

**A GEOLOGICAL INVESTIGATION OF THE OFFSHORE AREA
ALONG FLORIDA'S CENTRAL EAST COAST**

**INTERIM REPORT TO
the
U.S. DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
YEAR 1**

**Contract Period July 1, 1995 through October 30, 1995
Cooperative Agreement No. 14-35-0001-30757**

**Henry Freedenberg P.G. # 617 and Ron Hoenstine P.G. # 57,
Principal Investigators
with laboratory analyses and field assistance by
A. Bradley Highley and Holly Williams**

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Florida Geological Survey
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CONVERSION FACTORS AND ABBREVIATIONS

This table of the most commonly used conversion factors is provided for readers who may prefer to use metric units instead of the English units given in this report.

MULTIPLY	BY	TO OBTAIN
inch (in)	25.4	millimeter (mm)
inch (in)	2.54	centimeter (cm)
inch (in)	0.0254	meter (m)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer
sq. feet	0.0929	sq. meter
sq. mile	2.59	sq. kilometer
acre (ac)	0.4047	hectare (ha)
acre (ac)	4047	sq. meter
cubic foot	0.02832	cubic meter
cubic yard	0.7646	cubic meter
gallon (gal)	3.785	liter (L)
gallons per minute (gpm)	0.06308	liter per second (L/s)
gallons per minute (gpm)	0.0022	cubic feet/second (cfs)
gallons per minute (gpm)	0.00006309	cubic meters/second
cubic feet per second (cfs)	449	gallons per minute (gpm)
cubic feet per second (cfs)	0.02832	cubic meters/second
pound (lb)	0.4536	kilogram (kg)
ton, short (2,000 lbs)	0.9072	megagram (Mg)
ton, long (2,240 lbs)	1.016	megagram (Mg)
Fahrenheit (F)	5/9 (F-32)	Centigrade

Sea Level:

In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929) -- a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929" or "mean sea level (MSL)." Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific coasts, it does not necessarily represent local mean sea level at any particular place.

INTRODUCTION

The U.S. Department of Interior Minerals Management Service (MMS) and the Florida Geological Survey (FGS) have entered into a multi-year cooperative agreement with the aim of identifying and characterizing offshore sands suitable for beach restoration along the central east coast of Florida. This report documents the results of the Year 1 Interim Phase of this study, which partially characterized offshore Brevard County.

This report should be read in conjunction with "A Geological Investigation of the Offshore Area Along Florida's Central East Coast, Annual Report to the U.S. Department of Interior Minerals Management Service - Year 1" which was submitted to the MMS during July of 1995. Year 1 interim tasks include the collection and analysis of bottom grab samples and water quality data along three offshore transects in southern Brevard County.

This report, which serves as the Year 1 interim report for this MMS cooperative agreement, consists of an introduction and summary and appendices which include granulometric (sand grain size distribution), mineralogical water quality and bottom characterization data. A map showing the locations of all transects is included (Fig. 1).

METHODS

In the course of preparing this report, 24 offshore bottom sediment grab samples were collected and analyzed. These samples were collected at an approximate 1 mile spacing along three transects in southern Brevard County. Water quality data was collected at each sampling location. Table 1 provides a summary of sample collection parameters and water quality data.

The FGS transects were planned to complement earlier work done in the study area by the Florida Institute of Technology (FIT). The scope of this earlier project was designed to characterize bottom sediments and examine the effects of dredge spoil dumping in the immediate vicinity of the Canaveral Inlet. Data collection for the FIT study was performed during 1993 and 1994. The first publication to come out of the FIT project is a May 1995 Masters Thesis, "A Study of Dredged Material Dispersion in the Inner Continental Shelf, Cape Canaveral, Florida" authored by J.E. Vann. The data collected during this phase of the FGS study served to fill in gaps in the FIT coverage.

All FGS grab samples were analyzed for silt and clay content. Each sample was dried, weighed, and washed through a 4 phi screen to remove the silt and clay sized grain fraction. The sample was then dried and reweighed. After this weighing, each sample was sieved to determine the grain size distribution for sand sized sediment. The individual size fractions were then recombined and carbonates were digested from each sample using dilute hydrochloric acid. After the digestion procedure, each sample was again sieved and the grain size distribution of sand sized silica grains was again computed. The difference between the weight of the original (combined) sand fraction and the weight of the silica sand fraction was used to compute the grain size distribution of carbonate grains.

Qualitative mineralogical analyses were performed on clay minerals collected from six representatively chosen grab samples using an x-ray diffractometer. A Grant/YSI Water Quality Logger was used to collect near bottom water quality parameters at each grab sample location. Parameters measured include temperature, pH, Eh, salinity, conductivity, and dissolved oxygen.

DISCUSSION

Analysis of granulometric data obtained from the grab samples reveals that fine grained material makes up 34.92% of the average grab sample collected during this phase of the study. An average of 79.14% of the sand sized material was composed of silica while 20.86% of the sand sized material consisted of carbonate debris. Median grain size of the silica grains was found to be 3.20 phi while median grain size of the carbonate grains was found to be 1.85 phi. Table 2 summarizes grain composition while Table 3 provides a summary of median grain sizes for the individual grab samples. It is worth noting that the onshore pattern of carbonate grains being substantially larger than silica grains is also seen offshore. The implications of this distribution are discussed in the Year 1 report supplied to the MMS. It is postulated that the abundance of fine grained materials observed in samples collected along FGS transects T-1 and T-2 is due to the proximity of the transects to the disposal area for ongoing dredging operations at Port Canaveral. Much of the fine material is dredge spoil and the samples collected do not accurately reflect the native grain size distribution. The abundance of fine materials in these sediments however would render the sediments unfit for beach restoration work owing to their high turbidity potential.

Analytical results derived from samples collected during the current investigation show kaolinite, smectite, muscovite, illite, quartz and calcite to be present in the sediment. Halite was also detected but it's presence is attributed to the crystallization from sea water. The results of x-ray diffraction analyses are summarized in Table 4.

Results of the water quality sampling show turbidity values ranging between 1 and 43 NTU. Most other values were constant with water temperatures ranging between 28 and 29 degrees C, pH about 8.35, most Eh values clustering around 230 mV, salinities ranged from 35 to 36‰ and dissolved oxygen concentrations were approximately 4 mg/l.

1995 STORM SEASON

On August 1, 1995, Hurricanes Erin came ashore at Sebastian Inlet and significantly impacted the central portion of Brevard County. Up to 5 feet of beach loss was experienced north of Indialantic and at Satellite and Indian Harbor Beaches. The passage of additional storms during the 1995 hurricane season caused additional localized beach erosion.

SUMMARY AND CONCLUSIONS

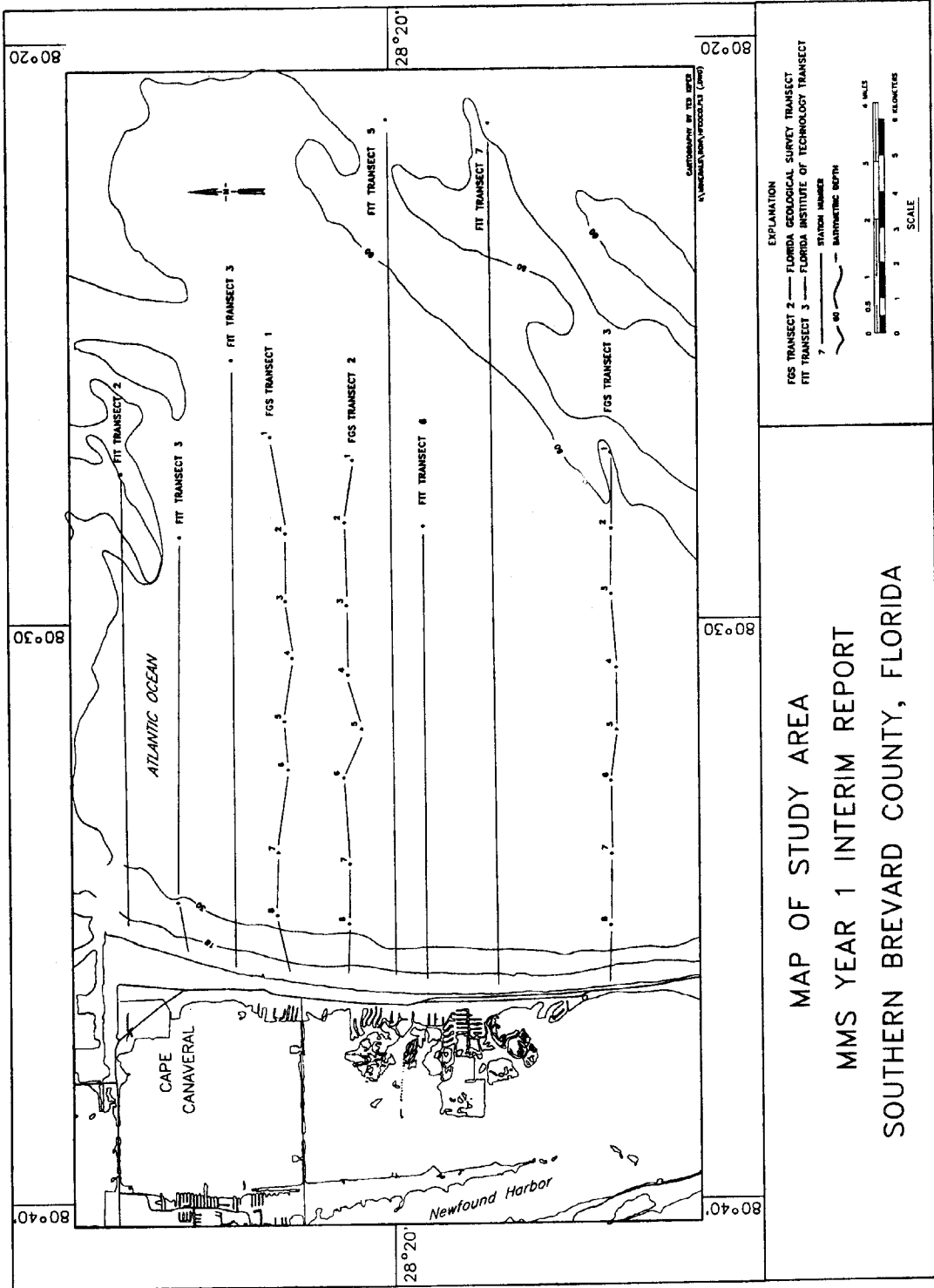
Twenty four bottom grab samples were collected along three offshore transects in southern Brevard County. Granulometric analysis showed the median grain size of silica grains was 3.20 phi while the median grain size of the carbonate grains was 1.85 phi.

