0949	52.1999	12.6698	267.3736	64.8961
3.1250	0.1146	0.9582	37.1434	9.0153	304.5170	73.9114
3.2500	0.1051	0.8364	29.7780	7.2276	334.2949	81.1390
3.3750	0.0964	0.7282	21.6964	5.2661	355.9913	86.4051
3.5000	0.0884	0.6326	18.2213	4.4226	374.2126	90.8277
3.6250	0.0811	0.5484	15.7119	3.8135	389.9246	94.6413
3.7500	0.0743	0.4744	13.6420	3.3111	403.5665	97.9524
3.8750	0.0682	0.4098	0.0000	0.0000	403.5665	97.9524
4.0000	0.0625	0.3533	2.7927	0.6778	406.3592	98.6303
4.1250	0.0573	0.3043	3.6361	0.8825	409.9954	99.5129
4.2500	0.0526	0.2617	2.0073	0.4872	412.0026	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	412.0026	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	412.0026	100.0000

* - fall velocity of natural grains in fresh water at 20oC

UIMS - RAPID SEDIMENT ANALYZER



SEDIMENT SIZE HISTOGRAM



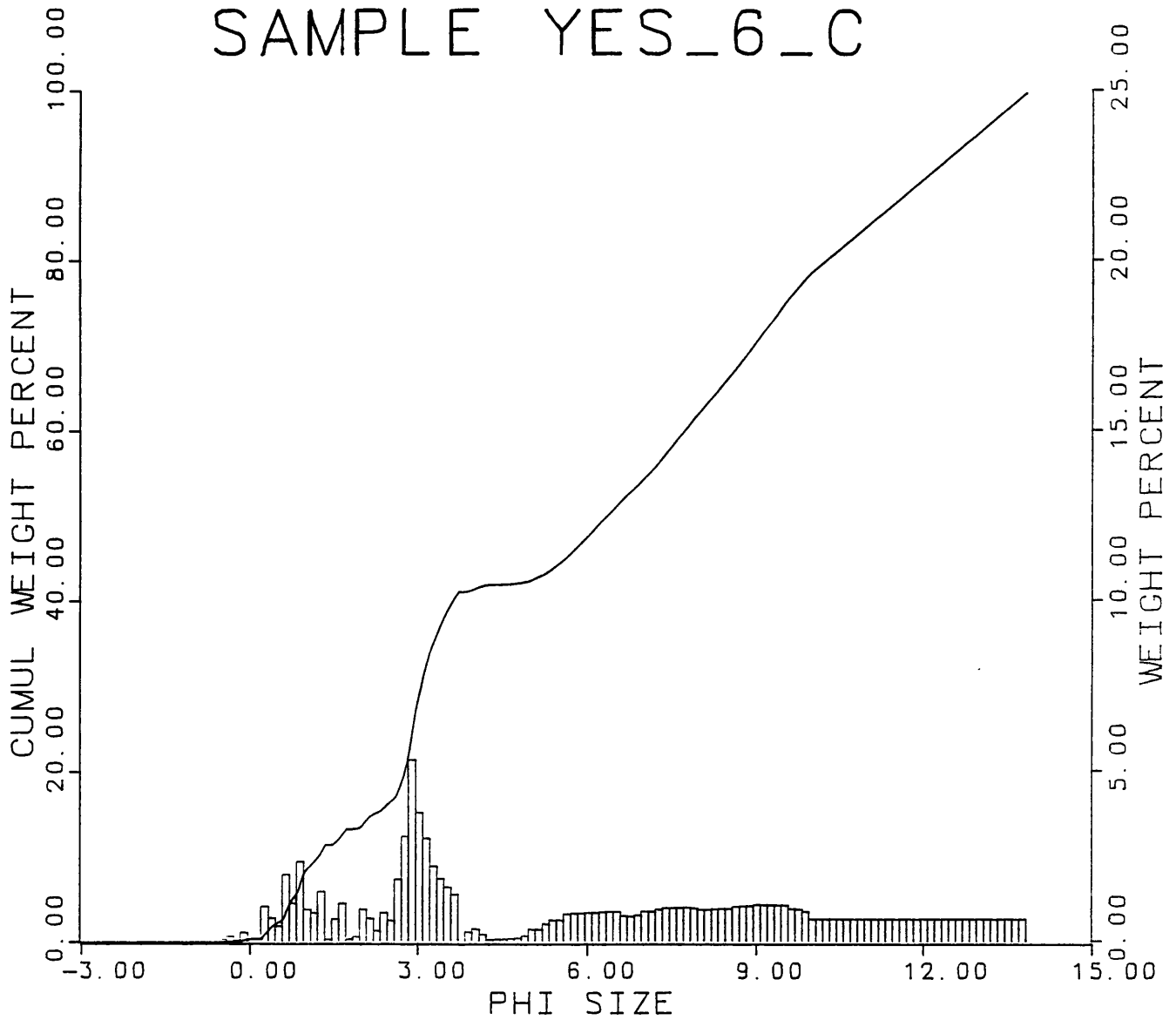
Coulter data

This data corresponds to file YES_6_C.3rd

9.3056	2.4476	0.1634	1.9706	M1	M2	M3	M4 (phi)
9.3167	9.1222	2.6127	0.1034	0.3854	Mz, Md, SI, SKI, KG		

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1277%	is larger than	4.6367	phi.
0.5958%	is larger than	4.9700	phi.
2.2132%	is larger than	5.3033	phi.
5.1073%	is larger than	5.6367	phi.
8.9377%	is larger than	5.9700	phi.
12.8959%	is larger than	6.3033	phi.
16.9817%	is larger than	6.6367	phi.
20.4340%	is larger than	6.9700	phi.
24.5599%	is larger than	7.3033	phi.
29.1910%	is larger than	7.6367	phi.
33.8642%	is larger than	7.9700	phi.
38.2427%	is larger than	8.3033	phi.
42.7896%	is larger than	8.6367	phi.
47.6733%	is larger than	8.9700	phi.
52.7675%	is larger than	9.3033	phi.
57.8196%	is larger than	9.6367	phi.
62.3244%	is larger than	9.9700	phi.
65.4641%	is larger than	10.3033	phi.
68.6037%	is larger than	10.6367	phi.
71.7433%	is larger than	10.9700	phi.
74.8830%	is larger than	11.3033	phi.
78.0226%	is larger than	11.6367	phi.
81.1622%	is larger than	11.9700	phi.
84.3019%	is larger than	12.3033	phi.
87.4415%	is larger than	12.6367	phi.
90.5811%	is larger than	12.9700	phi.
93.7207%	is larger than	13.3033	phi.
96.8604%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_6_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 84.5
 SAND _____ 6.5
 V-COARSE SAND - 0.1
 COARSE SAND _____ 1.2
 MEDIUM SAND _____ 0.8
 FINE SAND _____ 2.1
 V-FINE SAND _____ 2.2
 SILT _____ 3.5
 CLAY _____ 5.5

Graphic Measures

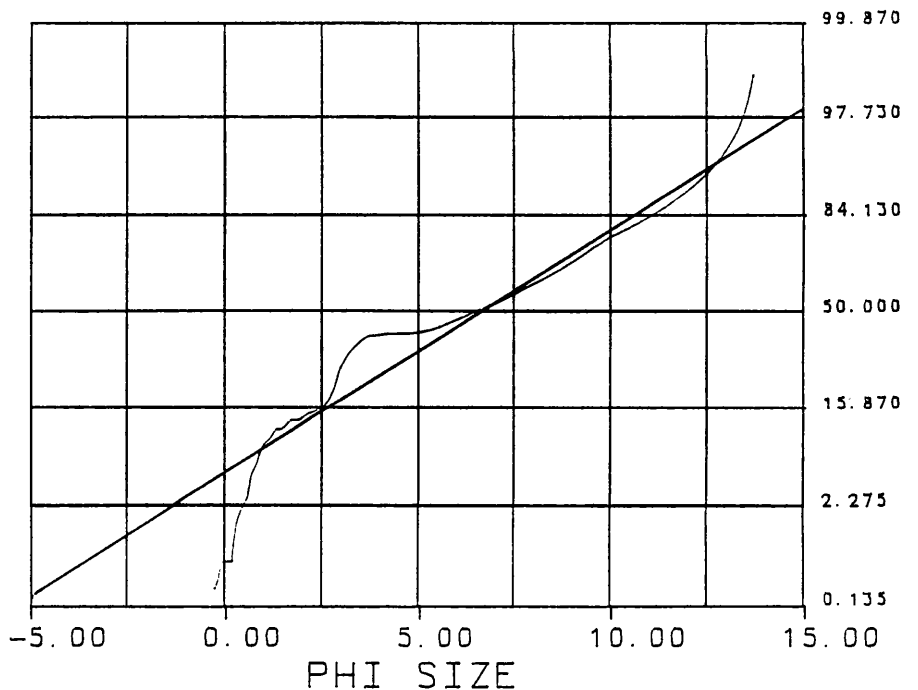
MEDIAN _____ 6.347
 MEAN _____ 6.583
 STD. DEVIATION _____ 3.979
 INC. SKEWNESS _____ 0.084
 INC. KURTOSIS _____ 0.600

Moment Measures

1st MOMENT _____ 6.353
 2nd MOMENT _____ 3.938
 3rd MOMENT _____ 0.198
 4th MOMENT _____ 1.784

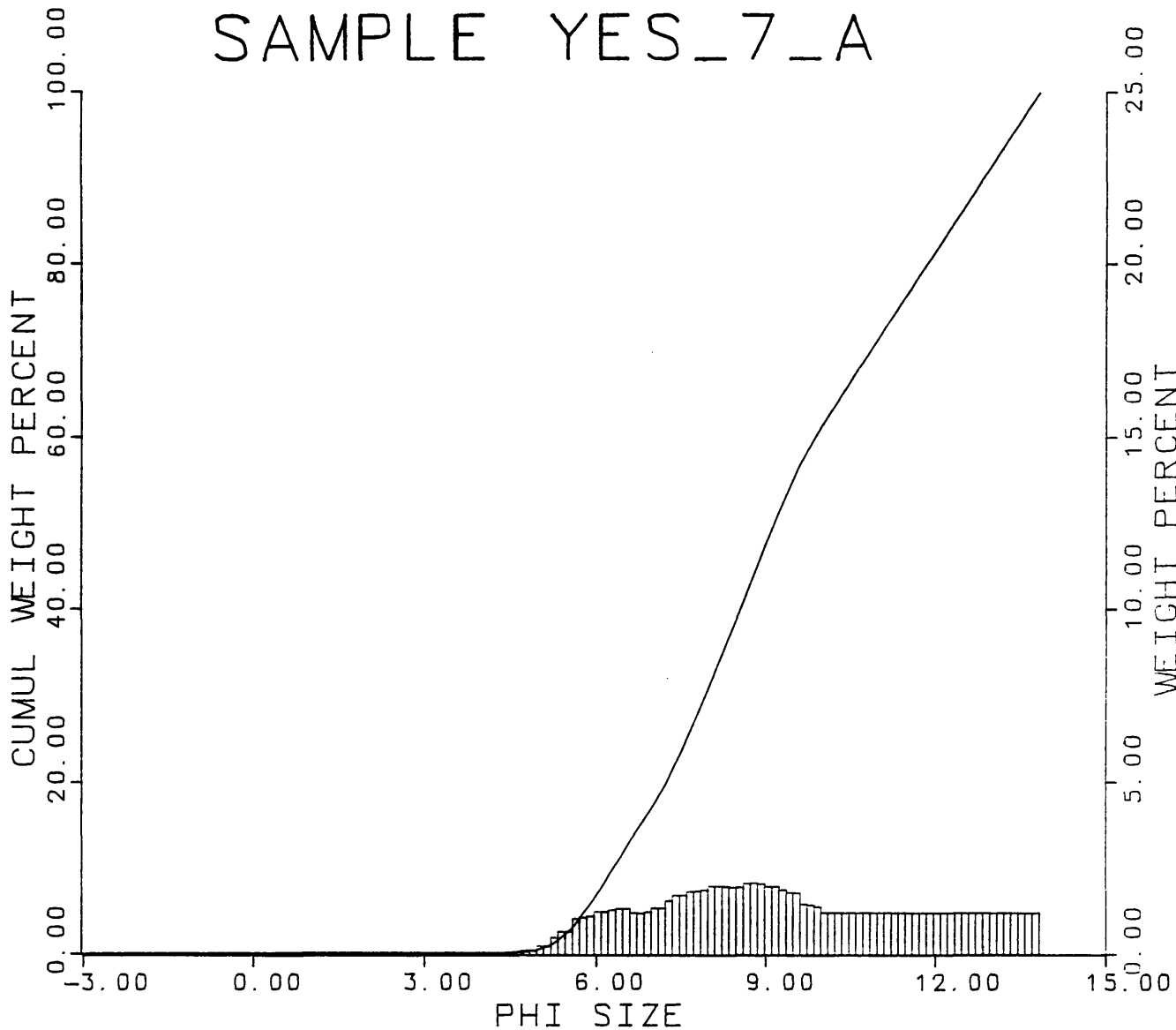
DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

SAMPLE YES_7_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 2.4
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 34.4
 CLAY _____ 63.1

Graphic Measures

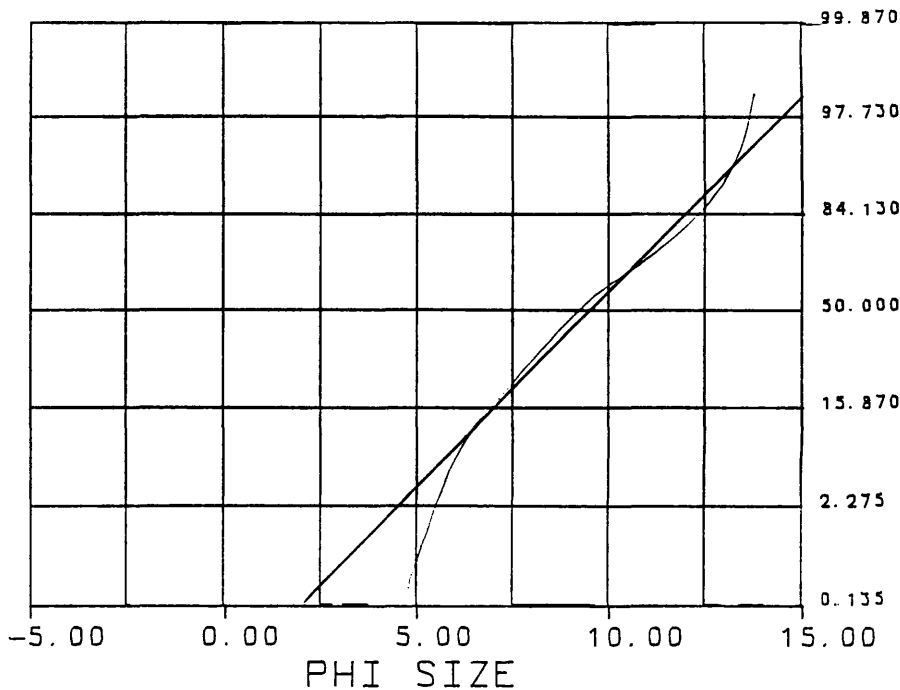
MEDIAN _____ 9.183
 MEAN _____ 9.458
 STD. DEVIATION— 2.485
 INC. SKEWNESS— 0.134
 INC. KURTOSIS— 0.374

Moment Measures

1st MOMENT _____ 9.443
 2nd MOMENT _____ 2.342
 3rd MOMENT _____ 0.146
 4th MOMENT _____ 2.006

DATE: 12-09-92

PROBABILITY CURVE



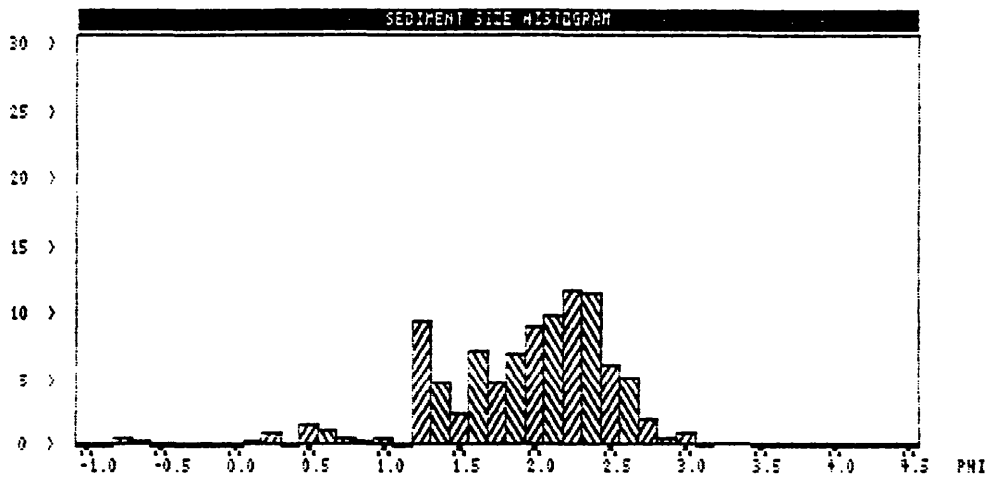
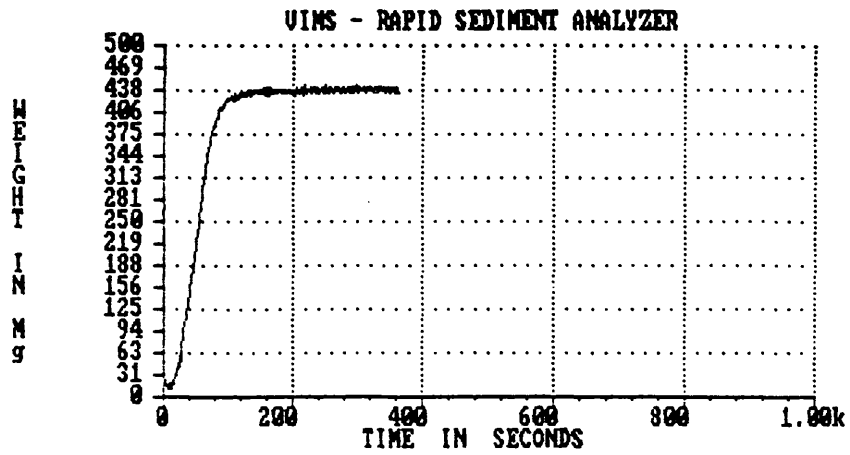
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_7_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
696.9389 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.8527 0.6110 -1.2757 5.8329 M1 M2 M3 M4 (phi)
1.8667 1.9807 0.5813 -0.3398 0.4956 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	2.7801	0.6522	2.7801	0.6522
-0.6250	1.5422	16.6582	1.6921	0.3970	4.4723	1.0492
-0.5000	1.4142	15.6003	0.0000	0.0000	4.4723	1.0492
-0.3750	1.2968	14.5884	0.0000	0.0000	4.4723	1.0492
-0.2500	1.1892	13.6217	0.0000	0.0000	4.4723	1.0492
-0.1250	1.0905	12.6995	0.0000	0.0000	4.4723	1.0492
0.0000	1.0000	11.8208	0.0000	0.0000	4.4723	1.0492
0.1250	0.9170	10.9848	1.6277	0.3819	6.0999	1.4310
0.2500	0.8409	10.1905	4.0514	0.9505	10.1514	2.3815
0.3750	0.7711	9.4370	0.0000	0.0000	10.1514	2.3815
0.5000	0.7071	8.7233	6.4324	1.5090	16.5837	3.8905
0.6250	0.6484	8.0484	5.1771	1.2145	21.7609	5.1050
0.7500	0.5946	7.4111	2.2223	0.5213	23.9832	5.6264
0.8750	0.5453	6.8104	1.4354	0.3367	25.4185	5.9631
1.0000	0.5000	6.2452	2.6191	0.6144	28.0376	6.5775
1.1250	0.4585	5.7143	0.0000	0.0000	28.0376	6.5775
1.2500	0.4204	5.2167	40.3040	9.4552	68.3416	16.0327
1.3750	0.3856	4.7510	20.2319	4.7463	88.5735	20.7790
1.5000	0.3536	4.3163	10.5097	2.4655	99.0832	23.2446
1.6250	0.3242	3.9113	30.9732	7.2662	130.0564	30.5108
1.7500	0.2973	3.5349	20.9006	4.9032	150.9570	35.4140
1.8750	0.2726	3.1860	29.6722	6.9610	180.6292	42.3750
2.0000	0.2500	2.8634	38.4485	9.0199	219.0778	51.3949
2.1250	0.2293	2.5660	42.1688	9.8927	261.2466	61.2875
2.2500	0.2102	2.2927	50.1625	11.7679	311.4091	73.0555
2.3750	0.1928	2.0423	48.6500	11.4131	360.0591	84.4686
2.5000	0.1768	1.8137	26.6604	6.2544	386.7195	90.7230
2.6250	0.1621	1.6058	22.2291	5.2149	408.9487	95.9379
2.7500	0.1487	1.4175	8.8556	2.0775	417.8042	98.0154
2.8750	0.1363	1.2476	2.7117	0.6361	420.5159	98.6515
3.0000	0.1250	1.0949	4.3442	1.0191	424.8600	99.6706
3.1250	0.1146	0.9582	0.0000	0.0000	424.8600	99.6706
3.2500	0.1051	0.8364	0.3884	0.0911	425.2485	99.7618
3.3750	0.0964	0.7282	1.0155	0.2382	426.2640	100.0000
3.5000	0.0884	0.6326	0.0000	0.0000	426.2640	100.0000
3.6250	0.0811	0.5484	0.0000	0.0000	426.2640	100.0000
3.7500	0.0743	0.4744	0.0000	0.0000	426.2640	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	426.2640	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	426.2640	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	426.2640	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	426.2640	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	426.2640	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	426.2640	100.0000

* - fall velocity of natural grains in fresh water at 20oC



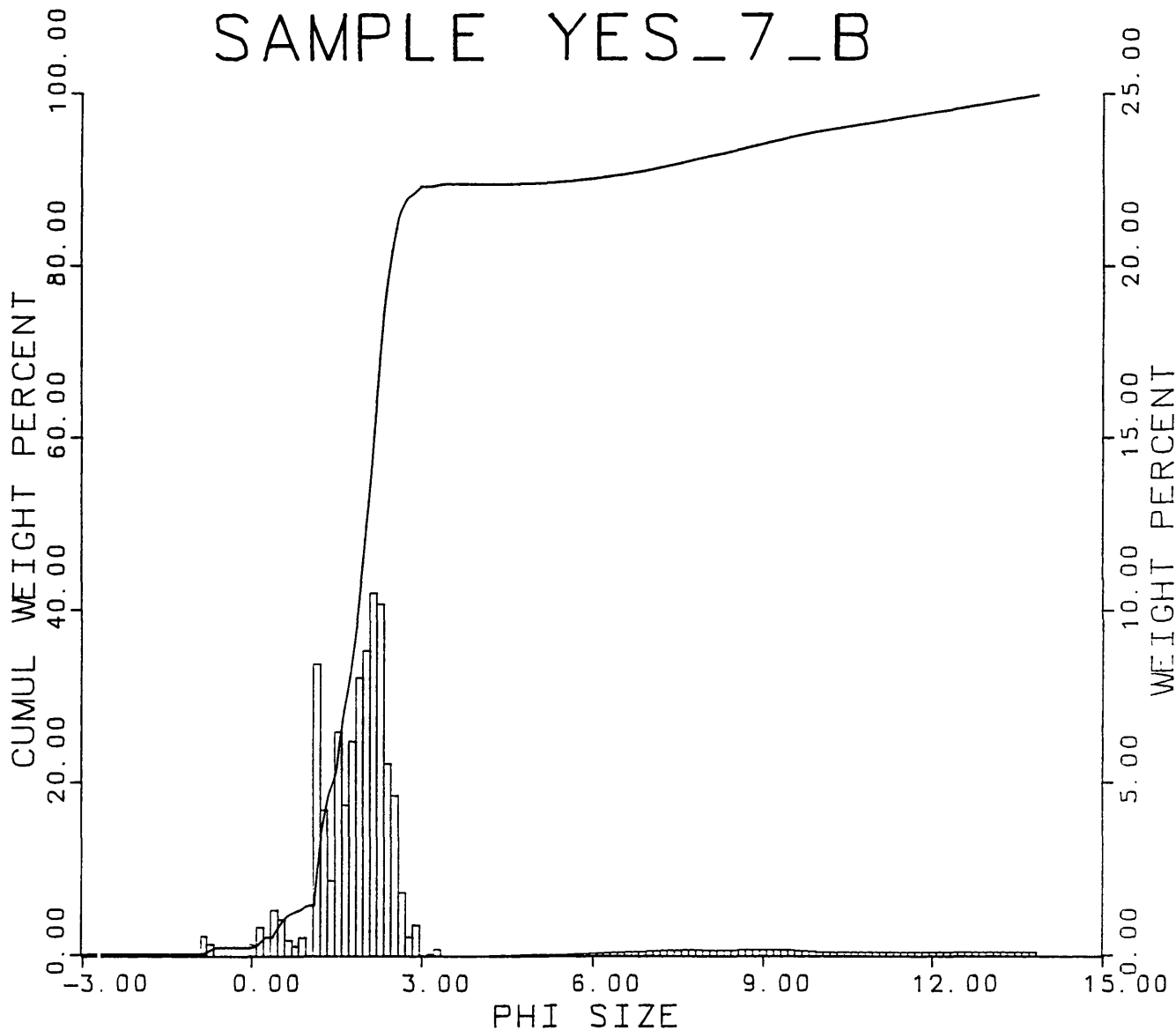
Coulter data

This data corresponds to file YES_7_B.3rd

9.6002	2.3568	0.1045	1.9758	M1	M2	M3	M4 (phi)
9.6337	9.3865	2.4825	0.1151	0.3657			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1175%	is larger than	4.6367	phi.
0.5092%	is larger than	4.9700	phi.
1.3318%	is larger than	5.3033	phi.
2.8204%	is larger than	5.6367	phi.
4.9748%	is larger than	5.9700	phi.
7.6385%	is larger than	6.3033	phi.
10.9290%	is larger than	6.6367	phi.
14.6723%	is larger than	6.9700	phi.
19.0458%	is larger than	7.3033	phi.
23.9751%	is larger than	7.6367	phi.
29.0898%	is larger than	7.9700	phi.
33.7598%	is larger than	8.3033	phi.
38.4668%	is larger than	8.6367	phi.
43.5814%	is larger than	8.9700	phi.
48.7332%	is larger than	9.3033	phi.
53.8108%	is larger than	9.6367	phi.
58.0731%	is larger than	9.9700	phi.
61.5670%	is larger than	10.3033	phi.
65.0609%	is larger than	10.6367	phi.
68.5548%	is larger than	10.9700	phi.
72.0487%	is larger than	11.3033	phi.
75.5426%	is larger than	11.6367	phi.
79.0365%	is larger than	11.9700	phi.
82.5304%	is larger than	12.3033	phi.
86.0244%	is larger than	12.6367	phi.
89.5183%	is larger than	12.9700	phi.
93.0122%	is larger than	13.3033	phi.
96.5061%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_7_B



Sample Location

LATITUDE— 0-0-0
 LONGITUDE— 0-0-0
 DEPTH (m) — 0.00

Grass Parameters (%)

GRAVEL — 2.8
 SAND — 87.1
 V-COARSE SAND — 0.9
 COARSE SAND — 4.8
 MEDIUM SAND — 39.0
 FINE SAND — 42.0
 V-FINE SAND — 0.3
 SILT — 3.2
 CLAY — 8.9

Graphic Measures

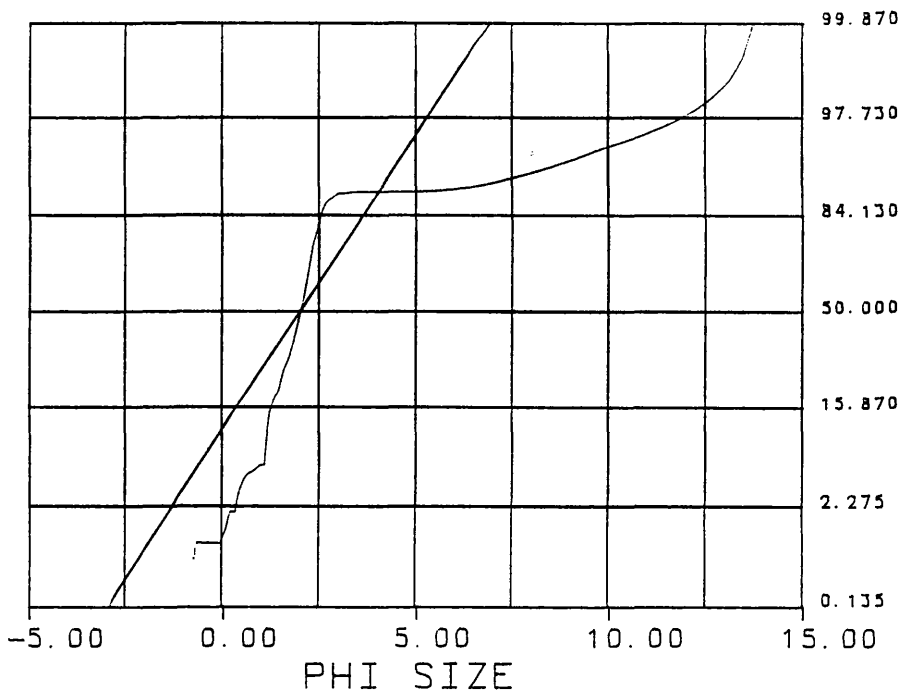
MEDIAN — 2.055
 MEAN — 1.974
 STD. DEVIATION — 1.638
 INC. SKEWNESS — 0.254
 INC. KURTOSIS — 2.078

Moment Measures

1st MOMENT — 2.646
 2nd MOMENT — 2.525
 3rd MOMENT — 2.745
 4th MOMENT — 10.032

DATE: 12-09-92

PROBABILITY CURVE



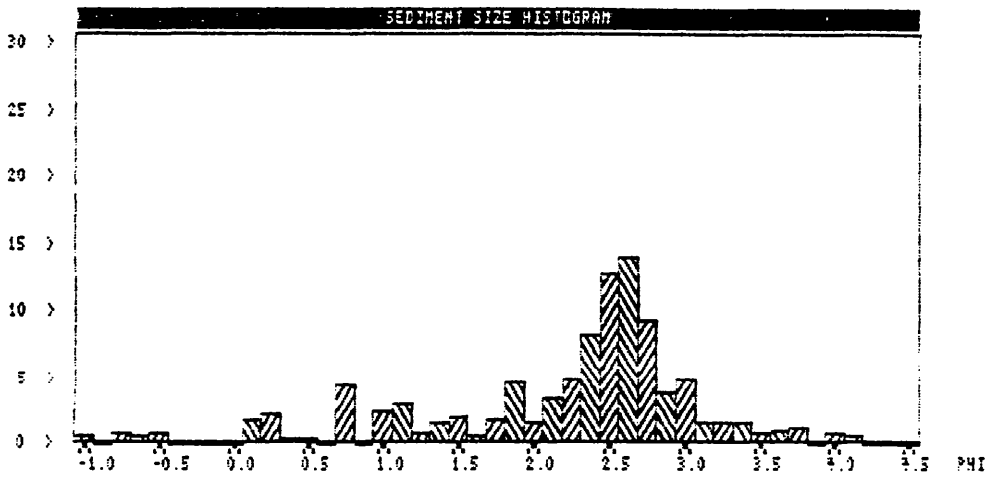
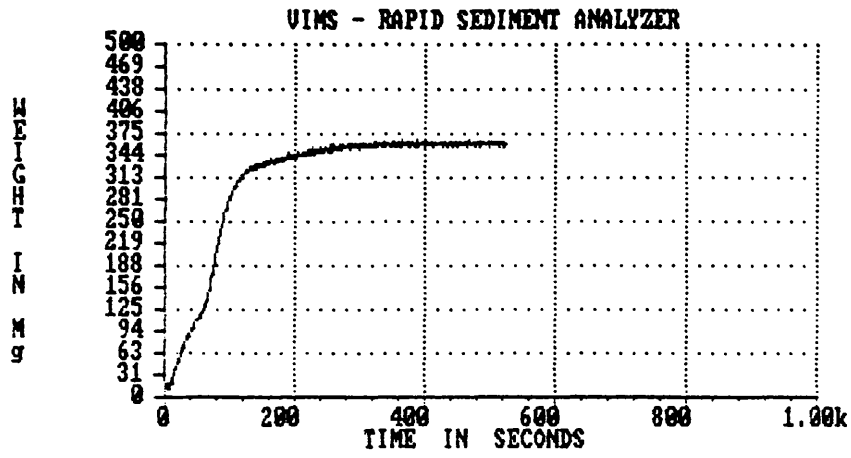
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_7_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
579.4112 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.1187 0.9476 -1.1187 4.2351 M1 M2 M3 M4 (phi)
2.0937 2.4094 0.9145 -0.4861 0.6770 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	2.3143	0.6578	2.3143	0.6578
-0.8750	1.8340	18.9156	0.0000	0.0000	2.3143	0.6578
-0.7500	1.6818	17.7631	2.8675	0.8150	5.1818	1.4729
-0.6250	1.5422	16.6582	1.8354	0.5217	7.0172	1.9946
-0.5000	1.4142	15.6003	2.7721	0.7879	9.7893	2.7825
-0.3750	1.2968	14.5884	0.0000	0.0000	9.7893	2.7825
-0.2500	1.1892	13.6217	0.0000	0.0000	9.7893	2.7825
-0.1250	1.0905	12.6995	0.0000	0.0000	9.7893	2.7825
0.0000	1.0000	11.8208	0.0000	0.0000	9.7893	2.7825
0.1250	0.9170	10.9848	6.5287	1.8557	16.3180	4.6382
0.2500	0.8409	10.1905	7.9179	2.2506	24.2358	6.8888
0.3750	0.7711	9.4370	1.0777	0.3063	25.3136	7.1951
0.5000	0.7071	8.7233	0.9548	0.2714	26.2684	7.4665
0.6250	0.6484	8.0484	0.0000	0.0000	26.2684	7.4665
0.7500	0.5946	7.4111	15.5955	4.4329	41.8639	11.8994
0.8750	0.5453	6.8104	0.0000	0.0000	41.8639	11.8994
1.0000	0.5000	6.2452	8.6998	2.4728	50.5637	14.3722
1.1250	0.4585	5.7143	10.3345	2.9375	60.8982	17.3097
1.2500	0.4204	5.2167	2.4042	0.6834	63.3024	17.9930
1.3750	0.3856	4.7510	5.8772	1.6705	69.1796	19.6636
1.5000	0.3536	4.3163	7.0438	2.0021	76.2234	21.6657
1.6250	0.3242	3.9113	1.9906	0.5658	78.2140	22.2315
1.7500	0.2973	3.5349	6.0735	1.7263	84.2875	23.9578
1.8750	0.2726	3.1860	16.2316	4.6137	100.5191	28.5715
2.0000	0.2500	2.8634	5.2296	1.4865	105.7487	30.0579
2.1250	0.2293	2.5660	12.1587	3.4560	117.9074	33.5139
2.2500	0.2102	2.2927	16.6968	4.7459	134.6042	38.2598
2.3750	0.1928	2.0423	29.1183	8.2766	163.7224	46.5364
2.5000	0.1768	1.8137	44.3030	12.5927	208.0255	59.1290
2.6250	0.1621	1.6058	48.9071	13.9013	256.9325	73.0304
2.7500	0.1487	1.4175	32.8322	9.3322	289.7647	82.3626
2.8750	0.1363	1.2476	13.6996	3.8940	303.4644	86.2566
3.0000	0.1250	1.0949	17.0468	4.8454	320.5112	91.1019
3.1250	0.1146	0.9582	5.4478	1.5485	325.9590	92.6504
3.2500	0.1051	0.8364	5.2381	1.4889	331.1971	94.1393
3.3750	0.0964	0.7282	5.3196	1.5121	336.5167	95.6513
3.5000	0.0884	0.6326	2.8695	0.8156	339.3862	96.4670
3.6250	0.0811	0.5484	3.5915	1.0208	342.9777	97.4878
3.7500	0.0743	0.4744	3.8285	1.0882	346.8062	98.5760
3.8750	0.0682	0.4098	0.0000	0.0000	346.8062	98.5760
4.0000	0.0625	0.3533	2.7781	0.7896	349.5842	99.3656
4.1250	0.0573	0.3043	2.2318	0.6344	351.8160	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	351.8160	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	351.8160	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	351.8160	100.0000

* - fall velocity of natural grains in fresh water at 20oC



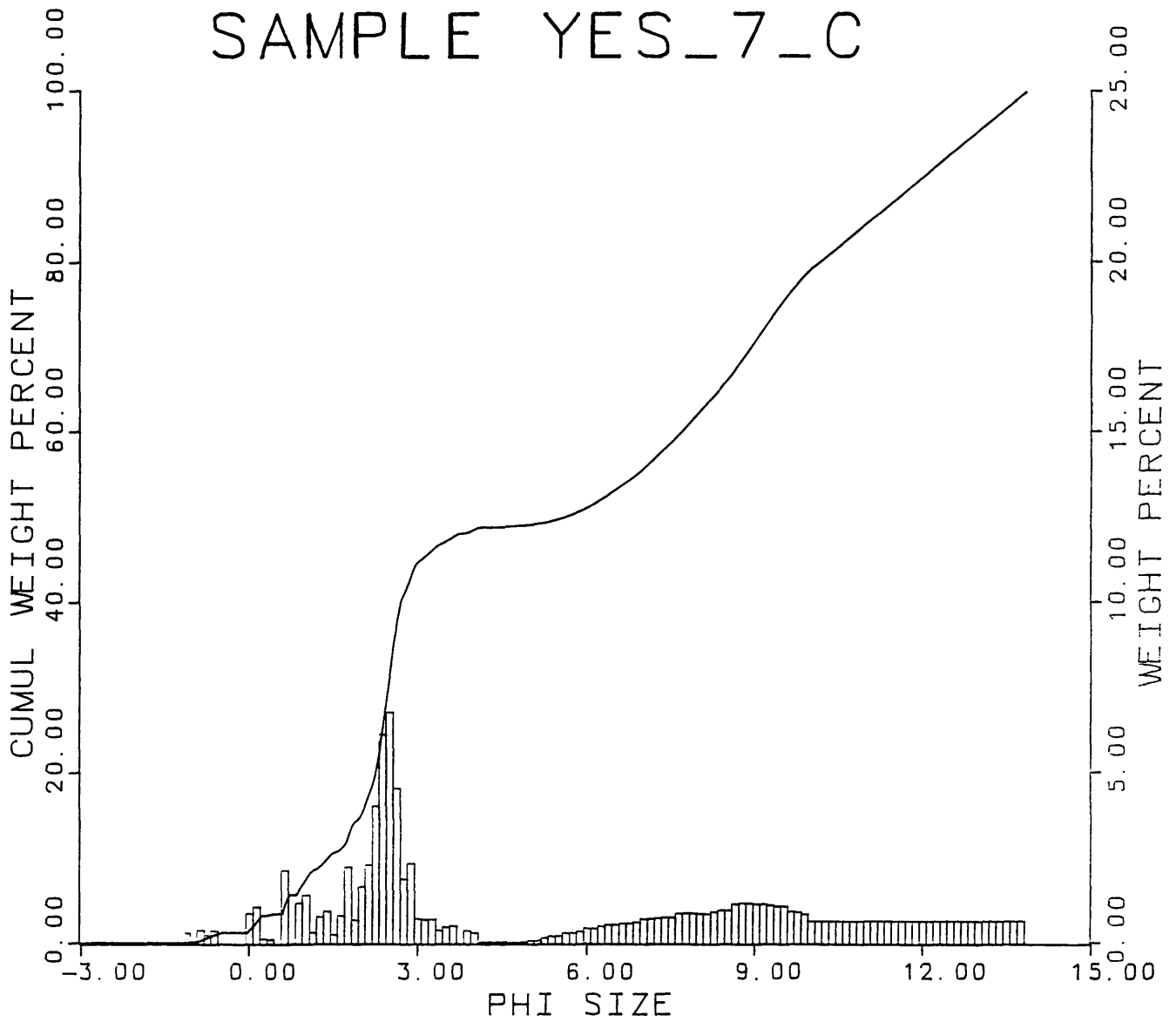
Coulter data

This data corresponds to file YES_7_C.3rd

9.6779 2.2863 0.0881 2.0866 M1 M2 M3 M4 (phi)
9.7080 9.4362 2.4141 0.1270 0.3646 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.1053% is larger than 4.3033 phi.
0.2907% is larger than 4.6367 phi.
0.5964% is larger than 4.9700 phi.
1.1578% is larger than 5.3033 phi.
2.3857% is larger than 5.6367 phi.
4.1048% is larger than 5.9700 phi.
6.4905% is larger than 6.3033 phi.
9.4727% is larger than 6.6367 phi.
12.6659% is larger than 6.9700 phi.
16.5458% is larger than 7.3033 phi.
20.6660% is larger than 7.6367 phi.
25.4386% is larger than 7.9700 phi.
30.1082% is larger than 8.3033 phi.
35.2929% is larger than 8.6367 phi.
41.5419% is larger than 8.9700 phi.
47.6879% is larger than 9.3033 phi.
53.4906% is larger than 9.6367 phi.
58.4005% is larger than 9.9700 phi.
61.8672% is larger than 10.3033 phi.
65.3338% is larger than 10.6367 phi.
68.8004% is larger than 10.9700 phi.
72.2670% is larger than 11.3033 phi.
75.7336% is larger than 11.6367 phi.
79.2003% is larger than 11.9700 phi.
82.6669% is larger than 12.3033 phi.
86.1335% is larger than 12.6367 phi.
89.6001% is larger than 12.9700 phi.
93.0668% is larger than 13.3033 phi.
96.5334% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_7_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 5.1
 SAND _____ 48.2
 V-COARSE SAND _____ 1.0
 COARSE SAND _____ 5.4
 MEDIUM SAND _____ 7.3
 FINE SAND _____ 28.6
 V-FINE SAND _____ 3.9
 SILT _____ 15.7
 CLAY _____ 33.0

Graphic Measures

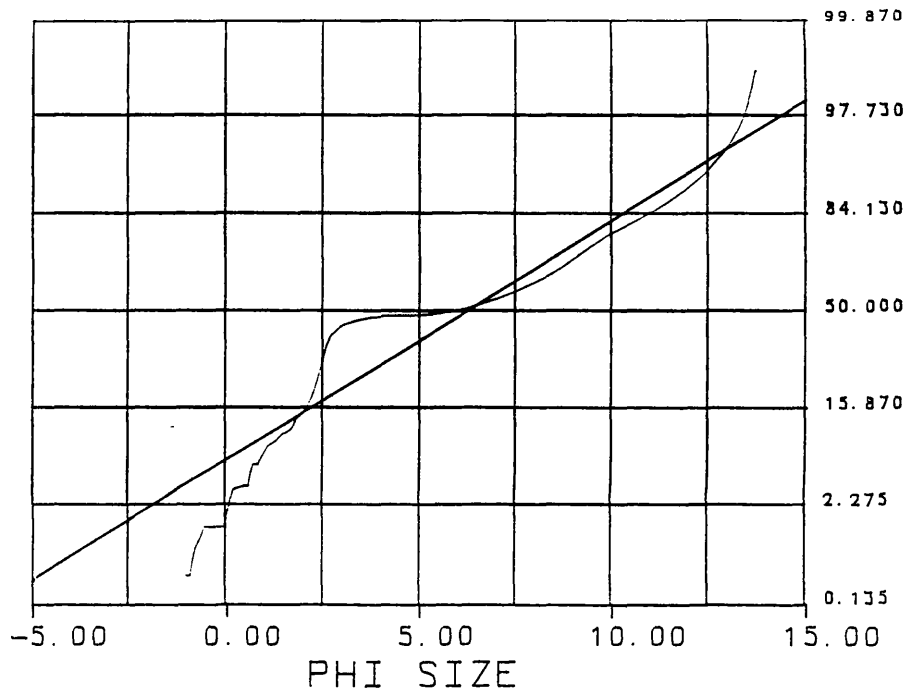
MEDIAN _____ 5.552
 MEAN _____ 6.180
 STD. DEVIATION _____ 4.054
 INC. SKEWNESS _____ 0.211
 INC. KURTOSIS _____ 0.592

Moment Measures

1st MOMENT _____ 5.957
 2nd MOMENT _____ 4.143
 3rd MOMENT _____ 0.302
 4th MOMENT _____ 1.677

DATE: 12-09-92

PROBABILITY CURVE



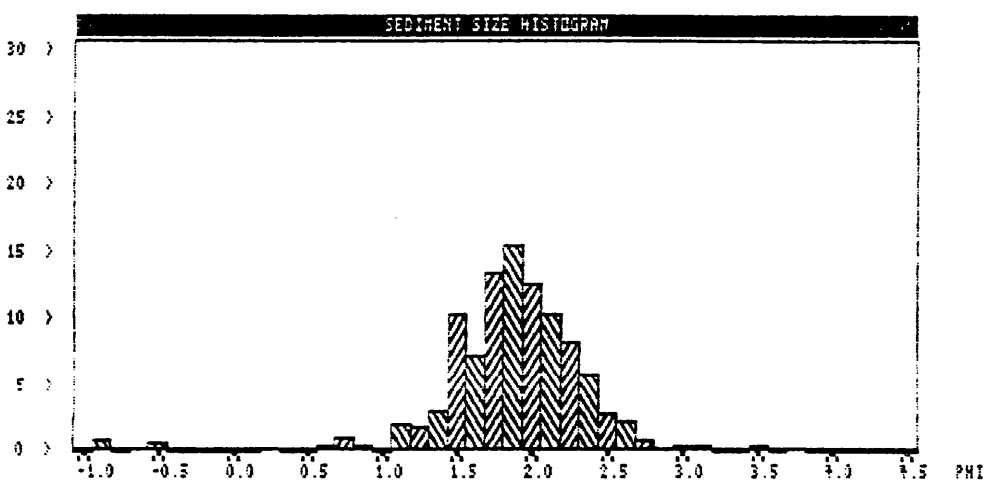
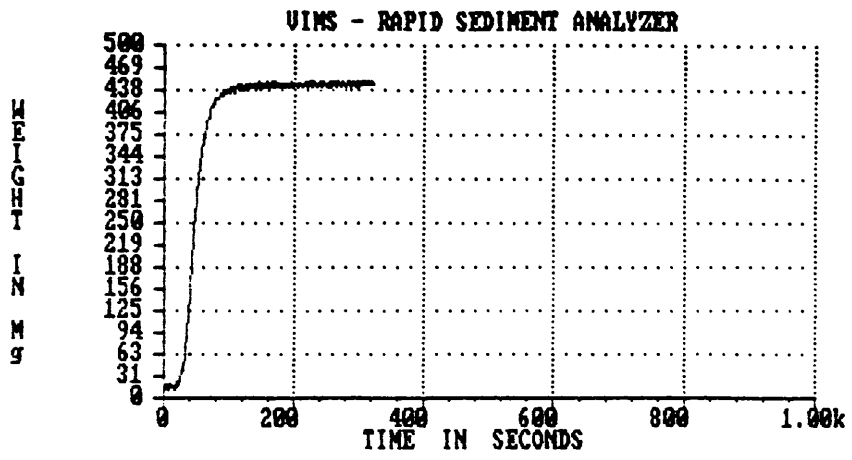
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_7_D

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
713.3927 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.7999 0.5012 -1.7099 11.6827 M1 M2 M3 M4 (phi)
1.8248 1.8246 0.3950 -0.0270 0.3896 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	2.9594	0.6768	2.9594	0.6768
-0.7500	1.6818	17.7631	0.2001	0.0458	3.1595	0.7226
-0.6250	1.5422	16.6582	0.4879	0.1116	3.6474	0.8342
-0.5000	1.4142	15.6003	2.4369	0.5573	6.0843	1.3915
-0.3750	1.2968	14.5884	0.0000	0.0000	6.0843	1.3915
-0.2500	1.1892	13.6217	0.0000	0.0000	6.0843	1.3915
-0.1250	1.0905	12.6995	0.0000	0.0000	6.0843	1.3915
0.0000	1.0000	11.8208	0.0000	0.0000	6.0843	1.3915
0.1250	0.9170	10.9848	0.0000	0.0000	6.0843	1.3915
0.2500	0.8409	10.1905	0.3322	0.0760	6.4166	1.4675
0.3750	0.7711	9.4370	0.0000	0.0000	6.4166	1.4675
0.5000	0.7071	8.7233	0.0000	0.0000	6.4166	1.4675
0.6250	0.6484	8.0484	1.6715	0.3823	8.0880	1.8498
0.7500	0.5946	7.4111	4.0030	0.9155	12.0910	2.7653
0.8750	0.5453	6.8104	1.9753	0.4518	14.0664	3.2171
1.0000	0.5000	6.2452	0.0000	0.0000	14.0664	3.2171
1.1250	0.4585	5.7143	9.0698	2.0743	23.1362	5.2914
1.2500	0.4204	5.2167	7.9977	1.8291	31.1339	7.1205
1.3750	0.3856	4.7510	13.0424	2.9829	44.1763	10.1034
1.5000	0.3536	4.3163	44.8341	10.2538	89.0104	20.3572
1.6250	0.3242	3.9113	31.6994	7.2498	120.7098	27.6070
1.7500	0.2973	3.5349	58.1557	13.3005	178.8655	40.9075
1.8750	0.2726	3.1860	66.6534	15.2440	245.5188	56.1515
2.0000	0.2500	2.8634	54.4131	12.4446	299.9319	68.5961
2.1250	0.2293	2.5660	45.0243	10.2973	344.9562	78.8934
2.2500	0.2102	2.2927	35.8034	9.1884	380.7596	87.0818
2.3750	0.1929	2.0423	25.4791	5.8272	406.2387	92.9090
2.5000	0.1768	1.8137	12.4371	2.8444	418.6758	95.7534
2.6250	0.1621	1.6058	9.3909	2.1478	428.0667	97.9012
2.7500	0.1487	1.4175	3.5360	0.8087	431.6027	98.7099
2.8750	0.1363	1.2476	0.8360	0.1912	432.4387	98.9011
3.0000	0.1250	1.0949	1.1420	0.2612	433.5807	99.1623
3.1250	0.1146	0.9582	1.9737	0.4514	435.5543	99.6136
3.2500	0.1051	0.8364	0.0000	0.0000	435.5543	99.6136
3.3750	0.0964	0.7282	0.0000	0.0000	435.5543	99.6136
3.5000	0.0884	0.6326	1.2274	0.2807	436.7817	99.8944
3.6250	0.0811	0.5484	0.0000	0.0000	436.7817	99.8944
3.7500	0.0743	0.4744	0.4619	0.1056	437.2437	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	437.2437	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	437.2437	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	437.2437	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	437.2437	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	437.2437	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	437.2437	100.0000