Mineralogical analyses showed that the predominant materials in the silt and clay sized fraction are smectite, illite, muscovite, quartz and calcite.

Analysis of water quality measurements showed widely varying turbidity values throughout the study area while all other water quality parameters are relatively uniform. Mean water temperature in the study area was 28.8 deg C, mean pH was 8.33, mean Eh was 228 mv and mean salinity was 35 ppm. Mean conductivity was 53.74 mmhos, dissolved oxygen averaged 4.17 mg/l and mean turbidity was 5.7 NTU. Calculation of the mean turbidity was skewed by a single reading of 43 NTU. Ignoring this value, mean turbidity was found to be 3.85 NTU.

The baseline data collected during this study is valuable in further defining areas of maximum offshore sand concentration and in associating water quality with sand development.

The recent hurricane season emphasizes the necessity for beach restoration along the central east coast of Florida. The next phase of this study will concentrate on further refining data in southern Brevard County.



MAP OF STUDY AREA
 MMS YEAR 1 INTERIM REPORT
 SOUTHERN BREVARD COUNTY, FLORIDA

FIGURE 1

TABLE 1

SUMMARY OF FIELD DATA

SAMPLING DATA

WATER QUALITY DATA

Transect #	Station #	Date 1995	Time	Sample Location		Diff.	Water Depth ft.	Time C	pH	Eh mV	Sal ppm	Conductivity mmho	O2 mg/l	Turbidity NTU
				Lat N	Long W									
FGS T1	1	9/20	1755	28 21 607	80 27 205		38.6	1754	8.32	249	25.8	54.46	4.53	1
	2	9/20	1811	28 21 743	80 28 416		35.8	1810	8.38	250	35.8	54.27	4.67	2
	3	9/19	1540	28 21 600	80 28 416	X	38.0	1540	28.8	8.3	226	54.61	3.99	5
	4	9/19	1600	28 21 613	80 30 712	X	28.8	1610	28.7	8.32	229	54.54	3.98	4
	5	9/19	1720	28 21 700	80 31 782	X	41.8	1218	28.8	8.34	230	54.49	4.15	2
	6	9/20	1140	28 21 600	80 32 600	X	41.0	1138	28.8	8.2	213	54.52	4.19	3
	7	9/20	1542	28 21 800	80 34 000		36.8	1540	28.8	8.75	168	31.0	4.20	3
	8	9/20	1650	28 21 800	80 35 000		39.0	1550	28.8	8.29	227	35.9	3.55	18
FGS T2	1	9/20	1733	28 20 713	80 27 186		38.8	1734	8.37	247	36.0	54.38	4.66	1
	2	9/20	1716	28 20 795	80 28 334		34.9	1716	29.2	8.36	229	35.8	4.60	2
	3	9/19	1457	28 20 859	80 29 676	X	44.0	1751	28.7	8.18	237	35.9	4.26	
	4	9/19	1620	28 20 820	80 30 830	X	21.8	1616	28.8	8.33	231	36.0	4.15	2
	5	9/19	1635	28 20 600	80 31 820	X	22.6	1635	28.7	8.33	235	36.0	3.70	3
	6	9/19	1200	28 20 800	80 32 600	X	40.6	1200		8.31	224	36.0	3.94	2
	7	9/20	1302	28 20 750	80 34 020	X	44.6	1300		8.23	137	33.8	3.60	11
	8	9/20	1611	28 20 800	80 35 000		37.0	1612	28.8	8.32	242	36.0	4.18	2
FGS T3	1	9/21	1030	28 16 691	80 27 176		43.6	1028		8.35	242	35.9	4.38	0
	2	9/21	1058	28 16 700	80 28 400		44.8	1058	29.0	8.36	238	36.0	4.49	0
	3	9/21	1117	28 16 704	80 29 504		45.4	1116	28.9	8.33	246	35.9	4.24	1
	4	9/21	1134	28 16 665	80 30 679		46.6	1123	28.7	8.33	249	36.0	4.16	1*
	5	9/21	1157	28 16 653	80 31 693		46.2	1155	28.8	8.33	253	36.0	4.14	2
	6	9/21	1217	28 16 702	80 32 693		47.0	1216	28.8	8.34	250	35.9	4.18	6
	7	9/21	1234	28 16 700	80 33 901		46.6	1233	28.7	8.33	252	35.8	4.05	6
	8	9/21	1252	28 16 711	80 35 011		41.8	1251		8.31	159	30.7	4.19	43
					Mean			28.8	8.33	228	35.0	53.74	4.17	5.7

X = Differential correction used for GPS reading
 Calculation of mean turbidity value is skewed by single high individual value.
 Ignoring FGS T# STA 8 value of 43 NTU, Mean turbidity is 3.85 NTU

Grain Composition Summary

Grab Sample	% Silt and Clay (Total Fraction) (g)	% SILICA (Sand-Sized Fraction) (g)	% CO3 (Sand-Sized Fraction) (g)
FGS T-1 STATION 1	31.85	44.01	55.99
FGS T-1 STATION 2	23.01	82.9	17.1
FGS T-1 STATION 3	28.18	80.57	19.43
FGS T-1 STATION 4	40.77	84.33	15.67
FGS T-1 STATION 5	31.94	82.88	17.12
FGS T-1 STATION 6	27.38	89.58	10.42
FGS T-1 STATION 7	82.15	89.91	10.09
FGS T-1 STATION 8	28.48	83.67	16.33
FGS T-2 STATION 1	4.3	65.14	34.86
FGS T-2 STATION 2	20.42	73.34	26.66
FGS T-2 STATION 3	55.1	78.9	21.1
FGS T-2 STATION 4	52.17	83.19	16.81
FGS T-2 STATION 5	25.5	63.15	36.85
FGS T-2 STATION 6	19.34	81.19	18.81
FGS T-2 STATION 7	38.86	86.28	13.72
FGS T-2 STATION 8	49.12	82.68	17.32
FGS T-3 STATION 1	34.77	79.74	20.26
FGS T-3 STATION 2	45.62	85.33	14.67
FGS T-3 STATION 3	43.01	85.95	14.05
FGS T-3 STATION 4	24.59	87.18	12.82
FGS T-3 STATION 5	30.66	81.9	18.1
FGS T-3 STATION 6	21.53	68.88	31.12
FGS T-3 STATION 7	7.96	79.05	20.95
FGS T-3 STATION 8	71.34	79.52	20.48
Average	34.91875	79.13625	20.86375

TABLE 3

MEDIAN GRAIN SIZE SUMMARY

Grab Sample	Total (mm)	Silica (mm)	Carbonate (mm)
FGS T-1 STATION 1	0.266095	0.1416105	0.4322686
FGS T-1 STATION 2	0.0871715	0.0824692	0.1377381
FGS T-1 STATION 3	0.0813339	0.0791098	0.0908733
FGS T-1 STATION 4	0.0791098	0.0780207	0.0853775
FGS T-1 STATION 5	0.0853775	0.0830429	0.1294081
FGS T-1 STATION 6	0.0865693	0.0859714	0.1118781
FGS T-1 STATION 7	NA	NA	NA
FGS T-1 STATION 8	0.0813339	0.0796604	0.1126563
FGS T-2 STATION 1	0.3035487	0.2973018	0.3186402
FGS T-2 STATION 2	0.2624292	0.255253	0.283221
FGS T-2 STATION 3	0.0967228	0.0871715	0.208772
FGS T-2 STATION 4	0.0902456	0.0871715	0.1367867
FGS T-2 STATION 5	0.2116863	0.1015316	0.7900413
FGS T-2 STATION 6	0.1065794	0.0973956	0.2952482
FGS T-2 STATION 7	0.0830429	0.0818996	0.1150235
FGS T-2 STATION 8	0.0818996	0.0802141	0.1241366
FGS T-3 STATION 1	0.1558235	0.1015316	0.2161343
FGS T-3 STATION 2	0.0908733	0.0883884	0.1182572
FGS T-3 STATION 3	0.0921418	0.0902456	0.1182572
FGS T-3 STATION 4	0.0940779	0.0947323	0.0853775
FGS T-3 STATION 5	0.0934281	0.0890031	0.8010699
FGS T-3 STATION 6	0.1080672	0.0915054	1.0643702
FGS T-3 STATION 7	0.1241366	0.1142289	0.3417469
FGS T-3 STATION 8	NA	NA	NA

TABLE 4
QUALITATIVE X-RAY DIFFRACTION RESULTS

Sample Loc.	Kaolinite	Smectite	Illite	Muscovite	Quartz	Calcite
FGS T1 STA 5	X	X	X	X	X	X
FGS T1 STA 7	X	X	X	X	X	X
FGS T2 STA 5	X	X	X	X	X	
FGS T2 STA 8	X	X	X	X	X	X
FGS T3 STA 5	X	X	X	X	X	
FGS T3 STA 8	X	X	X	X	X	X