* - fall velocity of natural grains in fresh water at 20oC

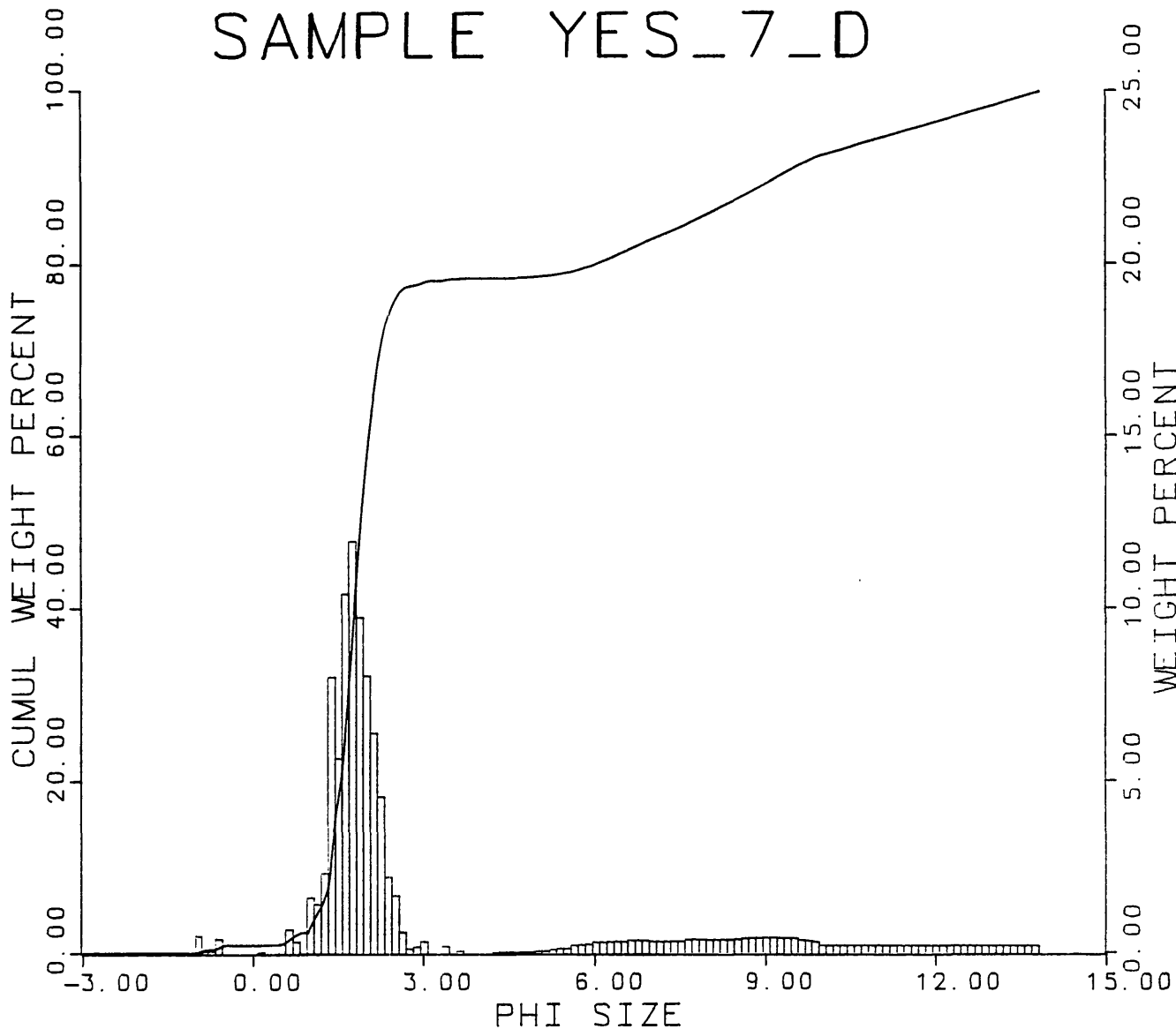


Coulter data
This data corresponds to file YES_7_D.3rd

9.2846 2.3671 0.2380 2.0540 M1 M2 M3 M4 (phi)
9.3128 9.0527 2.5190 0.1438 0.3832 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.0000% is larger than 4.3033 phi.
0.1315% is larger than 4.6367 phi.
0.6574% is larger than 4.9700 phi.
1.6215% is larger than 5.3033 phi.
3.4621% is larger than 5.6367 phi.
6.6174% is larger than 5.9700 phi.
10.6492% is larger than 6.3033 phi.
14.9439% is larger than 6.6367 phi.
19.6877% is larger than 6.9700 phi.
23.9894% is larger than 7.3033 phi.
28.3312% is larger than 7.6367 phi.
33.3564% is larger than 7.9700 phi.
38.1806% is larger than 8.3033 phi.
43.1255% is larger than 8.6367 phi.
48.5929% is larger than 8.9700 phi.
54.2614% is larger than 9.3033 phi.
59.7289% is larger than 9.6367 phi.
64.3521% is larger than 9.9700 phi.
67.3228% is larger than 10.3033 phi.
70.2934% is larger than 10.6367 phi.
73.2641% is larger than 10.9700 phi.
76.2347% is larger than 11.3033 phi.
79.2054% is larger than 11.6367 phi.
82.1760% is larger than 11.9700 phi.
85.1467% is larger than 12.3033 phi.
88.1174% is larger than 12.6367 phi.
91.0880% is larger than 12.9700 phi.
94.0587% is larger than 13.3033 phi.
97.0293% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_7_D



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.8
 SAND _____ 77.7
 V-COARSE SAND - 1.1
 COARSE SAND _____ 1.4
 MEDIUM SAND _____ 50.8
 FINE SAND _____ 23.7
 V-FINE SAND _____ 0.7
 SILT _____ 9.1
 CLAY _____ 12.4

Graphic Measures

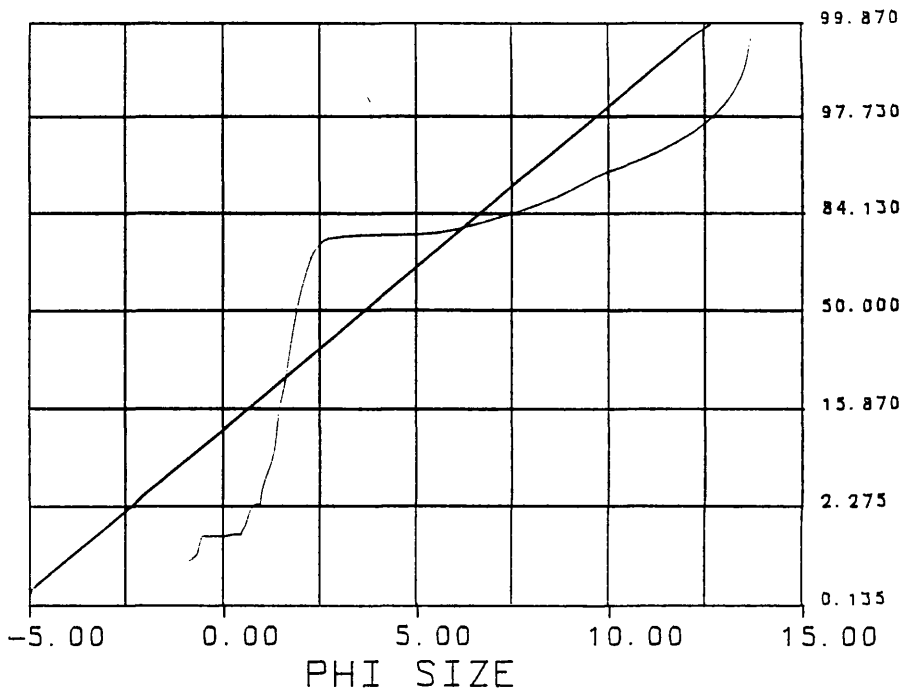
MEDIAN _____ 1.951
 MEAN _____ 3.623
 STD. DEVIATION _____ 3.008
 INC. SKEWNESS _____ 0.849
 INC. KURTOSIS _____ 2.285

Moment Measures

1st MOMENT _____ 3.403
 2nd MOMENT _____ 3.277
 3rd MOMENT _____ 1.701
 4th MOMENT _____ 4.598

DATE: 12-09-92

PROBABILITY CURVE



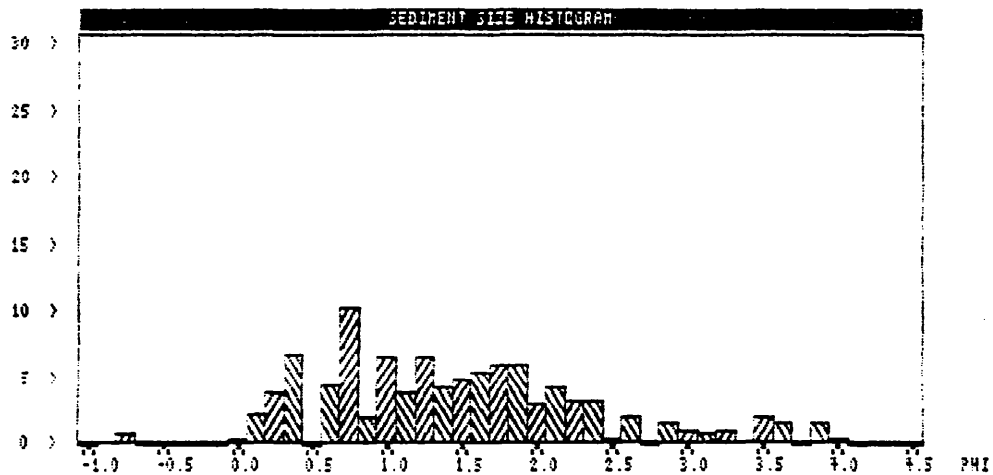
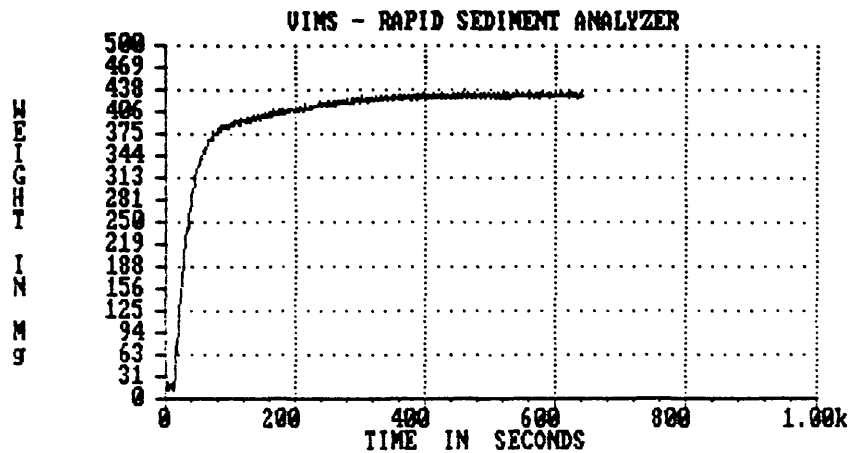
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_8_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
687.1449 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.4101 0.9171 0.5773 3.1976 M1 M2 M3 M4 (phi)
1.3676 1.3179 0.9056 0.1899 0.8156 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.9572	0.2280	0.9572	0.2280
-0.7500	1.6818	17.7631	3.1384	0.7474	4.0956	0.9754
-0.6250	1.5422	16.6582	0.0000	0.0000	4.0956	0.9754
-0.5000	1.4142	15.6003	0.0000	0.0000	4.0956	0.9754
-0.3750	1.2968	14.5884	0.0000	0.0000	4.0956	0.9754
-0.2500	1.1892	13.6217	0.0000	0.0000	4.0956	0.9754
-0.1250	1.0905	12.6995	0.0000	0.0000	4.0956	0.9754
0.0000	1.0000	11.8208	1.5994	0.3809	5.6950	1.3563
0.1250	0.9170	10.9848	8.7619	2.0867	14.4569	3.4430
0.2500	0.8409	10.1905	16.1019	3.8348	30.5588	7.2778
0.3750	0.7711	9.4370	28.3661	6.7556	58.9249	14.0333
0.5000	0.7071	8.7233	0.0000	0.0000	58.9249	14.0333
0.6250	0.6484	8.0484	18.1086	4.3127	77.0336	18.3460
0.7500	0.5946	7.4111	43.0103	10.2432	120.0439	28.5892
0.8750	0.5453	6.8104	8.5094	2.0266	128.5533	30.6157
1.0000	0.5000	6.2452	28.0855	6.6887	156.6388	37.3045
1.1250	0.4585	5.7143	15.6366	3.7240	172.2754	41.0284
1.2500	0.4204	5.2167	28.0065	6.6699	200.2819	47.6983
1.3750	0.3856	4.7510	17.7886	4.2365	218.0705	51.9348
1.5000	0.3536	4.3163	20.3743	4.8523	238.4448	56.7870
1.6250	0.3242	3.9113	22.5524	5.3710	260.9971	62.1580
1.7500	0.2973	3.5349	25.2534	6.0143	286.2505	68.1723
1.8750	0.2726	3.1860	25.3928	6.0475	311.6434	74.2197
2.0000	0.2500	2.8634	12.6066	3.0023	324.2500	77.2221
2.1250	0.2293	2.5660	17.7779	4.2339	342.0279	81.4560
2.2500	0.2102	2.2927	12.9857	3.0926	355.0137	84.5486
2.3750	0.1928	2.0423	13.4628	3.2062	368.4764	87.7549
2.5000	0.1768	1.8137	1.7512	0.4171	370.2276	88.1719
2.6250	0.1621	1.6058	8.0564	1.9187	378.2840	90.0906
2.7500	0.1487	1.4175	0.0000	0.0000	378.2840	90.0906
2.8750	0.1363	1.2476	6.7969	1.6187	385.0809	91.7093
3.0000	0.1250	1.0949	3.8968	0.9281	388.9777	92.6374
3.1250	0.1146	0.9582	3.1545	0.7513	392.1323	93.3887
3.2500	0.1051	0.8364	4.4575	1.0616	396.5897	94.4502
3.3750	0.0964	0.7282	0.9398	0.2238	397.5295	94.6740
3.5000	0.0884	0.6326	8.2293	1.9599	405.7588	96.6339
3.6250	0.0811	0.5484	6.2413	1.4864	412.0001	98.1203
3.7500	0.0743	0.4744	0.2437	0.0580	412.2438	98.1783
3.8750	0.0682	0.4098	6.3525	1.5129	418.5963	99.6912
4.0000	0.0625	0.3533	1.2965	0.3088	419.8928	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	419.8928	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	419.8928	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	419.8928	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	419.8928	100.0000

* - fall velocity of natural grains in fresh water at 20oC



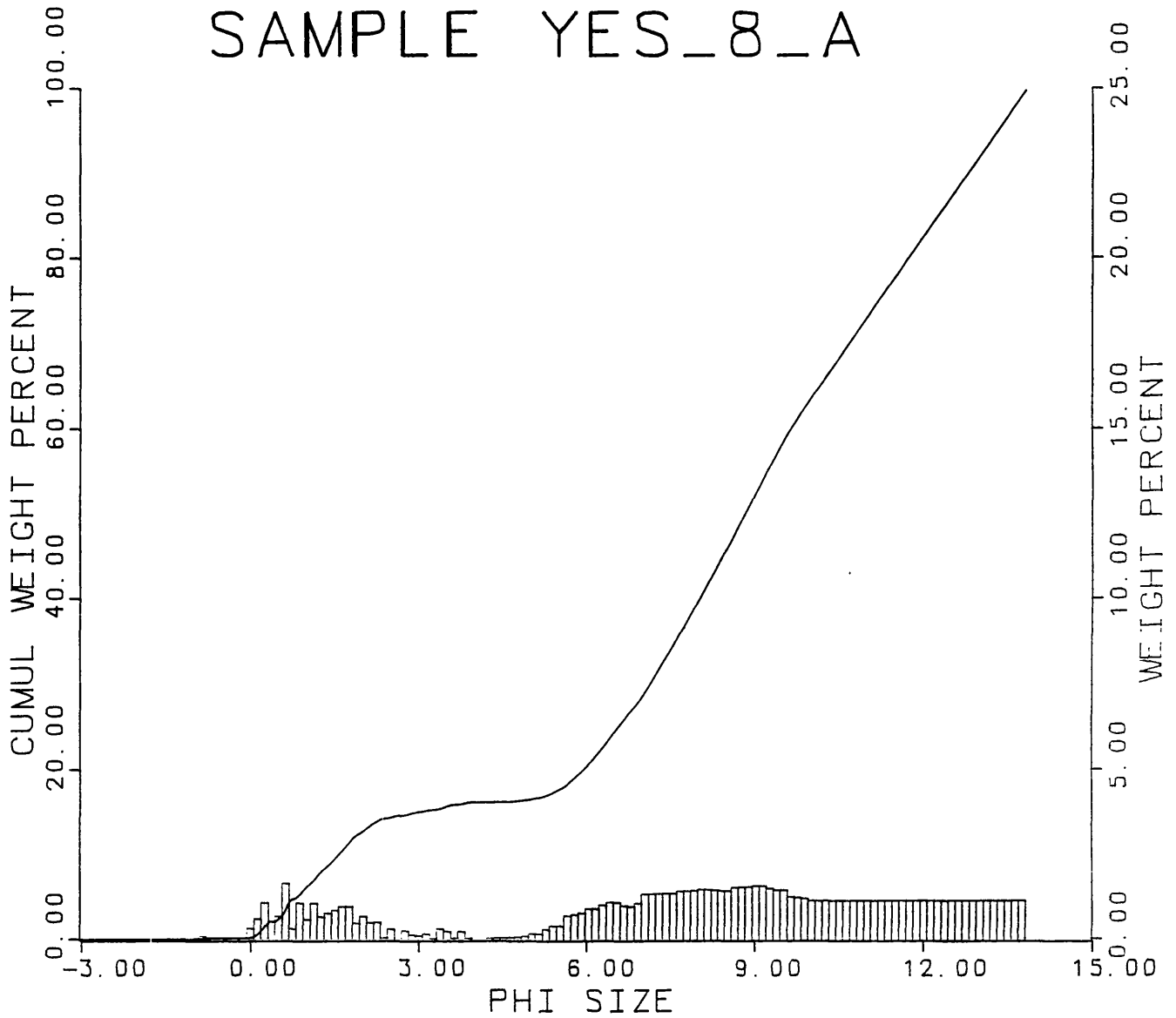
Coulter data

This data corresponds to file YES_8_A.3rd

9.7058 2.3649 0.0494 1.9313 M1 M2 M3 M4 (phi)
9.7244 9.5297 2.4923 0.0857 0.3606 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.0000% is larger than 4.3033 phi.
0.0717% is larger than 4.6367 phi.
0.3585% is larger than 4.9700 phi.
0.9322% is larger than 5.3033 phi.
2.2230% is larger than 5.6367 phi.
4.5894% is larger than 5.9700 phi.
7.5294% is larger than 6.3033 phi.
11.0432% is larger than 6.6367 phi.
14.1879% is larger than 6.9700 phi.
18.4692% is larger than 7.3033 phi.
22.9262% is larger than 7.6367 phi.
27.4107% is larger than 7.9700 phi.
32.1466% is larger than 8.3033 phi.
36.7689% is larger than 8.6367 phi.
41.7322% is larger than 8.9700 phi.
46.8091% is larger than 9.3033 phi.
51.5072% is larger than 9.6367 phi.
55.4854% is larger than 9.9700 phi.
59.1950% is larger than 10.3033 phi.
62.9045% is larger than 10.6367 phi.
66.6141% is larger than 10.9700 phi.
70.3236% is larger than 11.3033 phi.
74.0332% is larger than 11.6367 phi.
77.7427% is larger than 11.9700 phi.
81.4523% is larger than 12.3033 phi.
85.1618% is larger than 12.6367 phi.
88.9714% is larger than 12.9700 phi.
92.5809% is larger than 13.3033 phi.
96.2905% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_8_A



Sample Location

LATITUDE ----- 0-0-0
 LONGITUDE ----- 0-0-0
 DEPTH (m) ----- 0.00

Cross Parameters (%)

GRAVEL ----- 11.7
 SAND ----- 14.3
 V-COARSE SAND - 0.2
 COARSE SAND --- 5.1
 MEDIUM SAND --- 5.7
 FINE SAND ----- 2.2
 V-FINE SAND --- 1.1
 SILT ----- 20.2
 CLAY ----- 53.8

Graphic Measures

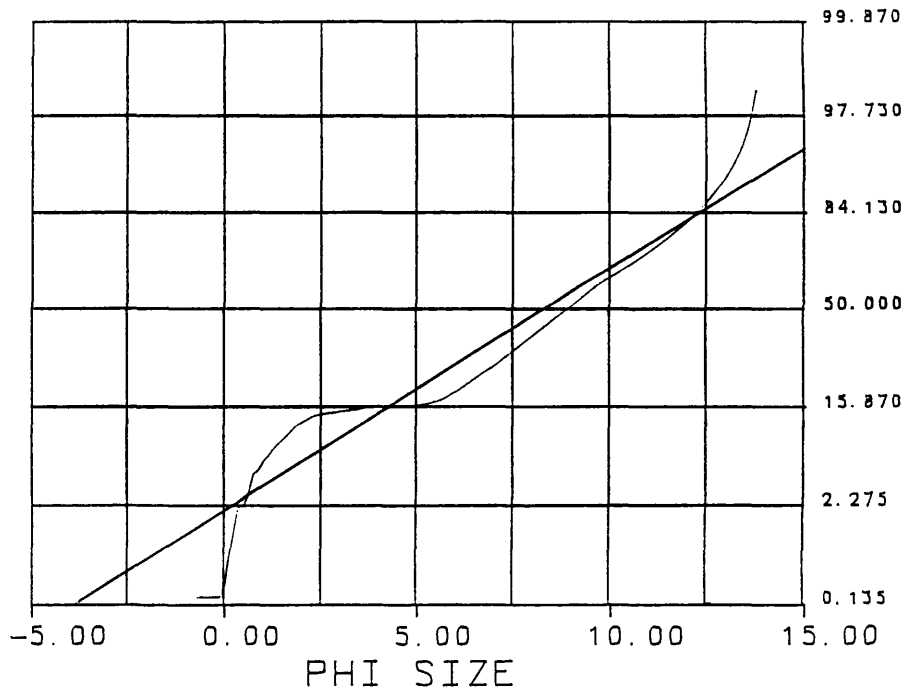
MEDIAN ----- 8.841
 MEAN ----- 8.208
 STD. DEVIATION- 4.031
 INC. SKEWNESS- -0.250
 INC. KURTOSIS- 0.599

Moment Measures

1st MOMENT ----- 8.312
 2nd MOMENT ----- 3.744
 3rd MOMENT ----- -0.676
 4th MOMENT ----- 2.608

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

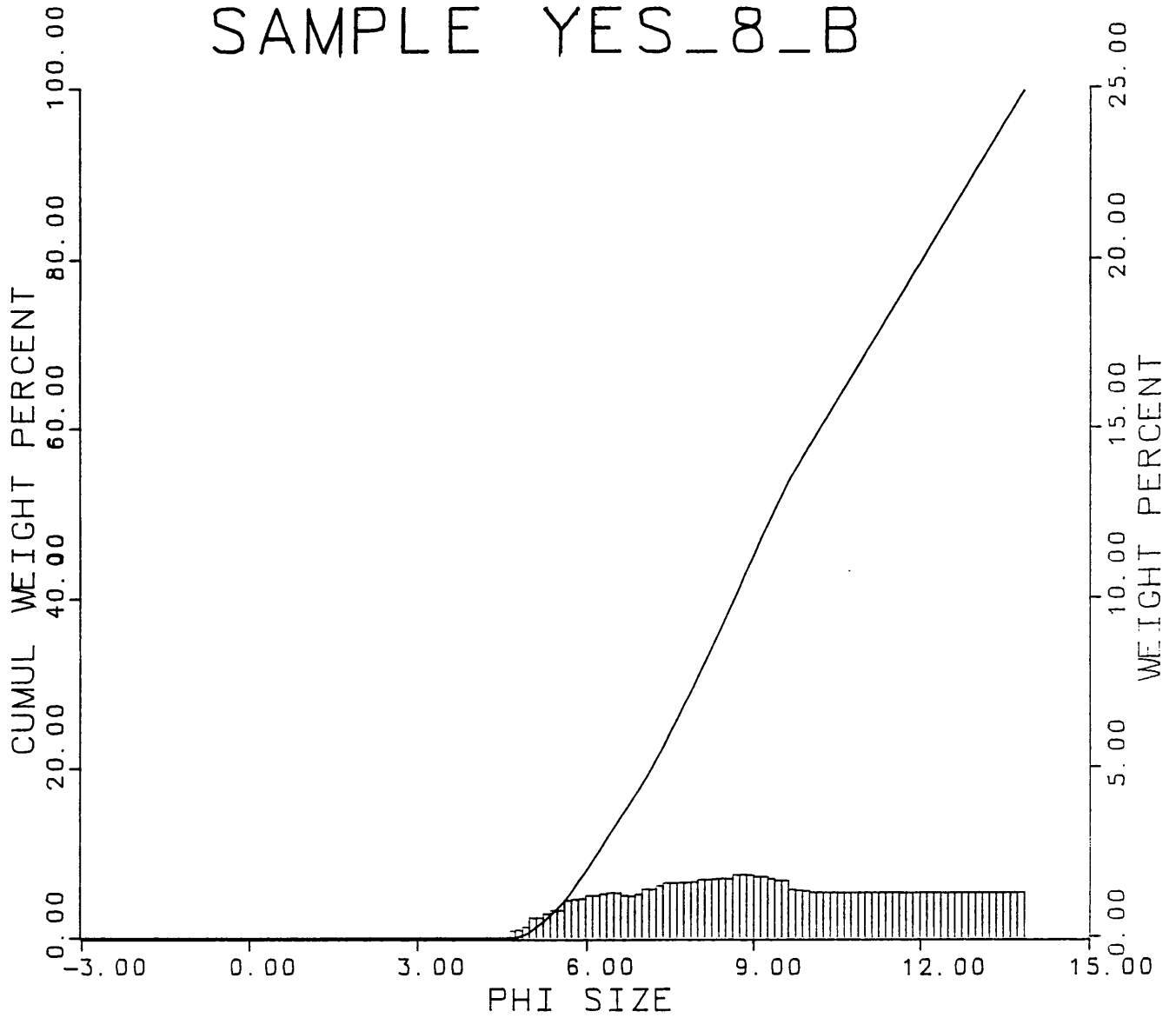
Coulter data

This data corresponds to file YES_8_B.3rd

9.5532	2.4509	0.0454	1.9244	M1	M2	M3	M4 (phi)
9.5606	9.3876	2.5973	0.0737	0.3747	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.6190%	is larger than	4.9700	phi.
2.2051%	is larger than	5.3033	phi.
4.3716%	is larger than	5.6367	phi.
7.3892%	is larger than	5.9700	phi.
10.7162%	is larger than	6.3033	phi.
14.2367%	is larger than	6.6367	phi.
17.5242%	is larger than	6.9700	phi.
21.3347%	is larger than	7.3033	phi.
25.6308%	is larger than	7.6367	phi.
29.9643%	is larger than	7.9700	phi.
34.5219%	is larger than	8.3033	phi.
39.1543%	is larger than	8.6367	phi.
44.0855%	is larger than	8.9700	phi.
48.8673%	is larger than	9.3033	phi.
53.3502%	is larger than	9.6367	phi.
57.0860%	is larger than	9.9700	phi.
60.6622%	is larger than	10.3033	phi.
64.2383%	is larger than	10.6367	phi.
67.8145%	is larger than	10.9700	phi.
71.3907%	is larger than	11.3033	phi.
74.9668%	is larger than	11.6367	phi.
78.5430%	is larger than	11.9700	phi.
82.1192%	is larger than	12.3033	phi.
85.6953%	is larger than	12.6367	phi.
89.2715%	is larger than	12.9700	phi.
92.8477%	is larger than	13.3033	phi.
96.4238%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_8_B



Sample Location
 LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

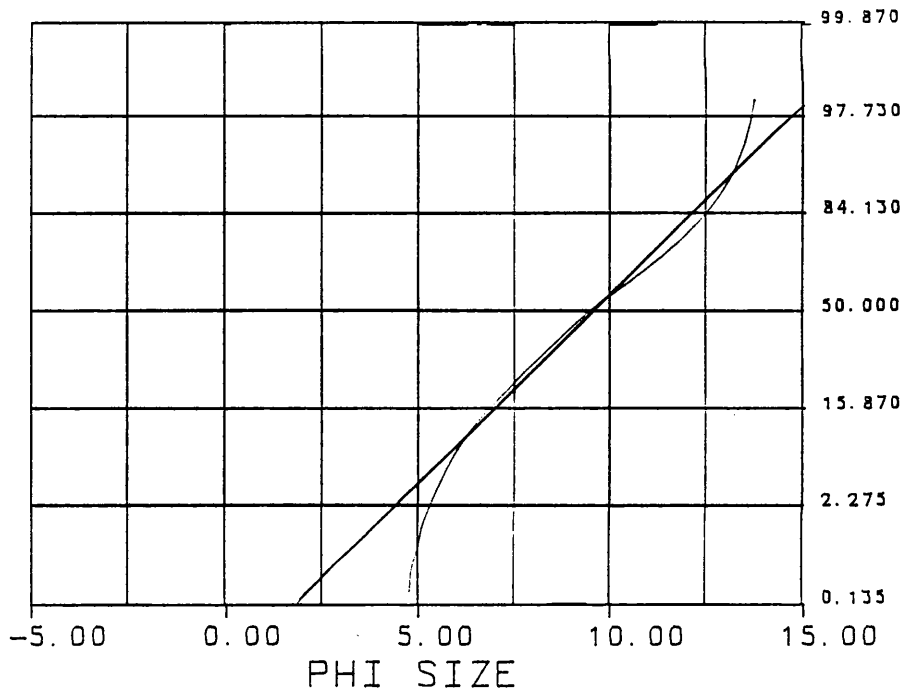
Grass Parameters (%)
 GRAVEL _____ 0.0
 SAND _____ 1.7
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 29.5
 CLAY _____ 68.8

Graphic Measures
 MEDIAN _____ 9.350
 MEAN _____ 9.516
 STD. DEVIATION— 2.569
 INC. SKEWNESS— 0.071
 INC. KURTOSIS— 0.373

Moment Measures
 1st MOMENT _____ 9.508
 2nd MOMENT _____ 2.425
 3rd MOMENT _____ 0.042
 4th MOMENT _____ 1.932

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

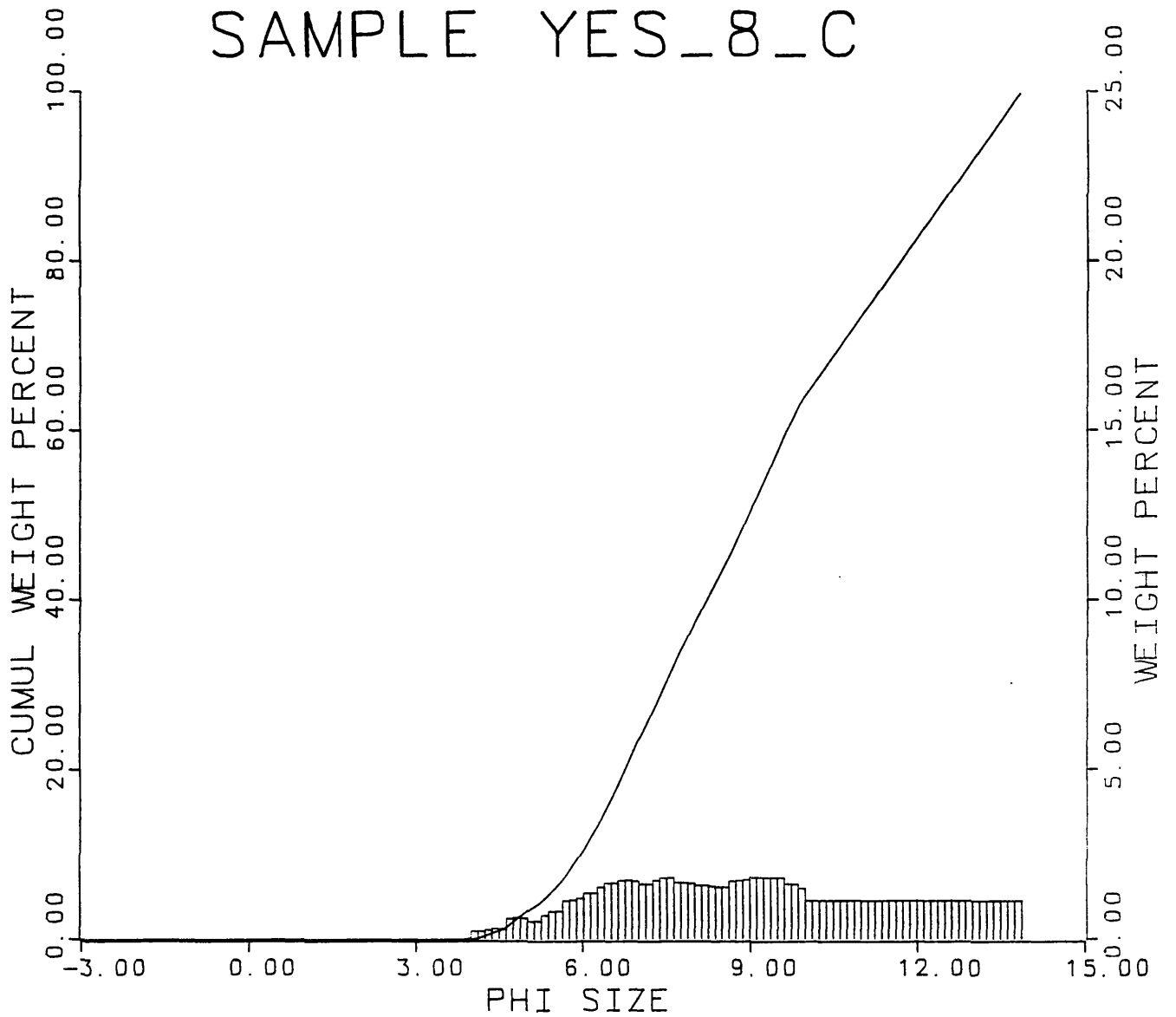
Coulter data

This data corresponds to file YES_8_C.3rd

9.1773	2.5229	0.1372	2.0161	M1	M2	M3	M4 (phi)
9.2357	9.0128	2.6623	0.1040	0.3983			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.6838%	is larger than	4.3033	phi.
1.5500%	is larger than	4.6367	phi.
3.2823%	is larger than	4.9700	phi.
4.7410%	is larger than	5.3033	phi.
6.9748%	is larger than	5.6367	phi.
10.1203%	is larger than	5.9700	phi.
13.7672%	is larger than	6.3033	phi.
18.1892%	is larger than	6.6367	phi.
22.8395%	is larger than	6.9700	phi.
27.1911%	is larger than	7.3033	phi.
32.0121%	is larger than	7.6367	phi.
36.4491%	is larger than	7.9700	phi.
40.6728%	is larger than	8.3033	phi.
44.7685%	is larger than	8.6367	phi.
49.3761%	is larger than	8.9700	phi.
54.2398%	is larger than	9.3033	phi.
59.0607%	is larger than	9.6367	phi.
63.3697%	is larger than	9.9700	phi.
66.4223%	is larger than	10.3033	phi.
69.4748%	is larger than	10.6367	phi.
72.5273%	is larger than	10.9700	phi.
75.5798%	is larger than	11.3033	phi.
78.6324%	is larger than	11.6367	phi.
81.6849%	is larger than	11.9700	phi.
84.7374%	is larger than	12.3033	phi.
87.7899%	is larger than	12.6367	phi.
90.8424%	is larger than	12.9700	phi.
93.8950%	is larger than	13.3033	phi.
96.9475%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_8_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.3
 SAND _____ 11.9
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 11.9
 SILT _____ 35.7
 CLAY _____ 52.1

Graphic Measures

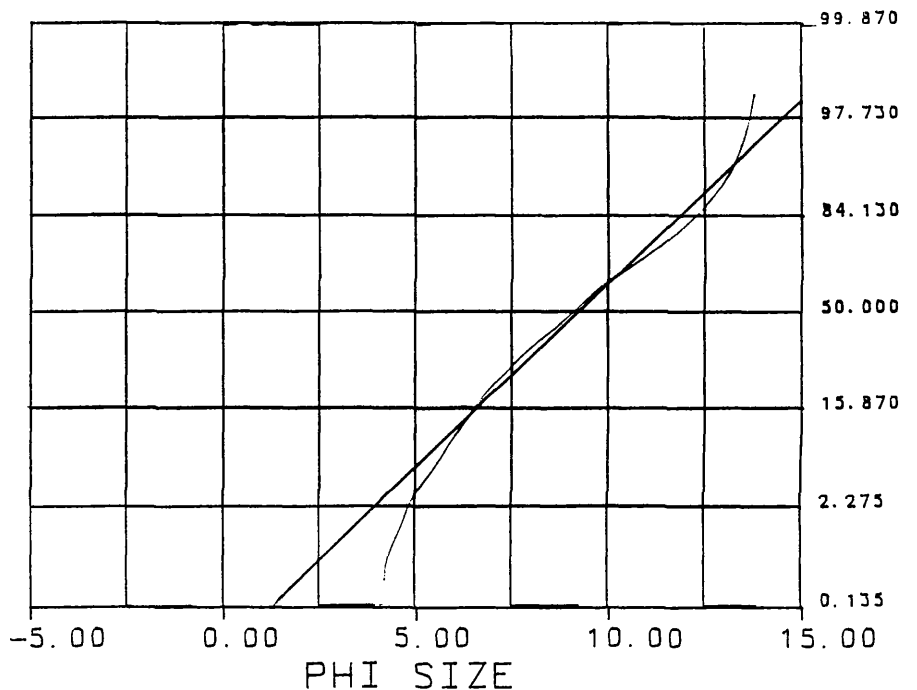
MEDIAN _____ 8.982
 MEAN _____ 9.195
 STD. DEVIATION- 2.633
 INC. SKEWNESS- 0.100
 INC. KURTOSIS- 0.398

Moment Measures

1st MOMENT _____ 9.135
 2nd MOMENT _____ 2.496
 3rd MOMENT _____ 0.132
 4th MOMENT _____ 2.024

DATE: 12-09-92

PROBABILITY CURVE



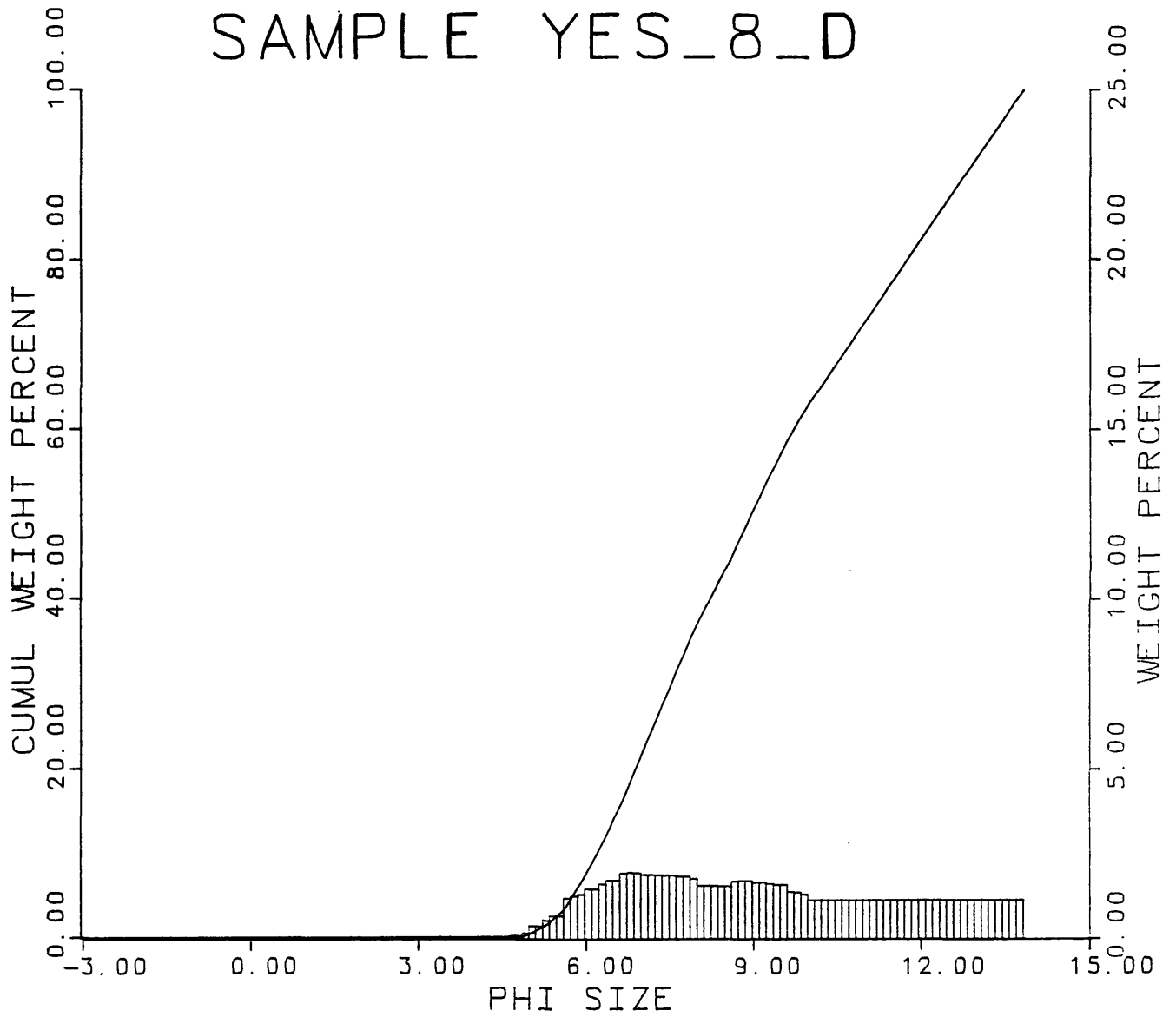
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file YES_8_D.3rd

9.2934	2.4372	0.2332	1.9176	M1	M2	M3	M4 (phi)
9.3204	9.0173	2.5675	0.1587	0.3748			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.4158%	is larger than	4.9700	phi.
1.5245%	is larger than	5.3033	phi.
3.4647%	is larger than	5.6367	phi.
6.9294%	is larger than	5.9700	phi.
10.9485%	is larger than	6.3033	phi.
15.6605%	is larger than	6.6367	phi.
20.9689%	is larger than	6.9700	phi.
26.0974%	is larger than	7.3033	phi.
31.1809%	is larger than	7.6367	phi.
36.1744%	is larger than	7.9700	phi.
40.4481%	is larger than	8.3033	phi.
44.6768%	is larger than	8.6367	phi.
49.3554%	is larger than	8.9700	phi.
53.8991%	is larger than	9.3033	phi.
58.2628%	is larger than	9.6367	phi.
61.9967%	is larger than	9.9700	phi.
65.1636%	is larger than	10.3033	phi.
68.3306%	is larger than	10.6367	phi.
71.4975%	is larger than	10.9700	phi.
74.6644%	is larger than	11.3033	phi.
77.8314%	is larger than	11.6367	phi.
80.9983%	is larger than	11.9700	phi.
84.1653%	is larger than	12.3033	phi.
87.3322%	is larger than	12.6367	phi.
90.4992%	is larger than	12.9700	phi.
93.6661%	is larger than	13.3033	phi.
96.8331%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_8_D



Sample Location
 LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

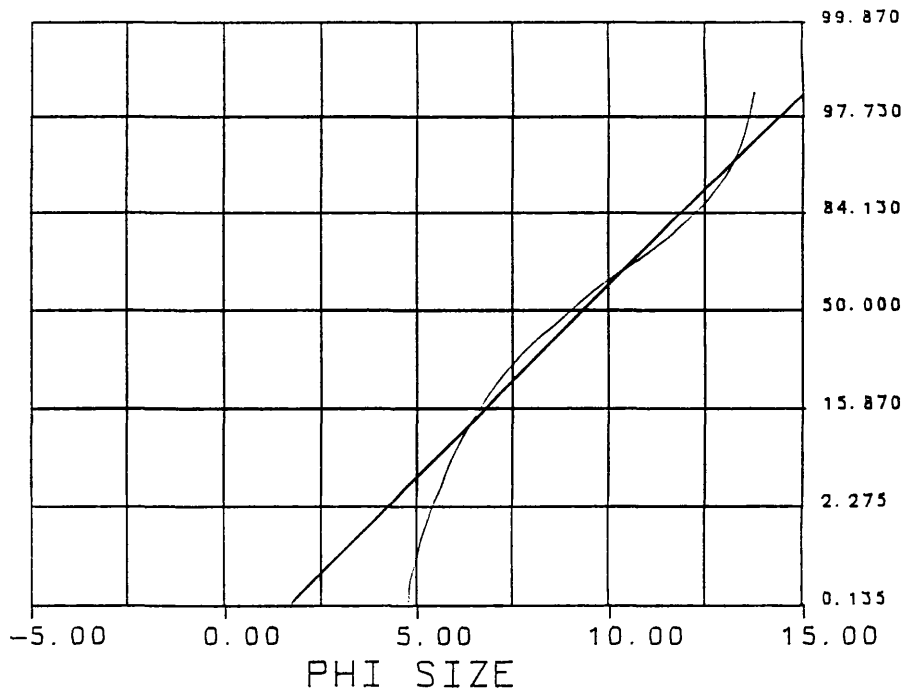
Gross Parameters (%)
 GRAVEL _____ 0.3
 SAND _____ 13.7
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 32.2
 CLAY _____ 51.8

Graphic Measures
 MEDIAN _____ 8.985
 MEAN _____ 9.279
 STD. DEVIATION _____ 2.537
 INC. SKEWNESS _____ 0.157
 INC. KURTOSIS _____ 0.374

Moment Measures
 1st MOMENT _____ 9.251
 2nd MOMENT _____ 2.410
 3rd MOMENT _____ 0.231
 4th MOMENT _____ 1.925

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

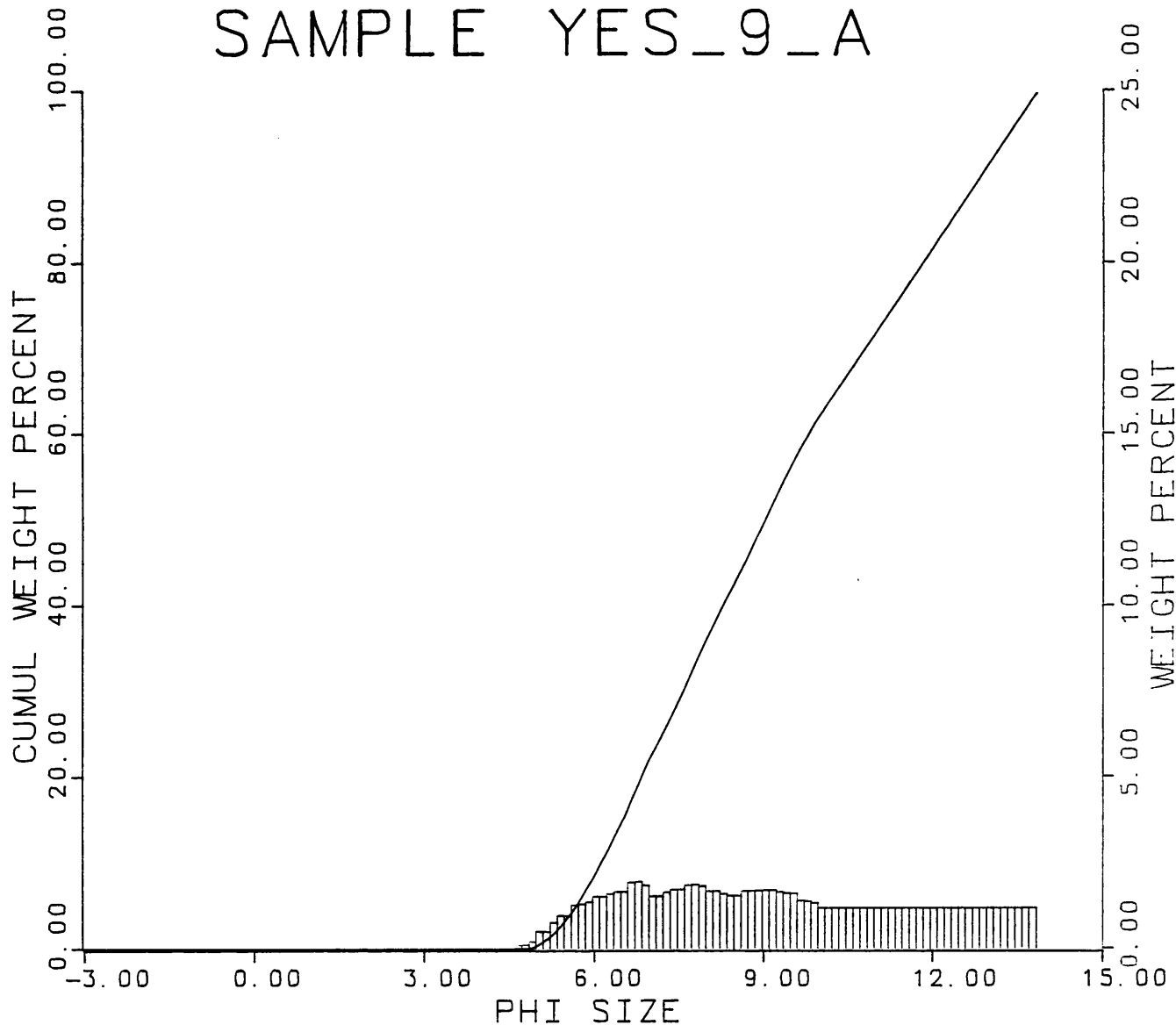
Coulter data

This data corresponds to file YES_9_A.3rd

9.3154	2.4622	0.1916	1.9017	M1	M2	M3	M4 (phi)
9.3346	9.0766	2.6030	0.1324	0.3773			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.3564%	is larger than	4.9700	phi.
1.7375%	is larger than	5.3033	phi.
4.3215%	is larger than	5.6367	phi.
7.8411%	is larger than	5.9700	phi.
11.9399%	is larger than	6.3033	phi.
16.3951%	is larger than	6.6367	phi.
21.5974%	is larger than	6.9700	phi.
25.7206%	is larger than	7.3033	phi.
30.3449%	is larger than	7.6367	phi.
35.3159%	is larger than	7.9700	phi.
39.8245%	is larger than	8.3033	phi.
43.9863%	is larger than	8.6367	phi.
48.5335%	is larger than	8.9700	phi.
53.1192%	is larger than	9.3033	phi.
57.4737%	is larger than	9.6367	phi.
61.2116%	is larger than	9.9700	phi.
64.4439%	is larger than	10.3033	phi.
67.6763%	is larger than	10.6367	phi.
70.9087%	is larger than	10.9700	phi.
74.1410%	is larger than	11.3033	phi.
77.3734%	is larger than	11.6367	phi.
80.6053%	is larger than	11.9700	phi.
83.8382%	is larger than	12.3033	phi.
87.0705%	is larger than	12.6367	phi.
90.3029%	is larger than	12.9700	phi.
93.5353%	is larger than	13.3033	phi.
96.7676%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_9_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 24.5
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 27.9
 CLAY _____ 47.5

Graphic Measures

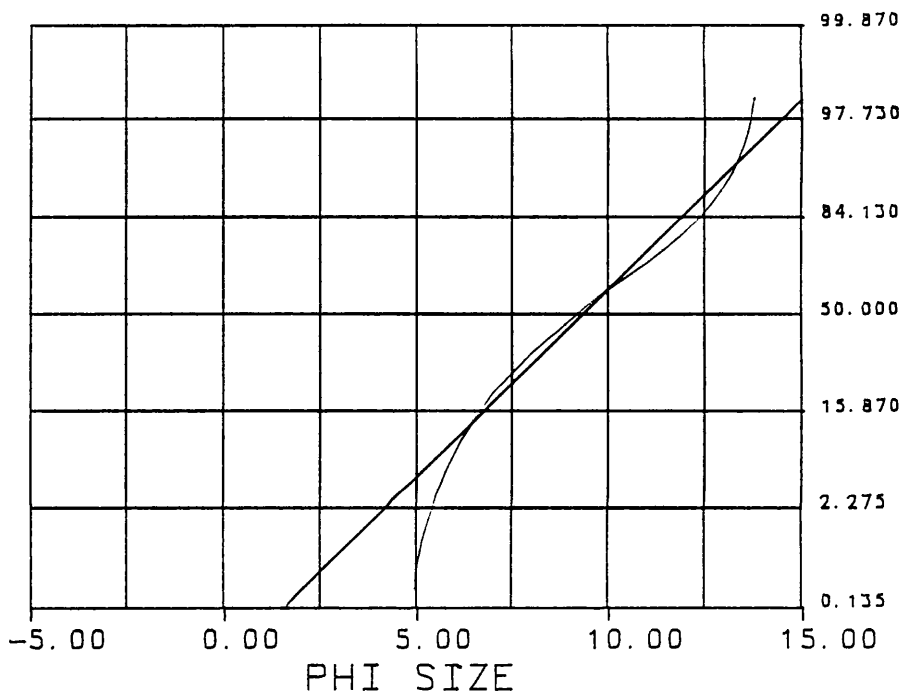
MEDIAN _____ 9.043
 MEAN _____ 9.293
 STD. DEVIATION- 2.573
 INC. SKEWNESS- 0.130
 INC. KURTOSIS- 0.376

Moment Measures

1st MOMENT _____ 9.272
 2nd MOMENT _____ 2.435
 3rd MOMENT _____ 0.189
 4th MOMENT _____ 1.909

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

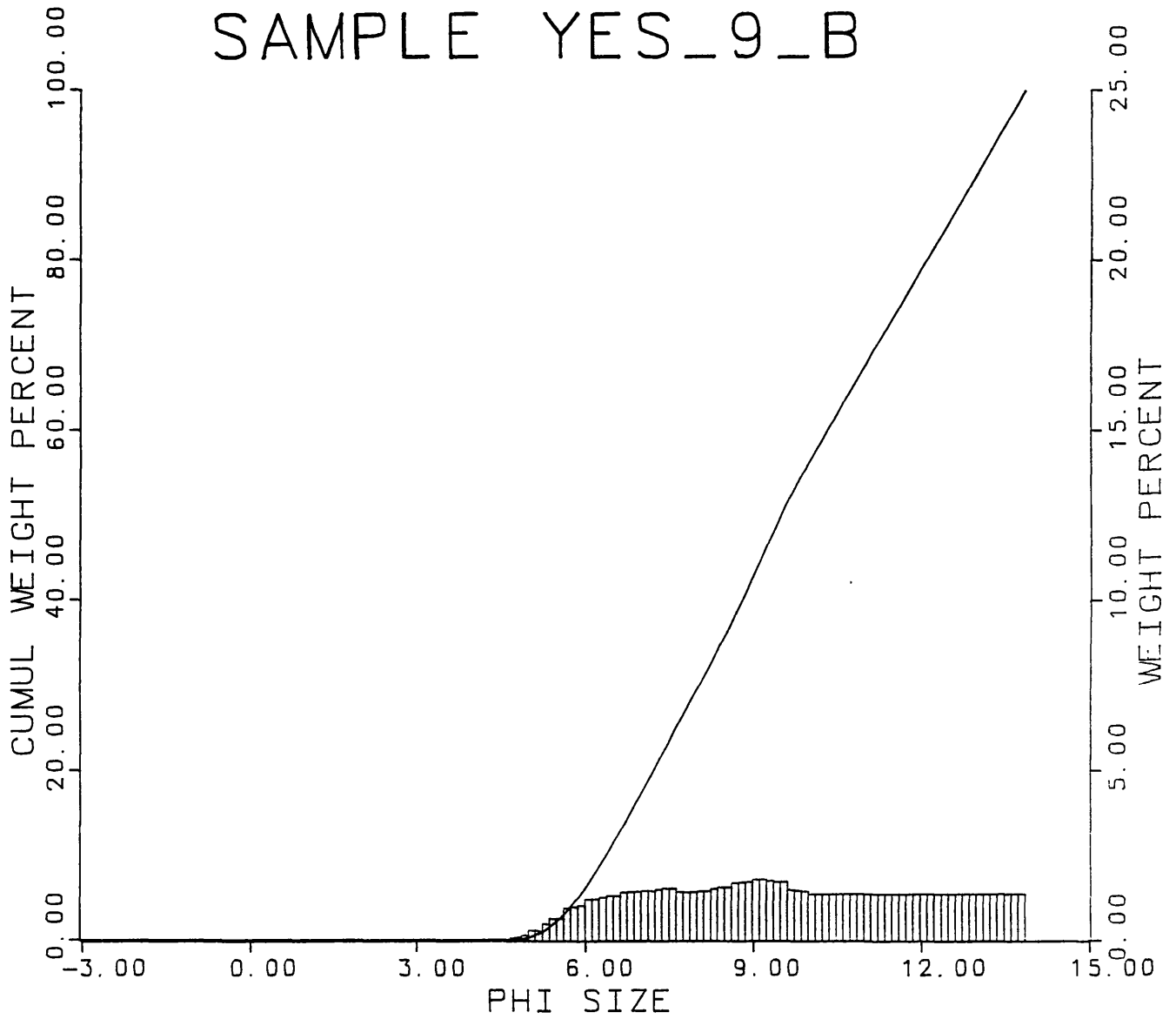
Coulter data

This data corresponds to file YES_9_B.3rd

9.6641	2.4228	0.0197	1.8971	M1	M2	M3	M4 (phi)
9.6669	9.5490	2.5659	0.0510	0.3644	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.3773%	is larger than	4.9700	phi.
1.2452%	is larger than	5.3033	phi.
3.0564%	is larger than	5.6367	phi.
5.7733%	is larger than	5.9700	phi.
9.1316%	is larger than	6.3033	phi.
12.7541%	is larger than	6.6367	phi.
16.6908%	is larger than	6.9700	phi.
20.7019%	is larger than	7.3033	phi.
24.8986%	is larger than	7.6367	phi.
28.7983%	is larger than	7.9700	phi.
32.7722%	is larger than	8.3033	phi.
37.0432%	is larger than	8.6367	phi.
41.6856%	is larger than	8.9700	phi.
46.5509%	is larger than	9.3033	phi.
51.2305%	is larger than	9.6367	phi.
55.2415%	is larger than	9.9700	phi.
58.9714%	is larger than	10.3033	phi.
62.7013%	is larger than	10.6367	phi.
66.4311%	is larger than	10.9700	phi.
70.1610%	is larger than	11.3033	phi.
73.8909%	is larger than	11.6367	phi.
77.6208%	is larger than	11.9700	phi.
81.3506%	is larger than	12.3033	phi.
85.0805%	is larger than	12.6367	phi.
88.8104%	is larger than	12.9700	phi.
92.5403%	is larger than	13.3033	phi.
96.2701%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_9_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 1.8
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 28.4
 CLAY _____ 71.8

Graphic Measures

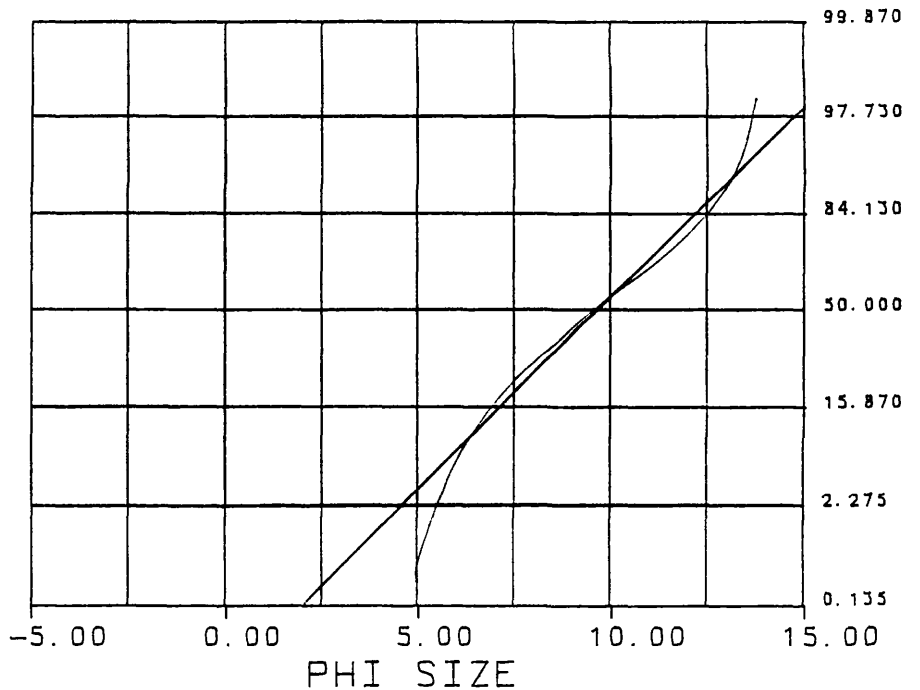
MEDIAN _____ 9.511
 MEAN _____ 9.623
 STD. DEVIATION _____ 2.537
 INC. SKEWNESS _____ 0.049
 INC. KURTOSIS _____ 0.363

Moment Measures

1st MOMENT _____ 9.618
 2nd MOMENT _____ 2.397
 3rd MOMENT _____ 0.017
 4th MOMENT _____ 1.904

DATE: 12-09-92

PROBABILITY CURVE



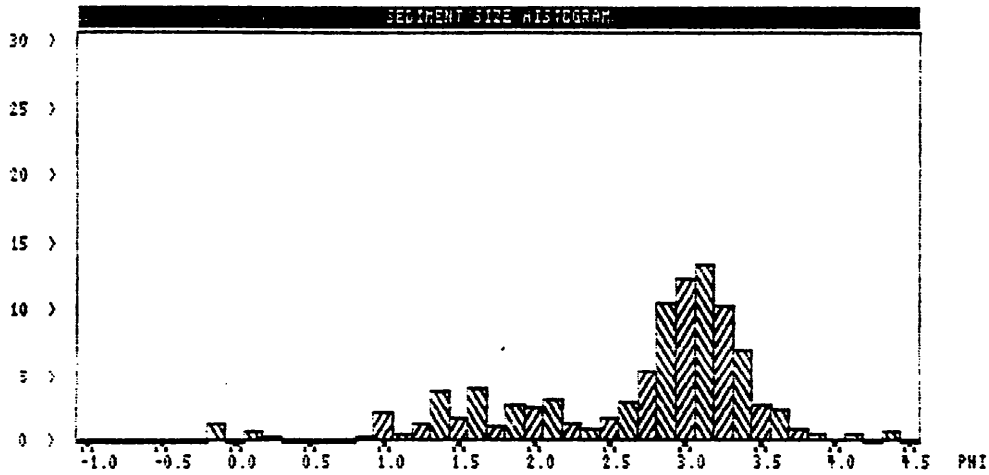
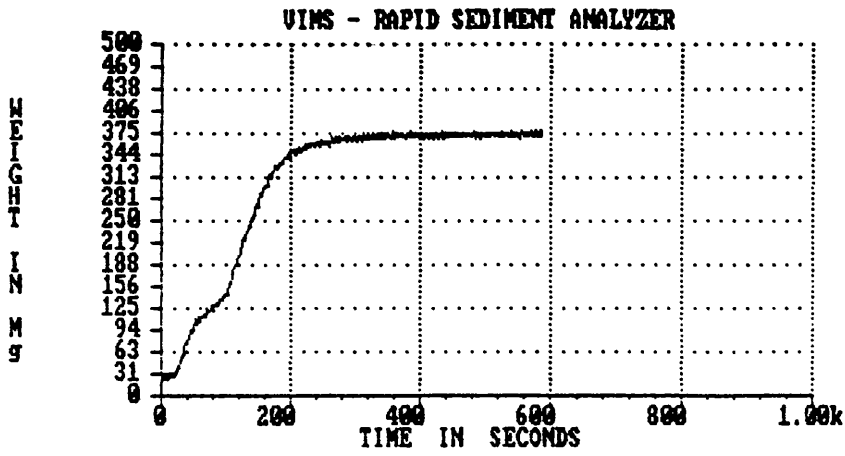
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

YES_9_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
606.8343 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.6032 0.8227 -1.1543 4.1984 M1 M2 M3 M4 (phi)
2.5803 2.8832 0.7803 -0.5234 0.4458 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	0.0000	0.0000	0.0000	0.0000
-0.2500	1.1892	13.6217	0.0000	0.0000	0.0000	0.0000
-0.1250	1.0905	12.6995	4.9624	1.3803	4.9624	1.3803
0.0000	1.0000	11.8208	0.0000	0.0000	4.9624	1.3803
0.1250	0.9170	10.9848	2.6677	0.7420	7.6301	2.1224
0.2500	0.8409	10.1905	0.9911	0.2757	8.6211	2.3980
0.3750	0.7711	9.4370	0.0000	0.0000	8.6211	2.3980
0.5000	0.7071	8.7233	0.0000	0.0000	8.6211	2.3980
0.6250	0.6484	8.0484	0.0000	0.0000	8.6211	2.3980
0.7500	0.5946	7.4111	0.0000	0.0000	8.6211	2.3980
0.8750	0.5453	6.8104	1.1585	0.3223	9.7796	2.7203
1.0000	0.5000	6.2452	7.5005	2.0863	17.2802	4.8066
1.1250	0.4585	5.7143	1.9870	0.5527	19.2672	5.3593
1.2500	0.4204	5.2167	4.9493	1.3767	24.2165	6.7360
1.3750	0.3856	4.7510	13.3835	3.7227	37.6000	10.4587
1.5000	0.3536	4.3163	6.4088	1.7827	44.0088	12.2414
1.6250	0.3242	3.9113	14.2717	3.9698	58.2804	16.2112
1.7500	0.2973	3.5349	4.4563	1.2396	62.7367	17.4507
1.8750	0.2726	3.1860	10.1827	2.8324	72.9194	20.2831
2.0000	0.2500	2.8634	9.4287	2.6227	82.3481	22.9058
2.1250	0.2293	2.5660	11.4733	3.1914	93.8214	26.0972
2.2500	0.2102	2.2927	5.1250	1.4255	98.9464	27.5227
2.3750	0.1929	2.0423	3.2647	0.9081	102.2111	28.4308
2.5000	0.1768	1.8137	6.2592	1.7410	108.4702	30.1718
2.6250	0.1621	1.6058	10.9903	3.0570	119.4605	33.2289
2.7500	0.1487	1.4175	19.7270	5.4872	139.1875	38.7161
2.8750	0.1363	1.2476	37.6588	10.4751	176.8463	49.1912
3.0000	0.1250	1.0949	44.1784	12.2886	221.0246	61.4797
3.1250	0.1146	0.9582	47.4829	13.2077	268.5075	74.6875
3.2500	0.1051	0.8364	36.5898	10.1778	305.0974	84.8652
3.3750	0.0964	0.7282	25.2211	7.0154	330.3185	91.8807
3.5000	0.0884	0.6326	9.9594	2.7703	340.2779	94.6510
3.6250	0.0811	0.5484	8.2387	2.2917	348.5166	96.9426
3.7500	0.0743	0.4744	3.3904	0.9431	351.9070	97.8857
3.8750	0.0682	0.4098	2.1922	0.6098	354.0992	98.4955
4.0000	0.0625	0.3533	0.5474	0.1523	354.6466	98.6477
4.1250	0.0573	0.3043	2.1746	0.6049	356.8212	99.2526
4.2500	0.0526	0.2617	0.0000	0.0000	356.8212	99.2526
4.3750	0.0482	0.2248	2.6868	0.7474	359.5081	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	359.5081	100.0000

* - fall velocity of natural grains in fresh water at 20oC



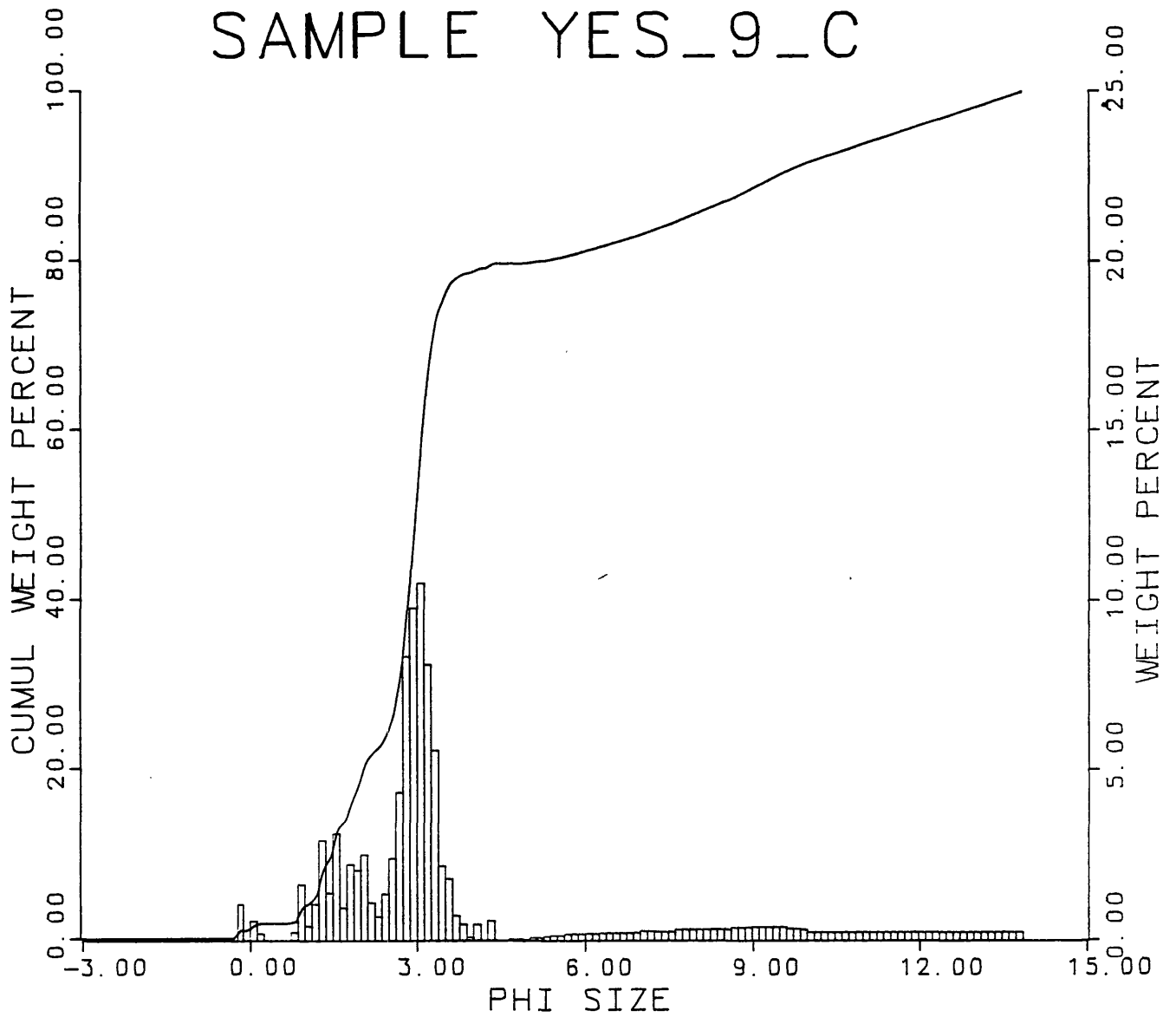
Coulter data

This data corresponds to file YES_9_C.3rd

9.5846 2.3998 0.0423 1.9905 M1 M2 M3 M4 (phi)
9.6070 9.4354 2.5515 0.0703 0.3771 Mz, Md, SI, SKI, KG

0.0000% is larger than 3.9700 phi.
0.0000% is larger than 4.3033 phi.
0.0000% is larger than 4.6367 phi.
0.4409% is larger than 4.9700 phi.
1.9105% is larger than 5.3033 phi.
4.1148% is larger than 5.6367 phi.
6.9071% is larger than 5.9700 phi.
9.8830% is larger than 6.3033 phi.
13.1161% is larger than 6.6367 phi.
16.2988% is larger than 6.9700 phi.
20.2101% is larger than 7.3033 phi.
23.8530% is larger than 7.6367 phi.
28.3395% is larger than 7.9700 phi.
32.7876% is larger than 8.3033 phi.
37.3124% is larger than 8.6367 phi.
42.4508% is larger than 8.9700 phi.
47.8576% is larger than 9.3033 phi.
53.2644% is larger than 9.6367 phi.
57.9810% is larger than 9.9700 phi.
61.4826% is larger than 10.3033 phi.
64.9842% is larger than 10.6367 phi.
68.4857% is larger than 10.9700 phi.
71.9873% is larger than 11.3033 phi.
75.4889% is larger than 11.6367 phi.
78.9905% is larger than 11.9700 phi.
82.4921% is larger than 12.3033 phi.
85.9937% is larger than 12.6367 phi.
89.4952% is larger than 12.9700 phi.
92.9968% is larger than 13.3033 phi.
96.4984% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE YES_9_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 79.7
 V-COARSE SAND - 1.1
 COARSE SAND - 2.8
 MEDIUM SAND - 14.6
 FINE SAND - 31.2
 V-FINE SAND - 30.0
 SILT _____ 6.4
 CLAY _____ 13.9

Graphic Measures

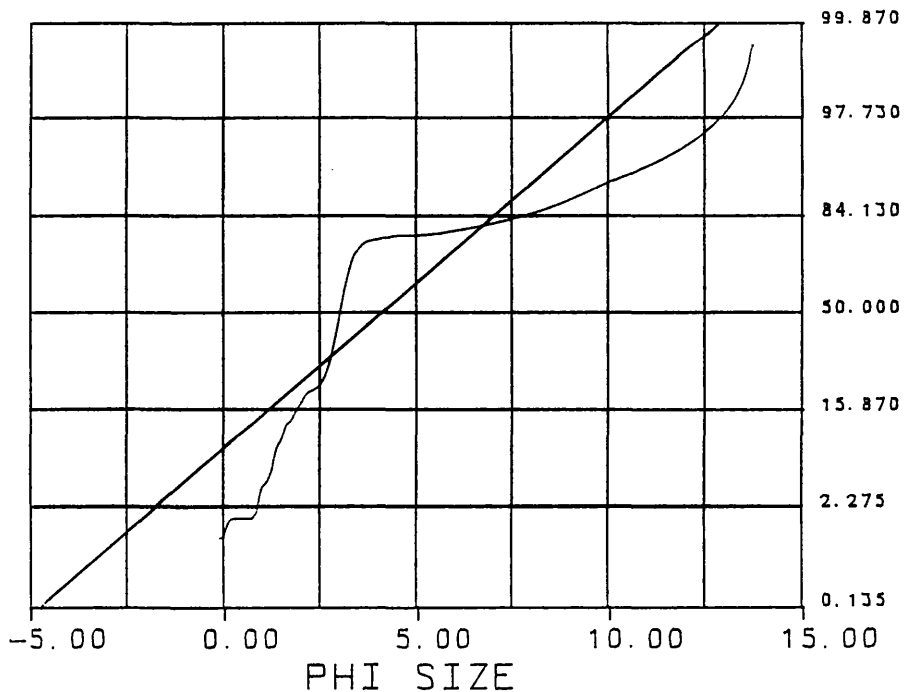
MEDIAN _____ 3.011
 MEAN _____ 4.064
 STD. DEVIATION - 2.928
 INC. SKEWNESS - 0.615
 INC. KURTOSIS - 1.747

Moment Measures

1st MOMENT _____ 4.000
 2nd MOMENT _____ 3.069
 3rd MOMENT _____ 1.670
 4th MOMENT _____ 4.823

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

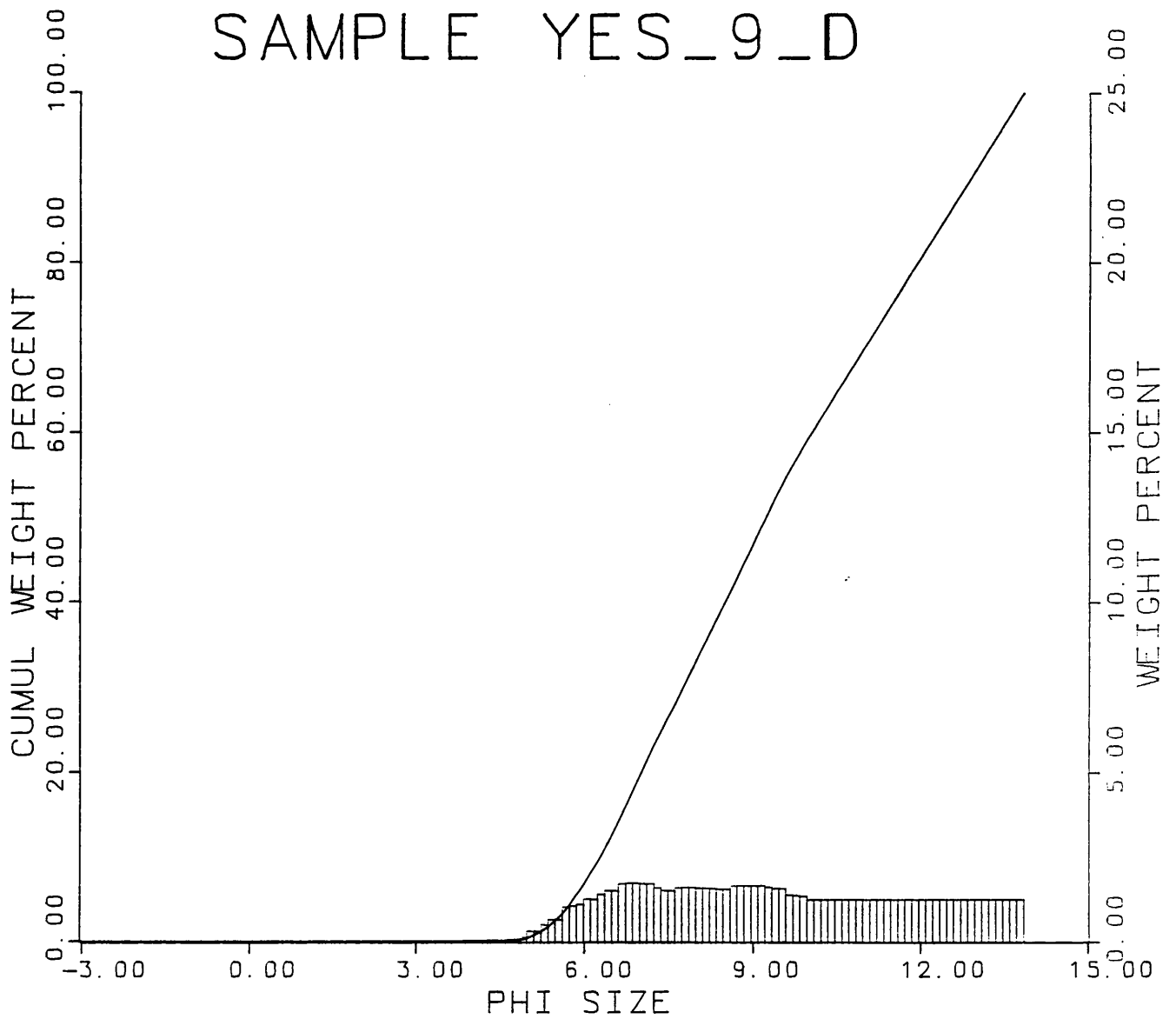
Coulter data

This data corresponds to file YES_9_D.3rd

9.4819	2.4398	0.1293	1.8826	M1	M2	M3	M4 (phi)
9.4987	9.2932	2.5801	0.1012	0.3686			Mz, Md, SI, SKI, KG

0.0838%	is larger than	3.9700	phi.
0.0838%	is larger than	4.3033	phi.
0.0838%	is larger than	4.6367	phi.
0.4609%	is larger than	4.9700	phi.
1.4666%	is larger than	5.3033	phi.
3.3942%	is larger than	5.6367	phi.
6.4112%	is larger than	5.9700	phi.
9.9311%	is larger than	6.3033	phi.
14.1215%	is larger than	6.6367	phi.
18.9094%	is larger than	6.9700	phi.
23.6542%	is larger than	7.3033	phi.
27.8382%	is larger than	7.6367	phi.
32.2810%	is larger than	7.9700	phi.
36.6808%	is larger than	8.3033	phi.
40.9942%	is larger than	8.6367	phi.
45.5664%	is larger than	8.9700	phi.
50.1387%	is larger than	9.3033	phi.
54.4953%	is larger than	9.6367	phi.
58.2911%	is larger than	9.9700	phi.
61.7668%	is larger than	10.3033	phi.
65.2426%	is larger than	10.6367	phi.
68.7183%	is larger than	10.9700	phi.
72.1941%	is larger than	11.3033	phi.
75.6698%	is larger than	11.6367	phi.
79.1455%	is larger than	11.9700	phi.
82.6213%	is larger than	12.3033	phi.
86.0970%	is larger than	12.6367	phi.
89.5728%	is larger than	12.9700	phi.
93.0485%	is larger than	13.3033	phi.
96.5243%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_9_D



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Grass Parameters (%)

GRAVEL ——— 0.2
 SAND ——— 8.7
 V-COARSE SAND — 0.0
 COARSE SAND ——— 0.0
 MEDIUM SAND ——— 0.0
 FINE SAND ——— 0.0
 V-FINE SAND ——— 8.7
 SILT ——— 29.2
 CLAY ——— 61.9

Graphic Measures

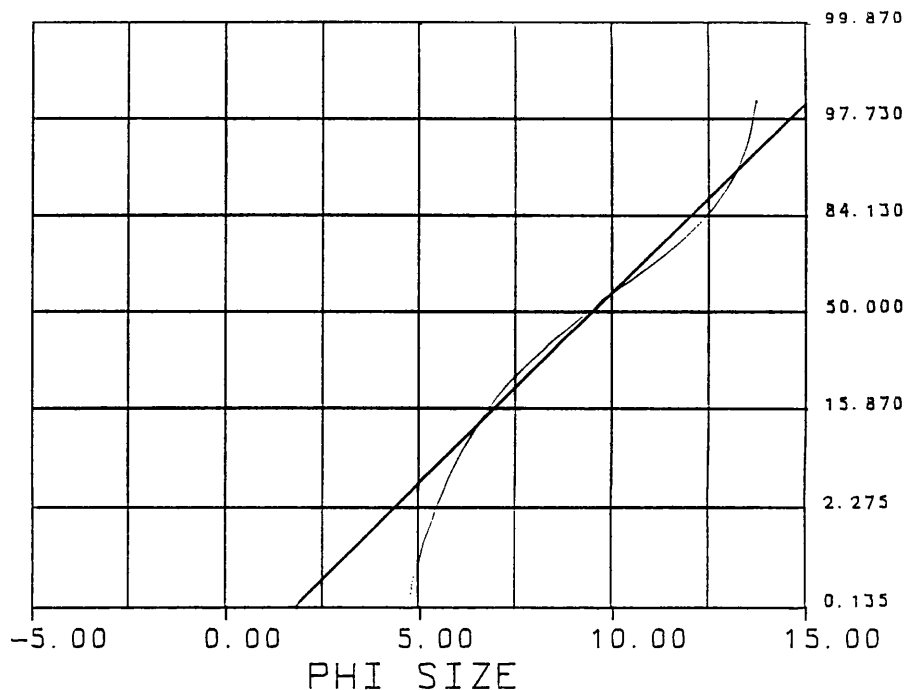
MEDIAN ——— 9.257
 MEAN ——— 9.456
 STD. DEVIATION — 2.550
 INC. SKEWNESS — 0.099
 INC. KURTOSIS — 0.367

Moment Measures

1st MOMENT ——— 9.441
 2nd MOMENT ——— 2.418
 3rd MOMENT ——— 0.112
 4th MOMENT ——— 1.895

DATE: 12-09-92

PROBABILITY CURVE



PREPARED BY: [unclear]
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

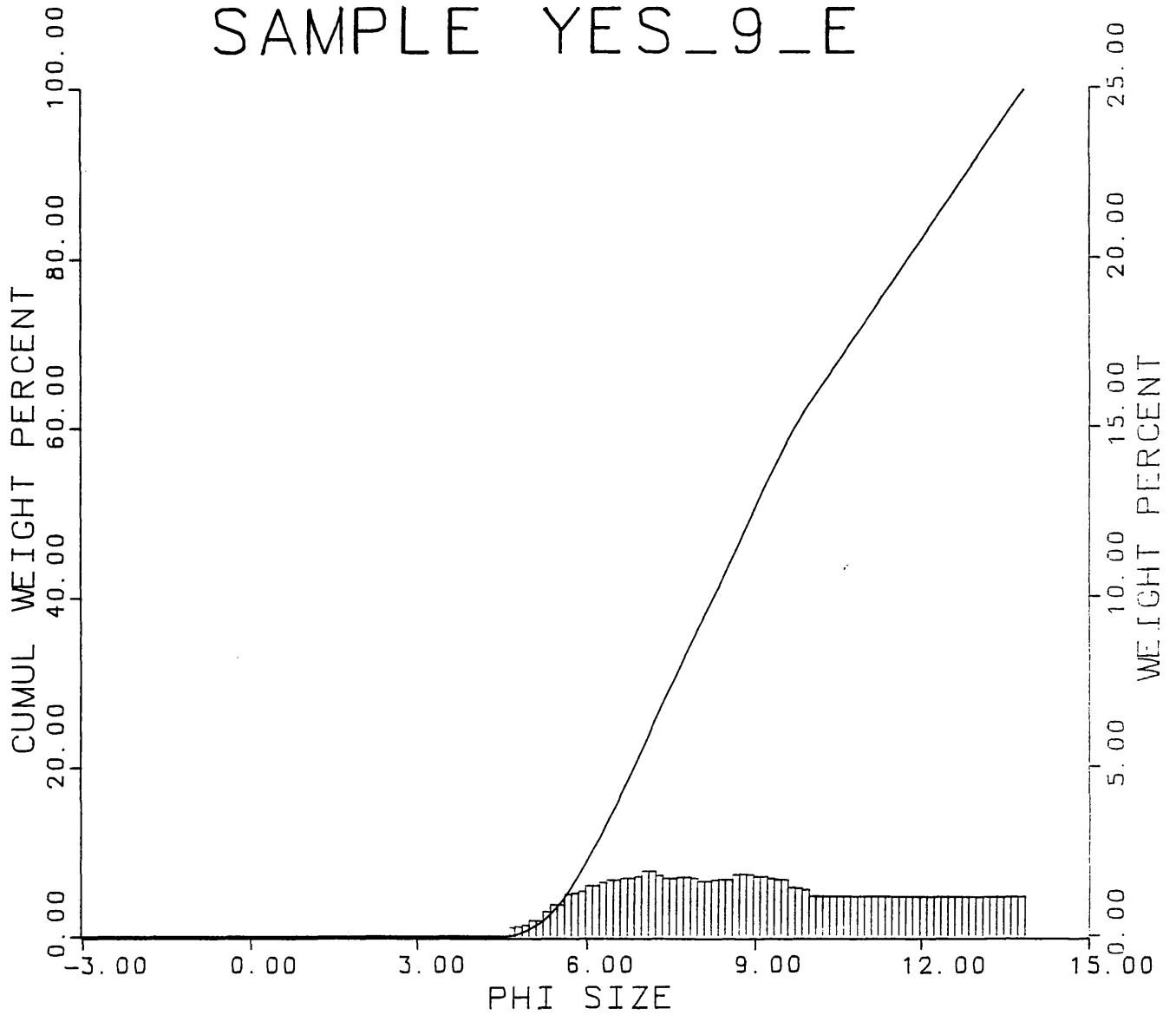
Coulter data

This data corresponds to file YES_9_E.3rd

9.2884	2.4584	0.1968	1.9316	M1	M2	M3	M4 (phi)
9.3100	9.0403	2.5998	0.1379	0.3800			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.7998%	is larger than	4.9700	phi.
2.0883%	is larger than	5.3033	phi.
4.6209%	is larger than	5.6367	phi.
8.0422%	is larger than	5.9700	phi.
12.0411%	is larger than	6.3033	phi.
16.4843%	is larger than	6.6367	phi.
21.0730%	is larger than	6.9700	phi.
26.1613%	is larger than	7.3033	phi.
30.7045%	is larger than	7.6367	phi.
35.3386%	is larger than	7.9700	phi.
39.6546%	is larger than	8.3033	phi.
44.1523%	is larger than	8.6367	phi.
49.0135%	is larger than	8.9700	phi.
53.6930%	is larger than	9.3033	phi.
58.1453%	is larger than	9.6367	phi.
61.9162%	is larger than	9.9700	phi.
65.0898%	is larger than	10.3033	phi.
68.2635%	is larger than	10.6367	phi.
71.4371%	is larger than	10.9700	phi.
74.6108%	is larger than	11.3033	phi.
77.7844%	is larger than	11.6367	phi.
80.9581%	is larger than	11.9700	phi.
84.1317%	is larger than	12.3033	phi.
87.3054%	is larger than	12.6367	phi.
90.4790%	is larger than	12.9700	phi.
93.6527%	is larger than	13.3033	phi.
96.8263%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE YES_9_E



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 15.7
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 32.2
 CLAY _____ 52.1

Graphic Measures

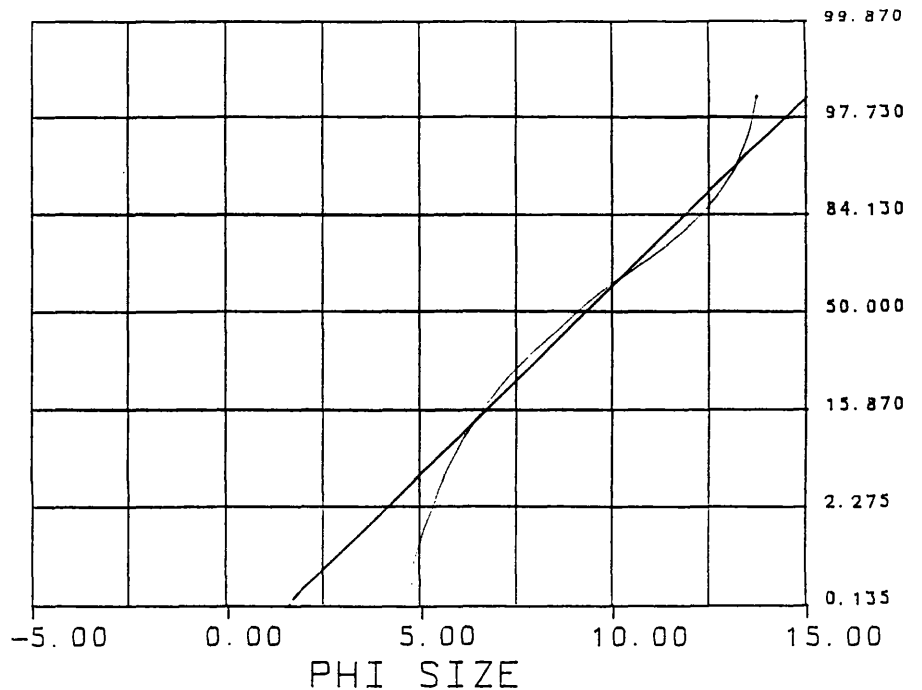
MEDIAN _____ 9.008
 MEAN _____ 9.269
 STD. DEVIATION _____ 2.570
 INC. SKEWNESS _____ 0.135
 INC. KURTOSIS _____ 0.379

Moment Measures

1st MOMENT _____ 9.246
 2nd MOMENT _____ 2.431
 3rd MOMENT _____ 0.194
 4th MOMENT _____ 1.939

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

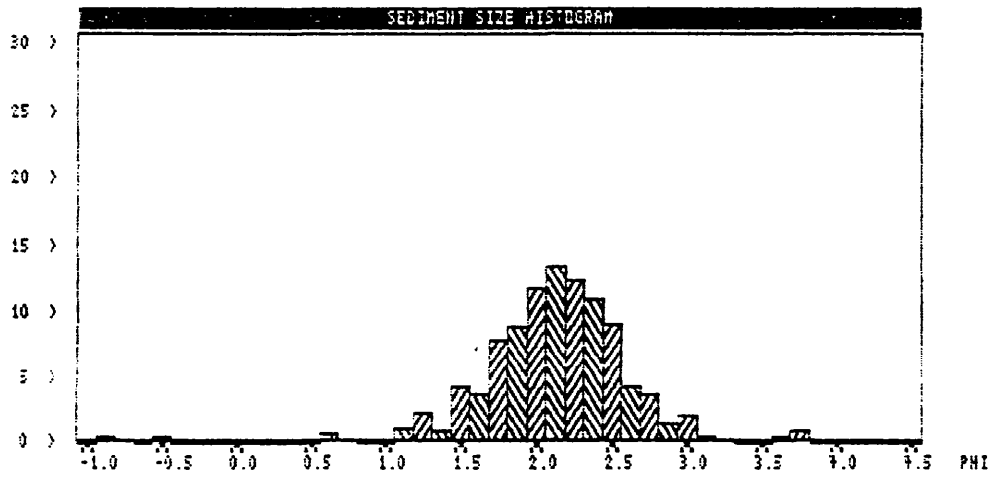
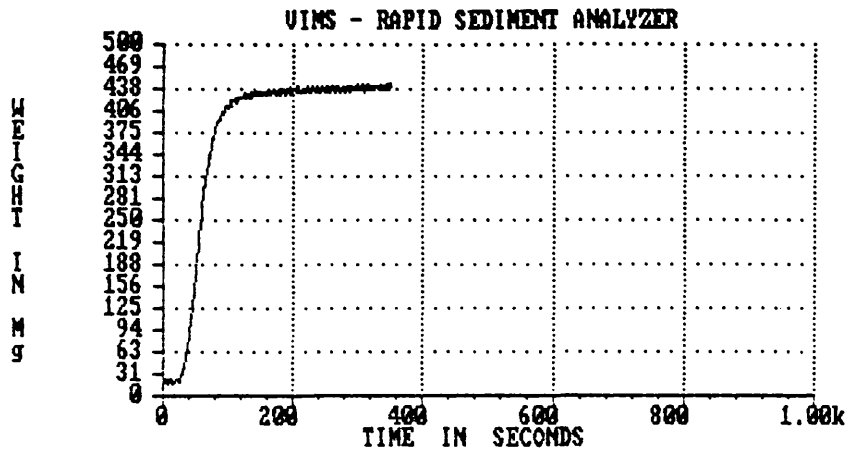
YES_MUM

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
706.7328 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.0526 0.5199 -1.3658 11.0111 M1 M2 M3 M4 (phi)
2.0673 2.0784 0.4170 -0.0540 0.3725 Mz,Md,SI,SKI,KG