APPENDIX 1

TOTAL SAMPLE GRANULOMETRIC DATA

Sand-Sized Grain Distribution Chart

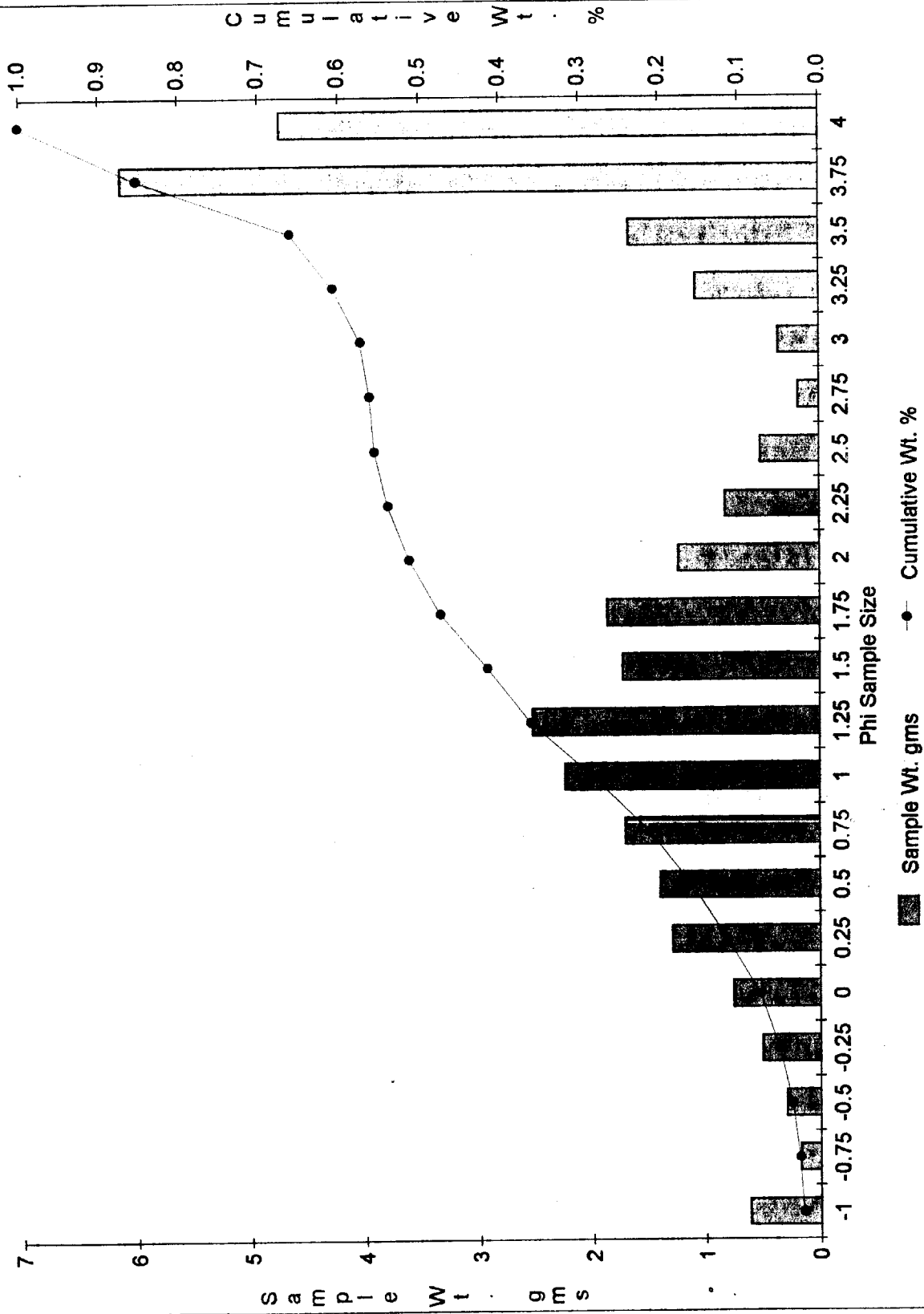
GRAB SAMPLE
FGS T-1 STATION 1

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.1138	0.6159	0.6159	0.019383	0.019383
-0.75	1.513	1.685	0.172	0.7879	0.005413	0.024796
-0.5	1.4788	1.7712	0.2924	1.0803	0.0092021	0.0339981
-0.25	1.5302	2.0339	0.5037	1.584	0.0158519	0.04985
0	1.5305	2.2849	0.7544	2.3384	0.0237417	0.0735918
0.25	1.5231	2.8158	1.2927	3.6311	0.0406825	0.1142743
0.5	1.5218	2.9215	1.3997	5.0308	0.0440499	0.1583242
0.75	1.482	3.1921	1.7101	6.7409	0.0538185	0.2121428
1	1.5257	3.7648	2.2391	8.98	0.0704667	0.2826094
1.25	1.5266	4.0535	2.5269	11.5069	0.079524	0.3621335
1.5	1.5317	3.2582	1.7265	13.2334	0.0543347	0.4164681
1.75	1.5422	3.403	1.8608	15.0942	0.0585612	0.4750293
2	1.5301	2.7653	1.2352	16.3294	0.038873	0.5139023
2.25	1.5078	2.3298	0.822	17.1514	0.0258691	0.5397715
2.5	1.4488	1.9642	0.5154	17.6668	0.0162201	0.5559916
2.75	1.5314	1.715	0.1836	17.8504	0.0057781	0.5617697
3	1.5585	1.9161	0.3576	18.208	0.011254	0.5730237
3.25	1.5165	2.5966	1.0801	19.2881	0.0339918	0.6070155
3.5	1.5154	3.1823	1.6669	20.955	0.052459	0.6594745
3.75	1.4809	7.5914	6.1105	27.0655	0.1923035	0.851778
4	1.519	6.2288	4.7098	31.7753	0.148222	1
PAN	0	0	0	31.7753	0	1

Total Wt. 31.7753 gms
 Median Weight 15.88765 gms
 Mean Grain Size 1.91 phi 0.2660925 mm
 % Silt and Clay 31.85

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 1



Sand-Sized Grain Distribution Chart

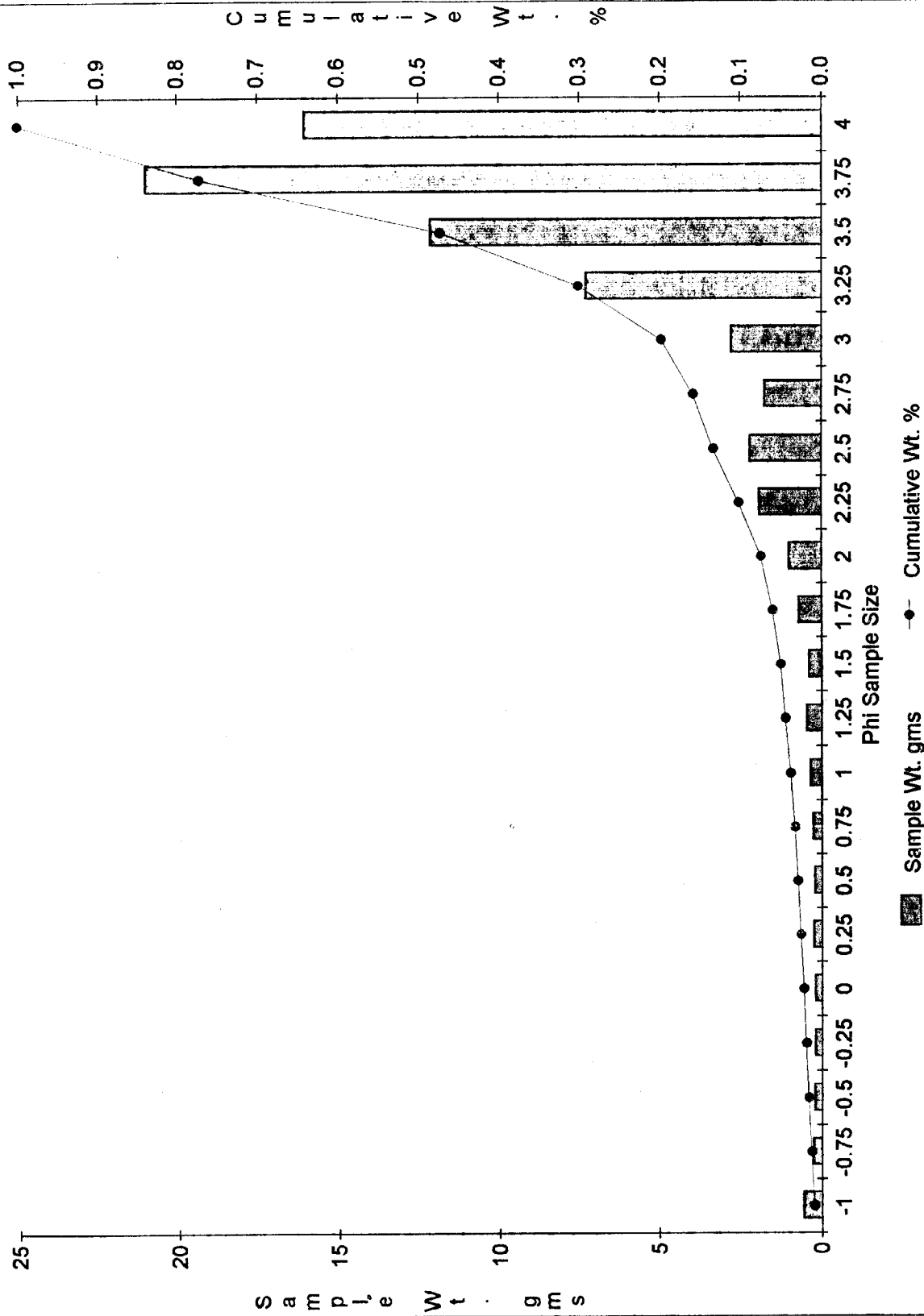
GRAB SAMPLE
FGS T-1 STATION 2

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.0739	0.576	0.576	0.0081907	0.0081907
-0.75	1.513	1.7876	0.2746	0.8506	0.0039048	0.0120955
-0.5	1.4788	1.7041	0.2253	1.0759	0.0032038	0.0152992
-0.25	1.5302	1.7417	0.2115	1.2874	0.0030075	0.0183067
0	1.5305	1.735	0.2045	1.4919	0.002908	0.0212147
0.25	1.5231	1.783	0.2599	1.7518	0.0036958	0.0249105
0.5	1.5218	1.7491	0.2273	1.9791	0.0032322	0.0281427
0.75	1.482	1.7513	0.2693	2.2484	0.0038294	0.0319721
1	1.5257	1.8782	0.3525	2.6009	0.0050125	0.0369846
1.25	1.5266	1.9805	0.4539	3.0548	0.0064544	0.0434391
1.5	1.5317	1.9326	0.4009	3.4557	0.0057008	0.0491398
1.75	1.5422	2.2488	0.7066	4.1623	0.0100478	0.0591876
2	1.5301	2.5356	1.0055	5.1678	0.0142981	0.0734858
2.25	1.5078	3.4261	1.9183	7.0861	0.0272781	0.1007639
2.5	1.4488	3.6458	2.197	9.2831	0.0312412	0.1320051
2.75	1.5314	3.291	1.7596	11.0427	0.0250214	0.1570265
3	1.5585	4.337	2.7785	13.8212	0.0395101	0.1965366
3.25	1.5165	8.8131	7.2966	21.1178	0.1037572	0.3002938
3.5	1.5154	13.6734	12.158	33.2758	0.172886	0.4731798
3.75	1.4809	22.4874	21.0065	54.2823	0.2987111	0.7718909
4	1.519	17.5605	16.0415	70.3238	0.2281091	1
PAN		0	0	70.3238	0	1

Total Wt. 70.3238 gms
 Median Weight 35.1619 gms
 Mean Grain Size 3.52 phi 0.0871715 mm
 % Silt and Clay 23.01