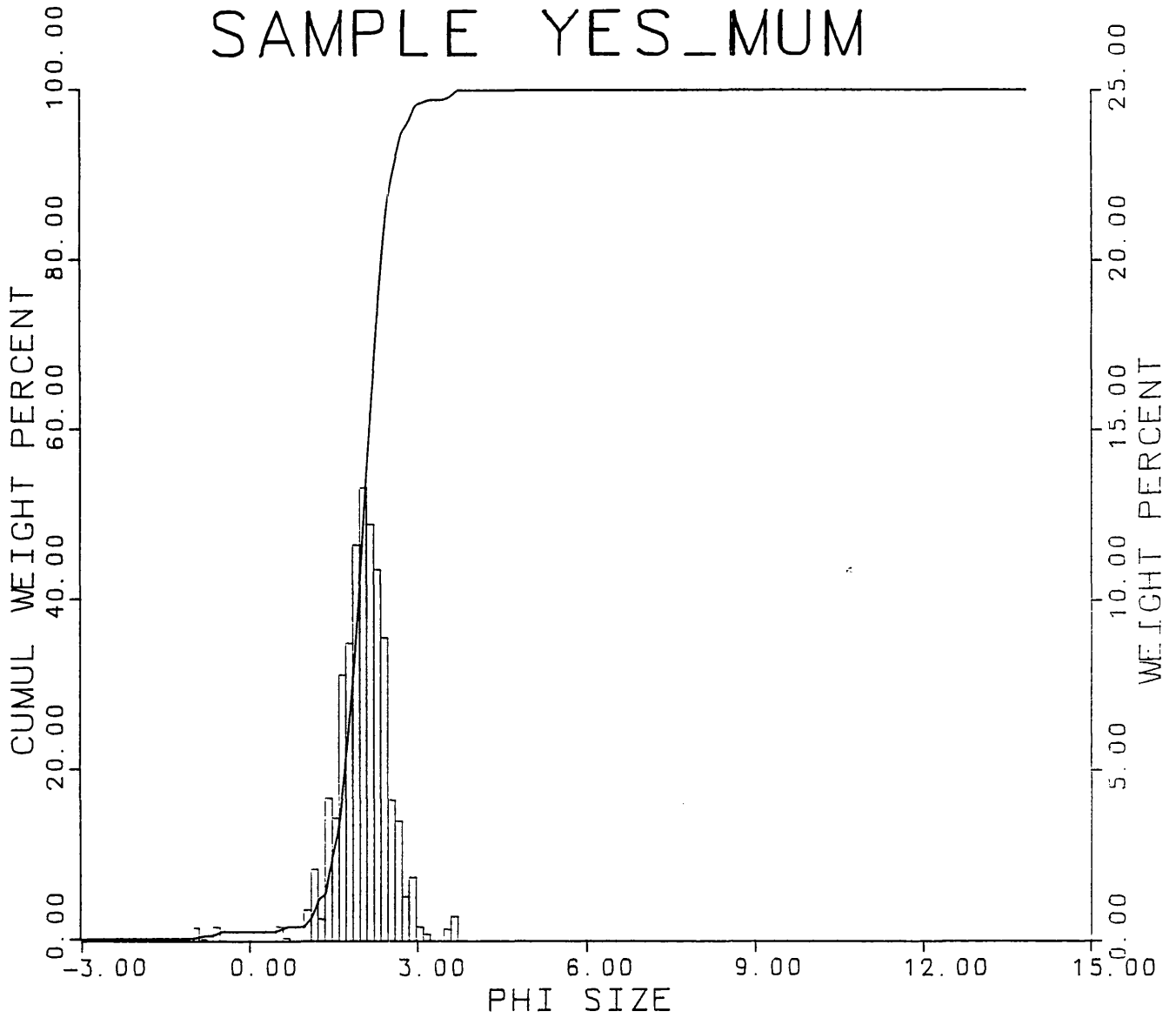
Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.8608	0.4364	1.8608	0.4364
-0.7500	1.6818	17.7631	0.4457	0.1045	2.3065	0.5409
-0.6250	1.5422	16.6582	0.0000	0.0000	2.3065	0.5409
-0.5000	1.4142	15.6003	1.9574	0.4590	4.2639	0.9999
-0.3750	1.2968	14.5884	0.0000	0.0000	4.2639	0.9999
-0.2500	1.1892	13.6217	0.0000	0.0000	4.2639	0.9999
-0.1250	1.0905	12.6995	0.0000	0.0000	4.2639	0.9999
0.0000	1.0000	11.8208	0.0000	0.0000	4.2639	0.9999
0.1250	0.9170	10.9848	0.0000	0.0000	4.2639	0.9999
0.2500	0.8409	10.1905	0.0000	0.0000	4.2639	0.9999
0.3750	0.7711	9.4370	0.0000	0.0000	4.2639	0.9999
0.5000	0.7071	8.7233	0.0000	0.0000	4.2639	0.9999
0.6250	0.6484	8.0484	1.9870	0.4660	6.2509	1.4659
0.7500	0.5946	7.4111	0.5463	0.1281	6.7972	1.5940
0.8750	0.5453	6.8104	0.0000	0.0000	6.7972	1.5940
1.0000	0.5000	6.2452	0.0000	0.0000	6.7972	1.5940
1.1250	0.4585	5.7143	4.0705	0.9545	10.8677	2.5485
1.2500	0.4204	5.2167	9.1860	2.1541	20.0537	4.7026
1.3750	0.3856	4.7510	2.9337	0.6880	22.9874	5.3906
1.5000	0.3536	4.3163	18.0979	4.2440	41.0854	9.6346
1.6250	0.3242	3.9113	15.5892	3.6557	56.6746	13.2903
1.7500	0.2973	3.5349	33.5045	7.8569	90.1791	21.1472
1.8750	0.2726	3.1860	37.4791	8.7889	127.6582	29.9361
2.0000	0.2500	2.8634	49.8051	11.6794	177.4633	41.6156
2.1250	0.2293	2.5660	57.0412	13.3763	234.5045	54.9919
2.2500	0.2102	2.2927	52.4291	12.2948	286.9336	67.2866
2.3750	0.1928	2.0423	46.7052	10.9525	333.6388	78.2391
2.5000	0.1768	1.8137	38.1635	8.9494	371.8024	87.1885
2.6250	0.1621	1.6058	17.8091	4.1763	389.6115	91.3648
2.7500	0.1487	1.4175	15.1855	3.5610	404.7970	94.9259
2.8750	0.1363	1.2476	5.7275	1.3431	410.5245	96.2690
3.0000	0.1250	1.0949	8.1220	1.9046	418.6465	98.1736
3.1250	0.1146	0.9582	1.9255	0.4515	420.5721	98.6251
3.2500	0.1051	0.8364	0.9945	0.2332	421.5665	98.8583
3.3750	0.0964	0.7282	0.0000	0.0000	421.5665	98.8583
3.5000	0.0884	0.6326	0.0000	0.0000	421.5665	98.8583
3.6250	0.0811	0.5484	1.6315	0.3826	423.1980	99.2409
3.7500	0.0743	0.4744	3.2369	0.7591	426.4349	100.0000
3.8750	0.0682	0.4098	0.0000	0.0000	426.4349	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	426.4349	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	426.4349	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	426.4349	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	426.4349	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	426.4349	100.0000

* - fall velocity of natural grains in fresh water at 20oC

YES_MUM



SAMPLE YES_MUM



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 0.0
 SAND ——— 96.6
 V-COARSE SAND — 1.0
 COARSE SAND — 0.6
 MEDIUM SAND — 38.7
 FINE SAND — 54.6
 V-FINE SAND — 1.8
 SILT ——— 0.1
 CLAY ——— 3.3

Graphic Measures

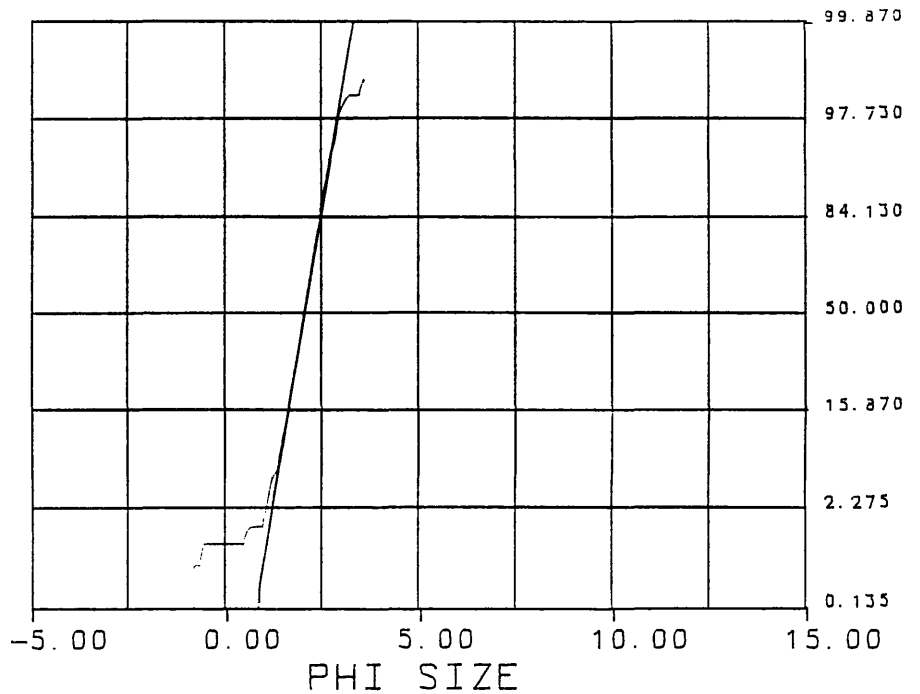
MEDIAN ——— 2.078
 MEAN ——— 2.067
 STD. DEVIATION — 0.417
 INC. SKEWNESS — -0.054
 INC. KURTOSIS — 0.373

Moment Measures

1st MOMENT ——— 2.053
 2nd MOMENT ——— 0.520
 3rd MOMENT ——— -1.366
 4th MOMENT ——— 11.011

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

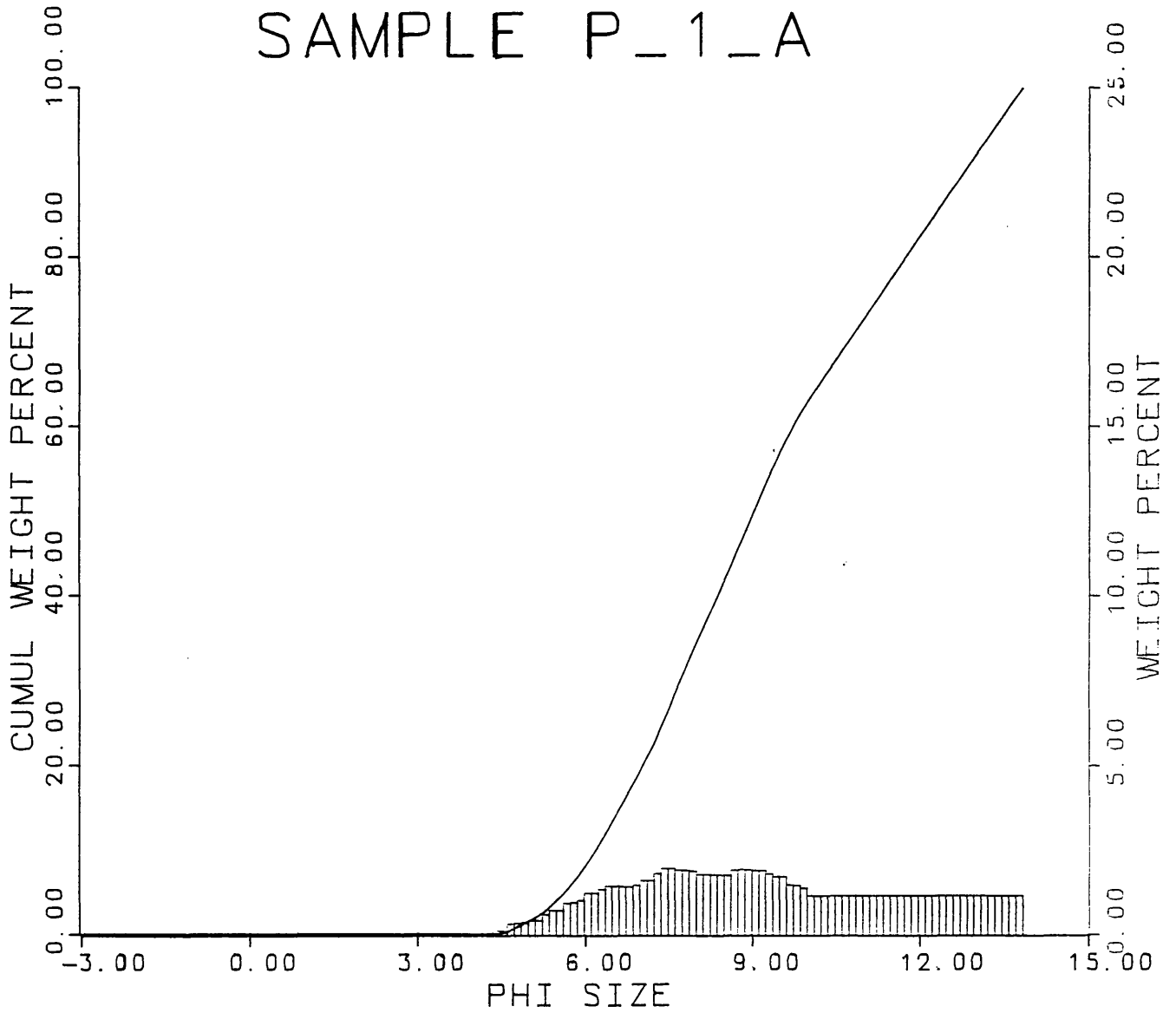
Coulter data

This data corresponds to file P_1_A.3rd

				M1	M2	M3	M4 (phi)	
9.3360	2.4264	0.1650	2.0164					
9.3702	9.0830	2.5651	0.1380	0.3846				Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.4603%	is larger than	4.6367	phi.
1.5065%	is larger than	4.9700	phi.
2.7619%	is larger than	5.3033	phi.
4.8124%	is larger than	5.6367	phi.
7.4488%	is larger than	5.9700	phi.
10.8385%	is larger than	6.3033	phi.
14.7721%	is larger than	6.6367	phi.
18.6555%	is larger than	6.9700	phi.
23.0243%	is larger than	7.3033	phi.
28.3265%	is larger than	7.6367	phi.
33.4795%	is larger than	7.9700	phi.
38.2963%	is larger than	8.3033	phi.
43.0758%	is larger than	8.6367	phi.
48.2661%	is larger than	8.9700	phi.
53.3817%	is larger than	9.3033	phi.
58.0492%	is larger than	9.6367	phi.
62.0072%	is larger than	9.9700	phi.
65.1733%	is larger than	10.3033	phi.
68.3394%	is larger than	10.6367	phi.
71.5054%	is larger than	10.9700	phi.
74.6715%	is larger than	11.3033	phi.
77.8376%	is larger than	11.6367	phi.
81.0036%	is larger than	11.9700	phi.
84.1697%	is larger than	12.3033	phi.
87.3357%	is larger than	12.6367	phi.
90.5018%	is larger than	12.9700	phi.
93.6679%	is larger than	13.3033	phi.
96.8339%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_1_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 16.3
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 32.1
 CLAY _____ 31.6

Graphic Measures

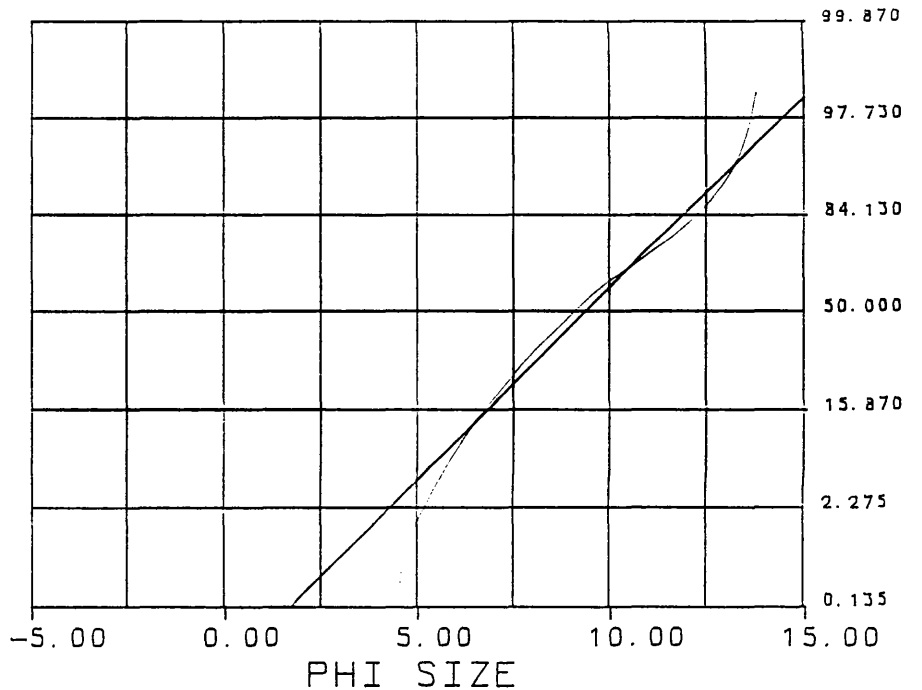
MEDIAN _____ 9.054
 MEAN _____ 9.330
 STD. DEVIATION _____ 2.536
 INC. SKEWNESS _____ 0.134
 INC. KURTOSIS _____ 0.384

Moment Measures

1st MOMENT _____ 9.294
 2nd MOMENT _____ 2.399
 3rd MOMENT _____ 0.160
 4th MOMENT _____ 2.026

DATE: 12-09-92

PROBABILITY CURVE



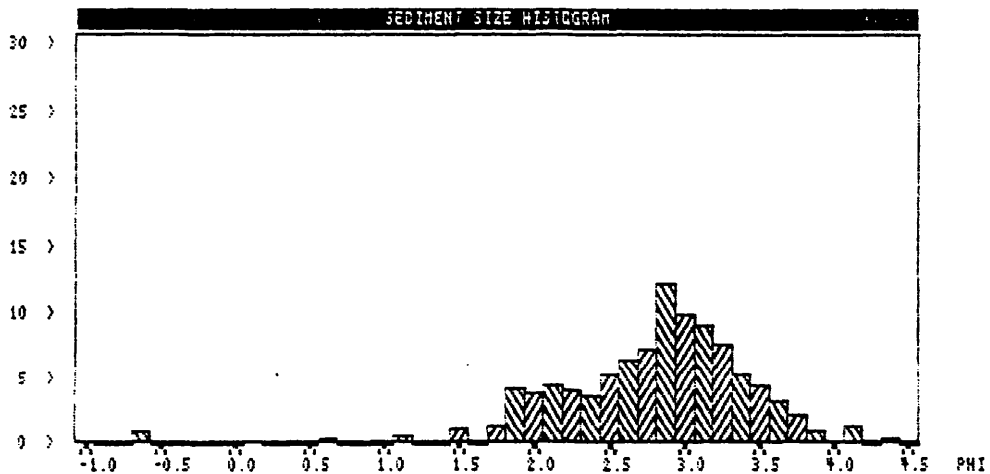
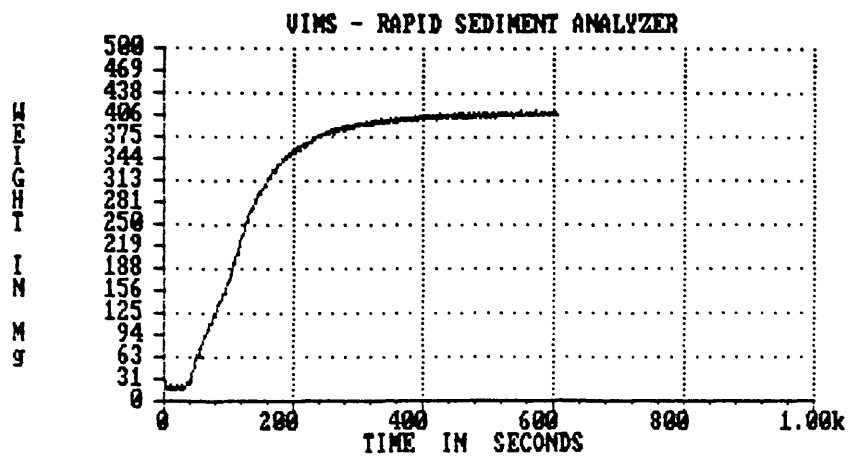
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

P_1_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
653.0619 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.7190 0.6949 -1.5901 9.0586 M1 M2 M3 M4 (phi)
2.7373 2.8167 0.5846 -0.1615 0.3571 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.6956	0.1751	0.6956	0.1751
-0.8750	1.8340	18.9156	0.0000	0.0000	0.6956	0.1751
-0.7500	1.6818	17.7631	0.0000	0.0000	0.6956	0.1751
-0.6250	1.5422	16.6582	3.7435	0.9424	4.4391	1.1176
-0.5000	1.4142	15.6003	0.0000	0.0000	4.4391	1.1176
-0.3750	1.2968	14.5884	0.0000	0.0000	4.4391	1.1176
-0.2500	1.1892	13.6217	0.0000	0.0000	4.4391	1.1176
-0.1250	1.0905	12.6995	0.0000	0.0000	4.4391	1.1176
0.0000	1.0000	11.8208	0.0000	0.0000	4.4391	1.1176
0.1250	0.9170	10.9848	0.7927	0.1996	5.2318	1.3171
0.2500	0.8409	10.1905	0.0000	0.0000	5.2318	1.3171
0.3750	0.7711	9.4370	0.0000	0.0000	5.2318	1.3171
0.5000	0.7071	8.7233	0.0000	0.0000	5.2318	1.3171
0.6250	0.6484	8.0484	1.8126	0.4563	7.0445	1.7735
0.7500	0.5946	7.4111	0.0000	0.0000	7.0445	1.7735
0.8750	0.5453	6.8104	0.0000	0.0000	7.0445	1.7735
1.0000	0.5000	6.2452	0.0000	0.0000	7.0445	1.7735
1.1250	0.4585	5.7143	1.8665	0.4699	8.9110	2.2434
1.2500	0.4204	5.2167	0.0000	0.0000	8.9110	2.2434
1.3750	0.3856	4.7510	0.0000	0.0000	8.9110	2.2434
1.5000	0.3536	4.3163	4.4545	1.1214	13.3654	3.3648
1.6250	0.3242	3.9113	0.0000	0.0000	13.3654	3.3648
1.7500	0.2973	3.5349	5.1839	1.3051	18.5494	4.6699
1.8750	0.2726	3.1860	16.5021	4.1545	35.0514	8.8244
2.0000	0.2500	2.8634	15.0053	3.7777	50.0568	12.6021
2.1250	0.2293	2.5660	17.2317	4.3382	67.2885	16.9402
2.2500	0.2102	2.2927	16.0790	4.0480	83.3675	20.9882
2.3750	0.1928	2.0423	14.6171	3.6799	97.9846	24.6681
2.5000	0.1768	1.8137	20.9590	5.2765	118.9435	29.9447
2.6250	0.1621	1.6058	25.5785	6.4395	144.5221	36.3842
2.7500	0.1487	1.4175	28.5655	7.1915	173.0876	43.5757
2.8750	0.1363	1.2476	47.8395	12.0438	220.9271	55.6196
3.0000	0.1250	1.0949	38.8860	9.7897	259.8131	65.4093
3.1250	0.1146	0.9582	36.0734	9.0817	295.8865	74.4910
3.2500	0.1051	0.8364	30.0093	7.5550	325.8958	82.0460
3.3750	0.0964	0.7282	20.4820	5.1564	346.3778	87.2025
3.5000	0.0884	0.6326	17.3340	4.3639	363.7117	91.5664
3.6250	0.0811	0.5484	12.6836	3.1932	376.3954	94.7596
3.7500	0.0743	0.4744	8.3496	2.1021	384.7450	96.8616
3.8750	0.0682	0.4098	4.1799	1.0523	388.9248	97.9139
4.0000	0.0625	0.3533	0.8461	0.2130	389.7709	98.1269
4.1250	0.0573	0.3043	5.8353	1.4691	395.6062	99.5960
4.2500	0.0526	0.2617	0.0000	0.0000	395.6062	99.5960
4.3750	0.0482	0.2248	1.6049	0.4040	397.2110	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	397.2110	100.0000

* - fall velocity of natural grains in fresh water at 20oC

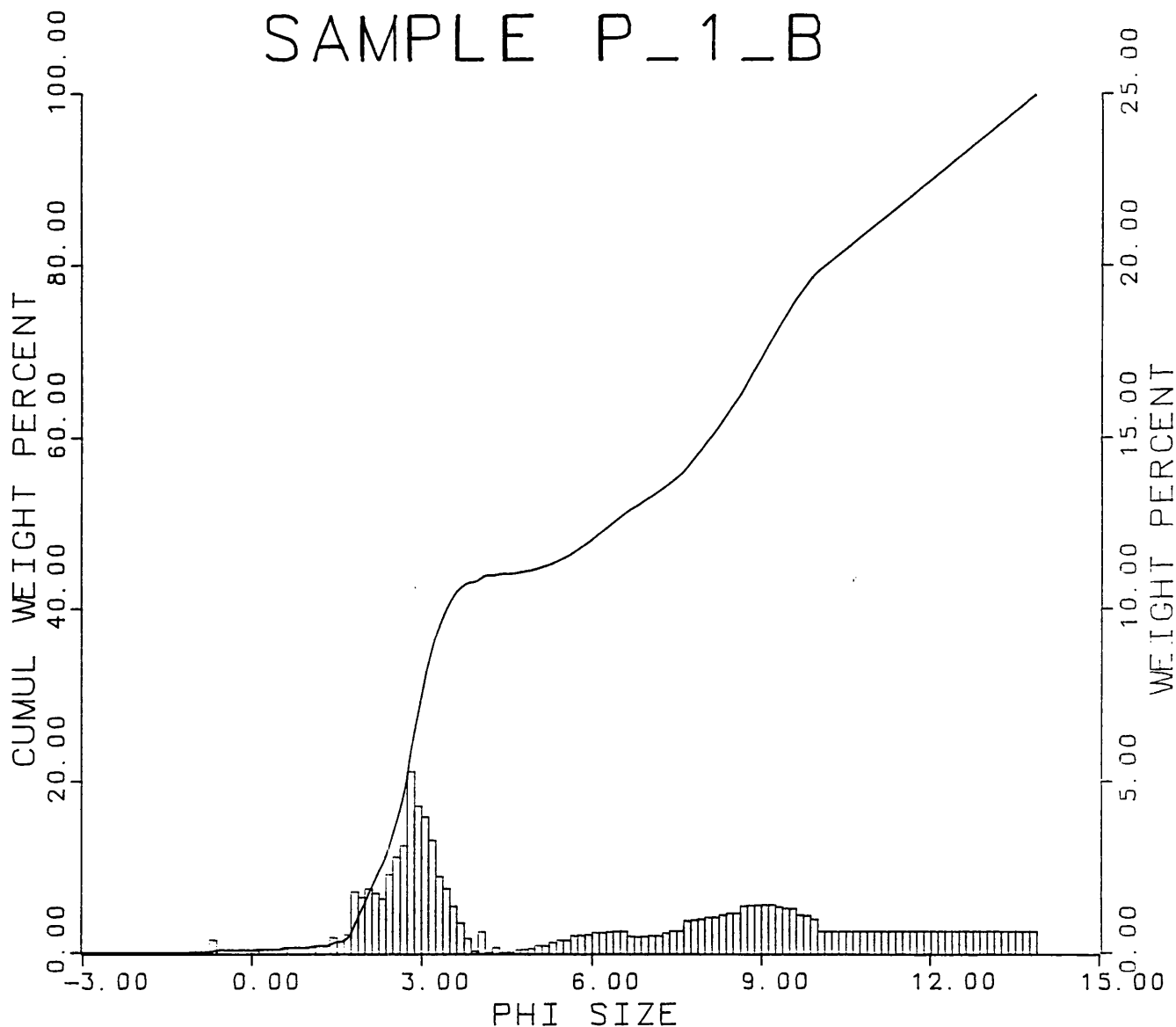


Coulter data
This data corresponds to file P_1_B.3rd

9.5096	2.3135	0.0939	2.1823	M1	M2	M3	M4 (phi)
9.5438	9.2861	2.4692	0.1155	0.3887			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0909%	is larger than	4.3033	phi.
0.1819%	is larger than	4.6367	phi.
0.8487%	is larger than	4.9700	phi.
2.0308%	is larger than	5.3033	phi.
3.9708%	is larger than	5.6367	phi.
6.6381%	is larger than	5.9700	phi.
9.6692%	is larger than	6.3033	phi.
12.8822%	is larger than	6.6367	phi.
15.2932%	is larger than	6.9700	phi.
17.8800%	is larger than	7.3033	phi.
21.1199%	is larger than	7.6367	phi.
25.9168%	is larger than	7.9700	phi.
31.0653%	is larger than	8.3033	phi.
36.7663%	is larger than	8.6367	phi.
43.5222%	is larger than	8.9700	phi.
50.3534%	is larger than	9.3033	phi.
56.6823%	is larger than	9.6367	phi.
62.0318%	is larger than	9.9700	phi.
65.1958%	is larger than	10.3033	phi.
68.3598%	is larger than	10.6367	phi.
71.5238%	is larger than	10.9700	phi.
74.6879%	is larger than	11.3033	phi.
77.8519%	is larger than	11.6367	phi.
81.0159%	is larger than	11.9700	phi.
84.1799%	is larger than	12.3033	phi.
87.3439%	is larger than	12.6367	phi.
90.5079%	is larger than	12.9700	phi.
93.6720%	is larger than	13.3033	phi.
96.8360%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_1_B



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Grass Parameters (%)

GRAVEL ——— 0.0
 SAND ——— 44.0
 V-COARSE SAND — 0.4
 COARSE SAND — 0.3
 MEDIUM SAND — 4.9
 FINE SAND — 23.7
 V-FINE SAND — 14.7
 SILT ——— 21.3
 CLAY ——— 34.5

Graphic Measures

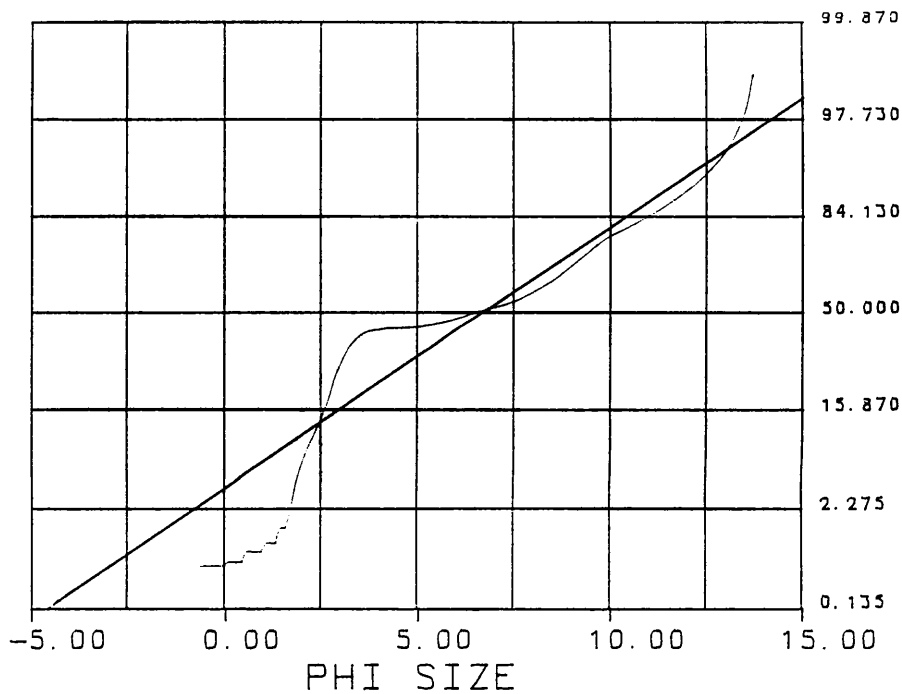
MEDIAN ——— 6.365
 MEAN ——— 6.622
 STD. DEVIATION — 3.729
 INC. SKEWNESS — 0.145
 INC. KURTOSIS — 0.539

Moment Measures

1st MOMENT ——— 6.484
 2nd MOMENT ——— 3.791
 3rd MOMENT ——— 0.281
 4th MOMENT ——— 1.705

DATE: 12-09-92

PROBABILITY CURVE



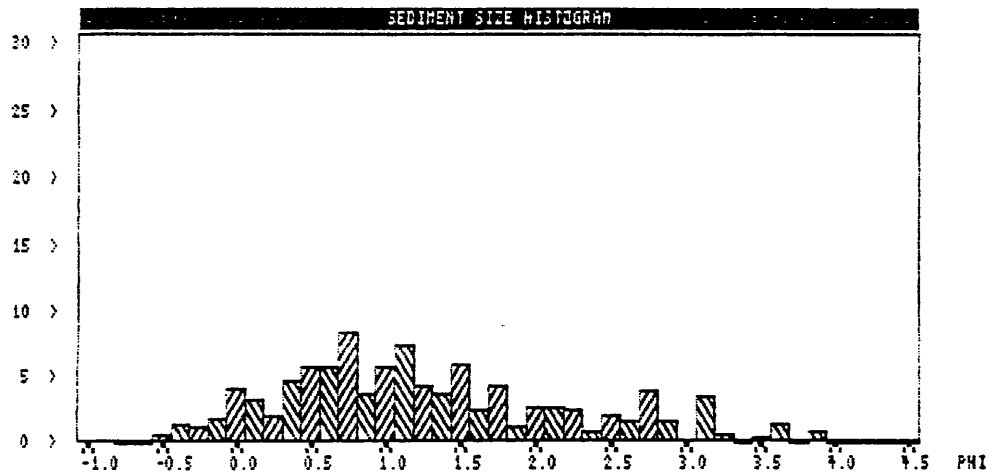
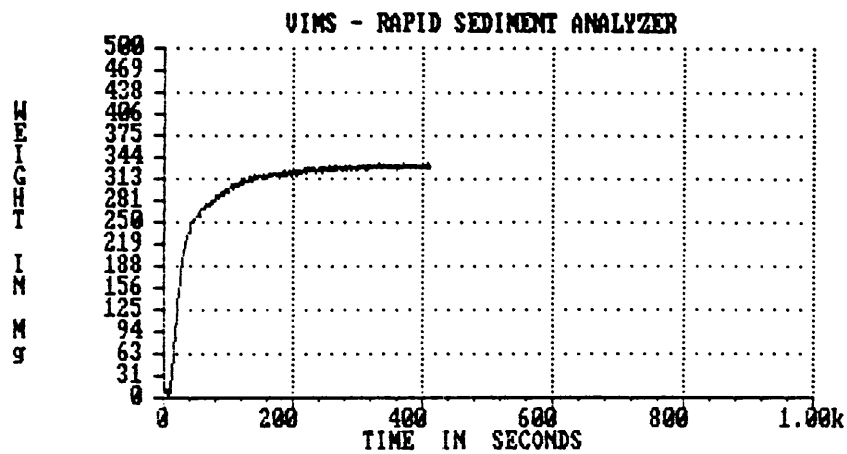
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

P_1_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
526.5238 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.1937 0.9724 0.5469 2.7402 M1 M2 M3 M4 (phi)
1.1981 1.0373 0.9812 0.2501 0.8551 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.7977	0.2485	0.7977	0.2485
-0.8750	1.8340	18.9156	0.6771	0.2109	1.4749	0.4594
-0.7500	1.6818	17.7631	0.0000	0.0000	1.4749	0.4594
-0.6250	1.5422	16.6582	0.0000	0.0000	1.4749	0.4594
-0.5000	1.4142	15.6003	1.8899	0.5887	3.3648	1.0480
-0.3750	1.2968	14.5884	4.6230	1.4400	7.9878	2.4880
-0.2500	1.1892	13.6217	3.6394	1.1336	11.6272	3.6216
-0.1250	1.0905	12.6995	5.6048	1.7458	17.2320	5.3673
0.0000	1.0000	11.8208	13.0764	4.0730	30.3084	9.4403
0.1250	0.9170	10.9848	10.3250	3.2160	40.6334	12.6563
0.2500	0.8409	10.1905	6.4581	2.0115	47.0916	14.6678
0.3750	0.7711	9.4370	14.8874	4.6370	61.9789	19.3049
0.5000	0.7071	8.7233	17.9506	5.5911	79.9295	24.8960
0.6250	0.6484	8.0484	18.1907	5.6659	98.1202	30.5619
0.7500	0.5946	7.4111	26.3938	8.2210	124.5139	38.7829
0.8750	0.5453	6.8104	11.2408	3.5012	135.7547	42.2841
1.0000	0.5000	6.2452	17.8351	5.5552	153.5899	47.8393
1.1250	0.4585	5.7143	23.2372	7.2378	176.8270	55.0771
1.2500	0.4204	5.2167	13.7307	4.2768	190.5578	59.3539
1.3750	0.3856	4.7510	11.8217	3.6822	202.3795	63.0361
1.5000	0.3536	4.3163	18.6303	5.8028	221.0098	68.8389
1.6250	0.3242	3.9113	7.4458	2.3192	228.4555	71.1581
1.7500	0.2973	3.5349	13.4477	4.1886	241.9032	75.3467
1.8750	0.2726	3.1860	3.5954	1.1199	245.4986	76.4666
2.0000	0.2500	2.8634	7.9857	2.4873	253.4843	78.9539
2.1250	0.2293	2.5660	8.2286	2.5630	261.7129	81.5169
2.2500	0.2102	2.2927	7.5983	2.3667	269.3111	83.8836
2.3750	0.1928	2.0423	2.2189	0.6911	271.5300	84.5747
2.5000	0.1768	1.8137	6.0455	1.8830	277.5755	86.4577
2.6250	0.1621	1.6058	5.2704	1.6416	282.8459	88.0993
2.7500	0.1487	1.4175	12.0489	3.7529	294.8948	91.8522
2.8750	0.1363	1.2476	5.0717	1.5797	299.9665	93.4319
3.0000	0.1250	1.0949	0.7534	0.2347	300.7199	93.6666
3.1250	0.1146	0.9582	10.9171	3.4004	311.6369	97.0670
3.2500	0.1051	0.8364	1.6909	0.5267	313.3278	97.5936
3.3750	0.0964	0.7282	0.0000	0.0000	313.3278	97.5936
3.5000	0.0884	0.6326	1.2519	0.3899	314.5797	97.9836
3.6250	0.0811	0.5484	4.1223	1.2840	318.7020	99.2676
3.7500	0.0743	0.4744	0.0000	0.0000	318.7020	99.2676
3.8750	0.0682	0.4098	2.3515	0.7324	321.0535	100.0000
4.0000	0.0625	0.3533	0.0000	0.0000	321.0535	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	321.0535	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	321.0535	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	321.0535	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	321.0535	100.0000

* - fall velocity of natural grains in fresh water at 20oC



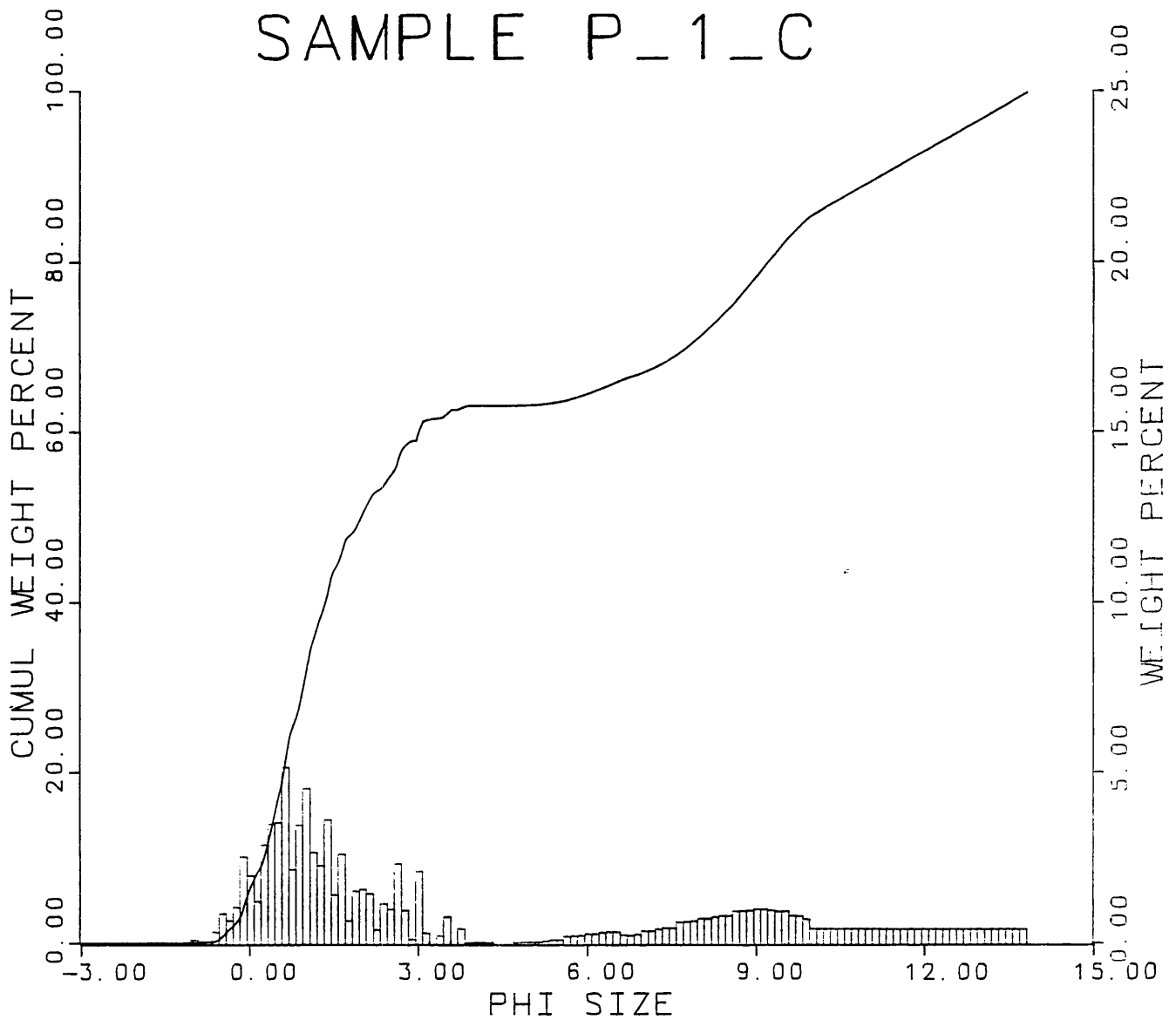
Coulter data

This data corresponds to file P_1_C.3rd

9.7401	2.1724	0.1327	2.2221	M1	M2	M3	M4 (phi)
9.8103	9.4485	2.2883	0.1689	0.3664			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.1019%	is larger than	4.3033	phi.
0.1019%	is larger than	4.6367	phi.
0.2038%	is larger than	4.9700	phi.
0.6877%	is larger than	5.3033	phi.
1.6047%	is larger than	5.6367	phi.
3.3367%	is larger than	5.9700	phi.
5.5272%	is larger than	6.3033	phi.
8.1508%	is larger than	6.6367	phi.
10.0287%	is larger than	6.9700	phi.
12.7751%	is larger than	7.3033	phi.
16.2727%	is larger than	7.6367	phi.
21.0379%	is larger than	7.9700	phi.
26.4839%	is larger than	8.3033	phi.
32.4932%	is larger than	8.6367	phi.
39.5354%	is larger than	8.9700	phi.
46.9531%	is larger than	9.3033	phi.
53.9483%	is larger than	9.6367	phi.
59.9577%	is larger than	9.9700	phi.
63.2945%	is larger than	10.3033	phi.
66.6314%	is larger than	10.6367	phi.
69.9682%	is larger than	10.9700	phi.
73.3051%	is larger than	11.3033	phi.
76.6420%	is larger than	11.6367	phi.
79.9788%	is larger than	11.9700	phi.
83.3157%	is larger than	12.3033	phi.
86.6526%	is larger than	12.6367	phi.
89.9894%	is larger than	12.9700	phi.
93.3263%	is larger than	13.3033	phi.
96.6631%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_1_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.9
 SAND _____ 62.4
 V-COARSE SAND - 5.7
 COARSE SAND _____ 24.0
 MEDIUM SAND _____ 19.5
 FINE SAND _____ 9.2
 V-FINE SAND _____ 4.0
 SILT _____ 12.8
 CLAY _____ 23.9

Graphic Measures

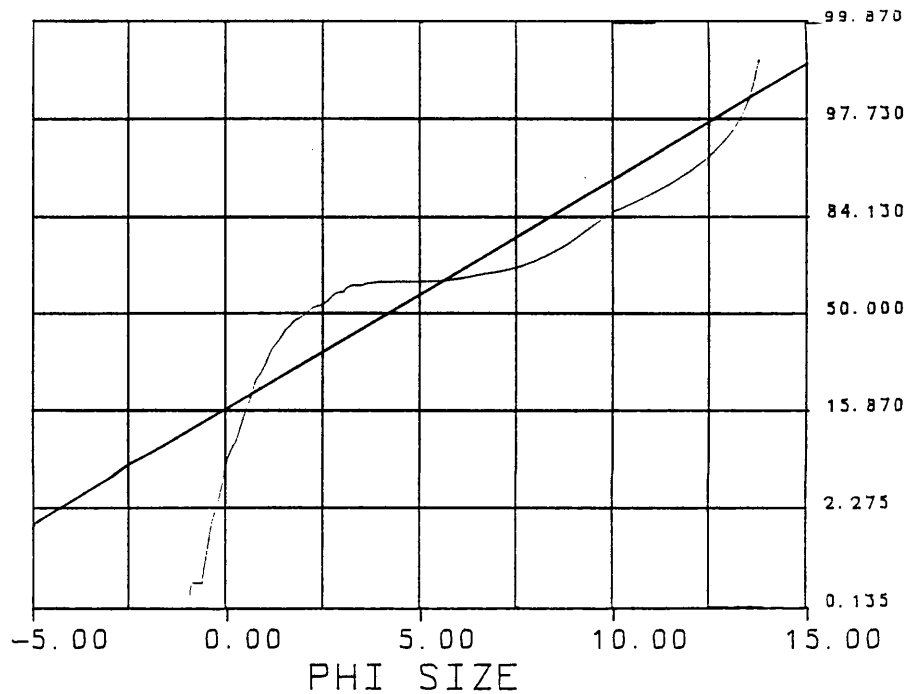
MEDIAN _____ 2.008
 MEAN _____ 4.089
 STD. DEVIATION _____ 4.216
 INC. SKEWNESS _____ 0.674
 INC. KURTOSIS _____ 0.623

Moment Measures

1st MOMENT _____ 4.325
 2nd MOMENT _____ 4.373
 3rd MOMENT _____ 0.721
 4th MOMENT _____ 1.974

DATE: 12-09-92

PROBABILITY CURVE



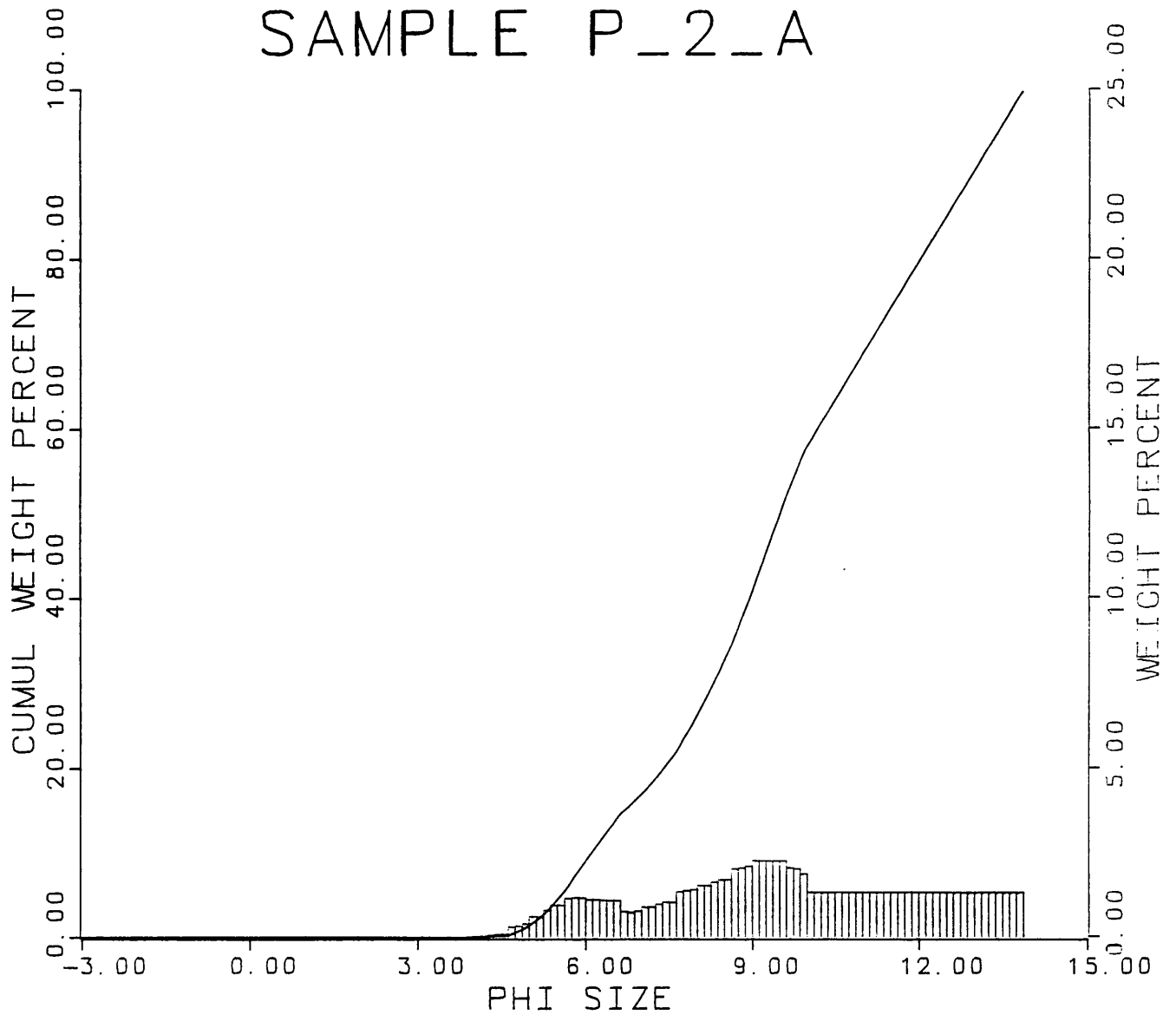
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file P_2_A.3rd

9.6359	2.4309	-0.0800	2.0953	M1	M2	M3	M4 (phi)
9.6307	9.5434	2.6041	0.0223	0.3877		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.1449%	is larger than	4.3033	phi.
0.4348%	is larger than	4.6367	phi.
1.3335%	is larger than	4.9700	phi.
2.9858%	is larger than	5.3033	phi.
5.5367%	is larger than	5.6367	phi.
8.6964%	is larger than	5.9700	phi.
11.6822%	is larger than	6.3033	phi.
14.6100%	is larger than	6.6367	phi.
16.5843%	is larger than	6.9700	phi.
18.9945%	is larger than	7.3033	phi.
21.7892%	is larger than	7.6367	phi.
25.4814%	is larger than	7.9700	phi.
29.5838%	is larger than	8.3033	phi.
34.1221%	is larger than	8.6367	phi.
39.6091%	is larger than	8.9700	phi.
45.6601%	is larger than	9.3033	phi.
51.6856%	is larger than	9.6367	phi.
57.1213%	is larger than	9.9700	phi.
60.6945%	is larger than	10.3033	phi.
64.2677%	is larger than	10.6367	phi.
67.8409%	is larger than	10.9700	phi.
71.4142%	is larger than	11.3033	phi.
74.9874%	is larger than	11.6367	phi.
78.5606%	is larger than	11.9700	phi.
82.1339%	is larger than	12.3033	phi.
85.7071%	is larger than	12.6367	phi.
89.2803%	is larger than	12.9700	phi.
92.8535%	is larger than	13.3033	phi.
96.4268%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_2_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 14.2
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 14.2
 SILT _____ 25.8
 CLAY _____ 60.0

Graphic Measures

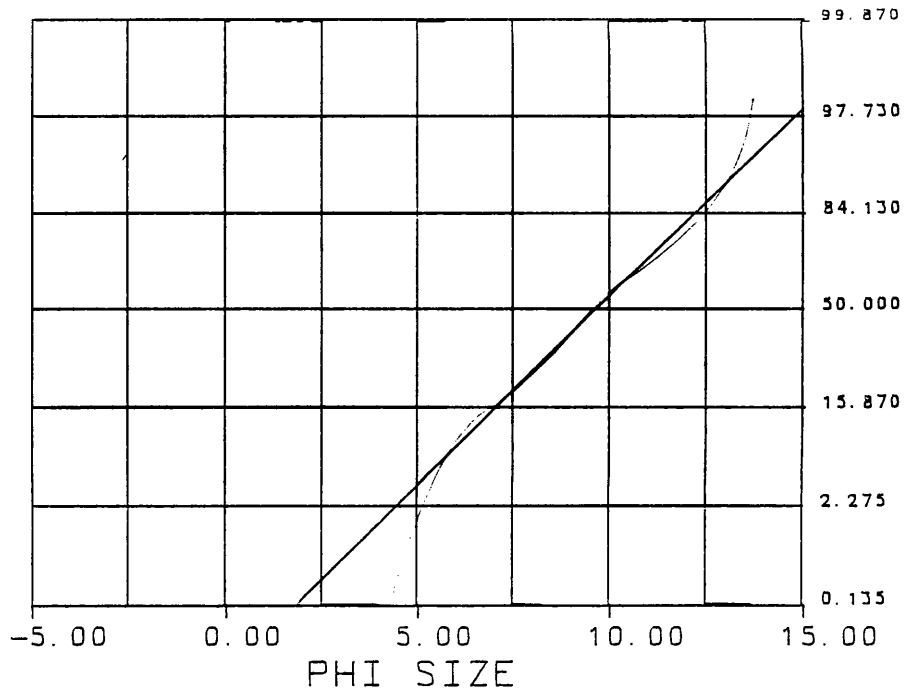
MEDIAN _____ 9.515
 MEAN _____ 9.586
 STD. DEVIATION _____ 2.578
 INC. SKEWNESS _____ 0.015
 INC. KURTOSIS _____ 0.387

Moment Measures

1st MOMENT _____ 9.592
 2nd MOMENT _____ 2.406
 3rd MOMENT _____ -0.087
 4th MOMENT _____ 2.104

DATE: 12-09-92

PROBABILITY CURVE



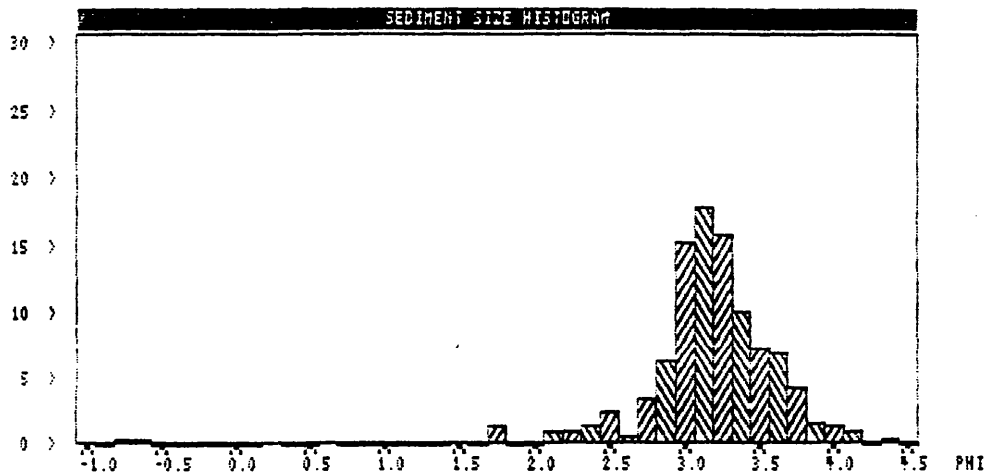
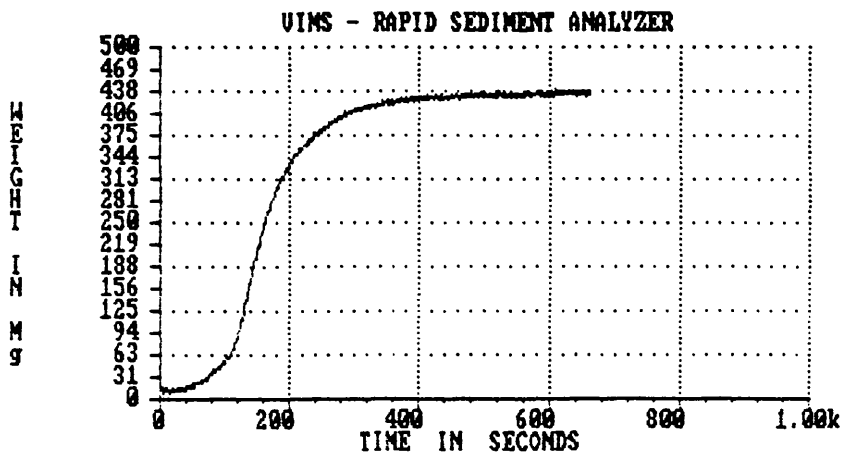
OBSERVED SOIL DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

P_2_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
695.7636 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
3.0756 0.5707 -3.4064 23.0704 M1 M2 M3 M4 (phi)
3.1430 3.1150 0.3861 -0.0126 0.2763 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.8557	0.2001	0.8557	0.2001
-0.8750	1.8340	18.9156	0.0000	0.0000	0.8557	0.2001
-0.7500	1.6818	17.7631	1.7650	0.4126	2.6207	0.6127
-0.6250	1.5422	16.6582	1.2772	0.2986	3.8979	0.9113
-0.5000	1.4142	15.6003	0.0000	0.0000	3.8979	0.9113
-0.3750	1.2968	14.5884	0.0000	0.0000	3.8979	0.9113
-0.2500	1.1892	13.6217	0.0000	0.0000	3.8979	0.9113
-0.1250	1.0905	12.6995	0.0000	0.0000	3.8979	0.9113
0.0000	1.0000	11.8208	0.0000	0.0000	3.8979	0.9113
0.1250	0.9170	10.9848	0.0000	0.0000	3.8979	0.9113
0.2500	0.8409	10.1905	0.9060	0.2118	4.8040	1.1231
0.3750	0.7711	9.4370	0.0000	0.0000	4.8040	1.1231
0.5000	0.7071	8.7233	0.0000	0.0000	4.8040	1.1231
0.6250	0.6484	8.0484	0.4734	0.1107	5.2774	1.2338
0.7500	0.5946	7.4111	0.0000	0.0000	5.2774	1.2338
0.8750	0.5453	6.8104	0.0000	0.0000	5.2774	1.2338
1.0000	0.5000	6.2452	0.0000	0.0000	5.2774	1.2338
1.1250	0.4585	5.7143	0.0000	0.0000	5.2774	1.2338
1.2500	0.4204	5.2167	0.0000	0.0000	5.2774	1.2338
1.3750	0.3856	4.7510	0.0000	0.0000	5.2774	1.2338
1.5000	0.3536	4.3163	0.4505	0.1053	5.7279	1.3392
1.6250	0.3242	3.9113	0.0000	0.0000	5.7279	1.3392
1.7500	0.2973	3.5349	5.9667	1.3950	11.6947	2.7342
1.8750	0.2726	3.1860	0.0000	0.0000	11.6947	2.7342
2.0000	0.2500	2.8634	0.0000	0.0000	11.6947	2.7342
2.1250	0.2293	2.5660	3.9653	0.9271	15.6599	3.6612
2.2500	0.2102	2.2927	4.1886	0.9793	19.8485	4.6405
2.3750	0.1928	2.0423	6.0503	1.4145	25.8988	6.0551
2.5000	0.1768	1.8137	10.4765	2.4494	36.3753	8.5044
2.6250	0.1621	1.6058	2.0494	0.4791	38.4247	8.9836
2.7500	0.1487	1.4175	14.5397	3.3993	52.9644	12.3829
2.8750	0.1363	1.2476	26.3352	6.1571	79.2997	18.5400
3.0000	0.1250	1.0949	64.9390	15.1825	144.2387	33.7225
3.1250	0.1146	0.9582	75.6907	17.6962	219.9294	51.4187
3.2500	0.1051	0.8364	67.2068	15.7127	287.1362	67.1315
3.3750	0.0964	0.7282	43.4433	10.1569	330.5794	77.2884
3.5000	0.0884	0.6326	31.0103	7.2501	361.5897	84.5385
3.6250	0.0811	0.5484	29.4340	6.8816	391.0238	91.4200
3.7500	0.0743	0.4744	18.3834	4.2980	409.4071	95.7180
3.8750	0.0682	0.4098	6.6350	1.5512	416.0421	97.2692
4.0000	0.0625	0.3533	6.0993	1.4260	422.1414	98.6952
4.1250	0.0573	0.3043	3.9774	0.9299	426.1188	99.6252
4.2500	0.0526	0.2617	0.0000	0.0000	426.1188	99.6252
4.3750	0.0482	0.2248	1.6033	0.3748	427.7221	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	427.7221	100.0000

* - fall velocity of natural grains in fresh water at 20oC



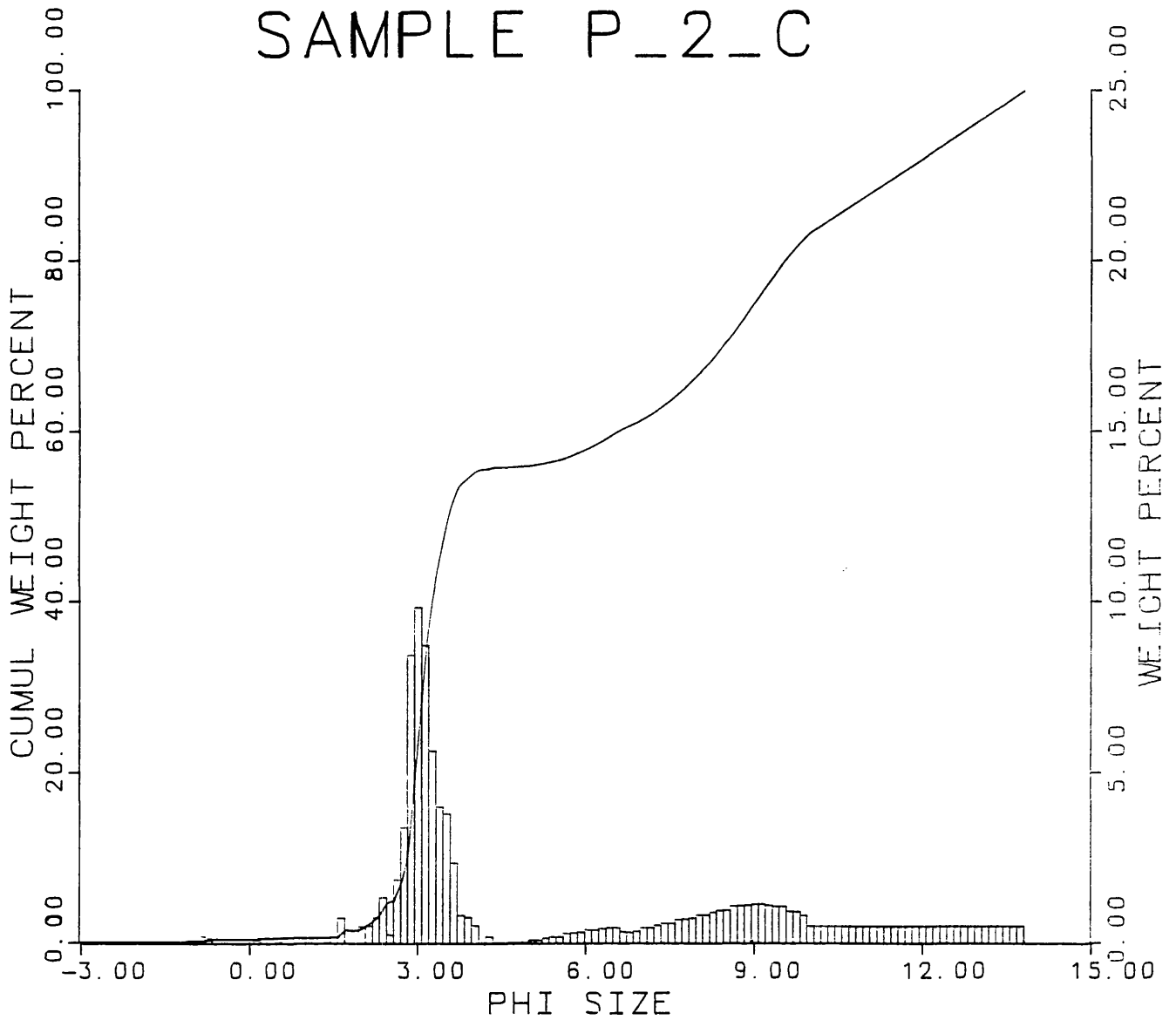
Coulter data

This data corresponds to file P_2_C.3rd

9.6238	2.2394	0.1084	2.2303	M1	M2	M3	M4 (phi)
9.6870	9.3684	2.3644	0.1461	0.3767			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.2243%	is larger than	4.3033	phi.
0.2803%	is larger than	4.6367	phi.
0.5887%	is larger than	4.9700	phi.
1.3456%	is larger than	5.3033	phi.
2.6352%	is larger than	5.6367	phi.
4.6256%	is larger than	5.9700	phi.
7.1766%	is larger than	6.3033	phi.
10.1482%	is larger than	6.6367	phi.
12.2678%	is larger than	6.9700	phi.
15.2403%	is larger than	7.3033	phi.
18.9883%	is larger than	7.6367	phi.
23.5118%	is larger than	7.9700	phi.
28.7332%	is larger than	8.3033	phi.
34.7558%	is larger than	8.6367	phi.
41.6056%	is larger than	8.9700	phi.
48.6881%	is larger than	9.3033	phi.
55.4086%	is larger than	9.6367	phi.
61.1728%	is larger than	9.9700	phi.
64.4084%	is larger than	10.3033	phi.
67.6440%	is larger than	10.6367	phi.
70.8796%	is larger than	10.9700	phi.
74.1152%	is larger than	11.3033	phi.
77.3508%	is larger than	11.6367	phi.
80.5864%	is larger than	11.9700	phi.
83.8220%	is larger than	12.3033	phi.
87.0576%	is larger than	12.6367	phi.
90.2932%	is larger than	12.9700	phi.
93.5288%	is larger than	13.3033	phi.
96.7644%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_2_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 55.6
 V-COARSE SAND - 0.4
 COARSE SAND _____ 0.2
 MEDIUM SAND _____ 0.8
 FINE SAND _____ 17.5
 V-FINE SAND _____ 36.7
 SILT _____ 16.4
 CLAY _____ 28.0

Graphic Measures

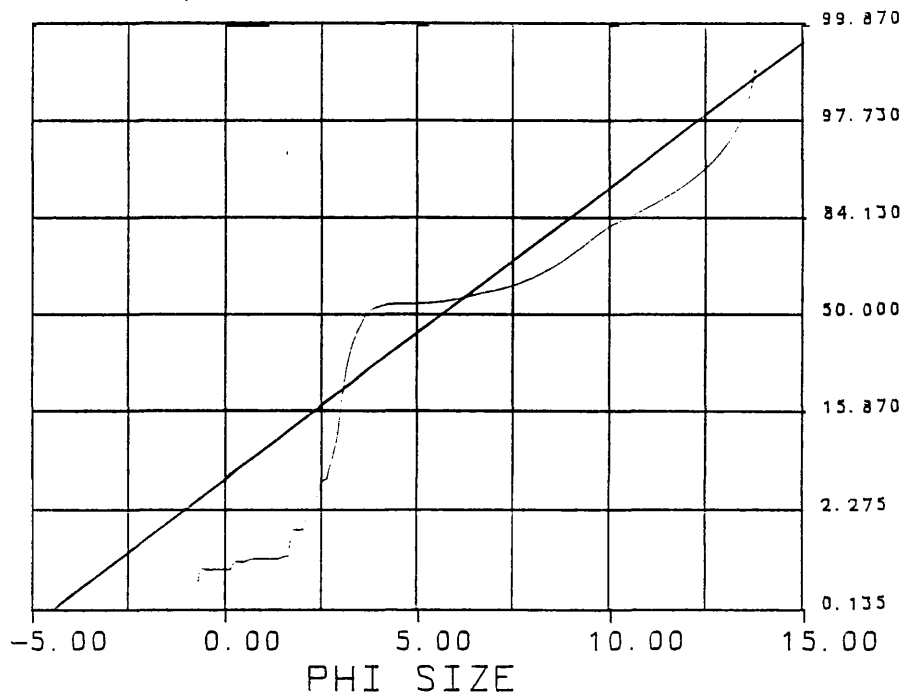
MEDIAN _____ 3.591
 MEAN _____ 5.576
 STD. DEVIATION _____ 3.336
 INC. SKEWNESS _____ 0.816
 INC. KURTOSIS _____ 0.532

Moment Measures

1st MOMENT _____ 5.950
 2nd MOMENT _____ 3.576
 3rd MOMENT _____ 0.657
 4th MOMENT _____ 2.027

DATE: 12-09-92

PROBABILITY CURVE



GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

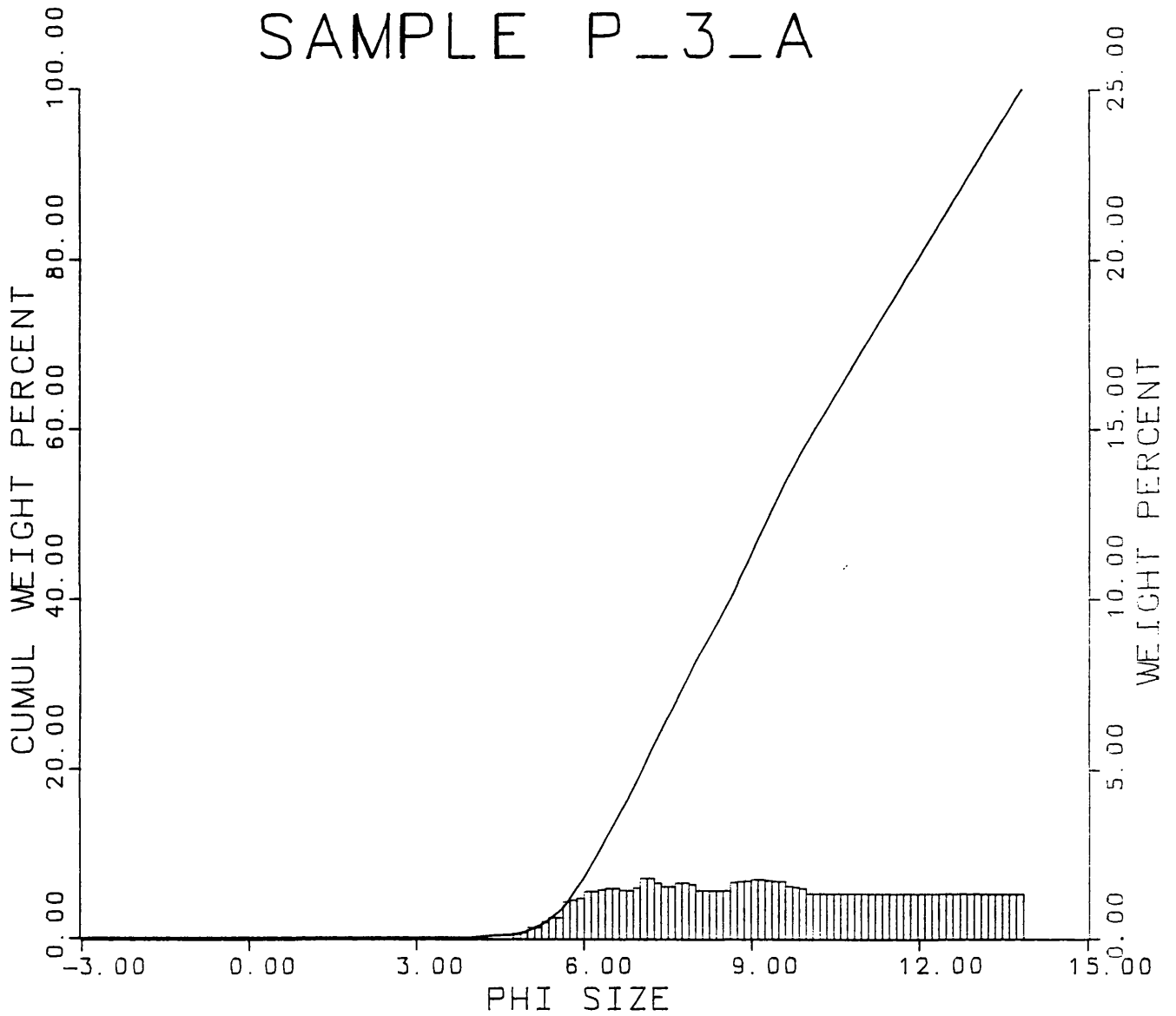
Coulter data

This data corresponds to file P_3_A.3rd

9.5354	2.4613	0.0561	1.9017	M1	M2	M3	M4 (phi)
9.5530	9.4108	2.5938	0.0682	0.3683			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.2433%	is larger than	4.3033	phi.
0.3650%	is larger than	4.6367	phi.
0.8110%	is larger than	4.9700	phi.
1.7842%	is larger than	5.3033	phi.
3.5279%	is larger than	5.6367	phi.
6.6503%	is larger than	5.9700	phi.
10.4214%	is larger than	6.3033	phi.
14.4359%	is larger than	6.6367	phi.
18.2690%	is larger than	6.9700	phi.
23.0714%	is larger than	7.3033	phi.
27.2129%	is larger than	7.6367	phi.
31.6628%	is larger than	7.9700	phi.
35.4958%	is larger than	8.3033	phi.
39.3289%	is larger than	8.6367	phi.
43.8670%	is larger than	8.9700	phi.
48.5371%	is larger than	9.3033	phi.
53.0752%	is larger than	9.6367	phi.
57.1726%	is larger than	9.9700	phi.
60.7416%	is larger than	10.3033	phi.
64.3105%	is larger than	10.6367	phi.
67.8795%	is larger than	10.9700	phi.
71.4484%	is larger than	11.3033	phi.
75.0174%	is larger than	11.6367	phi.
78.5863%	is larger than	11.9700	phi.
82.1553%	is larger than	12.3033	phi.
85.7242%	is larger than	12.6367	phi.
89.2932%	is larger than	12.9700	phi.
92.8621%	is larger than	13.3033	phi.
96.4311%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_3_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 10.8
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 10.8
 SILT _____ 28.9
 CLAY _____ 62.3

Graphic Measures

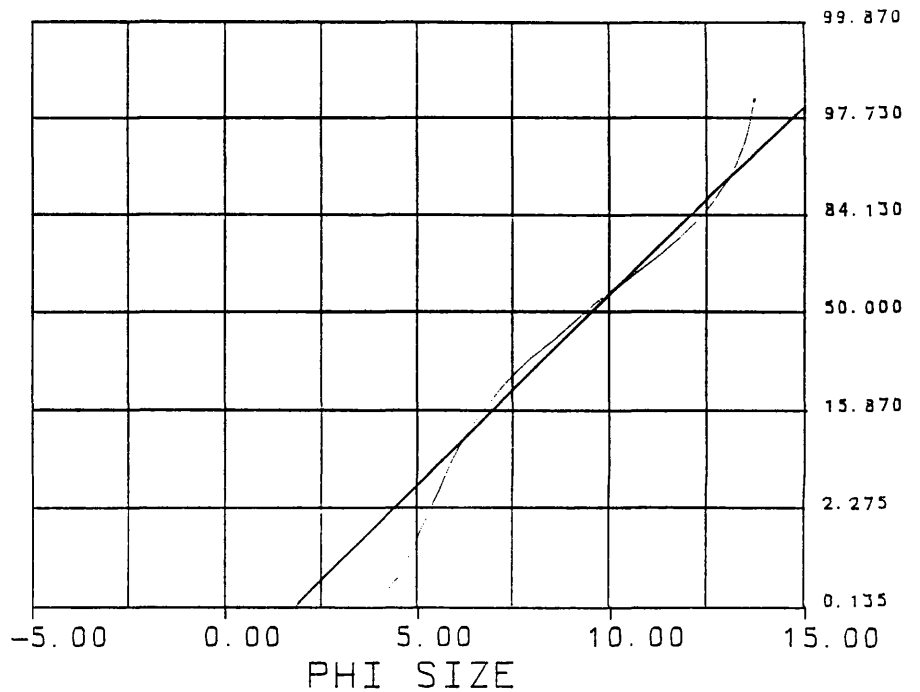
MEDIAN _____ 9.374
 MEAN _____ 9.509
 STD. DEVIATION _____ 2.565
 INC. SKEWNESS _____ 0.066
 INC. KURTOSIS _____ 0.367

Moment Measures

1st MOMENT _____ 9.490
 2nd MOMENT _____ 2.435
 3rd MOMENT _____ 0.054
 4th MOMENT _____ 1.908

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

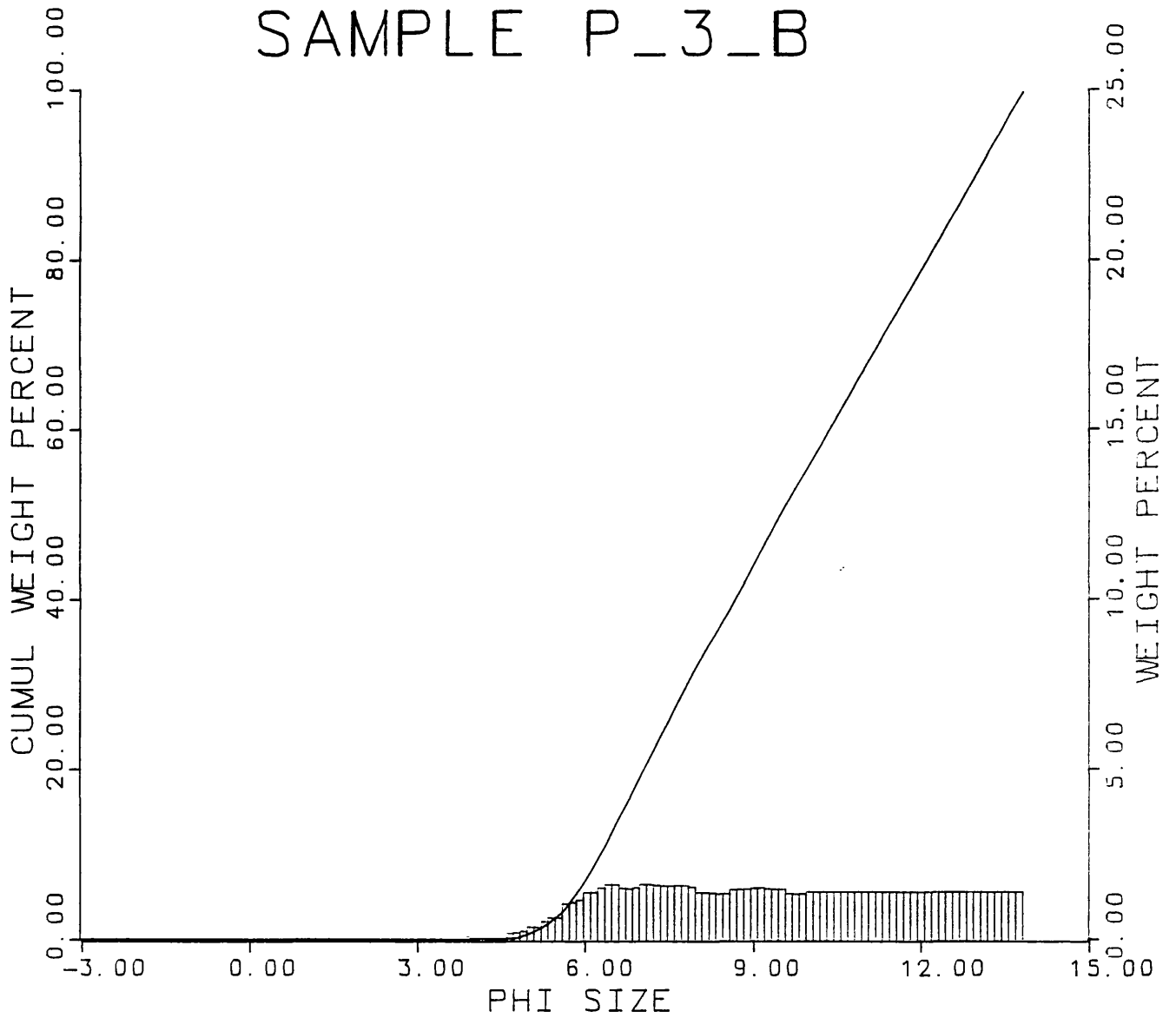
Coulter data

This data corresponds to file P_3_B.3rd

9.6065	2.4847	0.0314	1.8303	M1	M2	M3	M4 (phi)
9.6238	9.5550	2.6221	0.0321	0.3636		Mz, Md, SI, SKI, KG	

0.1187%	is larger than	3.9700	phi.
0.1187%	is larger than	4.3033	phi.
0.1187%	is larger than	4.6367	phi.
0.7124%	is larger than	4.9700	phi.
1.7414%	is larger than	5.3033	phi.
3.5225%	is larger than	5.6367	phi.
6.4908%	is larger than	5.9700	phi.
10.2112%	is larger than	6.3033	phi.
14.5648%	is larger than	6.6367	phi.
18.5934%	is larger than	6.9700	phi.
22.9706%	is larger than	7.3033	phi.
27.2317%	is larger than	7.6367	phi.
31.5314%	is larger than	7.9700	phi.
35.2502%	is larger than	8.3033	phi.
38.8914%	is larger than	8.6367	phi.
42.8813%	is larger than	8.9700	phi.
46.9874%	is larger than	9.3033	phi.
50.9773%	is larger than	9.6367	phi.
54.5798%	is larger than	9.9700	phi.
58.3648%	is larger than	10.3033	phi.
62.1498%	is larger than	10.6367	phi.
65.9348%	is larger than	10.9700	phi.
69.7199%	is larger than	11.3033	phi.
73.5049%	is larger than	11.6367	phi.
77.2899%	is larger than	11.9700	phi.
81.0749%	is larger than	12.3033	phi.
84.8599%	is larger than	12.6367	phi.
88.6449%	is larger than	12.9700	phi.
92.4300%	is larger than	13.3033	phi.
96.2150%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_3_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Cross Parameters (%)

GRAVEL _____ 0.1
 SAND _____ 4.8
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 4.8
 SILT _____ 24.5
 CLAY _____ 70.6

Graphic Measures

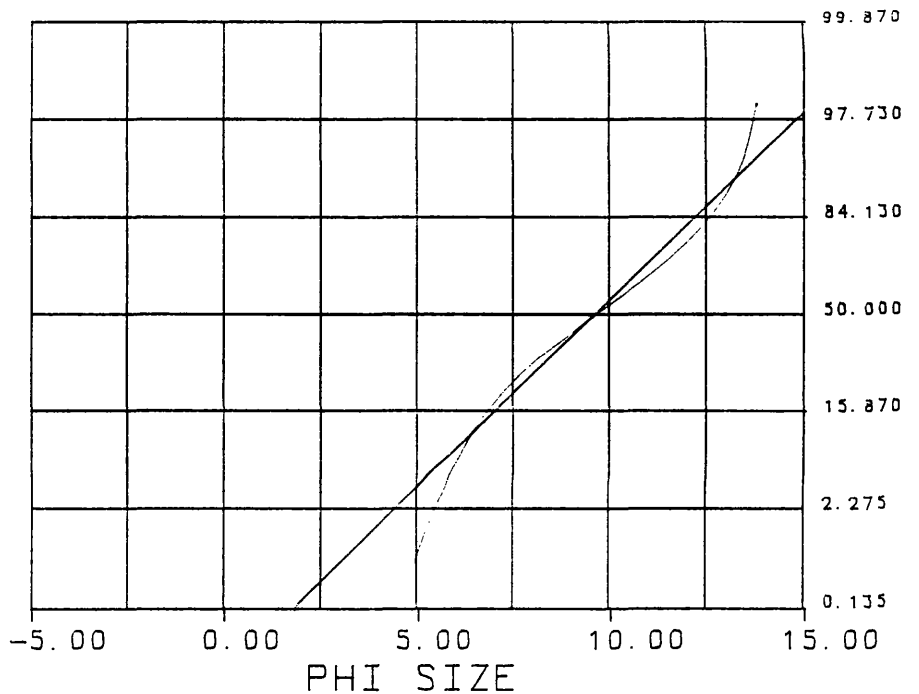
MEDIAN _____ 9.510
 MEAN _____ 9.577
 STD. DEVIATION _____ 2.593
 INC. SKEWNESS _____ 0.032
 INC. KURTOSIS _____ 0.362

Moment Measures

1st MOMENT _____ 9.564
 2nd MOMENT _____ 2.467
 3rd MOMENT _____ 0.011
 4th MOMENT _____ 1.845

DATE: 12-09-92

PROBABILITY CURVE



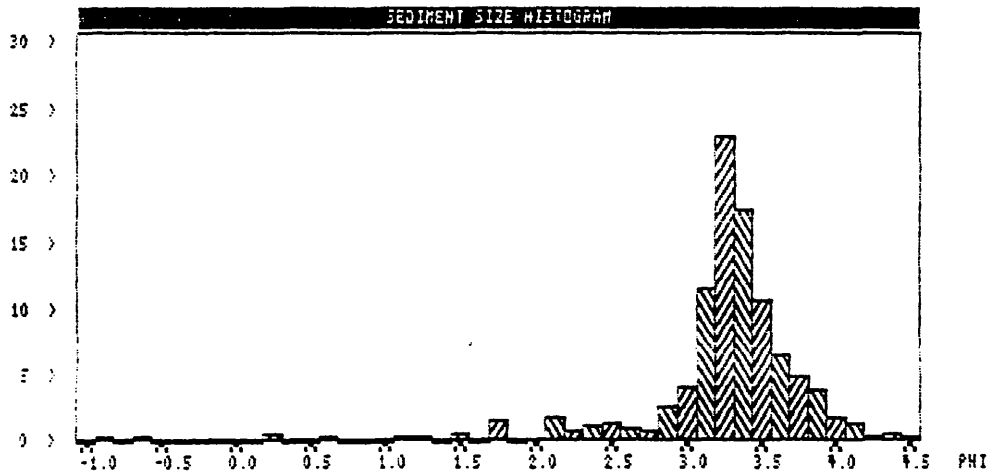
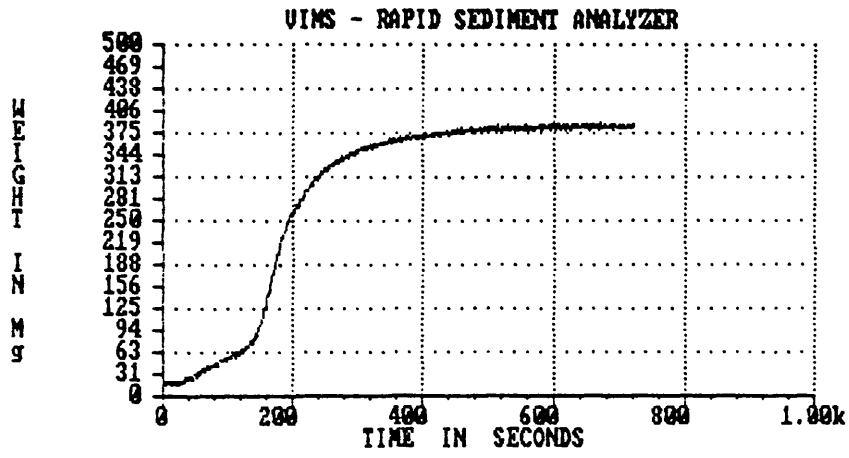
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

P_3_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
615.8448 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
3.1428 0.6524 -2.8357 14.9700 M1 M2 M3 M4 (phi)
3.2423 3.2353 0.4405 -0.1523 0.3499 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.3982	0.3734	1.3982	0.3734
-0.7500	1.6818	17.7631	0.0000	0.0000	1.3982	0.3734
-0.6250	1.5422	16.6582	1.0179	0.2719	2.4162	0.6453
-0.5000	1.4142	15.6003	0.1560	0.0417	2.5722	0.6870
-0.3750	1.2968	14.5884	0.0000	0.0000	2.5722	0.6870
-0.2500	1.1892	13.6217	0.0000	0.0000	2.5722	0.6870
-0.1250	1.0905	12.6995	0.0000	0.0000	2.5722	0.6870
0.0000	1.0000	11.8208	0.0000	0.0000	2.5722	0.6870
0.1250	0.9170	10.9848	0.0000	0.0000	2.5722	0.6870
0.2500	0.8409	10.1905	2.4379	0.6511	5.0101	1.3381
0.3750	0.7711	9.4370	0.0000	0.0000	5.0101	1.3381
0.5000	0.7071	8.7233	0.0000	0.0000	5.0101	1.3381
0.6250	0.6484	8.0484	1.2643	0.3377	6.2744	1.6758
0.7500	0.5946	7.4111	0.0000	0.0000	6.2744	1.6758
0.8750	0.5453	6.8104	0.0000	0.0000	6.2744	1.6758
1.0000	0.5000	6.2452	0.0000	0.0000	6.2744	1.6758
1.1250	0.4585	5.7143	1.4203	0.3793	7.6947	2.0551
1.2500	0.4204	5.2167	1.7285	0.4617	9.4232	2.5168
1.3750	0.3856	4.7510	0.0000	0.0000	9.4232	2.5168
1.5000	0.3536	4.3163	2.4638	0.6580	11.8870	3.1748
1.6250	0.3242	3.9113	0.0000	0.0000	11.8870	3.1748
1.7500	0.2973	3.5349	6.1452	1.6413	18.0322	4.8161
1.8750	0.2726	3.1860	0.0000	0.0000	18.0322	4.8161
2.0000	0.2500	2.8634	0.7257	0.1938	18.7580	5.0099
2.1250	0.2293	2.5660	6.6119	1.7659	25.3698	6.7758
2.2500	0.2102	2.2927	2.7427	0.7325	28.1125	7.5083
2.3750	0.1928	2.0423	4.2379	1.1319	32.3504	8.6402
2.5000	0.1768	1.8137	5.2013	1.3892	37.5517	10.0294
2.6250	0.1621	1.6058	3.2944	0.8799	40.8461	10.9092
2.7500	0.1487	1.4175	2.9682	0.7928	43.8143	11.7020
2.8750	0.1363	1.2476	9.7490	2.6038	53.5633	14.3058
3.0000	0.1250	1.0949	15.1379	4.0431	68.7012	18.3488
3.1250	0.1146	0.9582	43.1671	11.5291	111.8683	29.8780
3.2500	0.1051	0.8364	85.4064	22.8105	197.2747	52.6885
3.3750	0.0964	0.7282	64.6631	17.2704	261.9379	69.9589
3.5000	0.0884	0.6326	40.2961	10.7624	302.2340	80.7212
3.6250	0.0811	0.5484	23.9185	6.3882	326.1525	87.1094
3.7500	0.0743	0.4744	17.9043	4.7819	344.0568	91.8913
3.8750	0.0682	0.4098	14.5088	3.8750	358.5656	95.7664
4.0000	0.0625	0.3533	6.3276	1.6900	364.8932	97.4564
4.1250	0.0573	0.3043	4.9901	1.3328	369.8833	98.7891
4.2500	0.0526	0.2617	1.6835	0.4496	371.5668	99.2388
4.3750	0.0482	0.2248	1.7357	0.4636	373.3025	99.7023
4.5000	0.0442	0.1930	1.1145	0.2977	374.4170	100.0000

* - fall velocity of natural grains in fresh water at 20oC

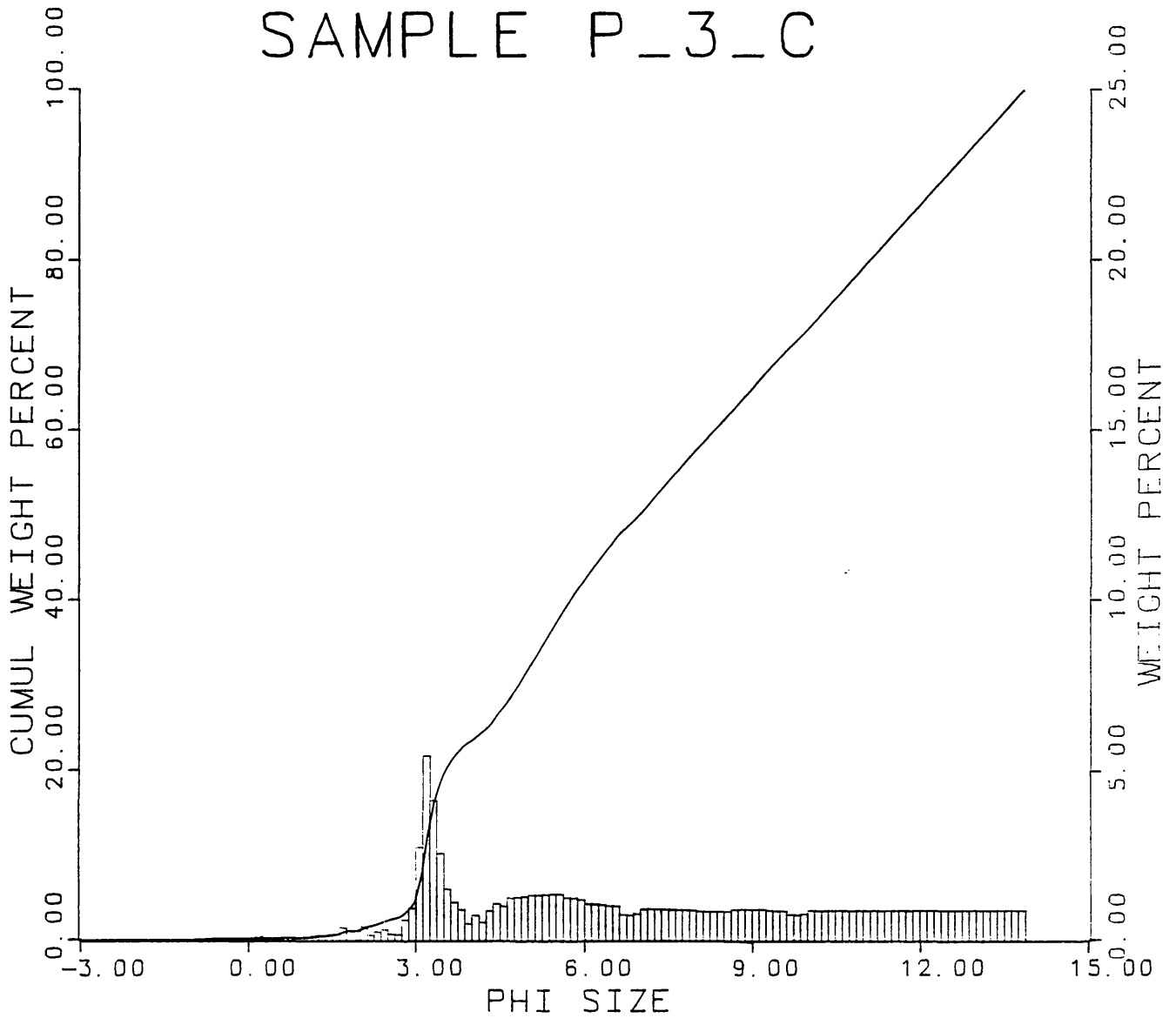


Coulter data
This data corresponds to file P_3_C.3rd

8.7855	2.9004	0.1205	1.7375	M1	M2	M3	M4 (phi)
8.7882	8.6649	3.0509	0.0687	0.4093			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
1.5469%	is larger than	4.3033	phi.
5.1396%	is larger than	4.6367	phi.
9.6304%	is larger than	4.9700	phi.
14.3209%	is larger than	5.3033	phi.
19.1112%	is larger than	5.6367	phi.
23.5023%	is larger than	5.9700	phi.
27.3944%	is larger than	6.3033	phi.
31.0370%	is larger than	6.6367	phi.
33.7062%	is larger than	6.9700	phi.
37.0427%	is larger than	7.3033	phi.
40.3279%	is larger than	7.6367	phi.
43.5618%	is larger than	7.9700	phi.
46.6417%	is larger than	8.3033	phi.
49.7216%	is larger than	8.6367	phi.
53.0068%	is larger than	8.9700	phi.
56.2920%	is larger than	9.3033	phi.
59.4232%	is larger than	9.6367	phi.
62.1438%	is larger than	9.9700	phi.
65.2985%	is larger than	10.3033	phi.
68.4531%	is larger than	10.6367	phi.
71.6078%	is larger than	10.9700	phi.
74.7625%	is larger than	11.3033	phi.
77.9172%	is larger than	11.6367	phi.
81.0719%	is larger than	11.9700	phi.
84.2266%	is larger than	12.3033	phi.
87.3813%	is larger than	12.6367	phi.
90.5359%	is larger than	12.9700	phi.
93.5906%	is larger than	13.3033	phi.
96.8453%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE P_3_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 23.8
 V-COARSE SAND _____ 0.2
 COARSE SAND _____ 0.2
 MEDIUM SAND _____ 0.8
 FINE SAND _____ 3.2
 V-FINE SAND _____ 19.3
 SILT _____ 29.4
 CLAY _____ 46.8

Graphic Measures

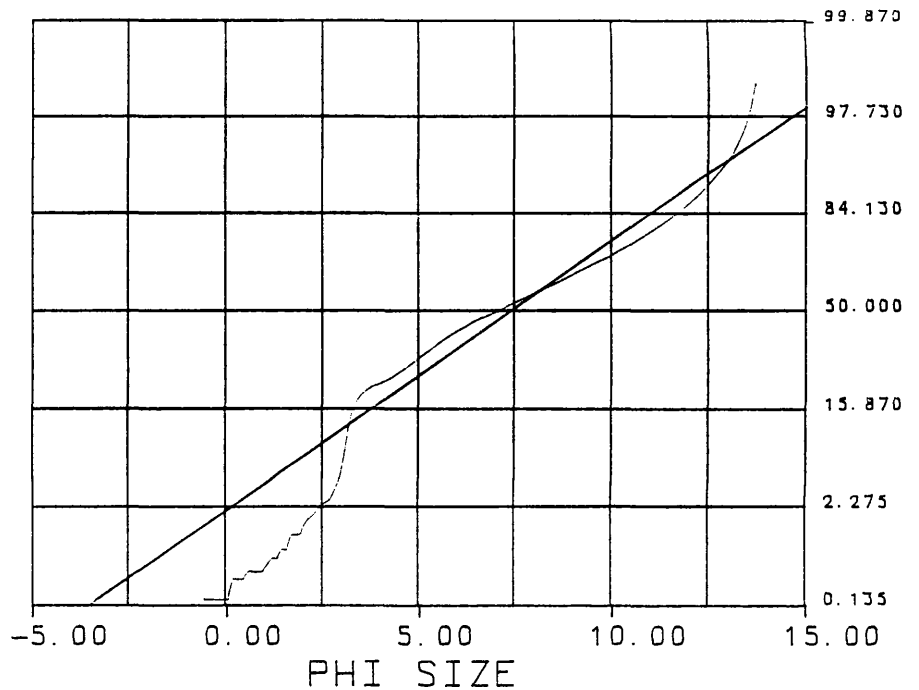
MEDIAN _____ 6.991
 MEAN _____ 7.338
 STD. DEVIATION _____ 3.619
 INC. SKEWNESS _____ 0.172
 INC. KURTOSIS _____ 0.480

Moment Measures

1st MOMENT _____ 7.398
 2nd MOMENT _____ 3.477
 3rd MOMENT _____ 0.222
 4th MOMENT _____ 1.819

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SOIL DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