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 2



Sand-Sized Grain Distribution Chart

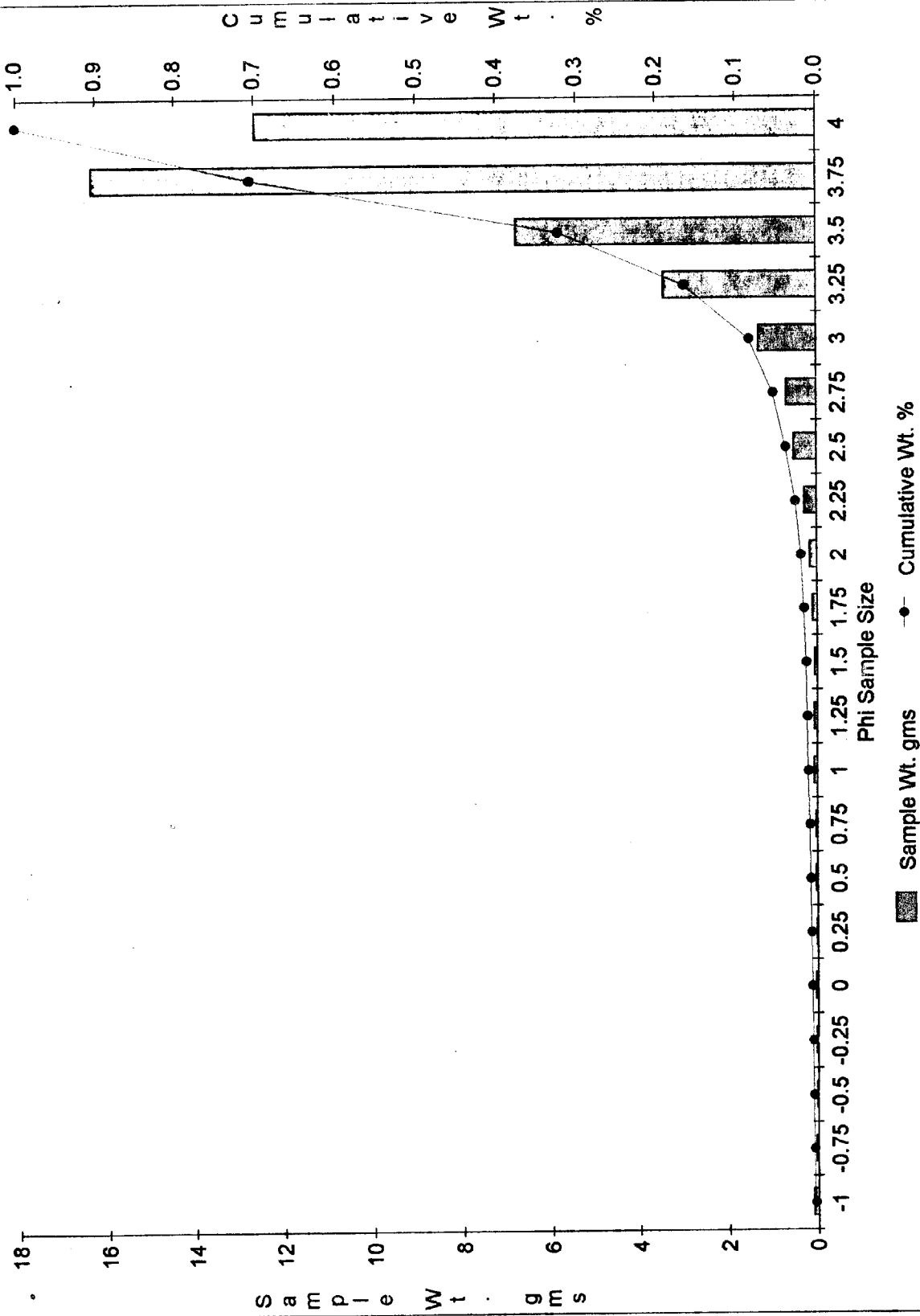
GRAB SAMPLE
FGS T-1 STATION 3

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.5988	0.1009	0.1009	0.0023676	0.0023676
-0.75	1.513	1.562	0.049	0.1499	0.0011498	0.0035173
-0.5	1.4788	1.5038	0.025	0.1749	0.0005866	0.0041039
-0.25	1.5302	1.5642	0.034	0.2089	0.0007978	0.0049017
0	1.5305	1.5768	0.0463	0.2552	0.0010864	0.0059881
0.25	1.5231	1.5473	0.0242	0.2794	0.0005678	0.0065559
0.5	1.5218	1.5544	0.0326	0.312	0.0007649	0.0073209
0.75	1.482	1.5192	0.0372	0.3492	0.0008729	0.0081938
1	1.5257	1.5925	0.0668	0.416	0.0015674	0.0097612
1.25	1.5266	1.5907	0.0641	0.4801	0.0015041	0.0112652
1.5	1.5317	1.5862	0.0545	0.5346	0.0012788	0.0125441
1.75	1.5422	1.6469	0.1047	0.6393	0.0024567	0.0150008
2	1.5301	1.6904	0.1603	0.7996	0.0037613	0.0187621
2.25	1.5078	1.7768	0.269	1.0686	0.0063119	0.025074
2.5	1.4488	1.9579	0.5091	1.5777	0.0119457	0.0370197
2.75	1.5314	2.2003	0.6689	2.2466	0.0156953	0.0527151
3	1.5585	2.8562	1.2977	3.5443	0.0304497	0.0831648
3.25	1.5165	4.9421	3.4256	6.9699	0.0803796	0.1635443
3.5	1.5154	8.278	6.7626	13.7325	0.1586802	0.3222245
3.75	1.4809	17.783	16.3021	30.0346	0.3825186	0.7047431
4	1.519	14.1022	12.5832	42.6178	0.2952569	1
PAN	0	0	0	42.6178	0	1

Total Wt.	42.6178 gms
Median Weight	21.3089 gms
Mean Grain Size	3.62 phi 0.0813339 mm
% Silt and Clay	28.18

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 3



Sand-Sized Grain Distribution Chart

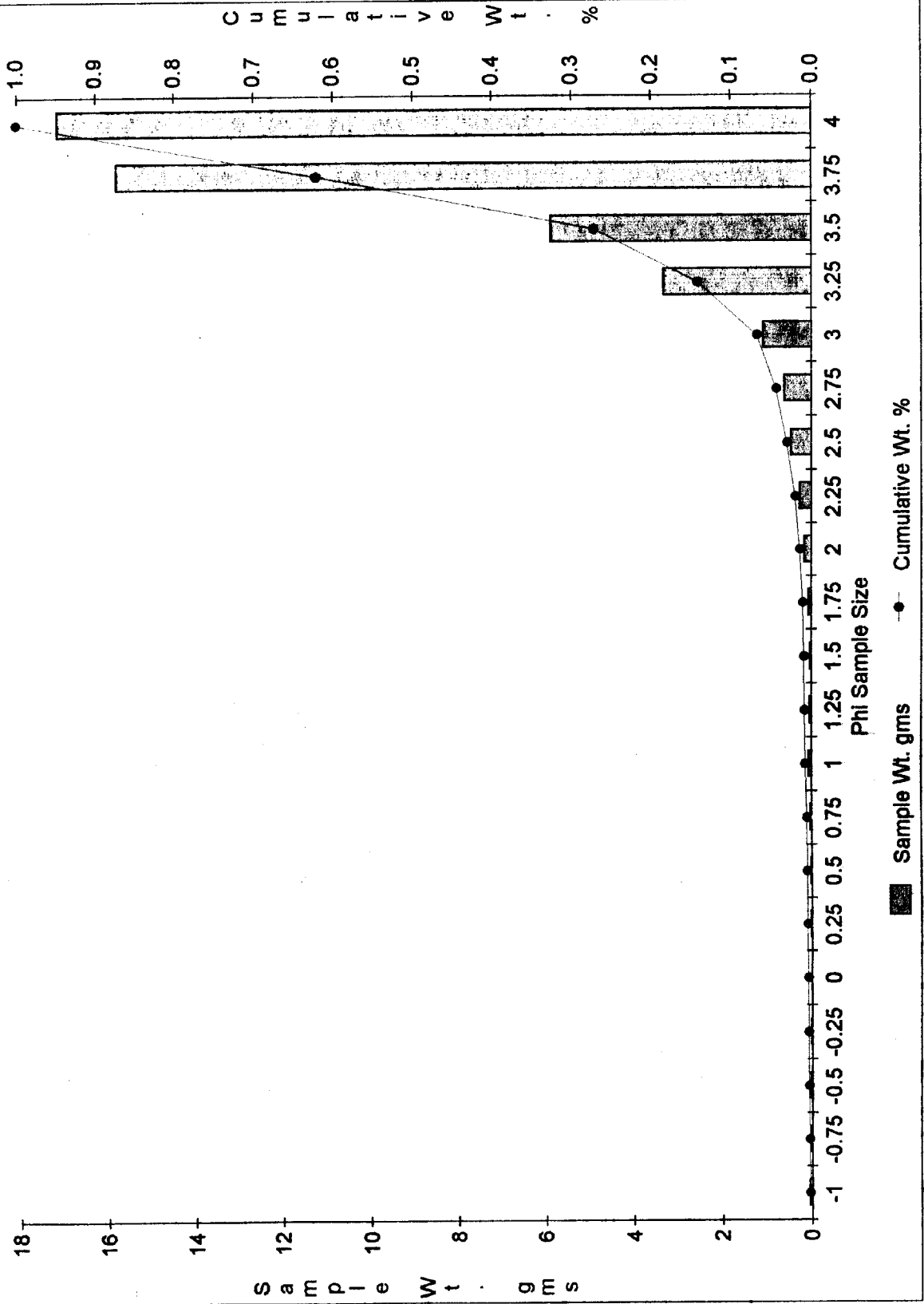
GRAB SAMPLE
FGS T-1 STATION 4

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.5558	0.0579	0.0579	0.0012871	0.0012871
-0.75	1.513	1.5482	0.0352	0.0931	0.0007825	0.0020696
-0.5	1.4788	1.515	0.0362	0.1293	0.0008047	0.0028743
-0.25	1.5302	1.5478	0.0176	0.1469	0.0003912	0.0032655
0	1.5305	1.543	0.0125	0.1594	0.0002779	0.0035434
0.25	1.5231	1.5437	0.0206	0.18	0.0004579	0.0040013
0.5	1.5218	1.5423	0.0205	0.2005	0.0004557	0.004457
0.75	1.482	1.5088	0.0268	0.2273	0.0005958	0.0050528
1	1.5257	1.5918	0.0661	0.2934	0.0014694	0.0065221
1.25	1.5266	1.5653	0.0387	0.3321	0.0008603	0.0073824
1.5	1.5317	1.5615	0.0298	0.3619	0.0006624	0.0080449
1.75	1.5422	1.6071	0.0649	0.4268	0.0014427	0.0094875
2	1.5301	1.6924	0.1623	0.5891	0.0036078	0.0130954
2.25	1.5078	1.7672	0.2594	0.8485	0.0057663	0.0188617
2.5	1.4488	1.9059	0.4571	1.3056	0.0101611	0.0290228
2.75	1.5314	2.139	0.6076	1.9132	0.0135066	0.0425294
3	1.5585	2.6373	1.0788	2.992	0.0239812	0.0665106
3.25	1.5165	4.827	3.3105	6.3025	0.0735907	0.1401013
3.5	1.5154	7.391	5.8756	12.1781	0.1306116	0.2707129
3.75	1.4809	17.1962	15.7153	27.8934	0.349343	0.6200559
4	1.519	18.6109	17.0919	44.9853	0.3799441	1
PAN		0	0	44.9853	0	1