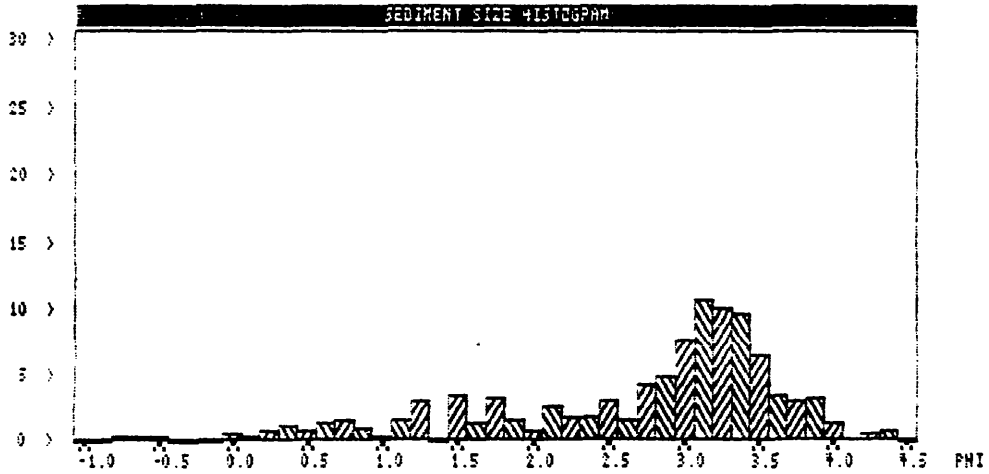
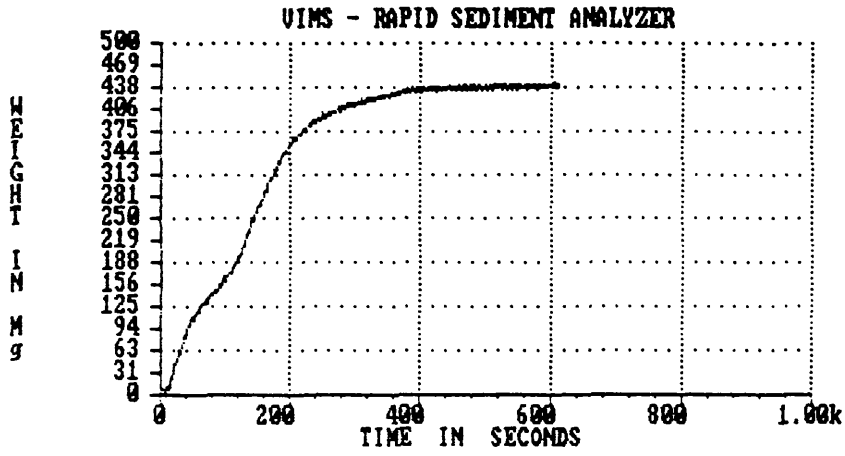
M_0_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
709.8669 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.6205 1.0095 -1.1001 3.6025 M1 M2 M3 M4 (phi)
2.6300 2.9873 0.9834 -0.5269 0.5464 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	1.5461	0.3527	1.5461	0.3527
-0.6250	1.5422	16.6582	1.7756	0.4050	3.3218	0.7577
-0.5000	1.4142	15.6003	1.2093	0.2758	4.5311	1.0335
-0.3750	1.2968	14.5884	0.0000	0.0000	4.5311	1.0335
-0.2500	1.1892	13.6217	0.0000	0.0000	4.5311	1.0335
-0.1250	1.0905	12.6995	0.0000	0.0000	4.5311	1.0335
0.0000	1.0000	11.8208	2.2296	0.5086	6.7607	1.5421
0.1250	0.9170	10.9848	1.6024	0.3655	8.3631	1.9076
0.2500	0.8409	10.1905	3.4188	0.7798	11.7819	2.6875
0.3750	0.7711	9.4370	5.0678	1.1560	16.8497	3.8435
0.5000	0.7071	8.7233	3.4888	0.7958	20.3385	4.6393
0.6250	0.6484	8.0484	6.3835	1.4561	26.7220	6.0954
0.7500	0.5946	7.4111	6.8274	1.5573	33.5494	7.6527
0.8750	0.5453	6.8104	3.9750	0.9067	37.5244	8.5594
1.0000	0.5000	6.2452	1.8313	0.4177	39.3558	8.9771
1.1250	0.4585	5.7143	6.6310	1.5125	45.9868	10.4897
1.2500	0.4204	5.2167	12.8117	2.9224	58.7984	13.4121
1.3750	0.3856	4.7510	0.0000	0.0000	58.7984	13.4121
1.5000	0.3536	4.3163	14.4680	3.3002	73.2664	16.7122
1.6250	0.3242	3.9113	5.7611	1.3141	79.0275	18.0264
1.7500	0.2973	3.5349	13.9263	3.1766	92.9538	21.2030
1.8750	0.2726	3.1860	6.7578	1.5415	99.7116	22.7445
2.0000	0.2500	2.8634	3.6588	0.8346	103.3705	23.5790
2.1250	0.2293	2.5660	11.0944	2.5307	114.4649	26.1097
2.2500	0.2102	2.2927	7.5633	1.7252	122.0281	27.8349
2.3750	0.1928	2.0423	8.1638	1.8622	130.1920	29.6971
2.5000	0.1768	1.8137	12.9179	2.9466	143.1098	32.6437
2.6250	0.1621	1.6058	6.8683	1.5667	149.9781	34.2104
2.7500	0.1487	1.4175	18.4782	4.2149	168.4563	38.4253
2.8750	0.1363	1.2476	20.6519	4.7107	189.1082	43.1360
3.0000	0.1250	1.0949	33.4930	7.6398	222.6012	50.7759
3.1250	0.1146	0.9582	46.8212	10.6800	269.4224	61.4559
3.2500	0.1051	0.8364	44.2632	10.0965	313.6857	71.5524
3.3750	0.0964	0.7282	42.1348	9.6110	355.8204	81.1635
3.5000	0.0884	0.6326	28.3564	6.4682	384.1768	87.6316
3.6250	0.0811	0.5484	14.7308	3.3601	398.9076	90.9918
3.7500	0.0743	0.4744	12.9097	2.9447	411.8173	93.9365
3.8750	0.0682	0.4098	13.6647	3.1170	425.4820	97.0534
4.0000	0.0625	0.3533	6.1025	1.3920	431.5845	98.4454
4.1250	0.0573	0.3043	0.8963	0.2044	432.4808	98.6499
4.2500	0.0526	0.2617	2.2910	0.5226	434.7718	99.1725
4.3750	0.0482	0.2248	3.6279	0.8275	438.3997	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	438.3997	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_O_A



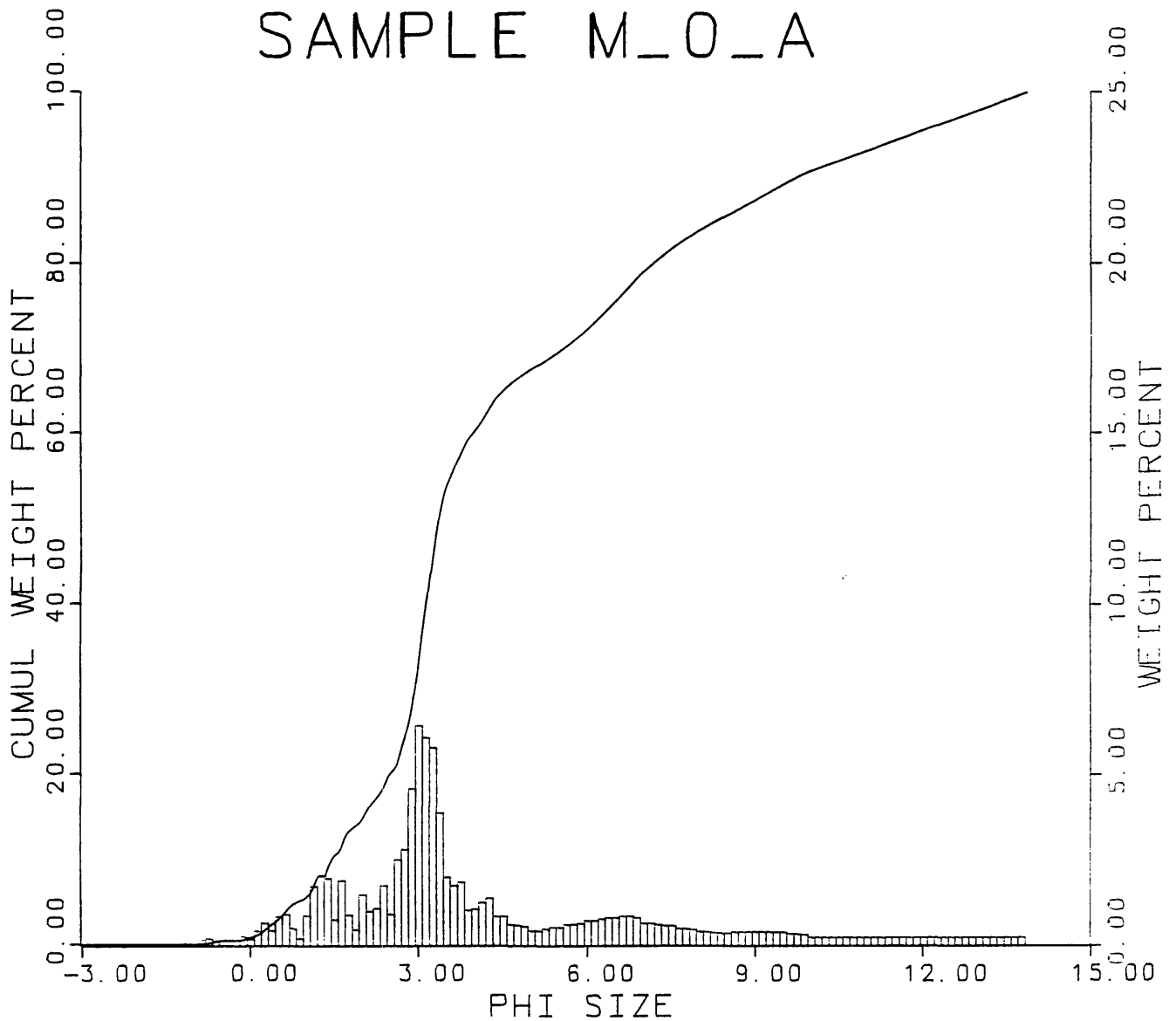
Coulter data

This data corresponds to file M_0_A.3rd

7.8917	2.7686	0.5245	2.2057	M1	M2	M3	M4 (phi)
7.8198	7.2650	2.9515	0.2884	0.4872			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
6.6737%	is larger than	4.3033	phi.
12.6930%	is larger than	4.6367	phi.
16.9459%	is larger than	4.9700	phi.
20.1518%	is larger than	5.3033	phi.
24.0775%	is larger than	5.6367	phi.
28.5921%	is larger than	5.9700	phi.
33.8263%	is larger than	6.3033	phi.
39.6494%	is larger than	6.6367	phi.
45.8148%	is larger than	6.9700	phi.
50.5436%	is larger than	7.3033	phi.
54.7935%	is larger than	7.6367	phi.
58.4449%	is larger than	7.9700	phi.
61.4976%	is larger than	8.3033	phi.
64.3110%	is larger than	8.6367	phi.
67.3637%	is larger than	8.9700	phi.
70.4165%	is larger than	9.3033	phi.
73.4094%	is larger than	9.6367	phi.
76.0432%	is larger than	9.9700	phi.
79.0396%	is larger than	10.3033	phi.
80.0360%	is larger than	10.6367	phi.
82.0324%	is larger than	10.9700	phi.
84.0288%	is larger than	11.3033	phi.
86.0252%	is larger than	11.6367	phi.
88.0216%	is larger than	11.9700	phi.
90.0180%	is larger than	12.3033	phi.
92.0144%	is larger than	12.6367	phi.
94.0108%	is larger than	12.9700	phi.
96.0072%	is larger than	13.3033	phi.
98.0036%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_0_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 2.9
 SAND _____ 58.8
 V-COARSE SAND — 0.9
 COARSE SAND _____ 4.4
 MEDIUM SAND _____ 8.7
 FINE SAND _____ 16.2
 V-FINE SAND _____ 28.6
 SILT _____ 23.8
 CLAY _____ 14.5

Graphic Measures

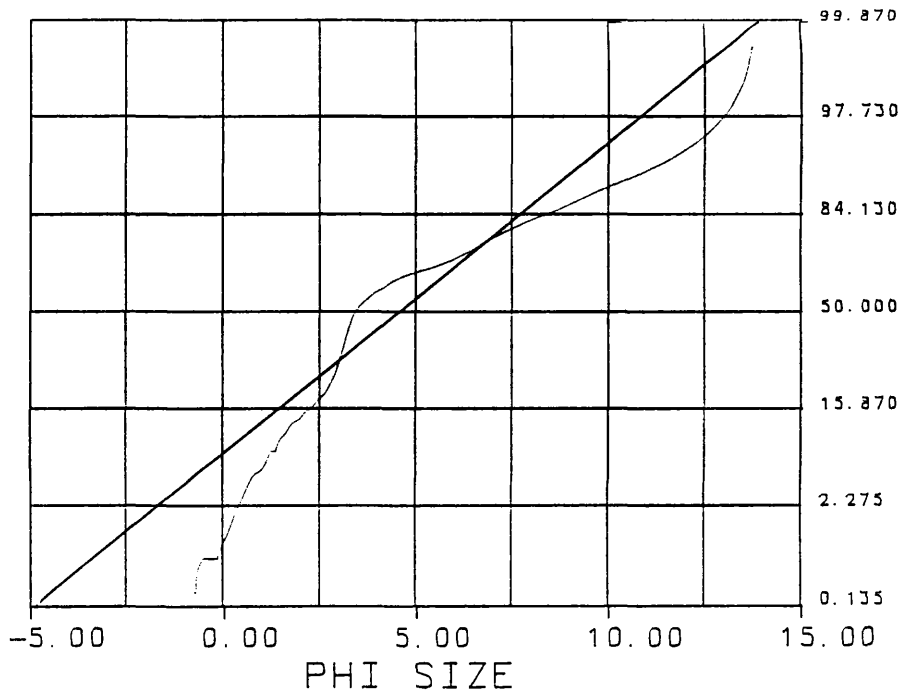
MEDIAN _____ 3.399
 MEAN _____ 4.523
 STD. DEVIATION— 3.127
 INC. SKEWNESS— 0.552
 INC. KURTOSIS— 0.848

Moment Measures

1st MOMENT _____ 4.679
 2nd MOMENT _____ 3.180
 3rd MOMENT _____ 1.094
 4th MOMENT _____ 3.482

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

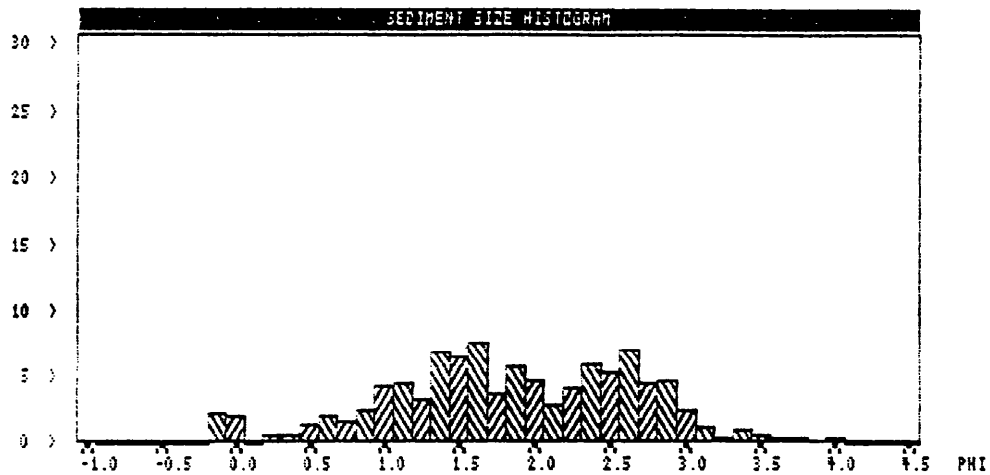
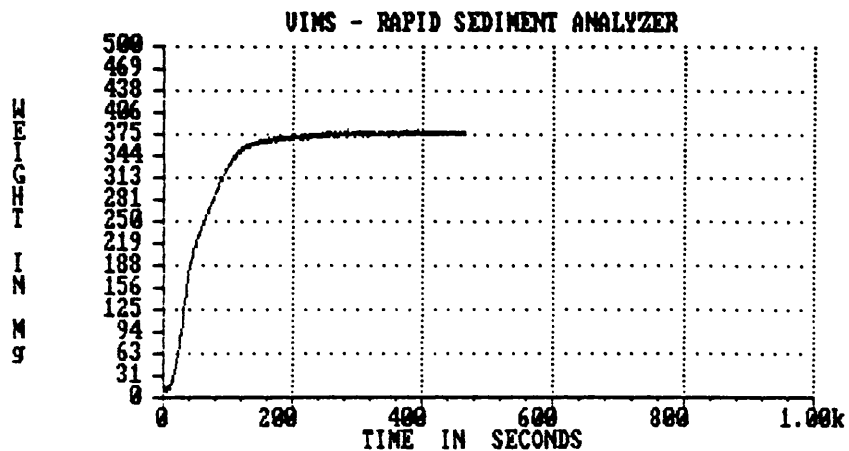
M_O_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
606.0508 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
1.7726 0.8390 -0.2798 2.9318 M1 M2 M3 M4 (phi)
1.7861 1.7679 0.8177 -0.0367 0.5687 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.9070	0.2461	0.9070	0.2461
-0.8750	1.8340	18.9156	0.0000	0.0000	0.9070	0.2461
-0.7500	1.6818	17.7631	0.1810	0.0491	1.0880	0.2952
-0.6250	1.5422	16.6582	0.0000	0.0000	1.0880	0.2952
-0.5000	1.4142	15.6003	0.0000	0.0000	1.0880	0.2952
-0.3750	1.2968	14.5884	0.0000	0.0000	1.0880	0.2952
-0.2500	1.1892	13.6217	0.0000	0.0000	1.0880	0.2952
-0.1250	1.0905	12.6995	7.9606	2.1602	9.0486	2.4554
0.0000	1.0000	11.8208	6.9982	1.8991	16.0468	4.3545
0.1250	0.9170	10.9848	0.0000	0.0000	16.0468	4.3545
0.2500	0.8409	10.1905	1.7854	0.4845	17.8322	4.8390
0.3750	0.7711	9.4370	2.0360	0.5525	19.8682	5.3915
0.5000	0.7071	8.7233	4.7016	1.2758	24.5698	6.6673
0.6250	0.6484	8.0484	7.4020	2.0086	31.9718	8.6759
0.7500	0.5946	7.4111	6.0132	1.6318	37.9850	10.3077
0.8750	0.5453	6.8104	8.9339	2.4243	46.9189	12.7320
1.0000	0.5000	6.2452	15.6319	4.2419	62.5508	16.9739
1.1250	0.4585	5.7143	16.5075	4.4795	79.0583	21.4534
1.2500	0.4204	5.2167	11.5547	3.1355	90.6130	24.5889
1.3750	0.3856	4.7510	25.3274	6.8729	115.9404	31.4618
1.5000	0.3536	4.3163	23.6573	6.4197	139.5977	37.8815
1.6250	0.3242	3.9113	28.1487	7.6385	167.7464	45.5200
1.7500	0.2973	3.5349	13.5597	3.6796	181.3061	49.1996
1.8750	0.2726	3.1860	20.5581	5.5787	201.8642	54.7783
2.0000	0.2500	2.8634	17.1339	4.6495	218.9981	59.4278
2.1250	0.2293	2.5660	10.0525	2.7279	229.0505	62.1556
2.2500	0.2102	2.2927	14.9252	4.0501	243.9757	66.2058
2.3750	0.1928	2.0423	21.7003	5.8886	265.6760	72.0944
2.5000	0.1768	1.8137	19.0574	5.1715	284.7334	77.2658
2.6250	0.1621	1.6058	26.0563	7.0707	310.7897	84.3365
2.7500	0.1487	1.4175	16.0007	4.3420	326.7904	88.6785
2.8750	0.1363	1.2476	16.8638	4.5762	343.6542	93.2547
3.0000	0.1250	1.0949	9.0049	2.4436	352.6591	95.6983
3.1250	0.1146	0.9582	4.2852	1.1628	356.9443	96.8611
3.2500	0.1051	0.8364	1.3555	0.3678	358.2998	97.2290
3.3750	0.0964	0.7282	3.8104	1.0340	362.1103	98.2630
3.5000	0.0884	0.6326	1.8051	0.4898	363.9154	98.7528
3.6250	0.0811	0.5484	1.1283	0.3062	365.0437	99.0590
3.7500	0.0743	0.4744	1.2935	0.3510	366.3372	99.4100
3.8750	0.0682	0.4098	0.7048	0.1913	367.0420	99.6013
4.0000	0.0625	0.3533	1.4694	0.3987	368.5114	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	368.5114	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	368.5114	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	368.5114	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	368.5114	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_O_B

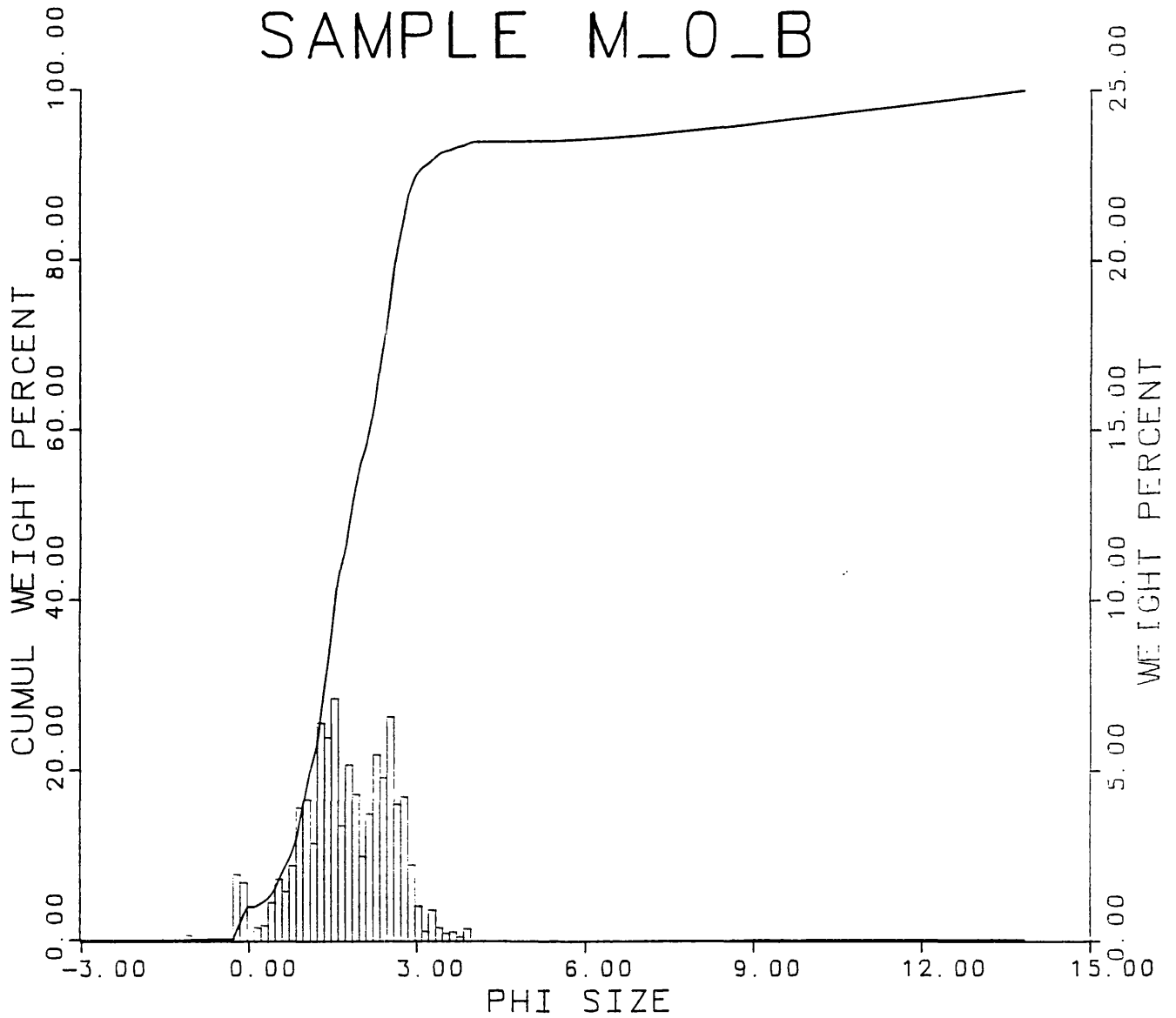


Coulter data
This data corresponds to file M_0_B.3rd

9.9739 2.3719 -0.1169 2.0509 M1 M2 M3 M4 (phi)
10.0674 10.1692 2.5436 -0.0868 0.3646 Mz, Md, SI, SKI, KG

0.9446% is larger than 3.9700 phi.
1.0360% is larger than 4.3033 phi.
1.2797% is larger than 4.6367 phi.
1.7673% is larger than 4.9700 phi.
2.5290% is larger than 5.3033 phi.
3.8392% is larger than 5.6367 phi.
5.7893% is larger than 5.9700 phi.
8.0136% is larger than 6.3033 phi.
10.6340% is larger than 6.6367 phi.
13.0985% is larger than 6.9700 phi.
16.2265% is larger than 7.3033 phi.
19.5441% is larger than 7.6367 phi.
22.8300% is larger than 7.9700 phi.
26.2740% is larger than 8.3033 phi.
29.9075% is larger than 8.6367 phi.
34.2045% is larger than 8.9700 phi.
38.8175% is larger than 9.3033 phi.
43.3357% is larger than 9.6367 phi.
47.3800% is larger than 9.9700 phi.
51.7650% is larger than 10.3033 phi.
56.1500% is larger than 10.6367 phi.
60.5350% is larger than 10.9700 phi.
64.9200% is larger than 11.3033 phi.
69.3050% is larger than 11.6367 phi.
73.6900% is larger than 11.9700 phi.
78.0750% is larger than 12.3033 phi.
82.4600% is larger than 12.6367 phi.
86.8450% is larger than 12.9700 phi.
91.2300% is larger than 13.3033 phi.
95.6150% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE M_0_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.70

Gross Parameters (%)

GRAVEL _____ 1.7
 SAND _____ 92.4
 V-COARSE SAND _____ 3.8
 COARSE SAND _____ 11.7
 MEDIUM SAND _____ 39.3
 FINE SAND _____ 33.6
 V-FINE SAND _____ 4.0
 SILT _____ 0.8
 CLAY _____ 5.1

Graphic Measures

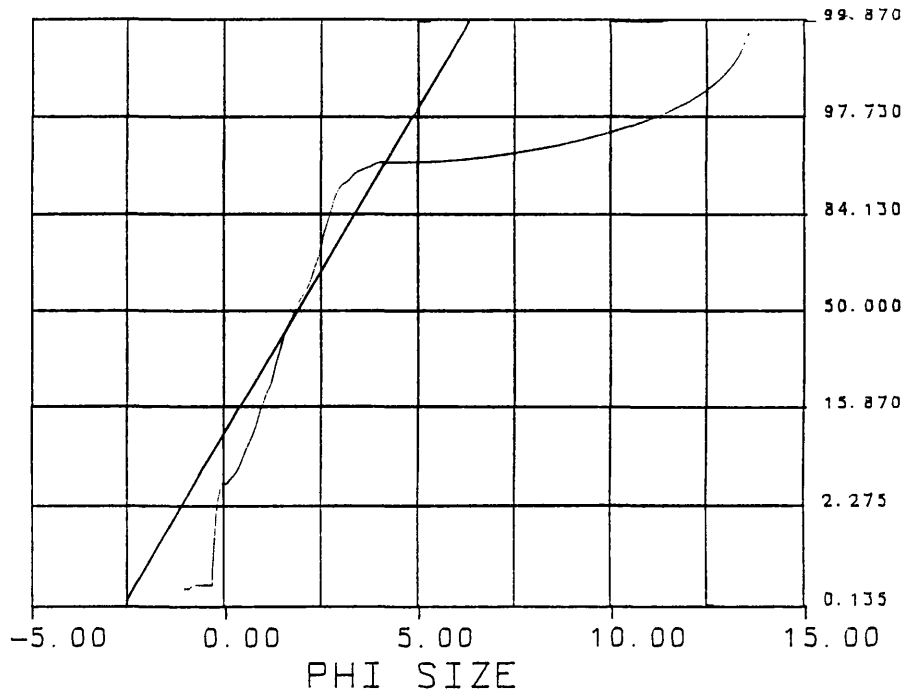
MEDIAN _____ 1.839
 MEAN _____ 1.869
 STD. DEVIATION _____ 1.482
 INC. SKEWNESS _____ 0.310
 INC. KURTOSIS _____ 1.396

Moment Measures

1st MOMENT _____ 2.258
 2nd MOMENT _____ 2.180
 3rd MOMENT _____ 3.250
 4th MOMENT _____ 14.704

DATE: 12-09-92

PROBABILITY CURVE



THEORETICAL SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

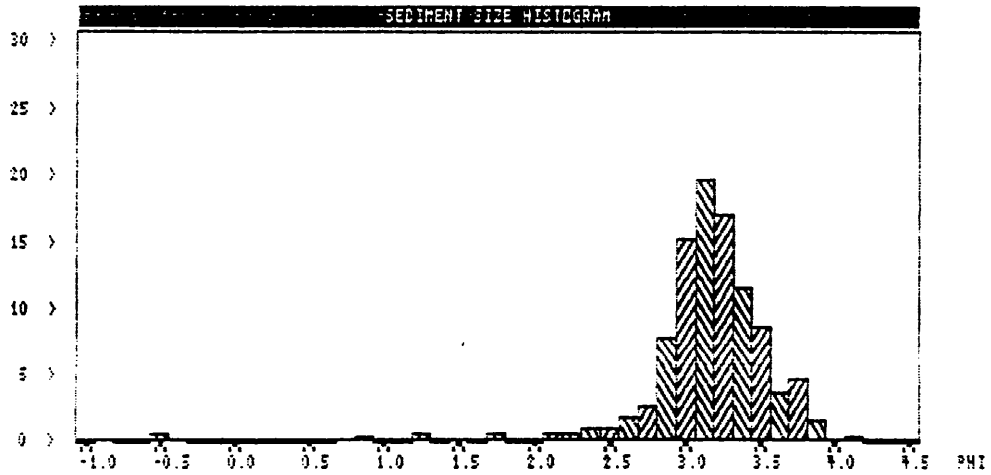
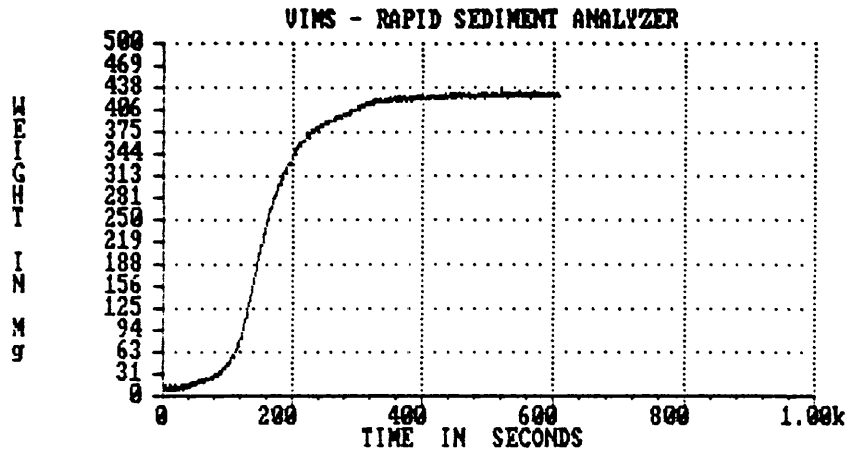
M_0_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
684.0108 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
3.0690 0.5069 -3.5638 23.9386 M1 M2 M3 M4 (phi)
3.1254 3.1094 0.3362 -0.0123 0.2464 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.2577	0.0612	0.2577	0.0612
-0.7500	1.6818	17.7631	0.0000	0.0000	0.2577	0.0612
-0.6250	1.5422	16.6582	0.0000	0.0000	0.2577	0.0612
-0.5000	1.4142	15.6003	2.1771	0.5172	2.4348	0.5784
-0.3750	1.2968	14.5884	0.7525	0.1788	3.1873	0.7572
-0.2500	1.1892	13.6217	0.0008	0.0002	3.1881	0.7574
-0.1250	1.0905	12.6995	0.0000	0.0000	3.1881	0.7574
0.0000	1.0000	11.8208	0.0000	0.0000	3.1881	0.7574
0.1250	0.9170	10.9848	0.0000	0.0000	3.1881	0.7574
0.2500	0.8409	10.1905	0.0000	0.0000	3.1881	0.7574
0.3750	0.7711	9.4370	0.0000	0.0000	3.1881	0.7574
0.5000	0.7071	8.7233	0.0000	0.0000	3.1881	0.7574
0.6250	0.6484	8.0484	0.0000	0.0000	3.1881	0.7574
0.7500	0.5946	7.4111	0.2557	0.0608	3.4438	0.8181
0.8750	0.5453	6.8104	1.3322	0.3165	4.7760	1.1346
1.0000	0.5000	6.2452	0.0000	0.0000	4.7760	1.1346
1.1250	0.4585	5.7143	0.0000	0.0000	4.7760	1.1346
1.2500	0.4204	5.2167	2.5867	0.6145	7.3626	1.7491
1.3750	0.3856	4.7510	0.0000	0.0000	7.3626	1.7491
1.5000	0.3536	4.3163	0.6260	0.1487	7.9887	1.8978
1.6250	0.3242	3.9113	0.2428	0.0577	8.2315	1.9555
1.7500	0.2973	3.5349	2.7451	0.6521	10.9766	2.6076
1.8750	0.2726	3.1860	0.0000	0.0000	10.9766	2.6076
2.0000	0.2500	2.8634	0.0000	0.0000	10.9766	2.6076
2.1250	0.2293	2.5660	2.5878	0.6148	13.5644	3.2224
2.2500	0.2102	2.2927	2.6968	0.6407	16.2612	3.8630
2.3750	0.1928	2.0423	3.7778	0.8975	20.0389	4.7605
2.5000	0.1768	1.8137	3.9364	0.9351	23.9753	5.6956
2.6250	0.1621	1.6058	7.2249	1.7164	31.2002	7.4120
2.7500	0.1487	1.4175	11.0224	2.6185	42.2227	10.0305
2.8750	0.1363	1.2476	32.9998	7.8395	75.2225	17.8700
3.0000	0.1250	1.0949	63.2949	15.0365	138.5175	32.9065
3.1250	0.1146	0.9582	82.2172	19.5317	220.7346	52.4381
3.2500	0.1051	0.8364	71.2565	16.9278	291.9911	69.3659
3.3750	0.0964	0.7282	48.0330	11.4108	340.0241	80.7767
3.5000	0.0884	0.6326	36.4745	8.6650	376.4986	89.4417
3.6250	0.0811	0.5484	15.4606	3.6728	391.9592	93.1145
3.7500	0.0743	0.4744	19.7404	4.6896	411.6996	97.8041
3.8750	0.0682	0.4098	6.8694	1.6319	418.5690	99.4360
4.0000	0.0625	0.3533	0.9089	0.2159	419.4779	99.6519
4.1250	0.0573	0.3043	1.4652	0.3481	420.9431	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	420.9431	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	420.9431	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	420.9431	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_O_C



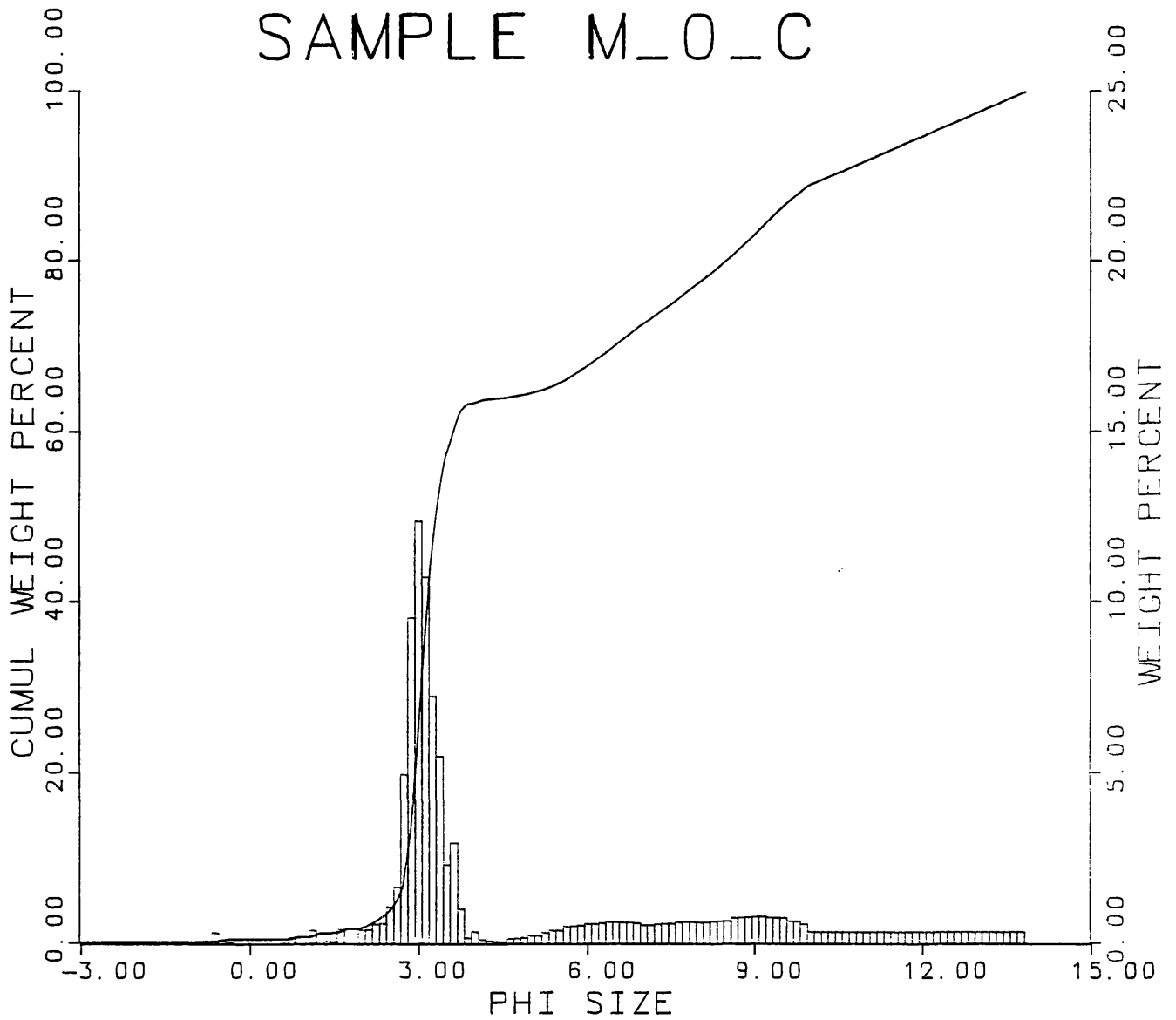
Coulter data

This data corresponds to file M_0_C.3rd

8.9732	2.4260	0.2586	2.1936	M1	M2	M3	M4 (phi)
9.0250	8.8090	2.5777	0.1285	0.4139			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.8724%	is larger than	4.3033	phi.
1.3774%	is larger than	4.6367	phi.
2.4794%	is larger than	4.9700	phi.
4.1782%	is larger than	5.3033	phi.
6.9330%	is larger than	5.6367	phi.
10.6980%	is larger than	5.9700	phi.
14.9680%	is larger than	6.3033	phi.
19.6513%	is larger than	6.6367	phi.
24.3053%	is larger than	6.9700	phi.
28.3336%	is larger than	7.3033	phi.
32.7138%	is larger than	7.6367	phi.
37.4460%	is larger than	7.9700	phi.
42.1001%	is larger than	8.3033	phi.
47.0278%	is larger than	8.6367	phi.
52.7769%	is larger than	8.9700	phi.
58.7215%	is larger than	9.3033	phi.
64.3924%	is larger than	9.6367	phi.
69.2420%	is larger than	9.9700	phi.
71.9051%	is larger than	10.3033	phi.
74.3683%	is larger than	10.6367	phi.
76.9315%	is larger than	10.9700	phi.
79.4946%	is larger than	11.3033	phi.
82.0578%	is larger than	11.6367	phi.
84.6210%	is larger than	11.9700	phi.
87.1842%	is larger than	12.3033	phi.
89.7473%	is larger than	12.6367	phi.
92.3105%	is larger than	12.9700	phi.
94.8737%	is larger than	13.3033	phi.
97.4368%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_0_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 11.0
 SAND _____ 58.4
 V-COARSE SAND - 0.4
 COARSE SAND - 0.2
 MEDIUM SAND - 0.8
 FINE SAND - 17.1
 V-FINE SAND - 37.8
 SILT _____ 16.5
 CLAY _____ 16.1

Graphic Measures

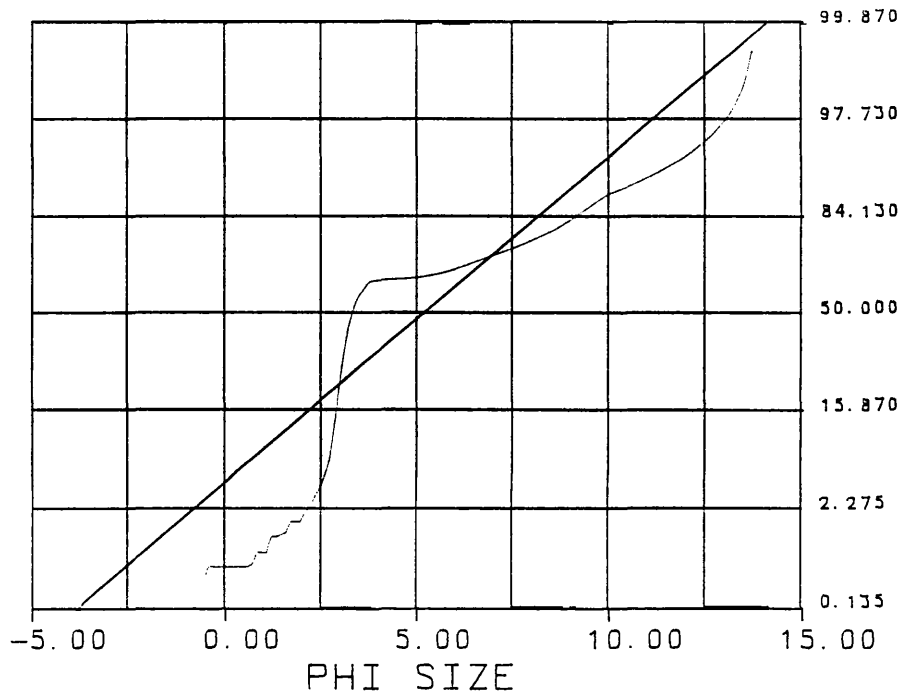
MEDIAN _____ 3.352
 MEAN _____ 5.141
 STD. DEVIATION- 2.983
 INC. SKEWNESS- 0.858
 INC. KURTOSIS- 0.618

Moment Measures

1st MOMENT _____ 5.208
 2nd MOMENT _____ 3.200
 3rd MOMENT _____ 1.101
 4th MOMENT _____ 2.978

DATE: 12-09-92

PROBABILITY CURVE



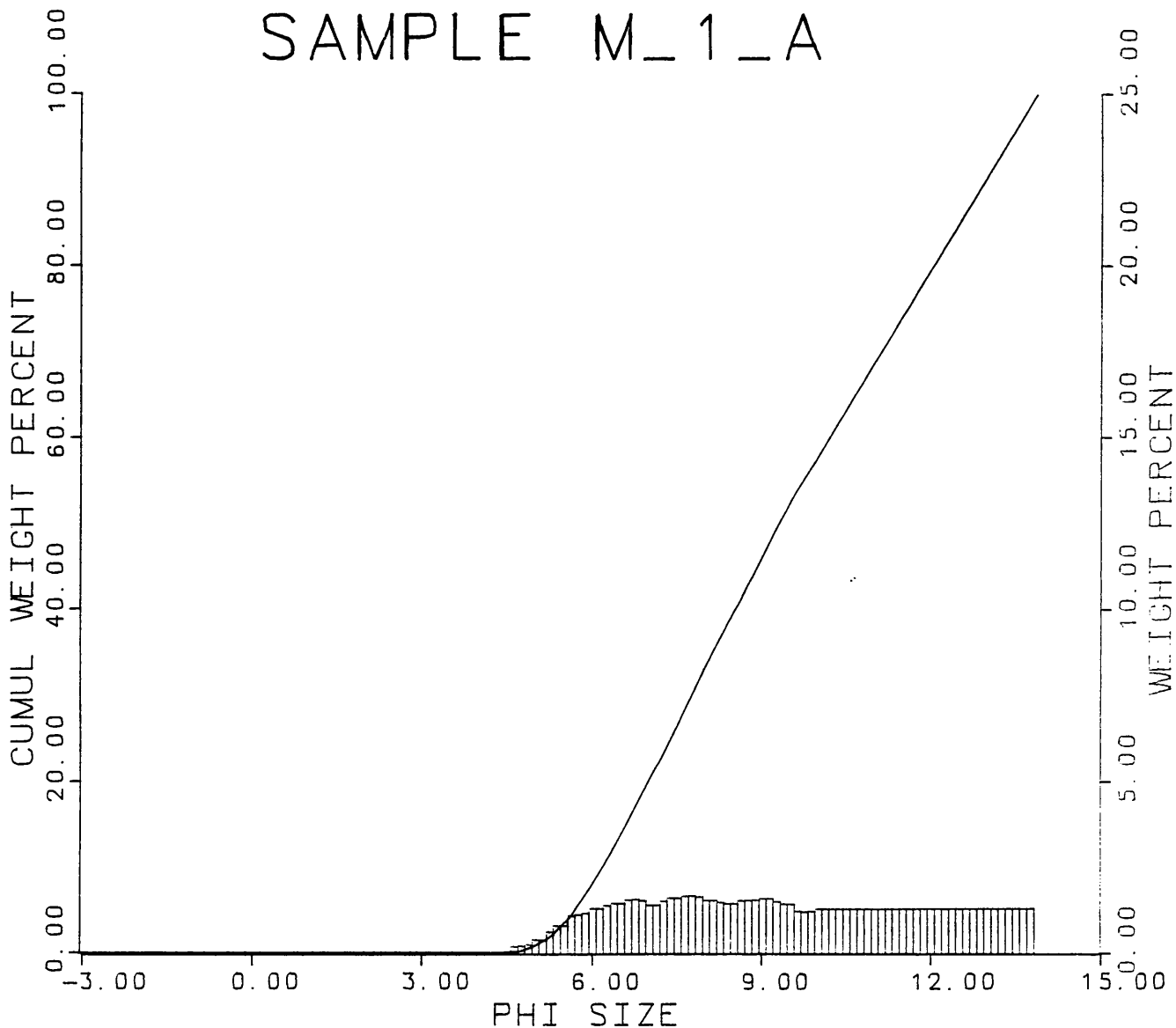
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file M_1_A.3rd

				M1	M2	M3	M4 (phi)
9.5098	2.4917	0.0636	1.8596				
9.5160	9.3542	2.6279	0.0747	0.3709			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.1223%	is larger than	4.6367	phi.
0.8157%	is larger than	4.9700	phi.
1.9984%	is larger than	5.3033	phi.
4.2822%	is larger than	5.6367	phi.
7.4633%	is larger than	5.9700	phi.
11.0930%	is larger than	6.3033	phi.
15.1306%	is larger than	6.6367	phi.
19.4666%	is larger than	6.9700	phi.
23.3761%	is larger than	7.3033	phi.
27.8188%	is larger than	7.6367	phi.
32.4392%	is larger than	7.9700	phi.
36.7042%	is larger than	8.3033	phi.
40.7203%	is larger than	8.6367	phi.
44.9853%	is larger than	8.9700	phi.
49.3924%	is larger than	9.3033	phi.
53.3731%	is larger than	9.6367	phi.
56.7495%	is larger than	9.9700	phi.
60.3537%	is larger than	10.3033	phi.
63.9579%	is larger than	10.6367	phi.
67.5621%	is larger than	10.9700	phi.
71.1663%	is larger than	11.3033	phi.
74.7705%	is larger than	11.6367	phi.
78.3747%	is larger than	11.9700	phi.
81.9790%	is larger than	12.3033	phi.
85.5832%	is larger than	12.6367	phi.
89.1874%	is larger than	12.9700	phi.
92.7916%	is larger than	13.3033	phi.
96.3958%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_1_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 18.1
 V-COARSE SAND - 0.0
 COARSE SAND - 0.0
 MEDIUM SAND - 0.0
 FINE SAND - 0.0
 V-FINE SAND - 0.0
 SILT _____ 24.7
 CLAY _____ 59.2

Graphic Measures

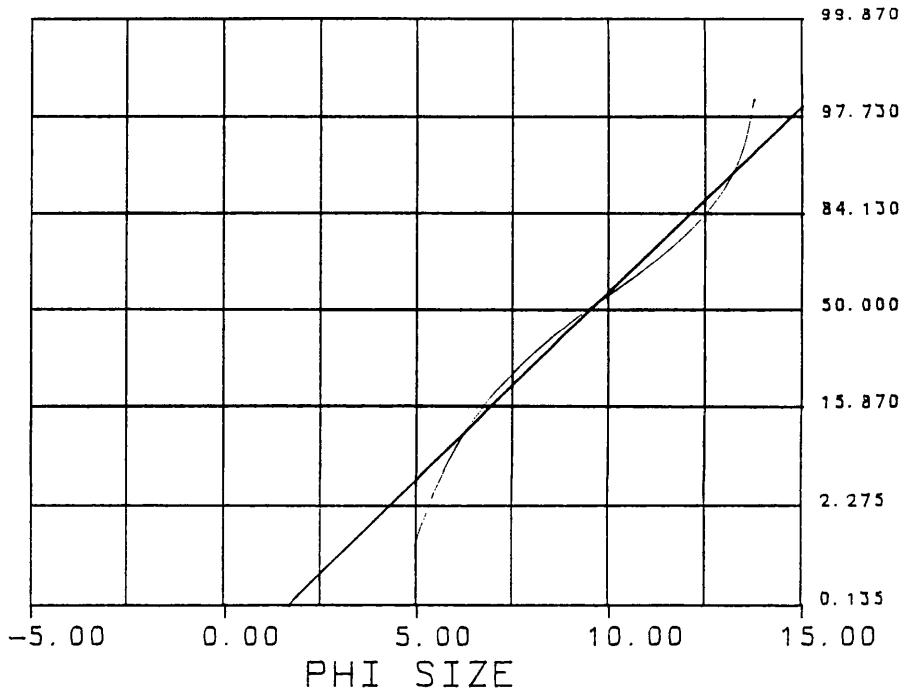
MEDIAN _____ 9.314
 MEAN _____ 9.472
 STD. DEVIATION- 2.598
 INC. SKEWNESS- 0.073
 INC. KURTOSIS- 0.370

Moment Measures

1st MOMENT _____ 9.464
 2nd MOMENT _____ 2.465
 3rd MOMENT _____ 0.062
 4th MOMENT _____ 1.866

DATE: 12-09-92

PROBABILITY CURVE



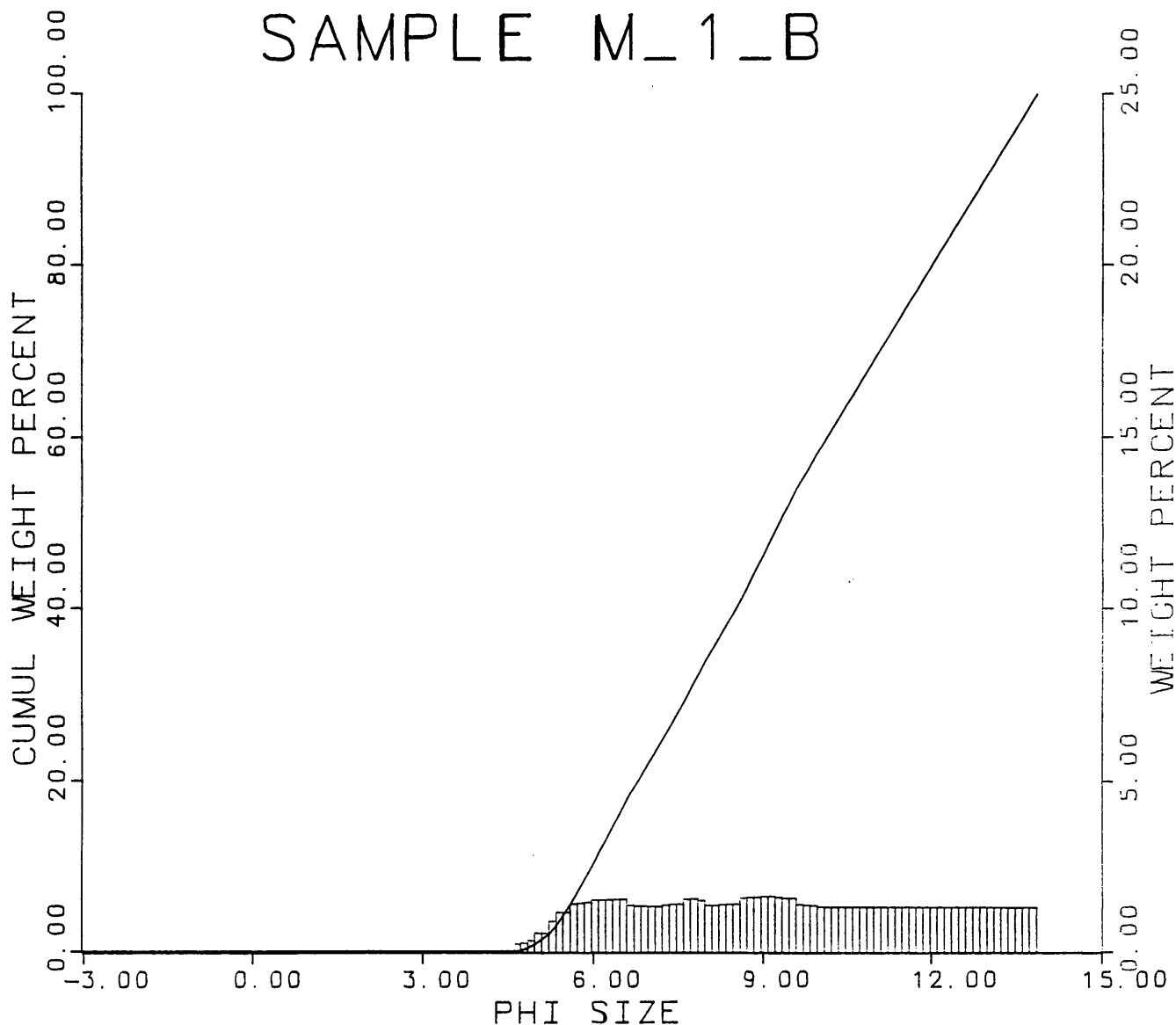
NORMALIZED SOIL DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file M_1_B.3rd

9.4529	2.5378	0.0455	1.8428	M1	M2	M3	M4 (phi)
9.4425	9.3596	2.6959	0.0435	0.3759			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.8031%	is larger than	4.9700	phi.
2.3692%	is larger than	5.3033	phi.
5.5817%	is larger than	5.6367	phi.
9.4768%	is larger than	5.9700	phi.
13.6129%	is larger than	6.3033	phi.
17.7891%	is larger than	6.6367	phi.
21.4496%	is larger than	6.9700	phi.
25.0739%	is larger than	7.3033	phi.
28.8794%	is larger than	7.6367	phi.
33.0836%	is larger than	7.9700	phi.
36.7804%	is larger than	8.3033	phi.
40.5859%	is larger than	8.6367	phi.
44.8989%	is larger than	8.9700	phi.
49.2843%	is larger than	9.3033	phi.
53.5247%	is larger than	9.6367	phi.
57.2215%	is larger than	9.9700	phi.
60.7864%	is larger than	10.3033	phi.
64.3513%	is larger than	10.6367	phi.
67.9161%	is larger than	10.9700	phi.
71.4810%	is larger than	11.3033	phi.
75.0459%	is larger than	11.6367	phi.
78.6108%	is larger than	11.9700	phi.
82.1756%	is larger than	12.3033	phi.
85.7405%	is larger than	12.6367	phi.
89.3054%	is larger than	12.9700	phi.
92.8703%	is larger than	13.3033	phi.
96.4351%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_1_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 4.1
 V-COARSE SAND - 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 29.0
 CLAY _____ 66.9

Graphic Measures

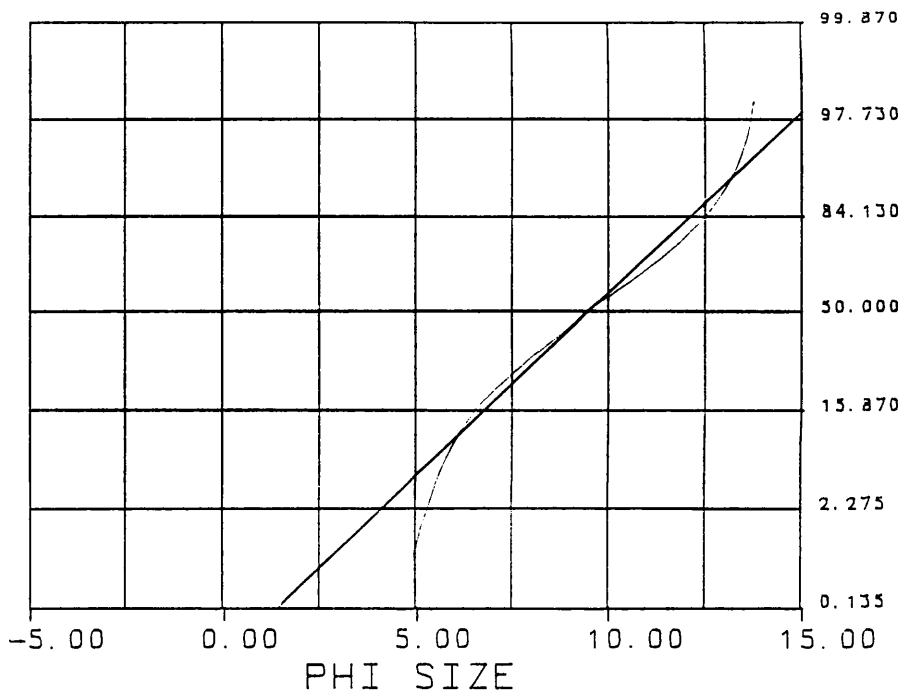
MEDIAN _____ 9.320
 MEAN _____ 9.399
 STD. DEVIATION- 2.666
 INC. SKEWNESS- 0.042
 INC. KURTOSIS- 0.375

Moment Measures

1st MOMENT _____ 9.407
 2nd MOMENT _____ 2.512
 3rd MOMENT _____ 0.044
 4th MOMENT _____ 1.848

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

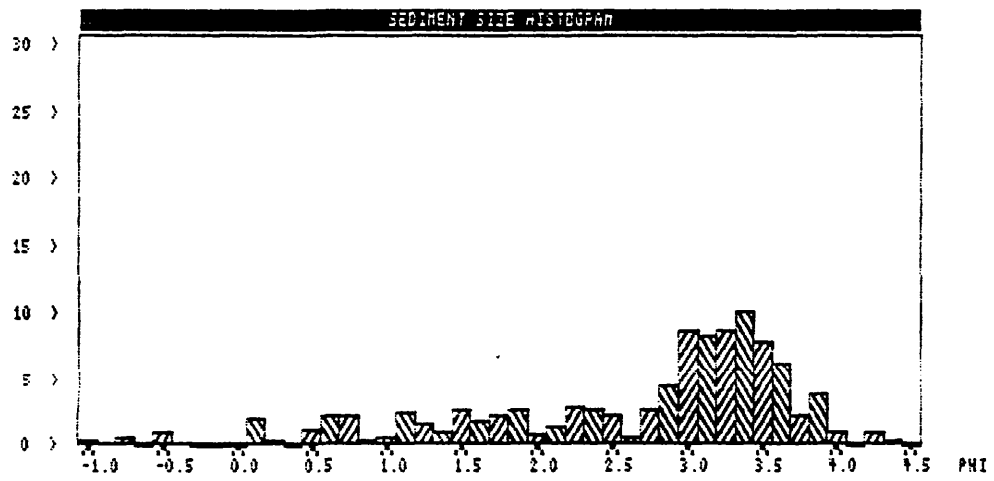
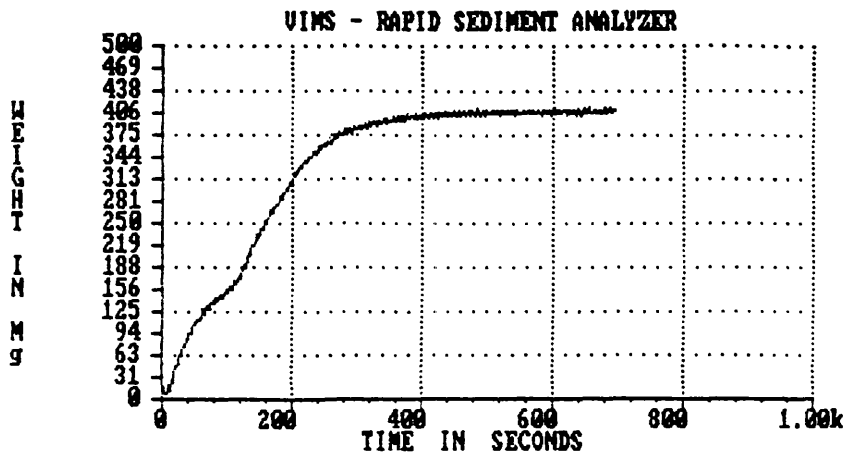
M_1_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
658.5465 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
2.5781 1.1001 -1.1436 3.6134 M1 M2 M3 M4 (phi)
2.6156 2.9885 1.0330 -0.5293 0.5358 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	1.4495	0.3566	1.4495	0.3566
-0.8750	1.8340	18.9156	0.7778	0.1913	2.2273	0.5479
-0.7500	1.6818	17.7631	2.4992	0.6148	4.7265	1.1628
-0.6250	1.5422	16.6582	0.0000	0.0000	4.7265	1.1628
-0.5000	1.4142	15.6003	3.7644	0.9261	8.4908	2.0889
-0.3750	1.2968	14.5884	0.4082	0.1004	8.8991	2.1893
-0.2500	1.1892	13.6217	0.0000	0.0000	8.8991	2.1893
-0.1250	1.0905	12.6995	0.0000	0.0000	8.8991	2.1893
0.0000	1.0000	11.8208	0.0000	0.0000	8.8991	2.1893
0.1250	0.9170	10.9848	8.0598	1.9828	16.9589	4.1721
0.2500	0.8409	10.1905	1.3255	0.3261	18.2844	4.4982
0.3750	0.7711	9.4370	0.0000	0.0000	18.2844	4.4982
0.5000	0.7071	8.7233	4.9623	1.2208	23.2467	5.7190
0.6250	0.6484	8.0484	8.7641	2.1561	32.0108	7.8751
0.7500	0.5946	7.4111	8.9046	2.1906	40.9154	10.0657
0.8750	0.5453	6.8104	1.7646	0.4341	42.6800	10.4998
1.0000	0.5000	6.2452	2.2368	0.5503	44.9168	11.0501
1.1250	0.4585	5.7143	9.7106	2.3889	54.6274	13.4390
1.2500	0.4204	5.2167	6.0370	1.4852	60.6644	14.9242
1.3750	0.3856	4.7510	3.8191	0.9395	64.4835	15.8638
1.5000	0.3536	4.3163	10.2277	2.5161	74.7112	18.3799
1.6250	0.3242	3.9113	7.4741	1.8387	82.1853	20.2186
1.7500	0.2973	3.5349	8.9405	2.1995	91.1257	22.4181
1.8750	0.2726	3.1860	10.2962	2.5330	101.4220	24.9511
2.0000	0.2500	2.8634	2.9855	0.7345	104.4075	25.6856
2.1250	0.2293	2.5660	5.5822	1.3733	109.9897	27.0588
2.2500	0.2102	2.2927	11.2333	2.7635	121.2230	29.8224
2.3750	0.1928	2.0423	10.1786	2.5041	131.4016	32.3265
2.5000	0.1768	1.8137	9.2503	2.2757	140.6519	34.6021
2.6250	0.1621	1.6058	2.4099	0.5929	143.0618	35.1950
2.7500	0.1487	1.4175	10.4144	2.5621	153.4762	37.7571
2.8750	0.1363	1.2476	17.8304	4.3865	171.3066	42.1436
3.0000	0.1250	1.0949	35.1620	8.6503	206.4686	50.7939
3.1250	0.1146	0.9582	33.2653	8.1837	239.7339	58.9776
3.2500	0.1051	0.8364	35.0114	8.6132	274.7453	67.5908
3.3750	0.0964	0.7282	40.5983	9.9877	315.3436	77.5785
3.5000	0.0884	0.6326	32.1344	7.9055	347.4780	85.4840
3.6250	0.0811	0.5484	25.0638	6.1660	372.5418	91.6500
3.7500	0.0743	0.4744	9.0226	2.2197	381.5645	93.8697
3.8750	0.0682	0.4098	15.2697	3.7565	396.8342	97.6262
4.0000	0.0625	0.3533	3.9691	0.9764	400.8033	98.6027
4.1250	0.0573	0.3043	0.0000	0.0000	400.8033	98.6027
4.2500	0.0526	0.2617	3.7295	0.9175	404.5328	99.5202
4.3750	0.0482	0.2248	1.7502	0.4306	406.2830	99.9508
4.5000	0.0442	0.1930	0.2002	0.0492	406.4832	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_1_C

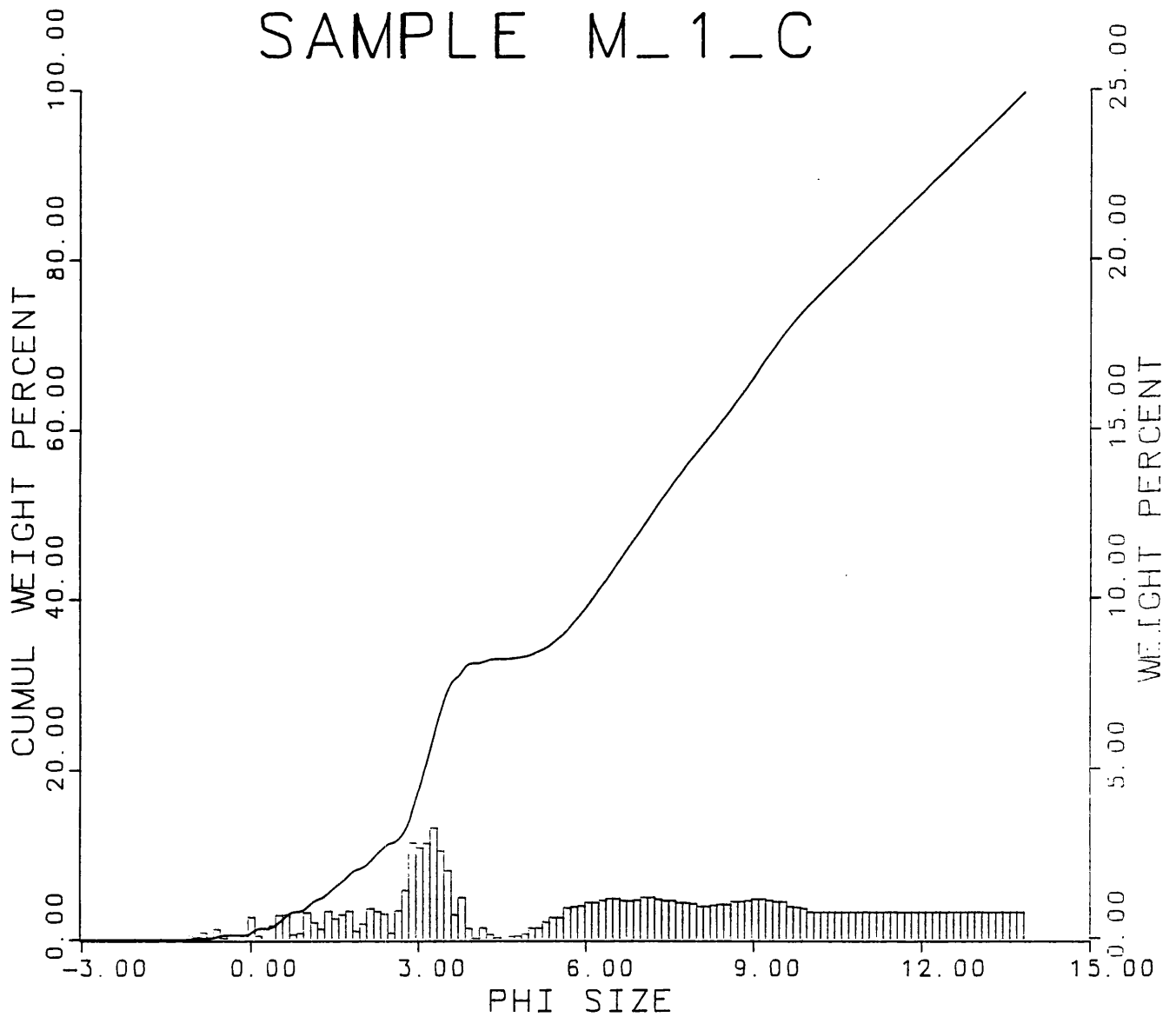


Coulter data
This data corresponds to file M_1_C.3rd

9.2880	2.4816	0.1840	1.8993	M1	M2	M3	M4 (phi)
9.3078	9.0811	2.6224	0.1212	0.3774	Mz,	Md,	SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.1351%	is larger than	4.3033	phi.
0.1351%	is larger than	4.6367	phi.
0.5855%	is larger than	4.9700	phi.
1.9367%	is larger than	5.3033	phi.
4.5040%	is larger than	5.6367	phi.
8.3324%	is larger than	5.9700	phi.
12.7013%	is larger than	6.3033	phi.
17.5206%	is larger than	6.6367	phi.
22.0579%	is larger than	6.9700	phi.
27.0076%	is larger than	7.3033	phi.
31.5908%	is larger than	7.6367	phi.
35.8989%	is larger than	7.9700	phi.
39.7945%	is larger than	8.3033	phi.
43.9194%	is larger than	8.6367	phi.
48.4108%	is larger than	8.9700	phi.
53.1773%	is larger than	9.3033	phi.
57.6229%	is larger than	9.6367	phi.
61.4269%	is larger than	9.9700	phi.
64.6413%	is larger than	10.3033	phi.
67.8557%	is larger than	10.6367	phi.
71.0702%	is larger than	10.9700	phi.
74.2846%	is larger than	11.3033	phi.
77.4990%	is larger than	11.6367	phi.
80.7134%	is larger than	11.9700	phi.
83.9279%	is larger than	12.3033	phi.
87.1423%	is larger than	12.6367	phi.
90.3567%	is larger than	12.9700	phi.
93.5711%	is larger than	13.3033	phi.
96.7856%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_1_C



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Grass Parameters (%)

GRAVEL ——— 1.4
 SAND ——— 32.5
 V-COARSE SAND — 0.6
 COARSE SAND — 2.9
 MEDIUM SAND — 4.8
 FINE SAND — 8.3
 V-FINE SAND — 15.8
 SILT ——— 24.7
 CLAY ——— 41.4

Graphic Measures

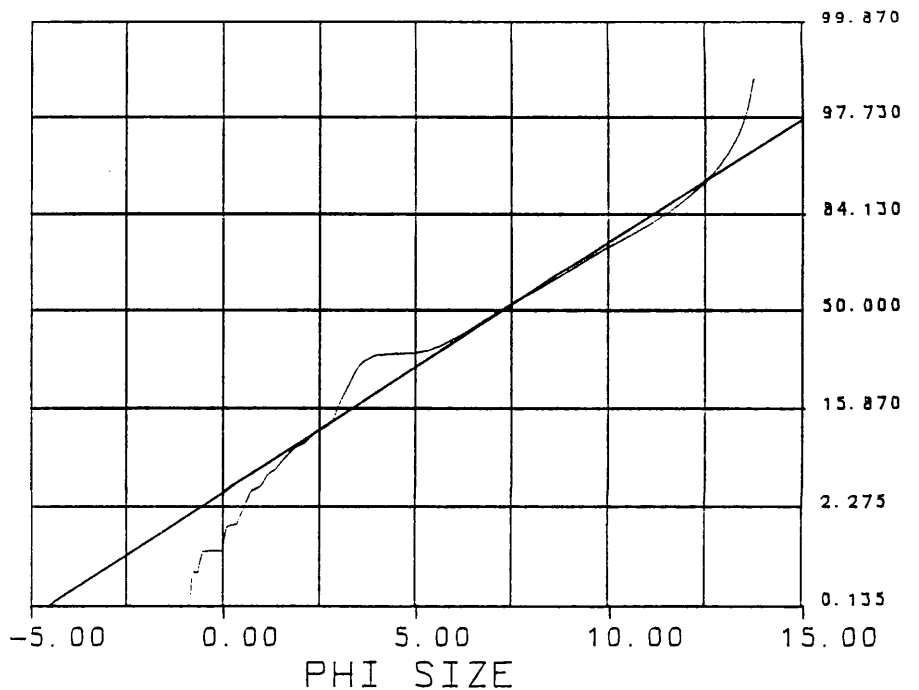
MEDIAN ——— 7.165
 MEAN ——— 7.181
 STD. DEVIATION — 3.906
 INC. SKEWNESS — 0.005
 INC. KURTOSIS — 0.560

Moment Measures

1st MOMENT ——— 7.034
 2nd MOMENT ——— 3.779
 3rd MOMENT ——— 0.010
 4th MOMENT ——— 1.891

DATE: 12-09-92

PROBABILITY CURVE



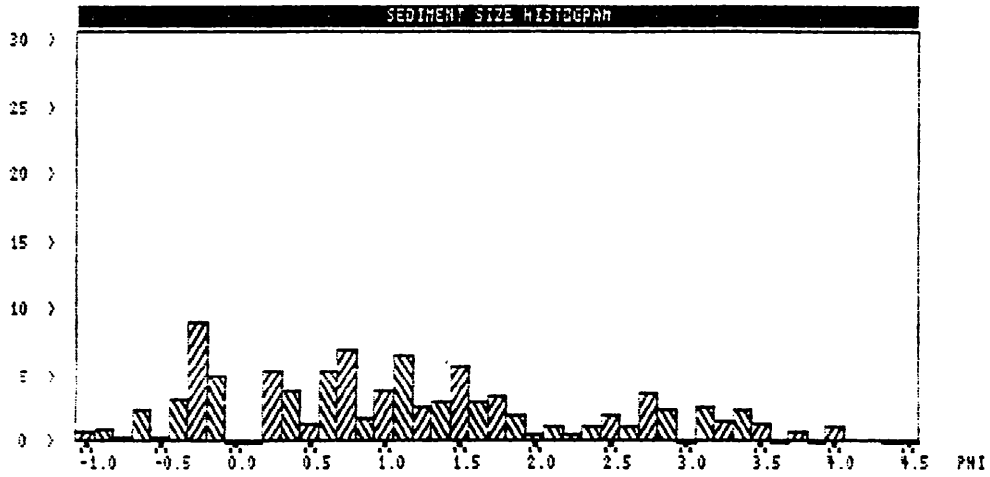
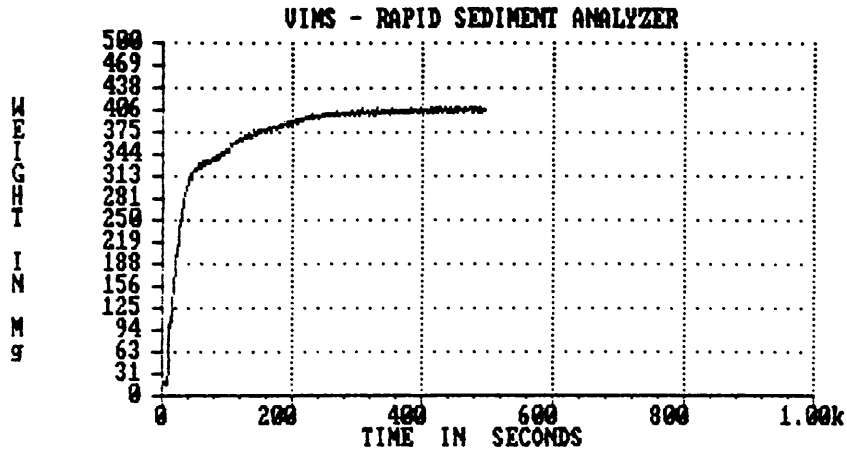
GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

M_2_A

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
654.2372 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
1.0844 1.2078 0.4684 2.4067 M1 M2 M3 M4 (phi)
1.1082 0.9638 1.3031 0.1879 0.9402 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	3.1497	0.8020	3.1497	0.8020
-0.8750	1.8340	18.9156	4.0201	1.0236	7.1698	1.8256
-0.7500	1.6818	17.7631	1.7438	0.4440	8.9136	2.2696
-0.6250	1.5422	16.6582	9.7154	2.4737	18.6290	4.7433
-0.5000	1.4142	15.6003	1.1381	0.2898	19.7671	5.0331
-0.3750	1.2968	14.5884	12.8875	3.2814	32.6545	8.3145
-0.2500	1.1892	13.6217	35.2471	8.9746	67.9016	17.2890
-0.1250	1.0905	12.6995	19.9462	5.0787	87.8477	22.3677
0.0000	1.0000	11.8208	0.0000	0.0000	87.8477	22.3677
0.1250	0.9170	10.9848	0.0000	0.0000	87.8477	22.3677
0.2500	0.8409	10.1905	21.1517	5.3856	108.9994	27.7533
0.3750	0.7711	9.4370	15.1770	3.8644	124.1765	31.6177
0.5000	0.7071	8.7233	5.6831	1.4470	129.8596	33.0647
0.6250	0.6484	8.0484	21.6481	5.5120	151.5077	38.5767
0.7500	0.5946	7.4111	27.4411	6.9870	178.9488	45.5638
0.8750	0.5453	6.8104	6.9573	1.7715	185.9062	47.3352
1.0000	0.5000	6.2452	14.7358	3.7520	200.6420	51.0872
1.1250	0.4585	5.7143	25.7279	6.5508	226.3698	57.6380
1.2500	0.4204	5.2167	10.0858	2.5680	236.4556	60.2061
1.3750	0.3856	4.7510	11.5380	2.9378	247.9936	63.1439
1.5000	0.3536	4.3163	22.7543	5.7937	270.7479	68.9375
1.6250	0.3242	3.9113	11.6563	2.9679	282.4042	71.9055
1.7500	0.2973	3.5349	13.0159	3.3141	295.4201	75.2195
1.8750	0.2726	3.1860	8.0927	2.0605	303.5127	77.2801
2.0000	0.2500	2.8634	1.9109	0.4865	305.4236	77.7666
2.1250	0.2293	2.5660	4.7698	1.2145	310.1935	78.9811
2.2500	0.2102	2.2927	2.3924	0.6091	312.5858	79.5903
2.3750	0.1928	2.0423	4.8964	1.2467	317.4822	80.8370
2.5000	0.1768	1.8137	7.5716	1.9279	325.0539	82.7649
2.6250	0.1621	1.6058	4.4177	1.1248	329.4715	83.8897
2.7500	0.1487	1.4175	14.3612	3.6566	343.8327	87.5463
2.8750	0.1363	1.2476	9.3506	2.3808	353.1833	89.9272
3.0000	0.1250	1.0949	0.0000	0.0000	353.1833	89.9272
3.1250	0.1146	0.9582	9.8607	2.5107	363.0440	92.4379
3.2500	0.1051	0.8364	5.9429	1.5132	368.9869	93.9511
3.3750	0.0964	0.7282	9.1050	2.3183	378.0919	96.2694
3.5000	0.0884	0.6326	5.5850	1.4221	383.6769	97.6914
3.6250	0.0811	0.5484	0.0000	0.0000	383.6769	97.6914
3.7500	0.0743	0.4744	2.9510	0.7514	386.6279	98.4428
3.8750	0.0682	0.4098	0.0000	0.0000	386.6279	98.4428
4.0000	0.0625	0.3533	4.9022	1.2482	391.5302	99.6910
4.1250	0.0573	0.3043	0.9063	0.2308	392.4365	99.9218
4.2500	0.0526	0.2617	0.3073	0.0782	392.7438	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	392.7438	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	392.7438	100.0000

* - fall velocity of natural grains in fresh water at 20oC



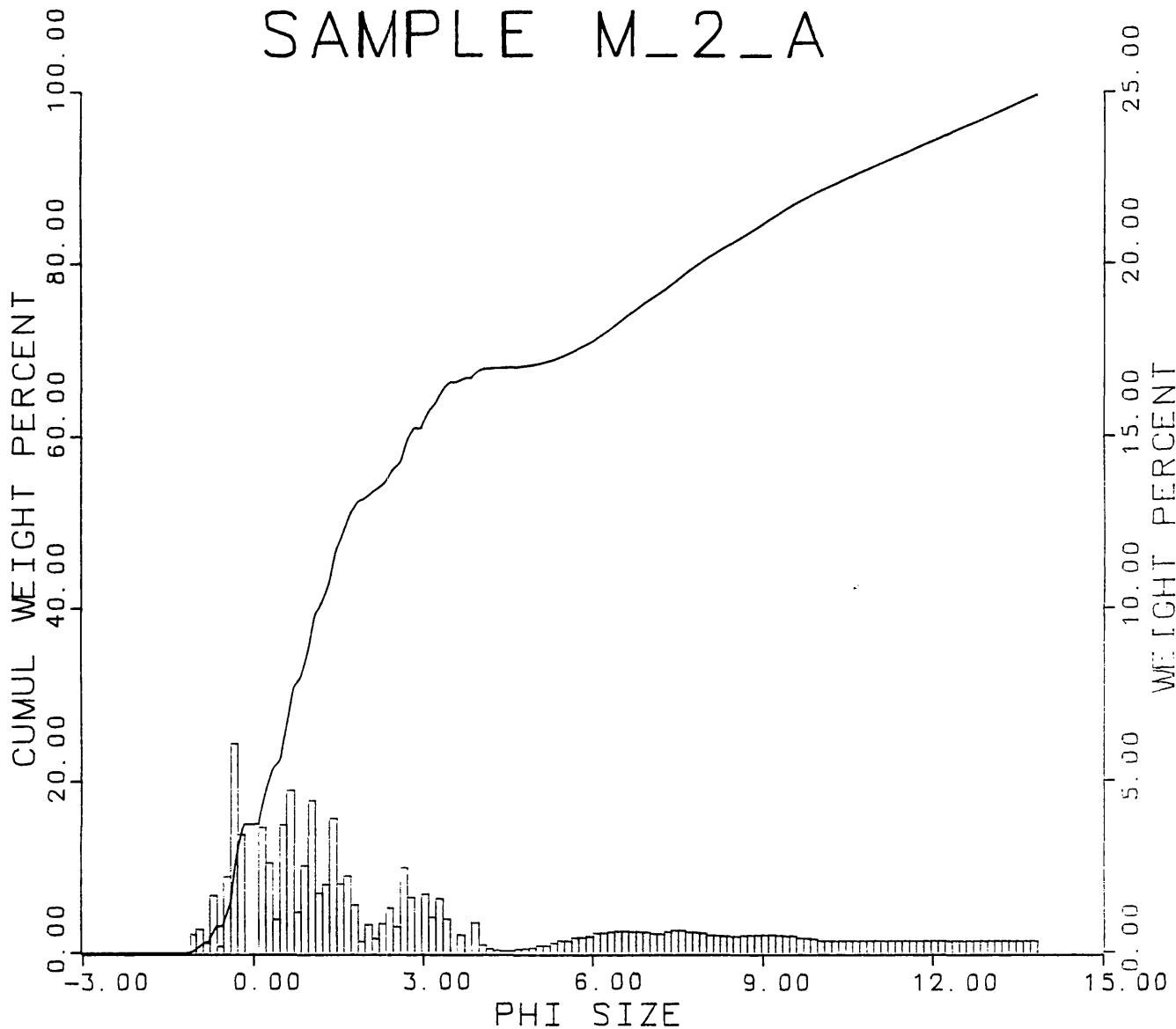
Coulter data

This data corresponds to file M_2_A.3rd

9.1239	2.5061	0.2373	1.9549	M1	M2	M3	M4 (phi)
9.1571	8.8459	2.6377	0.1608	0.3880		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.5229%	is larger than	4.3033	phi.
0.6180%	is larger than	4.6367	phi.
1.4261%	is larger than	4.9700	phi.
3.0424%	is larger than	5.3033	phi.
5.8470%	is larger than	5.6367	phi.
9.4599%	is larger than	5.9700	phi.
14.1185%	is larger than	6.3033	phi.
19.2525%	is larger than	6.6367	phi.
24.2480%	is larger than	6.9700	phi.
28.7931%	is larger than	7.3033	phi.
34.1161%	is larger than	7.6367	phi.
39.0297%	is larger than	7.9700	phi.
43.2472%	is larger than	8.3033	phi.
47.3010%	is larger than	8.6367	phi.
51.6004%	is larger than	8.9700	phi.
56.0226%	is larger than	9.3033	phi.
60.1992%	is larger than	9.6367	phi.
63.8434%	is larger than	9.9700	phi.
66.8565%	is larger than	10.3033	phi.
69.8695%	is larger than	10.6367	phi.
72.8826%	is larger than	10.9700	phi.
75.8956%	is larger than	11.3033	phi.
78.9087%	is larger than	11.6367	phi.
81.9217%	is larger than	11.9700	phi.
84.9348%	is larger than	12.3033	phi.
87.9478%	is larger than	12.6367	phi.
90.9609%	is larger than	12.9700	phi.
93.9739%	is larger than	13.3033	phi.
96.9870%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_2_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 74.5
 SAND _____ 17.3
 V-COARSE SAND - 3.8
 COARSE SAND _____ 5.0
 MEDIUM SAND _____ 4.7
 FINE SAND _____ 2.1
 V-FINE SAND _____ 1.7
 SILT _____ 3.4
 CLAY _____ 4.8

Graphic Measures

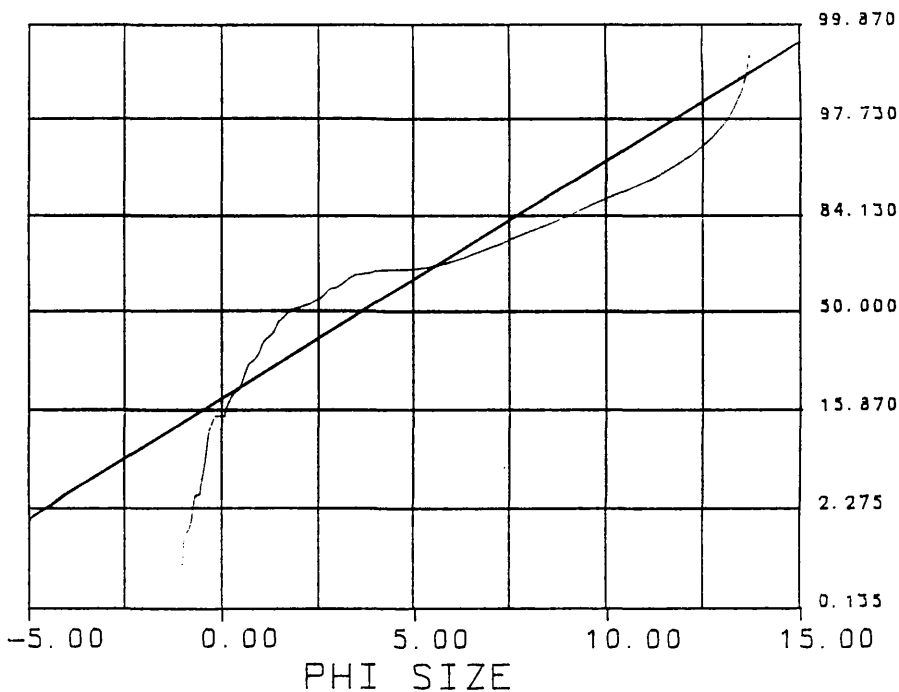
MEDIAN _____ 1.685
 MEAN _____ 3.549
 STD. DEVIATION- 4.069
 INC. SKEWNESS- 0.656
 INC. KURTOSIS- 0.786

Moment Measures

1st MOMENT _____ 3.641
 2nd MOMENT _____ 4.107
 3rd MOMENT _____ 0.957
 4th MOMENT _____ 2.612

DATE: 12-09-92

PROBABILITY CURVE



GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

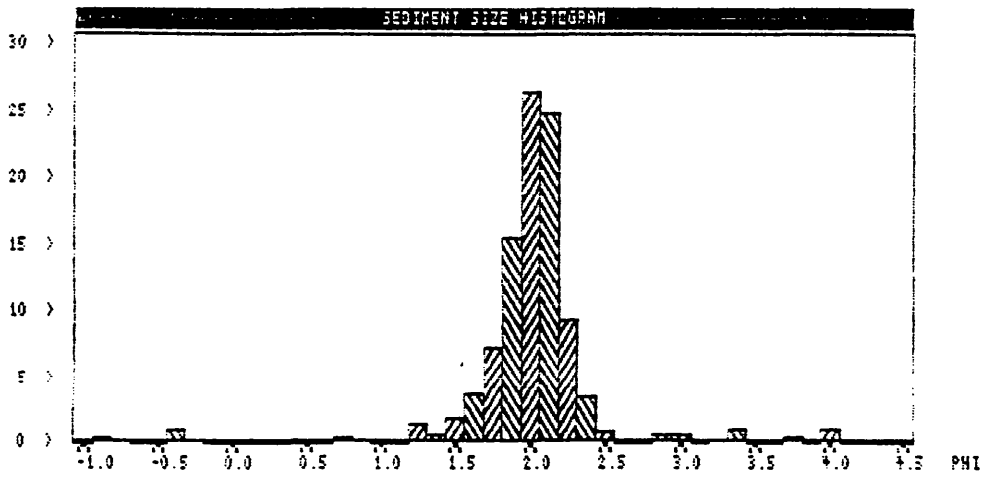
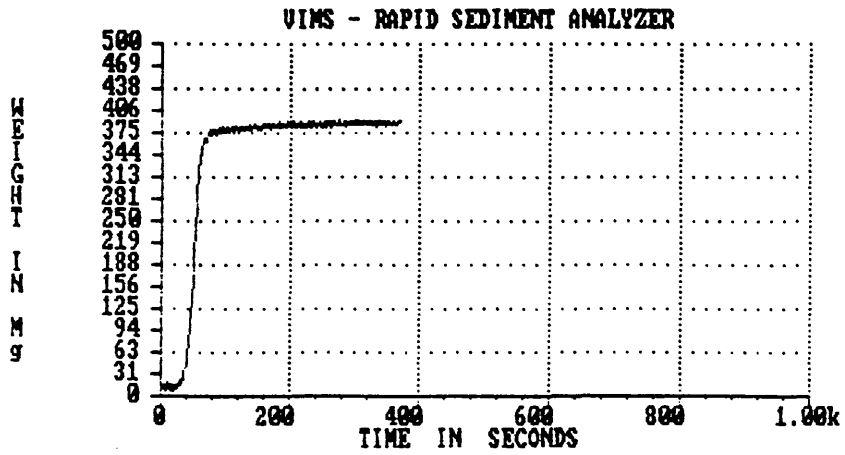
M_2_B

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 624.8552 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $W_n=0.977W_s^{0.913}$
 1.9365 0.4779 -1.3842 17.5232 M1 M2 M3 M4 (phi)
 1.9444 1.9600 0.2387 -0.1364 0.2795 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	1.5817	0.4102	1.5817	0.4102
-0.7500	1.6818	17.7631	0.6316	0.1638	2.2133	0.5740
-0.6250	1.5422	16.6582	0.0000	0.0000	2.2133	0.5740
-0.5000	1.4142	15.6003	0.0000	0.0000	2.2133	0.5740
-0.3750	1.2968	14.5884	3.3657	0.8728	5.5790	1.4468
-0.2500	1.1892	13.6217	0.2969	0.0770	5.8760	1.5238
-0.1250	1.0905	12.6995	0.0000	0.0000	5.8760	1.5238
0.0000	1.0000	11.8208	0.0000	0.0000	5.8760	1.5238
0.1250	0.9170	10.9848	0.0000	0.0000	5.8760	1.5238
0.2500	0.8409	10.1905	0.0000	0.0000	5.8760	1.5238
0.3750	0.7711	9.4370	0.0000	0.0000	5.8760	1.5238
0.5000	0.7071	8.7233	0.0000	0.0000	5.8760	1.5238
0.6250	0.6484	8.0484	0.0000	0.0000	5.8760	1.5238
0.7500	0.5946	7.4111	1.6887	0.4379	7.5646	1.9617
0.8750	0.5453	6.8104	0.9975	0.2587	8.5622	2.2204
1.0000	0.5000	6.2452	0.0000	0.0000	8.5622	2.2204
1.1250	0.4585	5.7143	0.0000	0.0000	8.5622	2.2204
1.2500	0.4204	5.2167	5.2671	1.3659	13.8293	3.5864
1.3750	0.3856	4.7510	2.5007	0.6485	16.3299	4.2349
1.5000	0.3536	4.3163	6.4697	1.6778	22.7996	5.9127
1.6250	0.3242	3.9113	14.1738	3.6757	36.9734	9.5884
1.7500	0.2973	3.5349	27.8360	7.2187	64.8094	16.8071
1.8750	0.2726	3.1860	59.1255	15.3331	123.9350	32.1402
2.0000	0.2500	2.8634	101.2573	26.2592	225.1923	58.3994
2.1250	0.2293	2.5660	95.2136	24.6919	320.4059	83.0912
2.2500	0.2102	2.2927	35.9628	9.3263	356.3687	92.4175
2.3750	0.1928	2.0423	13.0324	3.3797	369.4011	95.7972
2.5000	0.1768	1.8137	2.8738	0.7453	372.2749	96.5425
2.6250	0.1621	1.6058	0.0000	0.0000	372.2749	96.5425
2.7500	0.1487	1.4175	0.0000	0.0000	372.2749	96.5425
2.8750	0.1363	1.2476	2.1597	0.5601	374.4346	97.1026
3.0000	0.1250	1.0949	1.9362	0.5021	376.3708	97.6047
3.1250	0.1146	0.9582	0.0000	0.0000	376.3708	97.6047
3.2500	0.1051	0.8364	0.9720	0.2521	377.3428	97.8568
3.3750	0.0964	0.7282	3.7402	0.9700	381.0831	98.8267
3.5000	0.0884	0.6326	0.0000	0.0000	381.0831	98.8267
3.6250	0.0811	0.5484	0.0000	0.0000	381.0831	98.8267
3.7500	0.0743	0.4744	1.0119	0.2624	382.0950	99.0891
3.8750	0.0682	0.4098	0.0000	0.0000	382.0950	99.0891
4.0000	0.0625	0.3533	3.5124	0.9109	385.6073	100.0000
4.1250	0.0573	0.3043	0.0000	0.0000	385.6073	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	385.6073	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	385.6073	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	385.6073	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_2_B



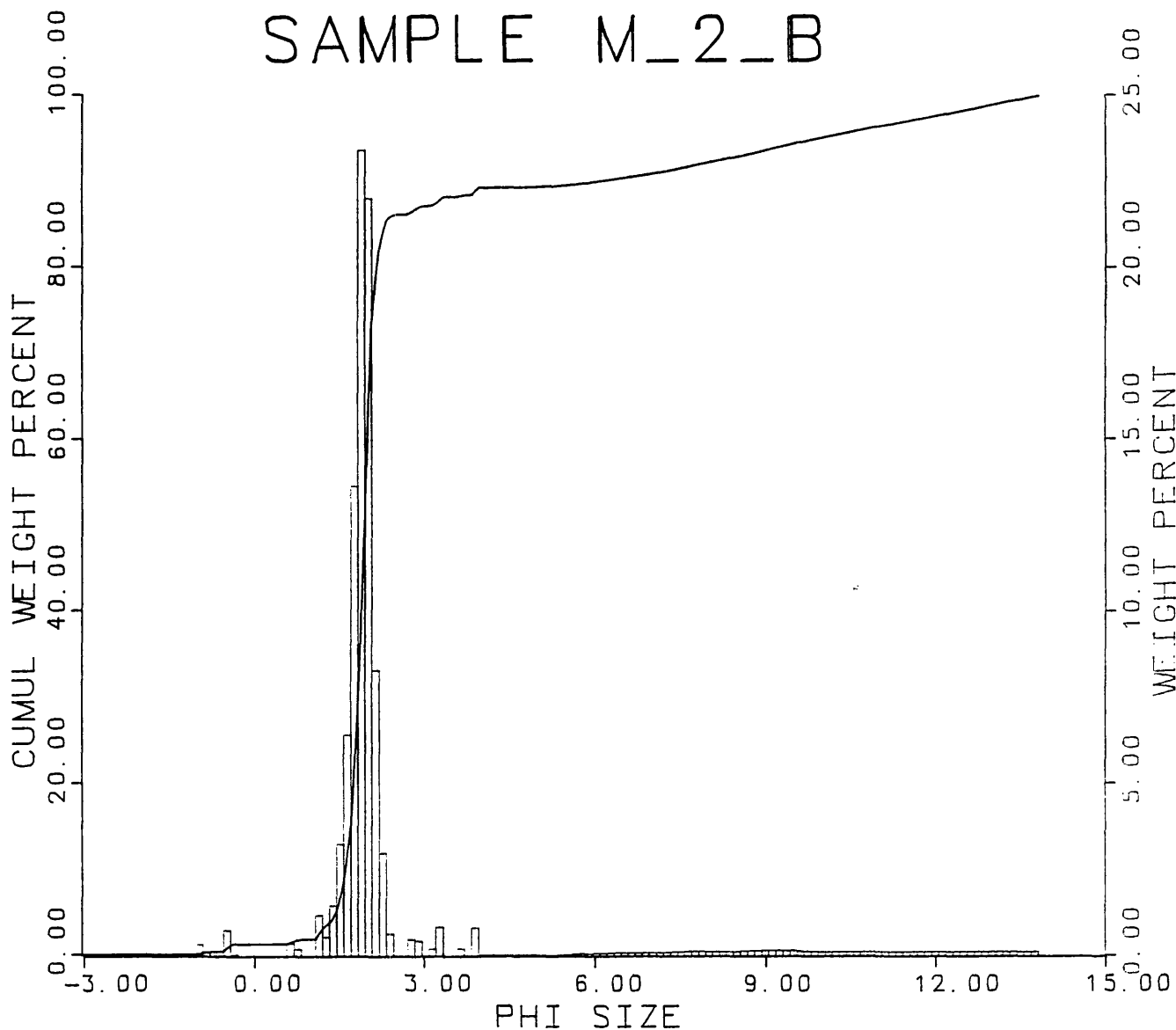
Coulter data

This data corresponds to file M_2_B.3rd

9.7294 2.4293 -0.0412 1.9767 M1 M2 M3 M4 (phi)
9.7611 9.6940 2.5780 0.0130 0.3692 Mz, Md, SI, SKI, KG

0.2826% is larger than 3.9700 phi.
0.5298% is larger than 4.3033 phi.
0.7065% is larger than 4.6367 phi.
1.1657% is larger than 4.9700 phi.
2.1900% is larger than 5.3033 phi.
4.0268% is larger than 5.6367 phi.
6.4641% is larger than 5.9700 phi.
9.2899% is larger than 6.3033 phi.
12.5043% is larger than 6.6367 phi.
15.7656% is larger than 6.9700 phi.
19.0897% is larger than 7.3033 phi.
22.9154% is larger than 7.6367 phi.
27.1489% is larger than 7.9700 phi.
31.0687% is larger than 8.3033 phi.
35.0827% is larger than 8.6367 phi.
39.6297% is larger than 8.9700 phi.
44.5217% is larger than 9.3033 phi.
49.2882% is larger than 9.6367 phi.
53.4276% is larger than 9.9700 phi.
57.3087% is larger than 10.3033 phi.
61.1897% is larger than 10.6367 phi.
65.0707% is larger than 10.9700 phi.
68.9517% is larger than 11.3033 phi.
72.8328% is larger than 11.6367 phi.
76.7138% is larger than 11.9700 phi.
80.5948% is larger than 12.3033 phi.
84.4759% is larger than 12.6367 phi.
88.3569% is larger than 12.9700 phi.
92.2379% is larger than 13.3033 phi.
96.1190% is larger than 13.6367 phi.
100.0000% is larger than 13.9700 phi.