Total Wt. 44.9853 gms
 Median Weight 22.49265 gms
 Mean Grain Size 3.66 phi 0.0791098 mm
 % Silt and Clay 40.77

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 4



Sand-Sized Grain Distribution Chart

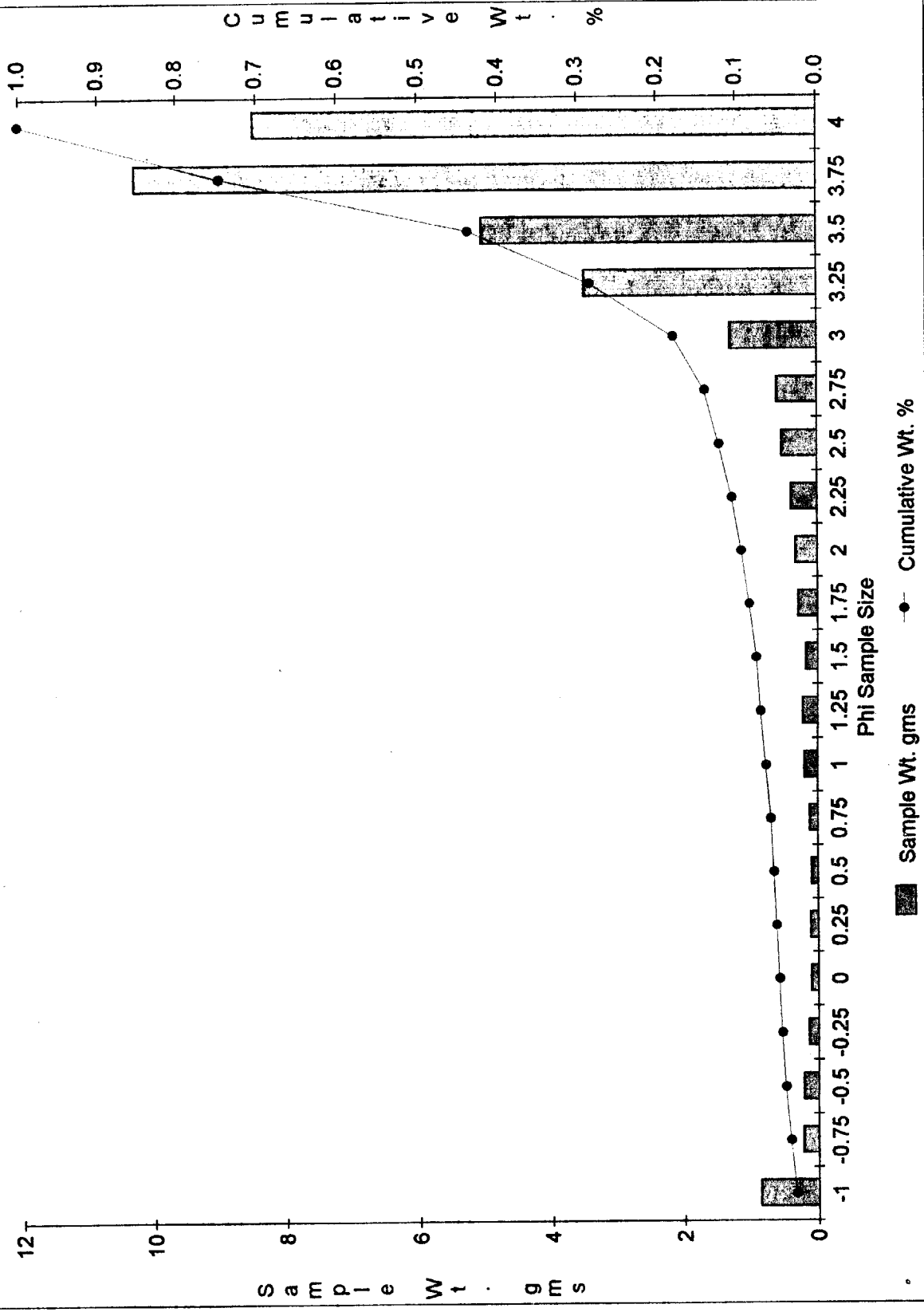
GRAB SAMPLE
FGST-1 STATION 5

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.3535	0.8556	0.8556	0.0258262	0.0258262
-0.75	1.513	1.7445	0.2315	1.0871	0.0069878	0.032814
-0.5	1.4788	1.6978	0.219	1.3061	0.0066105	0.0394244
-0.25	1.5302	1.6732	0.143	1.4491	0.0043164	0.0437409
0	1.5305	1.6393	0.1088	1.5579	0.0032841	0.047025
0.25	1.5231	1.6358	0.1127	1.6706	0.0034018	0.0504268
0.5	1.5218	1.6238	0.102	1.7726	0.0030789	0.0535057
0.75	1.482	1.6007	0.1187	1.8913	0.0035829	0.0570886
1	1.5257	1.7224	0.1967	2.088	0.0059374	0.063026
1.25	1.5266	1.745	0.2184	2.3064	0.0065924	0.0696183
1.5	1.5317	1.7055	0.1738	2.4802	0.0052461	0.0748645
1.75	1.5422	1.834	0.2918	2.772	0.0088079	0.0836724
2	1.5301	1.8549	0.3248	3.0968	0.009804	0.0934764
2.25	1.5078	1.8966	0.3888	3.4856	0.0117359	0.1052123
2.5	1.4488	1.9774	0.5286	4.0142	0.0159557	0.121168
2.75	1.5314	2.1252	0.5938	4.608	0.0179238	0.1390918
3	1.5585	2.8615	1.303	5.911	0.0393309	0.1784227
3.25	1.5165	5.0153	3.4988	9.4098	0.1056108	0.2840334
3.5	1.5154	6.5612	5.0458	14.4556	0.1523067	0.4363401
3.75	1.4809	11.7102	10.2293	24.6849	0.3087699	0.7451101
4	1.519	9.9633	8.4443	33.1292	0.2548899	1
PAN	0	0	0	33.1292	0	1

Total Wt. 33.1292 gms
 Median Weight 16.5646 gms
 Mean Grain Size 3.55 phi 0.0853775 mm
 % Silt and Clay 31.94

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 5



Sand-Sized Grain Distribution Chart

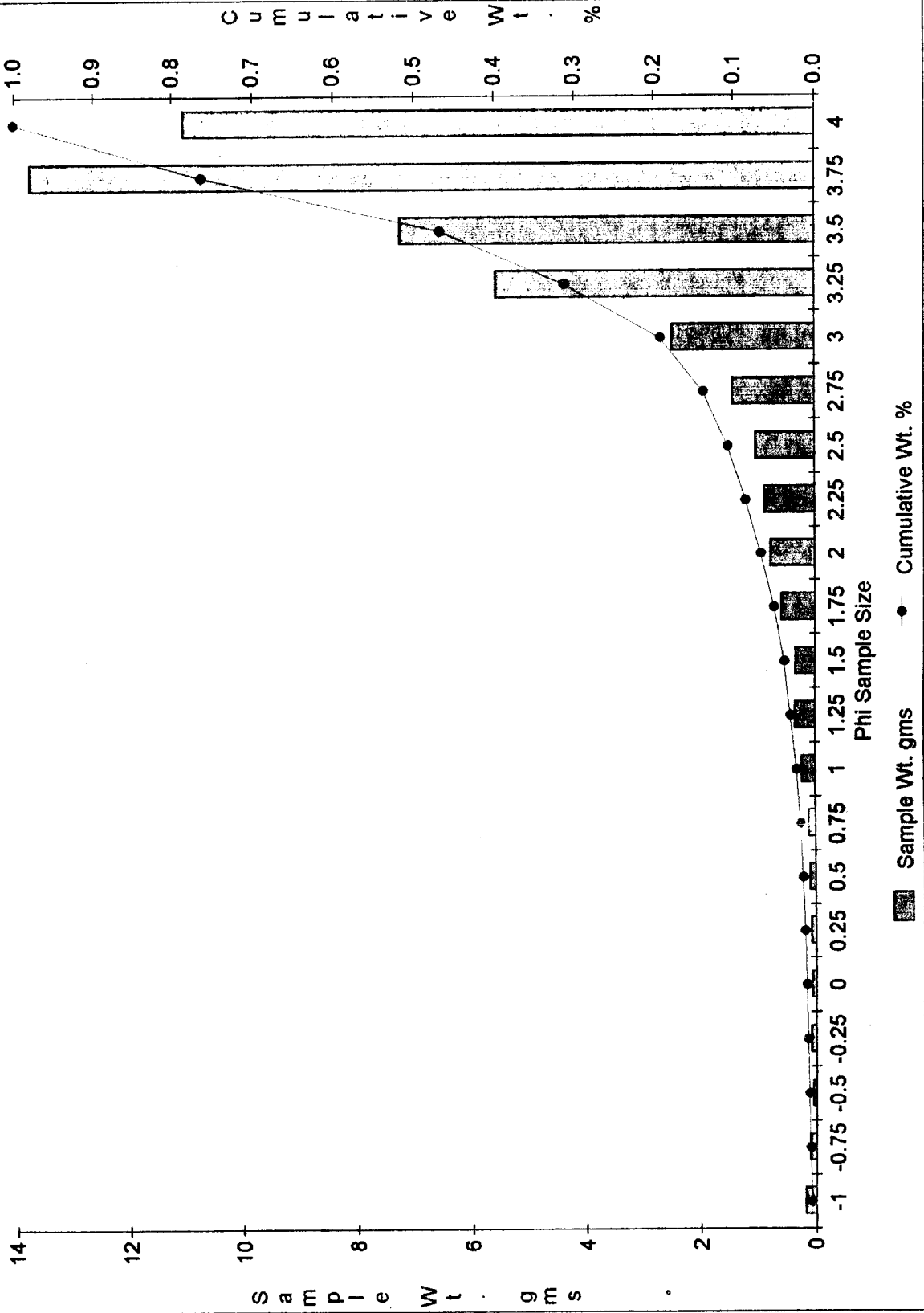
GRAB SAMPLE
FGS T-1 STATION 6

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.68	0.1821	0.1821	0.0039201	0.0039201
-0.75	1.513	1.616	0.103	0.2851	0.0022173	0.0061374
-0.5	1.4788	1.5308	0.052	0.3371	0.0011194	0.0072568
-0.25	1.5302	1.6162	0.086	0.4231	0.0018513	0.0091081
0	1.5305	1.6022	0.0717	0.4948	0.0015435	0.0106516
0.25	1.5231	1.603	0.0799	0.5747	0.00172	0.0123716
0.5	1.5218	1.6143	0.0925	0.6672	0.0019913	0.0143629
0.75	1.482	1.6005	0.1185	0.7857	0.002551	0.0169139
1	1.5257	1.752	0.2263	1.012	0.0048716	0.0217855
1.25	1.5266	1.8781	0.3515	1.3635	0.0075668	0.0293522
1.5	1.5317	1.874	0.3423	1.7058	0.0073687	0.036721
1.75	1.5422	2.1238	0.5816	2.2874	0.0125202	0.0492412
2	1.5301	2.2934	0.7633	3.0507	0.0164317	0.0656728
2.25	1.5078	2.3848	0.877	3.9277	0.0188793	0.0845521
2.5	1.4488	2.4749	1.0261	4.9538	0.022089	0.1066411
2.75	1.5314	2.961	1.4296	6.3834	0.0307752	0.1374163
3	1.5585	4.0476	2.4891	8.8725	0.0535832	0.1909995
3.25	1.5165	7.1027	5.5862	14.4587	0.1202549	0.3112544
3.5	1.5154	8.7699	7.2545	21.7132	0.1561686	0.467423
3.75	1.4809	15.217	13.7361	35.4493	0.2956989	0.7631219
4	1.519	12.5227	11.0037	46.453	0.2368781	1
PAN	0	0	0	46.453	0	1