SAMPLE M_2_B



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Gross Parameters (%)

GRAVEL _____ 2.5
 SAND _____ 87.0
 V-COARSE SAND — 1.3
 COARSE SAND — 0.6
 MEDIUM SAND — 48.9
 FINE SAND — 34.1
 V-FINE SAND — 2.1
 SILT _____ 2.5
 CLAY _____ 8.0

Graphic Measures

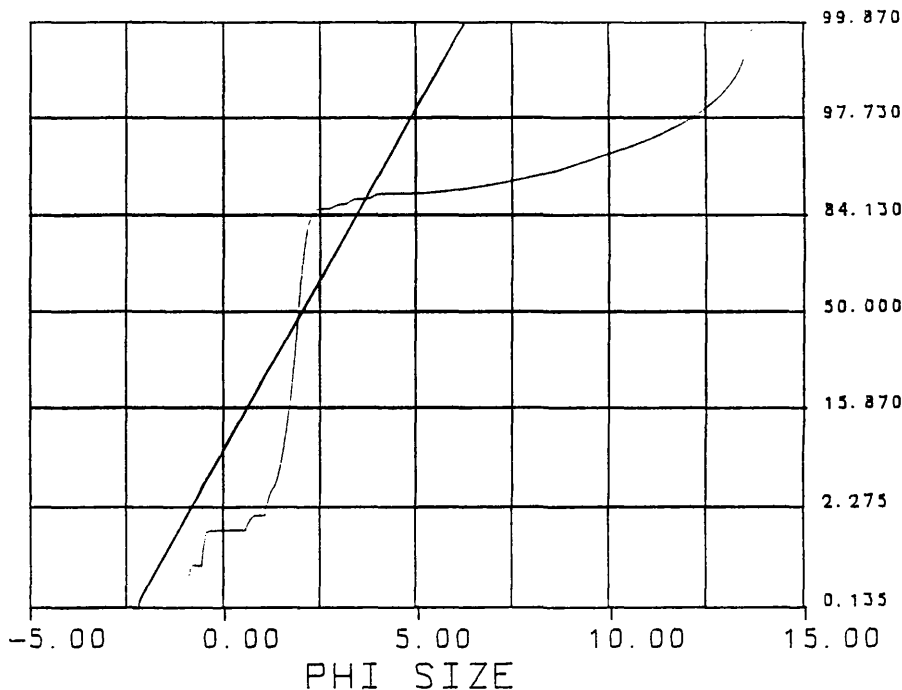
MEDIAN _____ 1.988
 MEAN _____ 2.019
 STD. DEVIATION— 1.414
 INC. SKEWNESS— 0.522
 INC. KURTOSIS— 2.497

Moment Measures

1st MOMENT _____ 2.764
 2nd MOMENT _____ 2.562
 3rd MOMENT _____ 2.809
 4th MOMENT _____ 10.039

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

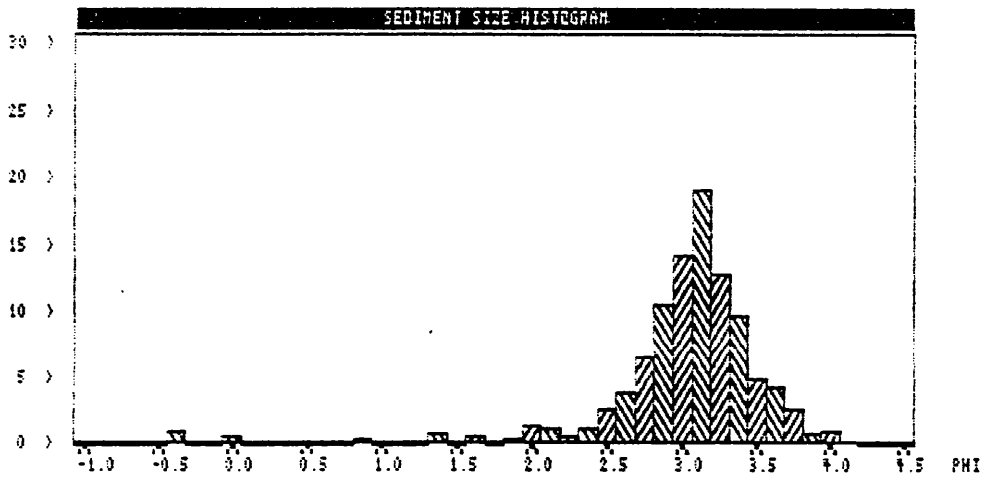
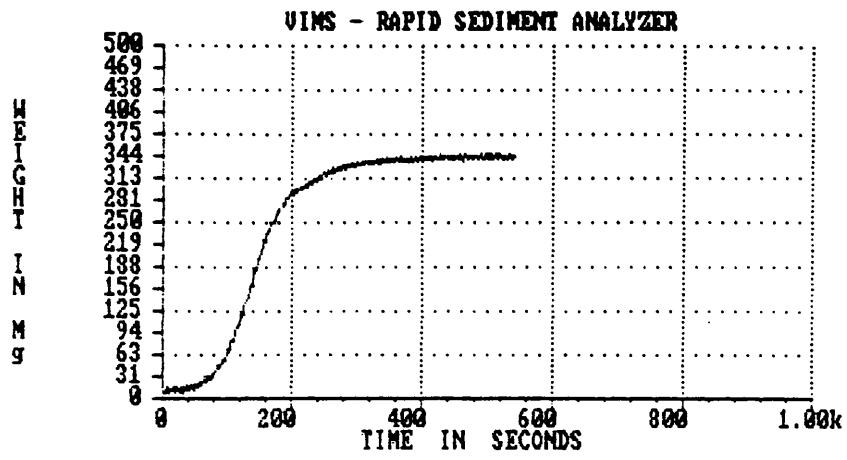
M_2_C

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
548.4623 Dry Sand Fraction Weight (mg)
2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
2.9467 0.5761 -2.9164 16.2953 M1 M2 M3 M4 (phi)
3.0113 3.0320 0.4126 -0.1839 0.3141 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.8340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.0000	0.0000	0.0000	0.0000
-0.6250	1.5422	16.6582	0.0000	0.0000	0.0000	0.0000
-0.5000	1.4142	15.6003	0.0000	0.0000	0.0000	0.0000
-0.3750	1.2968	14.5884	2.9678	0.8783	2.9678	0.8783
-0.2500	1.1892	13.6217	0.0000	0.0000	2.9678	0.8783
-0.1250	1.0905	12.6995	0.0000	0.0000	2.9678	0.8783
0.0000	1.0000	11.8208	1.7123	0.5068	4.6801	1.3851
0.1250	0.9170	10.9848	0.0000	0.0000	4.6801	1.3851
0.2500	0.8409	10.1905	0.0000	0.0000	4.6801	1.3851
0.3750	0.7711	9.4370	0.0000	0.0000	4.6801	1.3851
0.5000	0.7071	8.7233	0.0000	0.0000	4.6801	1.3851
0.6250	0.6484	8.0484	0.0000	0.0000	4.6801	1.3851
0.7500	0.5946	7.4111	0.0000	0.0000	4.6801	1.3851
0.8750	0.5453	6.8104	1.4059	0.4161	6.0860	1.8011
1.0000	0.5000	6.2452	0.0000	0.0000	6.0860	1.8011
1.1250	0.4585	5.7143	0.0000	0.0000	6.0860	1.8011
1.2500	0.4204	5.2167	0.0000	0.0000	6.0860	1.8011
1.3750	0.3856	4.7510	2.5794	0.7634	8.6654	2.5645
1.5000	0.3536	4.3163	0.0000	0.0000	8.6654	2.5645
1.6250	0.3242	3.9113	1.5695	0.4645	10.2349	3.0290
1.7500	0.2973	3.5349	0.0000	0.0000	10.2349	3.0290
1.8750	0.2726	3.1860	1.3984	0.4139	11.6333	3.4429
2.0000	0.2500	2.8634	4.8504	1.4355	16.4838	4.8784
2.1250	0.2293	2.5660	4.0801	1.2075	20.5638	6.0858
2.2500	0.2102	2.2927	1.9539	0.5783	22.5177	6.6641
2.3750	0.1928	2.0423	4.1851	1.2386	26.7029	7.9027
2.5000	0.1768	1.8137	8.3910	2.4833	35.0939	10.3860
2.6250	0.1621	1.6058	12.9917	3.8449	48.0856	14.2309
2.7500	0.1487	1.4175	21.5839	6.3877	69.6695	20.6186
2.8750	0.1363	1.2476	35.5156	10.5108	105.1851	31.1294
3.0000	0.1250	1.0949	47.3100	14.0013	152.4951	45.1307
3.1250	0.1146	0.9582	64.3201	19.0354	216.8151	64.1662
3.2500	0.1051	0.8364	42.8043	12.6679	259.6194	76.8340
3.3750	0.0964	0.7282	32.7790	9.7009	292.3984	86.5349
3.5000	0.0884	0.6326	16.1063	4.7666	308.5048	91.3016
3.6250	0.0811	0.5484	14.3004	4.2322	322.8052	95.5338
3.7500	0.0743	0.4744	8.9862	2.6594	331.7914	98.1932
3.8750	0.0682	0.4098	2.5504	0.7548	334.3417	98.9480
4.0000	0.0625	0.3533	3.3045	0.9780	337.6463	99.9260
4.1250	0.0573	0.3043	0.2501	0.0740	337.8964	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	337.8964	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	337.8964	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	337.8964	100.0000

* - fall velocity of natural grains in fresh water at 20oC

M_2_C



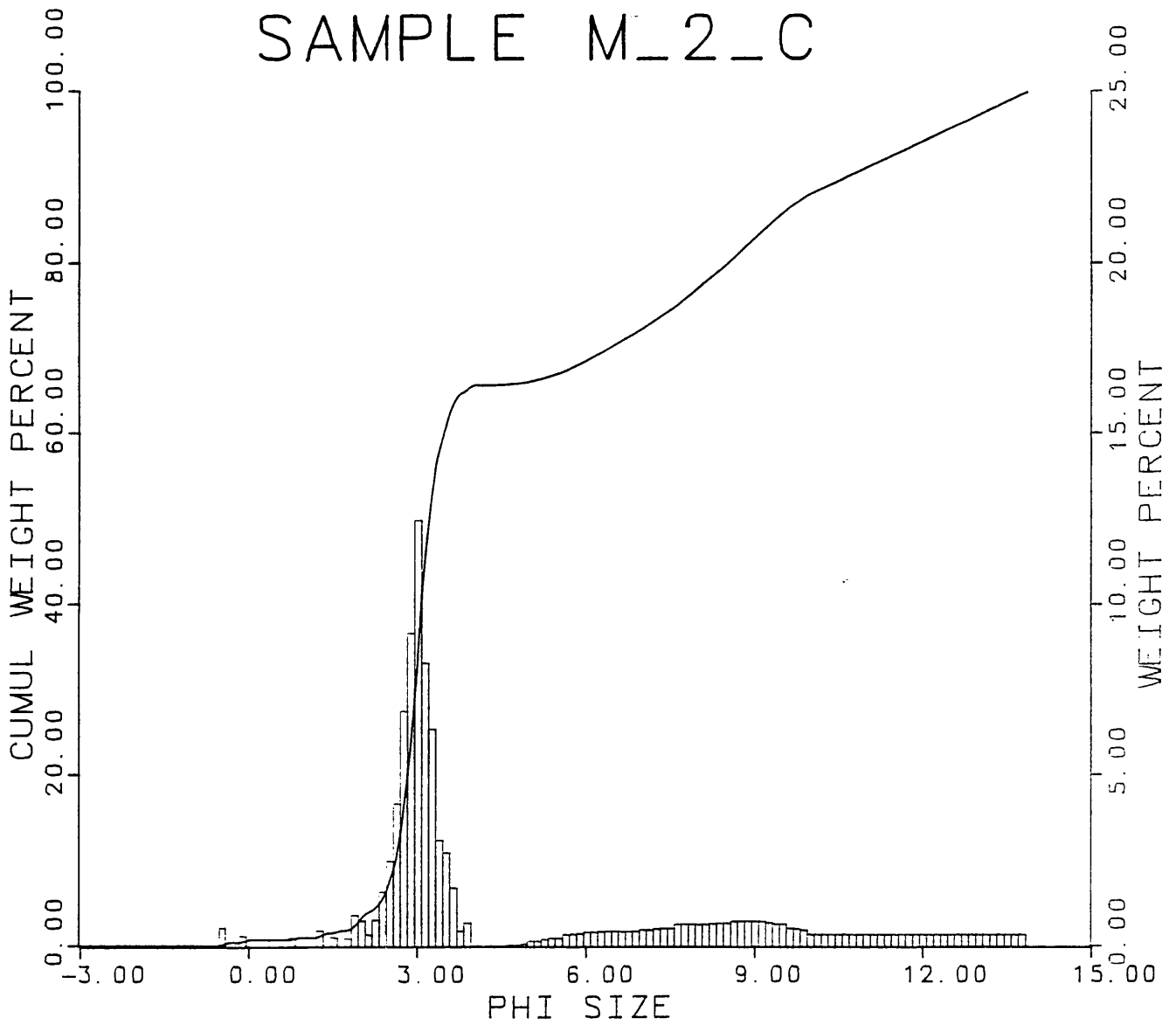
Coulter data

This data corresponds to file M_2_C.3rd

9.2577	2.3688	0.2397	2.1190	M1	M2	M3	M4 (phi)
9.2988	9.0193	2.5373	0.1424	0.3933		Mz, Md, SI, SKI, KG	

0.2532%	is larger than	3.9700	phi.
0.2532%	is larger than	4.3033	phi.
0.5486%	is larger than	4.6367	phi.
1.1816%	is larger than	4.9700	phi.
2.7009%	is larger than	5.3033	phi.
4.8953%	is larger than	5.6367	phi.
7.9338%	is larger than	5.9700	phi.
11.4365%	is larger than	6.3033	phi.
15.1503%	is larger than	6.6367	phi.
18.7805%	is larger than	6.9700	phi.
22.8053%	is larger than	7.3033	phi.
27.1852%	is larger than	7.6367	phi.
32.4727%	is larger than	7.9700	phi.
37.6813%	is larger than	8.3033	phi.
43.1660%	is larger than	8.6367	phi.
49.1243%	is larger than	8.9700	phi.
55.0432%	is larger than	9.3033	phi.
60.3307%	is larger than	9.6367	phi.
64.5922%	is larger than	9.9700	phi.
67.5429%	is larger than	10.3033	phi.
70.4935%	is larger than	10.6367	phi.
73.4442%	is larger than	10.9700	phi.
76.3948%	is larger than	11.3033	phi.
79.3455%	is larger than	11.6367	phi.
82.2961%	is larger than	11.9700	phi.
85.2468%	is larger than	12.3033	phi.
88.1974%	is larger than	12.6367	phi.
91.1481%	is larger than	12.9700	phi.
94.0987%	is larger than	13.3033	phi.
97.0494%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_2_C



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 0.1
 SAND ——— 65.5
 V-COARSE SAND — 0.9
 COARSE SAND — 0.3
 MEDIUM SAND — 2.0
 FINE SAND — 26.3
 V-FINE SAND — 36.0
 SILT ——— 14.7
 CLAY ——— 19.7

Graphic Measures

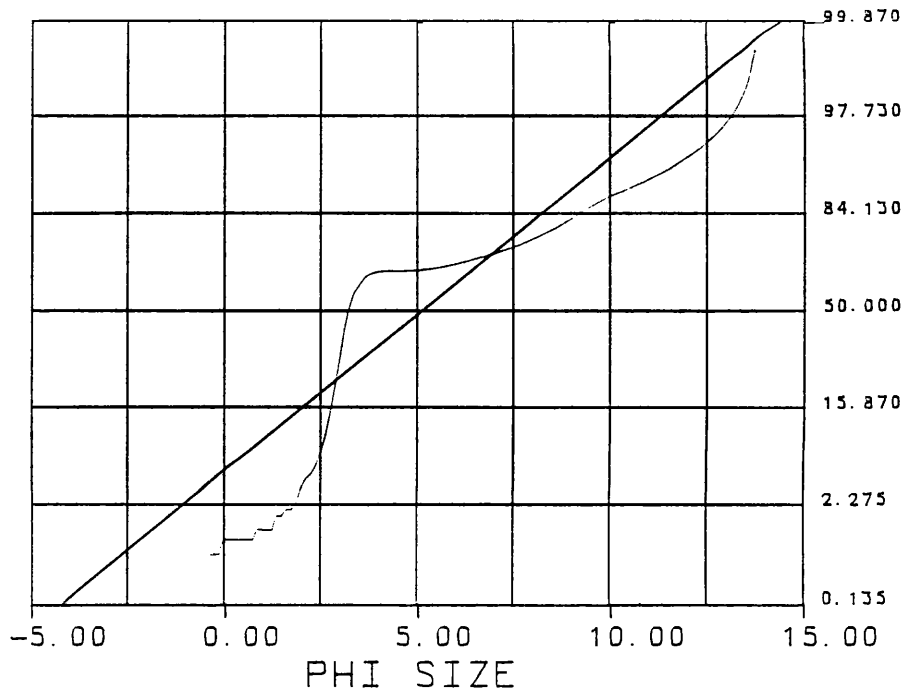
MEDIAN ——— 3.242
 MEAN ——— 5.072
 STD. DEVIATION — 3.095
 INC. SKEWNESS — 0.839
 INC. KURTOSIS — 0.634

Moment Measures

1st MOMENT ——— 5.098
 2nd MOMENT ——— 3.317
 3rd MOMENT ——— 1.102
 4th MOMENT ——— 2.934

DATE: 12-09-92

PROBABILITY CURVE



OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

M_3_A

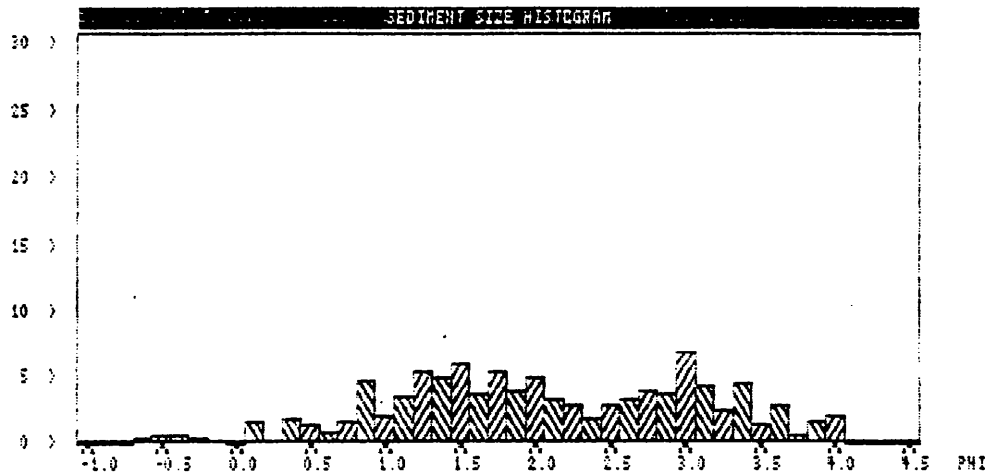
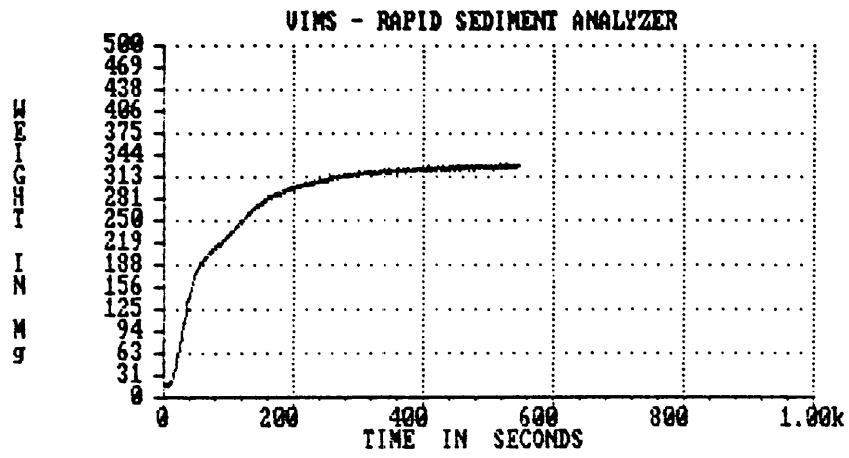
much plant material

0.0 0.0 0.00 Lat Lon Depth(m) Operator: SD
 523.7815 Dry Sand Fraction Weight (mg)
 2.65 Grain density /Natural Grain Fall Time using $Wn=0.977Ws^{0.913}$
 1.9987 1.0292 -0.1551 2.3743 M1 M2 M3 M4 (phi)
 2.0053 1.9254 1.0231 0.0637 0.5627 Mz,Md,SI,SKI,KG

Size(phi)	Size(mm)	Wn(cm/s)*	Im.Wt(mg)	Im.Wt(%)	Cm.Wt(mg)	Cm.Wt(%)
-1.0000	2.0000	20.1167	0.0000	0.0000	0.0000	0.0000
-0.8750	1.9340	18.9156	0.0000	0.0000	0.0000	0.0000
-0.7500	1.6818	17.7631	0.1277	0.0411	0.1277	0.0411
-0.6250	1.5422	16.6582	1.3442	0.4328	1.4720	0.4739
-0.5000	1.4142	15.6003	1.8639	0.6001	3.3359	1.0740
-0.3750	1.2968	14.5884	2.0510	0.6604	5.3869	1.7344
-0.2500	1.1892	13.6217	1.0498	0.3380	6.4367	2.0724
-0.1250	1.0905	12.6995	0.6747	0.2172	7.1115	2.2897
0.0000	1.0000	11.8208	0.0000	0.0000	7.1115	2.2897
0.1250	0.9170	10.9848	5.1171	1.6475	12.2285	3.9372
0.2500	0.8409	10.1905	0.5629	0.1812	12.7914	4.1184
0.3750	0.7711	9.4370	5.4392	1.7512	18.2306	5.8697
0.5000	0.7071	8.7233	4.4781	1.4418	22.7087	7.3114
0.6250	0.6484	8.0484	2.6631	0.8574	25.3719	8.1689
0.7500	0.5946	7.4111	4.9065	1.5797	30.2784	9.7486
0.8750	0.5453	6.8104	14.0347	4.5187	44.3131	14.2673
1.0000	0.5000	6.2452	5.8484	1.8830	50.1615	16.1503
1.1250	0.4585	5.7143	10.8254	3.4854	60.9869	19.6357
1.2500	0.4204	5.2167	16.2498	5.2319	77.2367	24.8676
1.3750	0.3856	4.7510	14.8477	4.7805	92.0844	29.6481
1.5000	0.3536	4.3163	17.9370	5.7751	110.0214	35.4232
1.6250	0.3242	3.9113	11.3910	3.6675	121.4124	39.0907
1.7500	0.2973	3.5349	16.0273	5.1603	137.4397	44.2510
1.8750	0.2726	3.1860	11.9323	3.8418	149.3720	48.0928
2.0000	0.2500	2.8634	14.6993	4.7327	164.0713	52.8254
2.1250	0.2293	2.5660	10.0122	3.2236	174.0835	56.0490
2.2500	0.2102	2.2927	8.8704	2.8560	182.9539	58.9050
2.3750	0.1928	2.0423	5.2271	1.6830	188.1810	60.5880
2.5000	0.1768	1.8137	8.5180	2.7425	196.6991	63.3305
2.6250	0.1621	1.6058	9.9907	3.2167	206.6898	66.5472
2.7500	0.1487	1.4175	11.6095	3.7379	218.2993	70.2850
2.8750	0.1363	1.2476	11.2781	3.6312	229.5774	73.9162
3.0000	0.1250	1.0949	20.9602	6.7485	250.5376	80.6647
3.1250	0.1146	0.9582	12.8801	4.1470	263.4177	84.8116
3.2500	0.1051	0.8364	7.6056	2.4488	271.0233	87.2604
3.3750	0.0964	0.7282	13.6453	4.3933	284.6687	91.6537
3.5000	0.0884	0.6326	4.4651	1.4376	289.1337	93.0913
3.6250	0.0811	0.5484	8.9510	2.8819	298.0848	95.9733
3.7500	0.0743	0.4744	1.8111	0.5831	299.8959	96.5564
3.8750	0.0682	0.4098	4.7047	1.5148	304.6006	98.0712
4.0000	0.0625	0.3533	5.8533	1.8846	310.4539	99.9557
4.1250	0.0573	0.3043	0.1375	0.0443	310.5914	100.0000
4.2500	0.0526	0.2617	0.0000	0.0000	310.5914	100.0000
4.3750	0.0482	0.2248	0.0000	0.0000	310.5914	100.0000
4.5000	0.0442	0.1930	0.0000	0.0000	310.5914	100.0000

* - fall velocity of natural grains in fresh water at 20°C

M_3_A

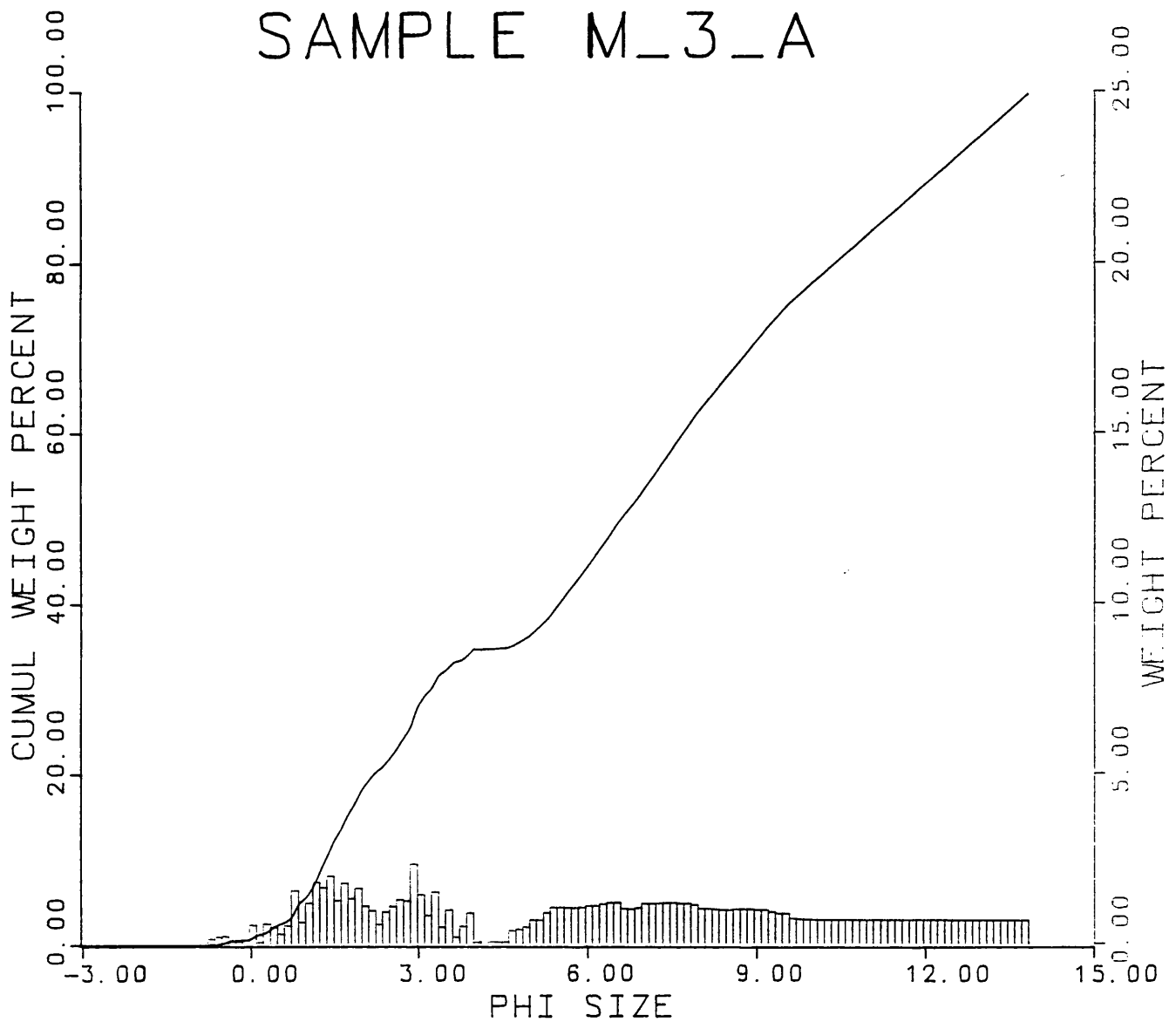


Coulter data
This data corresponds to file M_3_A.3rd

8.9301	2.5737	0.3111	1.9416	M1	M2	M3	M4 (phi)
8.9605	8.6190	2.7354	0.1733	0.3994			Mz, Md, SI, SKI, KG

0.4048%	is larger than	3.9700	phi.
0.4048%	is larger than	4.3033	phi.
0.6578%	is larger than	4.6367	phi.
2.3783%	is larger than	4.9700	phi.
5.2625%	is larger than	5.3033	phi.
9.6142%	is larger than	5.6367	phi.
13.9153%	is larger than	5.9700	phi.
18.4694%	is larger than	6.3033	phi.
23.3778%	is larger than	6.6367	phi.
27.5179%	is larger than	6.9700	phi.
32.3064%	is larger than	7.3033	phi.
37.1947%	is larger than	7.6367	phi.
41.9833%	is larger than	7.9700	phi.
46.1733%	is larger than	8.3033	phi.
50.2136%	is larger than	8.6367	phi.
54.3537%	is larger than	8.9700	phi.
58.3941%	is larger than	9.3033	phi.
62.0354%	is larger than	9.6367	phi.
65.0282%	is larger than	9.9700	phi.
67.9425%	is larger than	10.3033	phi.
70.8569%	is larger than	10.6367	phi.
73.7712%	is larger than	10.9700	phi.
76.6855%	is larger than	11.3033	phi.
79.5998%	is larger than	11.6367	phi.
82.5141%	is larger than	11.9700	phi.
85.4284%	is larger than	12.3033	phi.
88.3427%	is larger than	12.6367	phi.
91.2571%	is larger than	12.9700	phi.
94.1714%	is larger than	13.3033	phi.
97.0857%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_3_A



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Grass Parameters (%)

GRAVEL _____ 0.6
 SAND _____ 34.3
 V-COARSE SAND - 0.8
 COARSE SAND _____ 4.7
 MEDIUM SAND _____ 12.5
 FINE SAND _____ 9.5
 V-FINE SAND _____ 6.8
 SILT _____ 28.3
 CLAY _____ 36.8

Graphic Measures

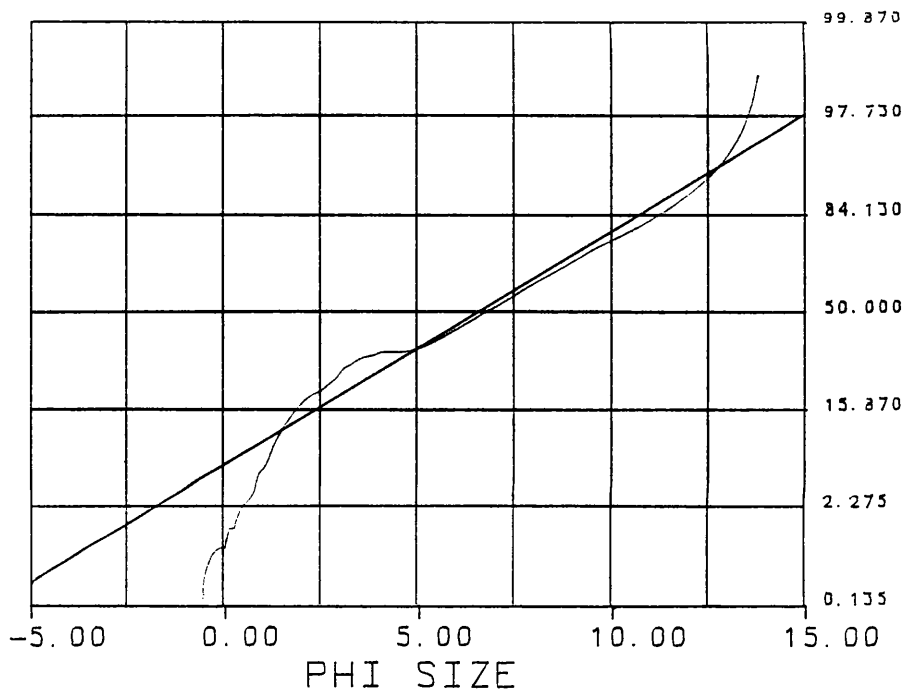
MEDIAN _____ 6.628
 MEAN _____ 6.512
 STD. DEVIATION- 4.158
 INC. SKEWNESS- 0.007
 INC. KURTOSIS- 0.591

Moment Measures

1st MOMENT _____ 6.508
 2nd MOMENT _____ 3.933
 3rd MOMENT _____ 0.096
 4th MOMENT _____ 1.845

DATE: 12-09-92

PROBABILITY CURVE



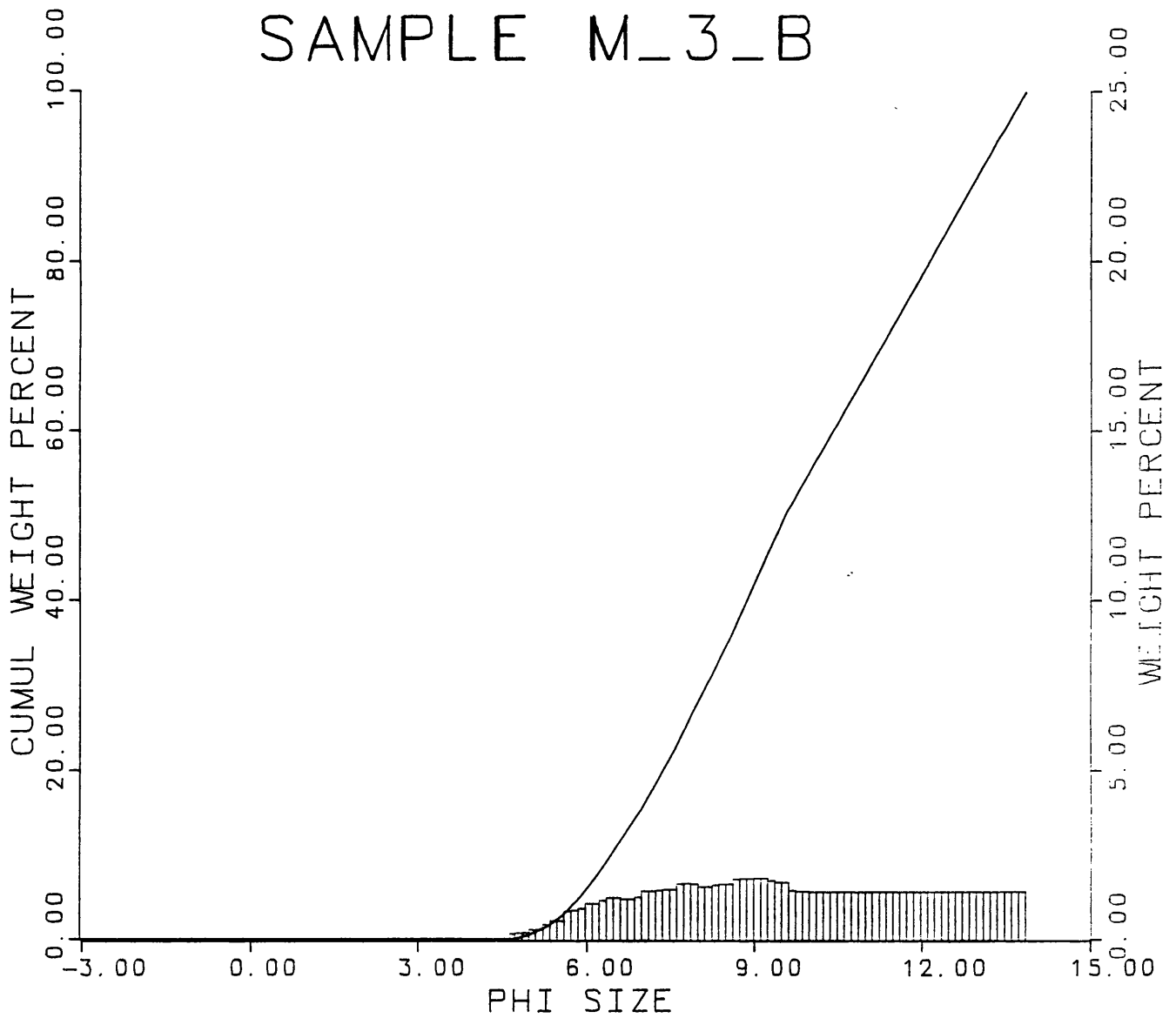
DESERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file M_3_B.3rd

				M1	M2	M3	M4 (phi)
9.7297	2.4045	-0.0104	1.9321				
9.7454	9.6102	2.5354	0.0511	0.3638			Mz, Md, SI, SKI, KG

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0000%	is larger than	4.6367	phi.
0.6229%	is larger than	4.9700	phi.
1.5022%	is larger than	5.3033	phi.
3.0777%	is larger than	5.6367	phi.
5.4592%	is larger than	5.9700	phi.
8.3903%	is larger than	6.3033	phi.
11.7611%	is larger than	6.6367	phi.
15.0264%	is larger than	6.9700	phi.
18.9084%	is larger than	7.3033	phi.
22.9992%	is larger than	7.6367	phi.
27.3980%	is larger than	7.9700	phi.
31.6065%	is larger than	8.3033	phi.
36.0327%	is larger than	8.6367	phi.
40.8943%	is larger than	8.9700	phi.
45.7922%	is larger than	9.3033	phi.
50.3635%	is larger than	9.6367	phi.
54.2092%	is larger than	9.9700	phi.
58.0251%	is larger than	10.3033	phi.
61.8410%	is larger than	10.6367	phi.
65.6569%	is larger than	10.9700	phi.
69.4728%	is larger than	11.3033	phi.
73.2887%	is larger than	11.6367	phi.
77.1046%	is larger than	11.9700	phi.
80.9205%	is larger than	12.3033	phi.
84.7364%	is larger than	12.6367	phi.
88.5523%	is larger than	12.9700	phi.
92.3682%	is larger than	13.3033	phi.
96.1841%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_3_B



Sample Location

LATITUDE ——— 0-0-0
 LONGITUDE ——— 0-0-0
 DEPTH (m) ——— 0.00

Gross Parameters (%)

GRAVEL ——— 0.5
 SAND ——— 6.4
 V-COARSE SAND — 0.0
 COARSE SAND ——— 0.0
 MEDIUM SAND ——— 0.0
 FINE SAND ——— 0.0
 V-FINE SAND ——— 0.0
 SILT ——— 23.4
 CLAY ——— 69.7

Graphic Measures

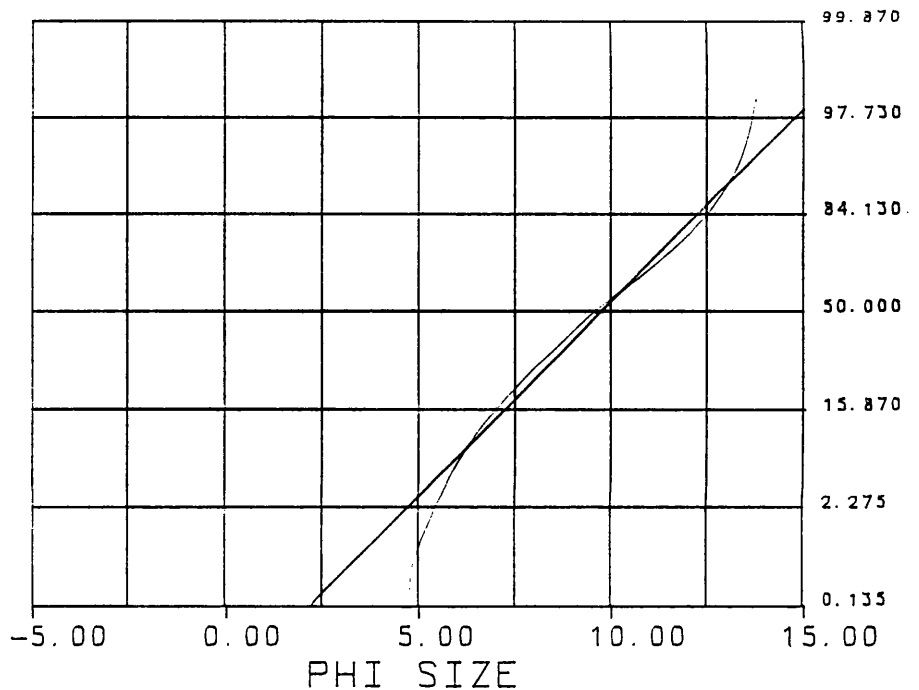
MEDIAN ——— 9.570
 MEAN ——— 9.701
 STD. DEVIATION — 2.507
 INC. SKEWNESS — 0.049
 INC. KURTOSIS — 0.383

Moment Measures

1st MOMENT ——— 9.684
 2nd MOMENT ——— 2.379
 3rd MOMENT ——— -0.013
 4th MOMENT ——— 1.939

DATE: 12-09-92

PROBABILITY CURVE



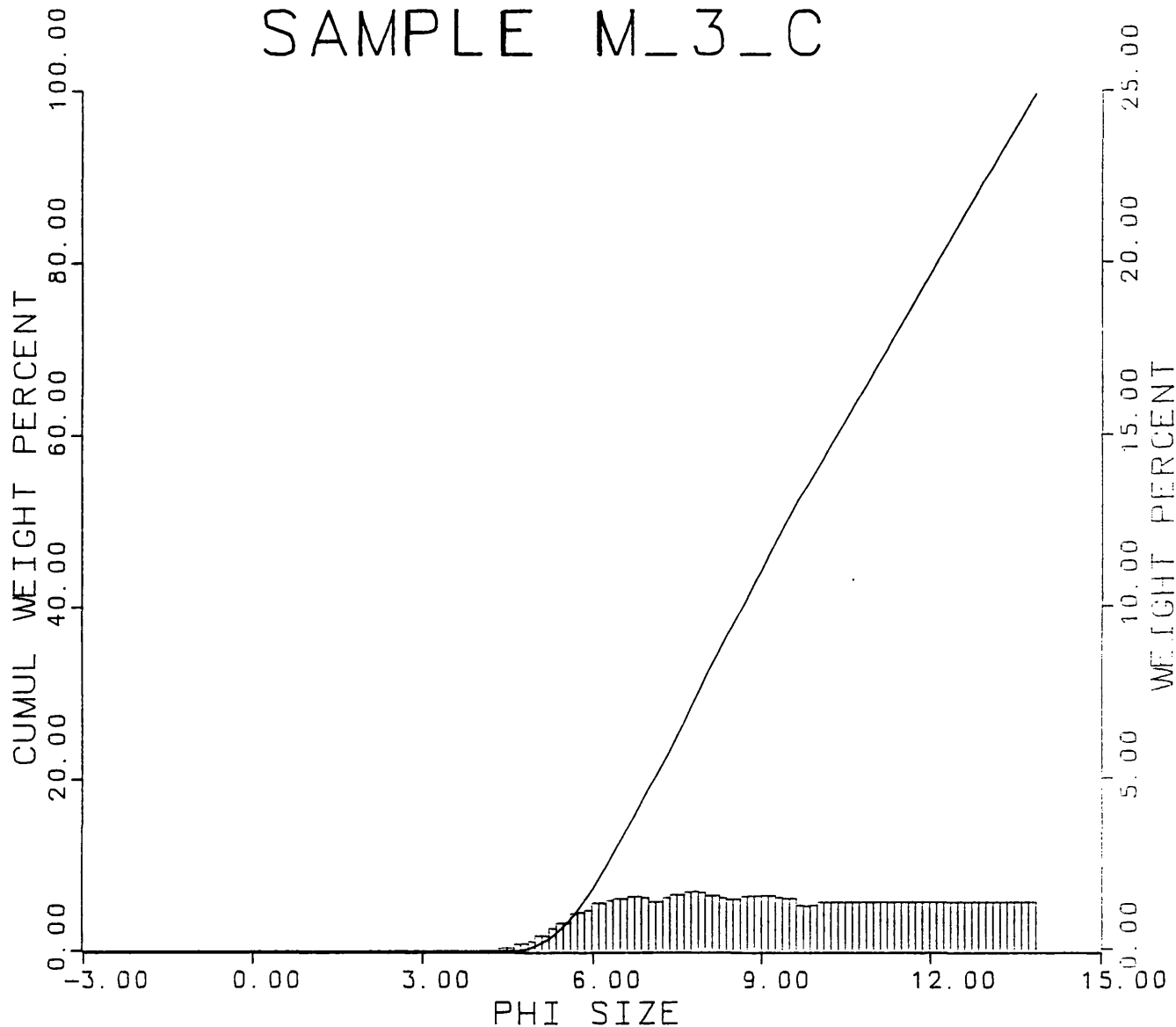
OBSERVED SIZE DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev

Coulter data
This data corresponds to file M_3_C.3rd

9.5892	2.4820	0.0300	1.8506	M1	M2	M3	M4 (phi)
9.5949	9.4841	2.6196	0.0494	0.3672		Mz, Md, SI, SKI, KG	

0.0000%	is larger than	3.9700	phi.
0.0000%	is larger than	4.3033	phi.
0.0804%	is larger than	4.6367	phi.
0.6034%	is larger than	4.9700	phi.
1.7296%	is larger than	5.3033	phi.
3.8615%	is larger than	5.6367	phi.
6.7979%	is larger than	5.9700	phi.
10.4583%	is larger than	6.3033	phi.
14.4405%	is larger than	6.6367	phi.
18.5998%	is larger than	6.9700	phi.
22.3647%	is larger than	7.3033	phi.
26.6675%	is larger than	7.6367	phi.
31.2212%	is larger than	7.9700	phi.
35.4522%	is larger than	8.3033	phi.
39.3964%	is larger than	8.6367	phi.
43.5916%	is larger than	8.9700	phi.
47.8226%	is larger than	9.3033	phi.
51.8385%	is larger than	9.6367	phi.
55.2907%	is larger than	9.9700	phi.
59.0073%	is larger than	10.3033	phi.
62.7339%	is larger than	10.6367	phi.
66.4605%	is larger than	10.9700	phi.
70.1871%	is larger than	11.3033	phi.
73.9137%	is larger than	11.6367	phi.
77.6404%	is larger than	11.9700	phi.
81.3670%	is larger than	12.3033	phi.
85.0936%	is larger than	12.6367	phi.
88.8202%	is larger than	12.9700	phi.
92.5468%	is larger than	13.3033	phi.
96.2734%	is larger than	13.6367	phi.
100.0000%	is larger than	13.9700	phi.

SAMPLE M_3_C



Sample Location

LATITUDE _____ 0-0-0
 LONGITUDE _____ 0-0-0
 DEPTH (m) _____ 0.00

Cross Parameters (%)

GRAVEL _____ 0.0
 SAND _____ 1.3
 V-COARSE SAND _____ 0.0
 COARSE SAND _____ 0.0
 MEDIUM SAND _____ 0.0
 FINE SAND _____ 0.0
 V-FINE SAND _____ 0.0
 SILT _____ 28.6
 CLAY _____ 72.1

Graphic Measures

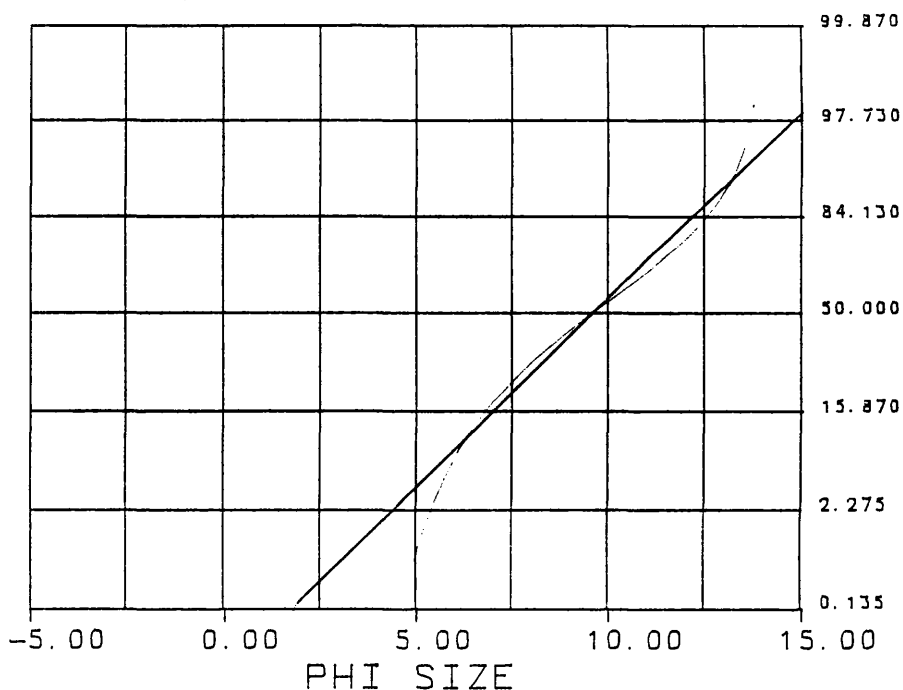
MEDIAN _____ 9.440
 MEAN _____ 9.549
 STD. DEVIATION _____ 2.590
 INC. SKEWNESS _____ 0.049
 INC. KURTOSIS _____ 0.366

Moment Measures

1st MOMENT _____ 9.542
 2nd MOMENT _____ 2.456
 3rd MOMENT _____ 0.029
 4th MOMENT _____ 1.856

DATE: 12-09-92

PROBABILITY CURVE



UNBIASED FIT DISTRIBUTION
 GAUSSIAN PROBABILITY Based on Graphic Mean and Std. Dev