Total Wt. 46.453 gms
 Median Weight 23.2265 gms
 Mean Grain Size 3.53 phi 0.0865693 mm
 % Silt and Clay 27.38

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 6



Sand-Sized Grain Distribution Chart

GRAB SAMPLE
FGS T-1 STATION 7

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979					
-0.75	1.513					
-0.5	1.4788					
-0.25	1.5302					
0	1.5305					
0.25	1.5231					
0.5	1.5218					
0.75	1.482					
1	1.5257					
1.25	1.5266					
1.5	1.5317					
1.75	1.5422					
2	1.5301					
2.25	1.5078					
2.5	1.4488					
2.75	1.5314					
3	1.5585					
3.25	1.5165					
3.5	1.5154					
3.75	1.4809					
4	1.519					
PAN	0					

Due to insufficient sand-size material,
no granulometrics were carried out
on this sample.

Total Wt. 6.4008 gms
% Silt and Clay 82.15

Sand-Sized Grain Distribution Chart

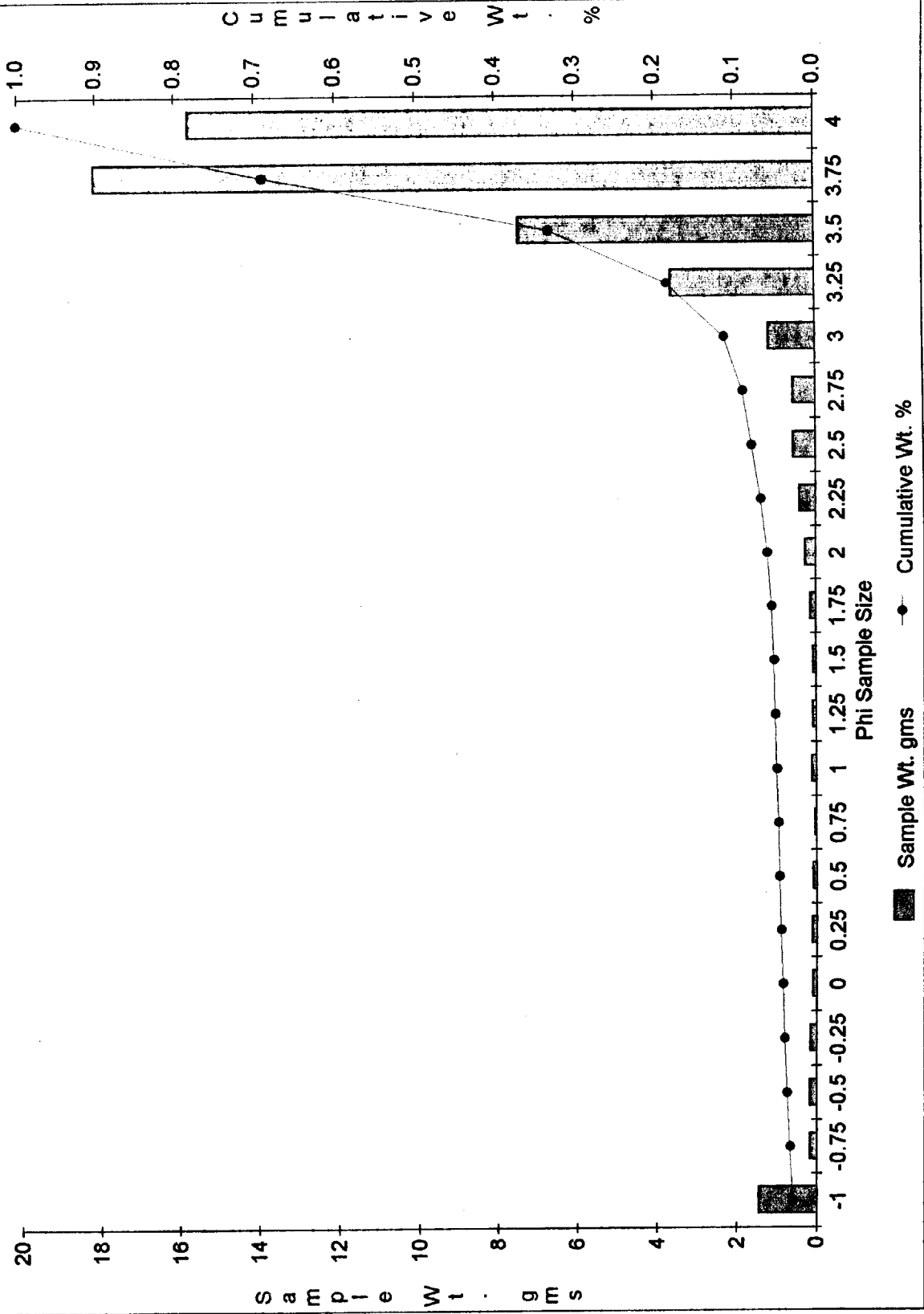
GRAB SAMPLE
FGS T-1 STATION 8

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.95	1.4521	1.4521	0.0288	0.0288
-0.75	1.513	1.689	0.176	1.6281	0.0034907	0.0322906
-0.5	1.4788	1.6588	0.18	1.8081	0.00357	0.0358606
-0.25	1.5302	1.6891	0.1589	1.967	0.0031515	0.0390121
0	1.5305	1.6308	0.1003	2.0673	0.0019893	0.0410014
0.25	1.5231	1.636	0.1129	2.1802	0.0022392	0.0432406
0.5	1.5218	1.6029	0.0811	2.2613	0.0016085	0.0448491
0.75	1.482	1.5152	0.0332	2.2945	0.0006585	0.0455076
1	1.5257	1.6421	0.1164	2.4109	0.0023086	0.0478162
1.25	1.5266	1.61	0.0834	2.4943	0.0016541	0.0494703
1.5	1.5317	1.6002	0.0685	2.5628	0.0013586	0.0508288
1.75	1.5422	1.6853	0.1431	2.7059	0.0028381	0.053667
2	1.5301	1.7958	0.2657	2.9716	0.0052697	0.0589367
2.25	1.5078	1.9153	0.4075	3.3791	0.0080821	0.0670188
2.5	1.4488	2.01	0.5612	3.9403	0.0111305	0.0781492
2.75	1.5314	2.099	0.5676	4.5079	0.0112574	0.0894066
3	1.5585	2.7242	1.1657	5.6736	0.0231197	0.1125263
3.25	1.5165	5.1286	3.6121	9.2857	0.0716399	0.1841663
3.5	1.5154	8.9371	7.4217	16.7074	0.147197	0.3313632
3.75	1.4809	19.5338	18.0529	34.7603	0.358049	0.6894122
4	1.519	17.1789	15.6599	50.4202	0.3105878	1
PAN	0	0	0	50.4202	0	1

Total Wt. 50.4202 gms
 Median Weight 25.2101 gms
 Mean Grain Size 3.62 phi 0.0813339 mm
 % Silt and Clay 28.48

Sand-Sized Grain Distribution Chart

FGS T-1 STATION 8



Sand-Sized Grain Distribution Chart

GRAB SAMPLE
FGST-2 STATION 2

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.545	0.0471	0.0471	0.0006602	0.0006602
-0.75	1.513	1.5302	0.0172	0.0643	0.0002411	0.0009013
-0.5	1.4788	1.4934	0.0146	0.0789	0.0002046	0.0011059
-0.25	1.5302	1.5473	0.0171	0.096	0.0002397	0.0013456
0	1.5305	1.5508	0.0203	0.1163	0.0002845	0.0016302
0.25	1.5231	1.561	0.0379	0.1542	0.0005312	0.0021614
0.5	1.5218	1.59	0.0682	0.2224	0.000956	0.0031174
0.75	1.482	1.699	0.217	0.4394	0.0030417	0.0061591
1	1.5257	2.7743	1.2486	1.688	0.0175016	0.0236607
1.25	1.5266	5.5612	4.0346	5.7226	0.0565529	0.0802136
1.5	1.5317	7.5106	5.9789	11.7015	0.0838062	0.1640198
1.75	1.5422	14.7939	13.2517	24.9532	0.1857489	0.3497687
2	1.5301	16.2631	14.733	39.6862	0.2065123	0.556281
2.25	1.5078	14.847	13.3392	53.0254	0.1869754	0.7432564
2.5	1.4488	7.2868	5.838	58.8634	0.0818312	0.8250876
2.75	1.5314	3.104	1.5726	60.436	0.0220431	0.8471307
3	1.5585	2.8978	1.3393	61.7753	0.018773	0.8659037
3.25	1.5165	3.7108	2.1943	63.9696	0.0307575	0.8966612
3.5	1.5154	3.6257	2.1103	66.0799	0.0295801	0.9262412
3.75	1.4809	4.438	2.9571	69.037	0.0414496	0.9676908
4	1.519	3.824	2.305	71.342	0.0323092	1
PAN	0	0	0	71.342	0	1

Total Wt. 71.342 gms

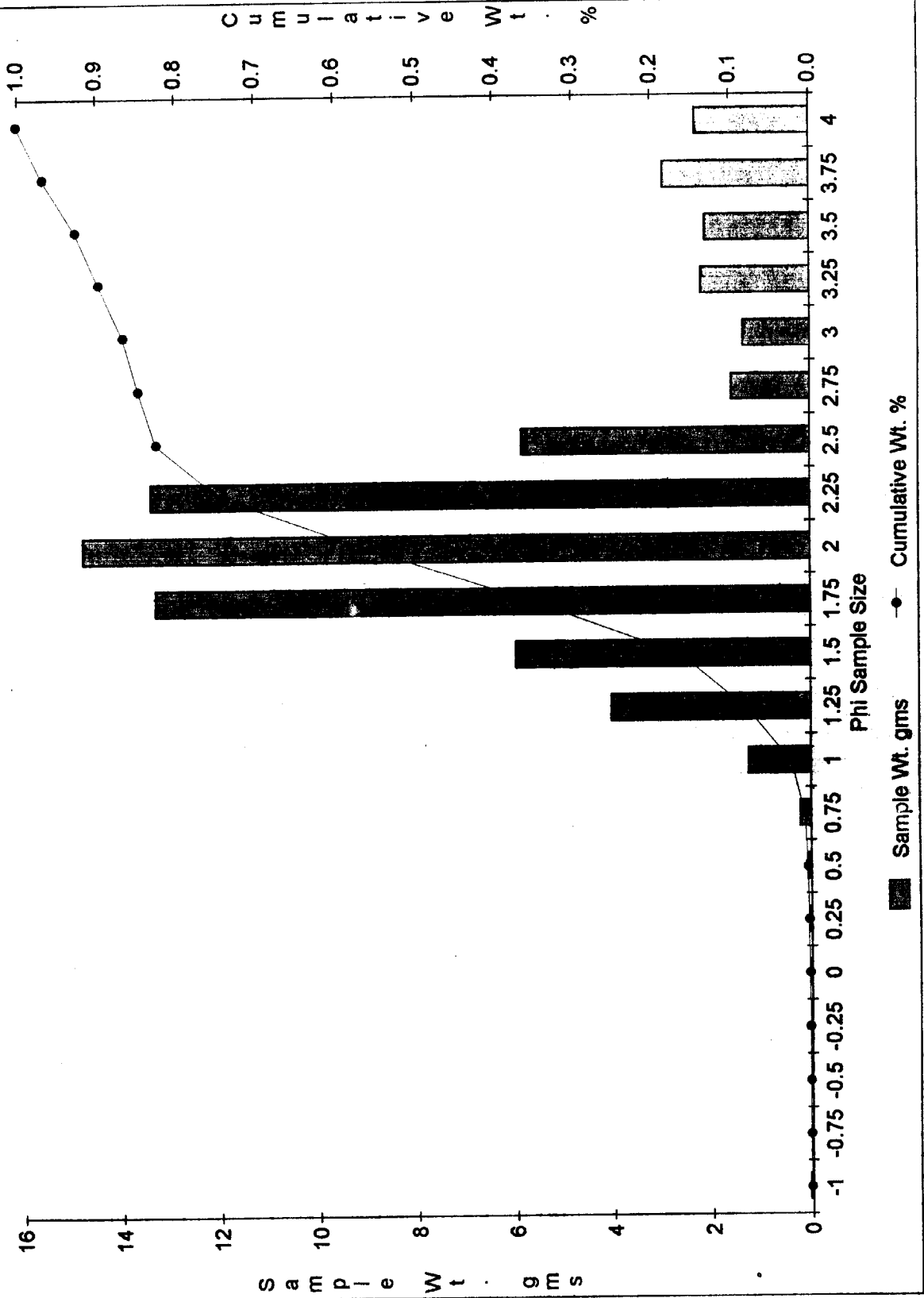
Median Weight 35.671 gms

Mean Grain Size 1.93 phi 0.2624292 mm

% Silt and Clay 20.42

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 2



Sand-Sized Grain Distribution Chart

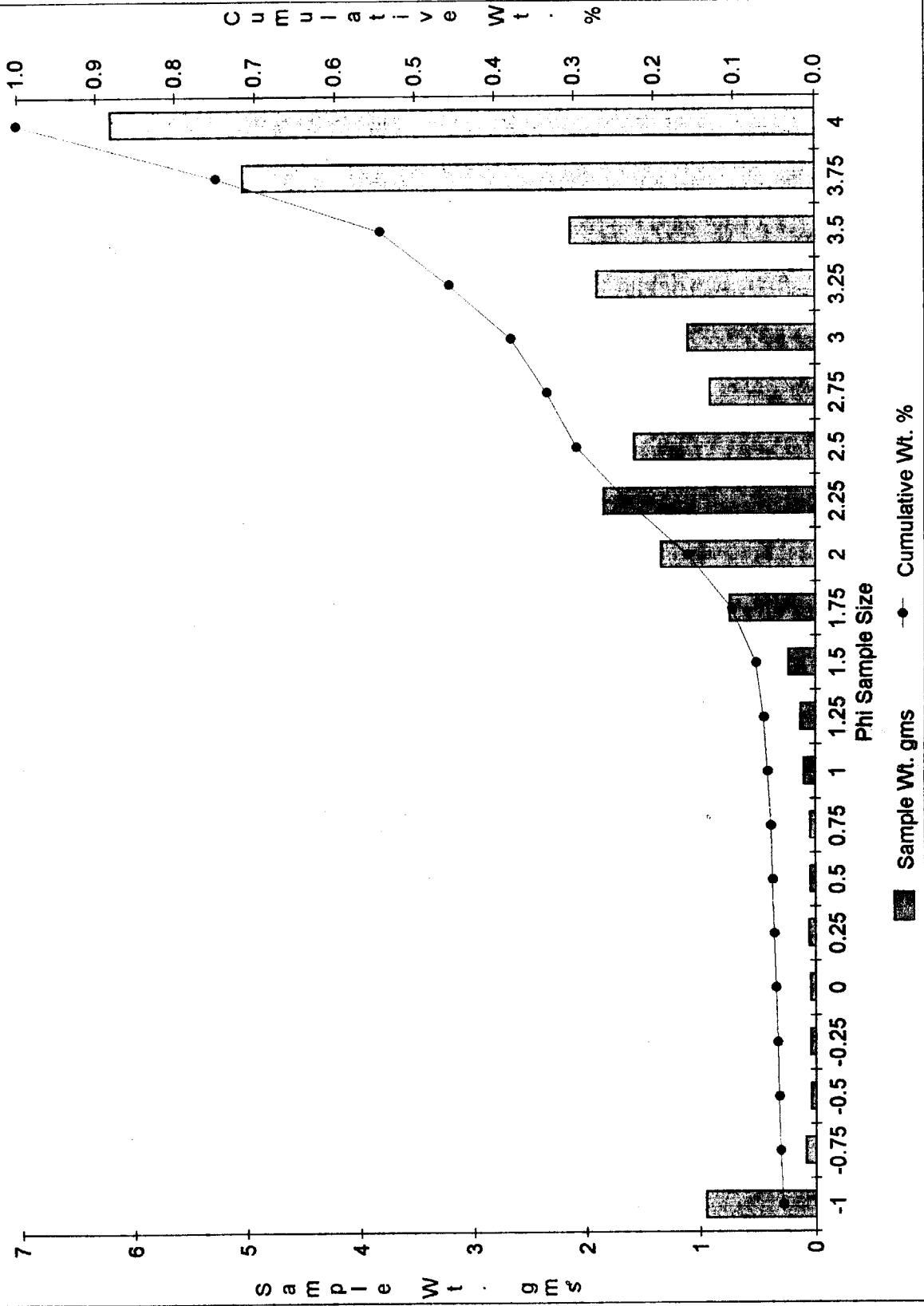
GRAB SAMPLE
FGS T-2 STATION 3

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.4495	0.9516	0.9516	0.0388281	0.0388281
-0.75	1.513	1.596	0.083	1.0346	0.0033866	0.0422148
-0.5	1.4788	1.5178	0.039	1.0736	0.0015913	0.0438061
-0.25	1.5302	1.5732	0.043	1.1166	0.0017545	0.0455606
0	1.5305	1.5741	0.0436	1.1602	0.001779	0.0473396
0.25	1.5231	1.5809	0.0578	1.218	0.0023584	0.0496981
0.5	1.5218	1.5674	0.0456	1.2636	0.0018606	0.0515587
0.75	1.482	1.5242	0.0422	1.3058	0.0017219	0.0532806
1	1.5257	1.6224	0.0967	1.4025	0.0039457	0.0572262
1.25	1.5266	1.654	0.1274	1.5299	0.0051983	0.0624245
1.5	1.5317	1.7639	0.2322	1.7621	0.0094745	0.071899
1.75	1.5422	2.2846	0.7424	2.5045	0.0302921	0.1021911
2	1.5301	2.8731	1.343	3.8475	0.0547984	0.1569896
2.25	1.5078	3.3512	1.8434	5.6909	0.0752163	0.2322058
2.5	1.4488	3.0228	1.574	7.2649	0.0642239	0.2964297
2.75	1.5314	2.4455	0.9141	8.179	0.037298	0.3337278
3	1.5585	2.663	1.1045	9.2835	0.0450669	0.3787947
3.25	1.5165	3.4204	1.9039	11.1874	0.0776848	0.4564795
3.5	1.5154	3.6526	2.1372	13.3246	0.0872042	0.5436837
3.75	1.4809	6.4943	5.0134	18.338	0.2045618	0.7482455
4	1.519	7.689	6.17	24.508	0.2517545	1
PAN	0	0	0	24.508	0	1

Total Wt. 24.508 gms
 Median Weight 12.254 gms
 Mean Grain Size 3.37 phi 0.0967228 mm
 % Silt and Clay 55.1

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 3



Sand-Sized Grain Distribution Chart

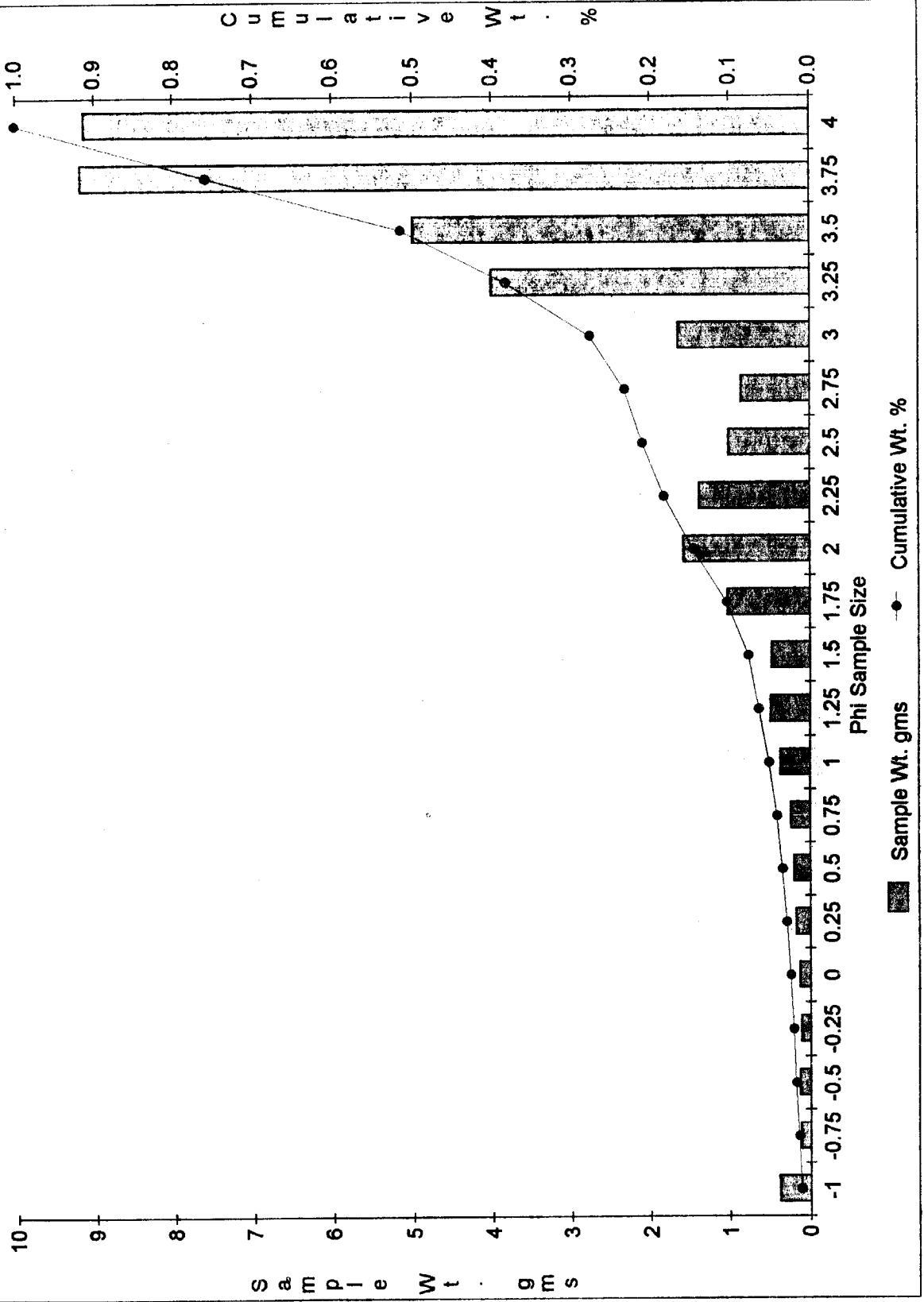
GRAB SAMPLE
FGST-2 STATION 4

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.8797	0.3818	0.3818	0.0101289	0.0101289
-0.75	1.513	1.6353	0.1223	0.5041	0.0032445	0.0133734
-0.5	1.4788	1.6121	0.1333	0.6374	0.0035363	0.0169097
-0.25	1.5302	1.644	0.1138	0.7512	0.003019	0.0199287
0	1.5305	1.6649	0.1344	0.8856	0.0035655	0.0234943
0.25	1.5231	1.7041	0.181	1.0666	0.0048018	0.0282961
0.5	1.5218	1.724	0.2022	1.2688	0.0053642	0.0336603
0.75	1.482	1.7259	0.2439	1.5127	0.0064705	0.0401307
1	1.5257	1.8941	0.3684	1.8811	0.0097734	0.0499041
1.25	1.5266	2.0161	0.4895	2.3706	0.012986	0.0628901
1.5	1.5317	2.012	0.4803	2.8509	0.012742	0.0756321
1.75	1.5422	2.569	1.0268	3.8777	0.0272402	0.1028723
2	1.5301	3.1137	1.5836	5.4613	0.0420117	0.144884
2.25	1.5078	2.896	1.3882	6.8495	0.0368278	0.1817118
2.5	1.4488	2.4638	1.015	7.8645	0.0269271	0.208639
2.75	1.5314	2.386	0.8546	8.7191	0.0226719	0.2313108
3	1.5585	3.2091	1.6506	10.3697	0.0437891	0.2750999
3.25	1.5165	5.5285	4.012	14.3817	0.1064352	0.3815351
3.5	1.5154	6.5135	4.9981	19.3798	0.1325956	0.5141308
3.75	1.4809	10.6597	9.1788	28.5586	0.2435063	0.7576371
4	1.519	10.6547	9.1357	37.6943	0.2423629	1
PAN		0	0	37.6943	0	1

Total Wt. 37.6943 gms
 Median Weight 18.84715 gms
 Mean Grain Size 3.47 phi 0.0902456 mm
 % Silt and Clay 52.17

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 4



Sand-Sized Grain Distribution Chart

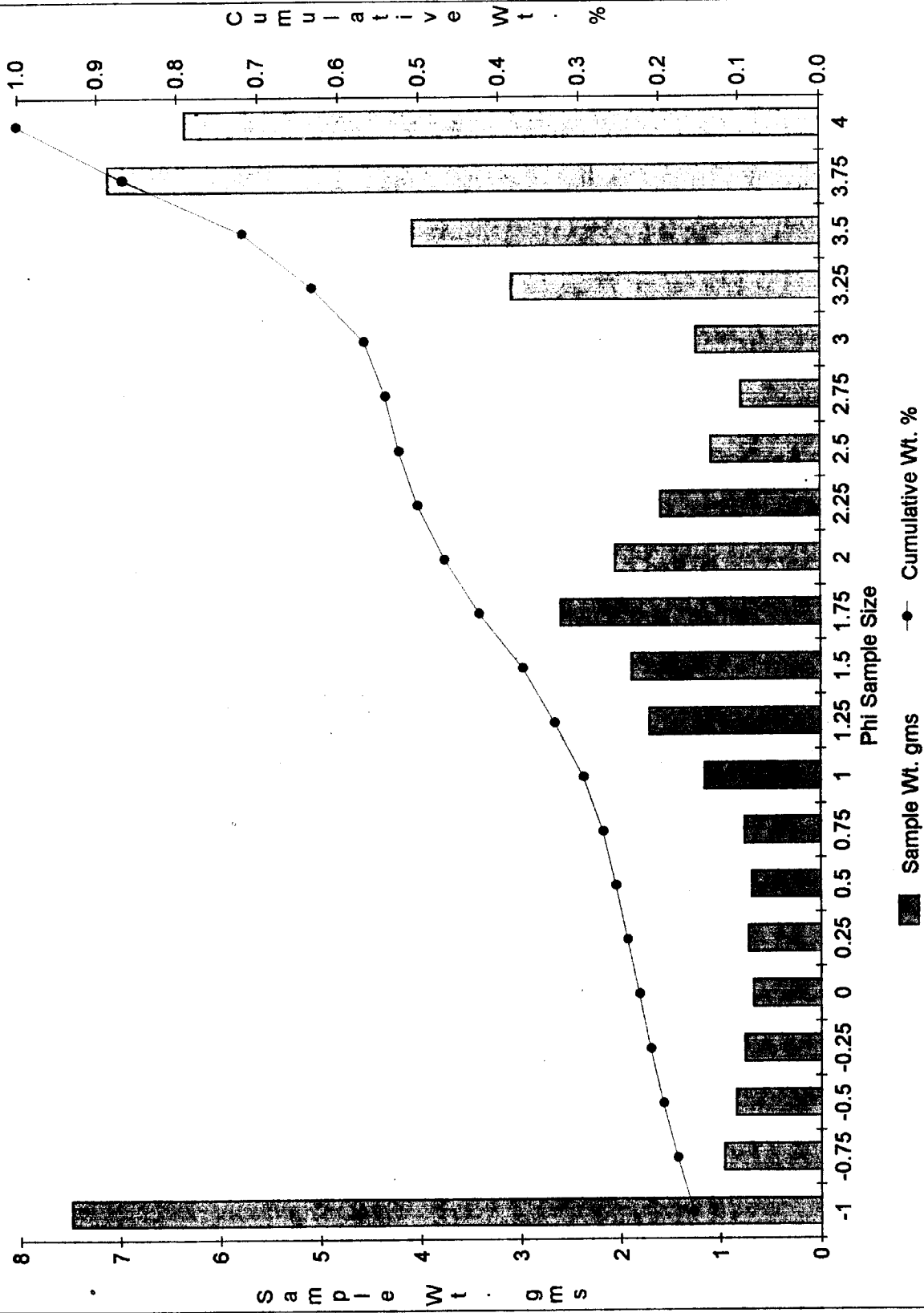
GRAB SAMPLE
FGS T-2 STATION 5

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	8.9874	7.4895	7.4895	0.1574645	0.1574645
-0.75	1.513	2.4763	0.9633	8.4528	0.0202531	0.1777176
-0.5	1.4788	2.3205	0.8417	9.2945	0.0176965	0.1954141
-0.25	1.5302	2.2873	0.7571	10.0516	0.0159178	0.2113319
0	1.5305	2.2009	0.6704	10.722	0.014095	0.2254269
0.25	1.5231	2.2437	0.7206	11.4426	0.0151504	0.2405773
0.5	1.5218	2.209	0.6872	12.1298	0.0144482	0.2550254
0.75	1.482	2.2371	0.7551	12.8849	0.0158758	0.2709012
1	1.5257	2.6833	1.1576	14.0425	0.0243382	0.2952394
1.25	1.5266	3.2353	1.7087	15.7512	0.0359249	0.3311643
1.5	1.5317	3.4198	1.8881	17.6393	0.0396967	0.370861
1.75	1.5422	4.1348	2.5926	20.2319	0.0545086	0.4253697
2	1.5301	3.5804	2.0503	22.2822	0.0431069	0.4684766
2.25	1.5078	3.1018	1.594	23.8762	0.0335134	0.50199
2.5	1.4488	2.5405	1.0917	24.9679	0.0229527	0.5249427
2.75	1.5314	2.3212	0.7898	25.7577	0.0166053	0.541548
3	1.5585	2.797	1.2385	26.9962	0.0260391	0.5675871
3.25	1.5165	4.5968	3.0803	30.0765	0.0647624	0.6323494
3.5	1.5154	5.5839	4.0685	34.145	0.085539	0.7178884
3.75	1.4809	8.5734	7.0925	41.2375	0.1491177	0.8670061
4	1.519	7.8446	6.3256	47.5631	0.1329939	1
PAN	0	0	0	47.5631	0	1

Total Wt. 47.5631 gms
 Median Weight 23.78155 gms
 Mean Grain Size 2.24 phi 0.2116863 mm
 % Silt and Clay 25.5

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 5



Sand-Sized Grain Distribution Chart

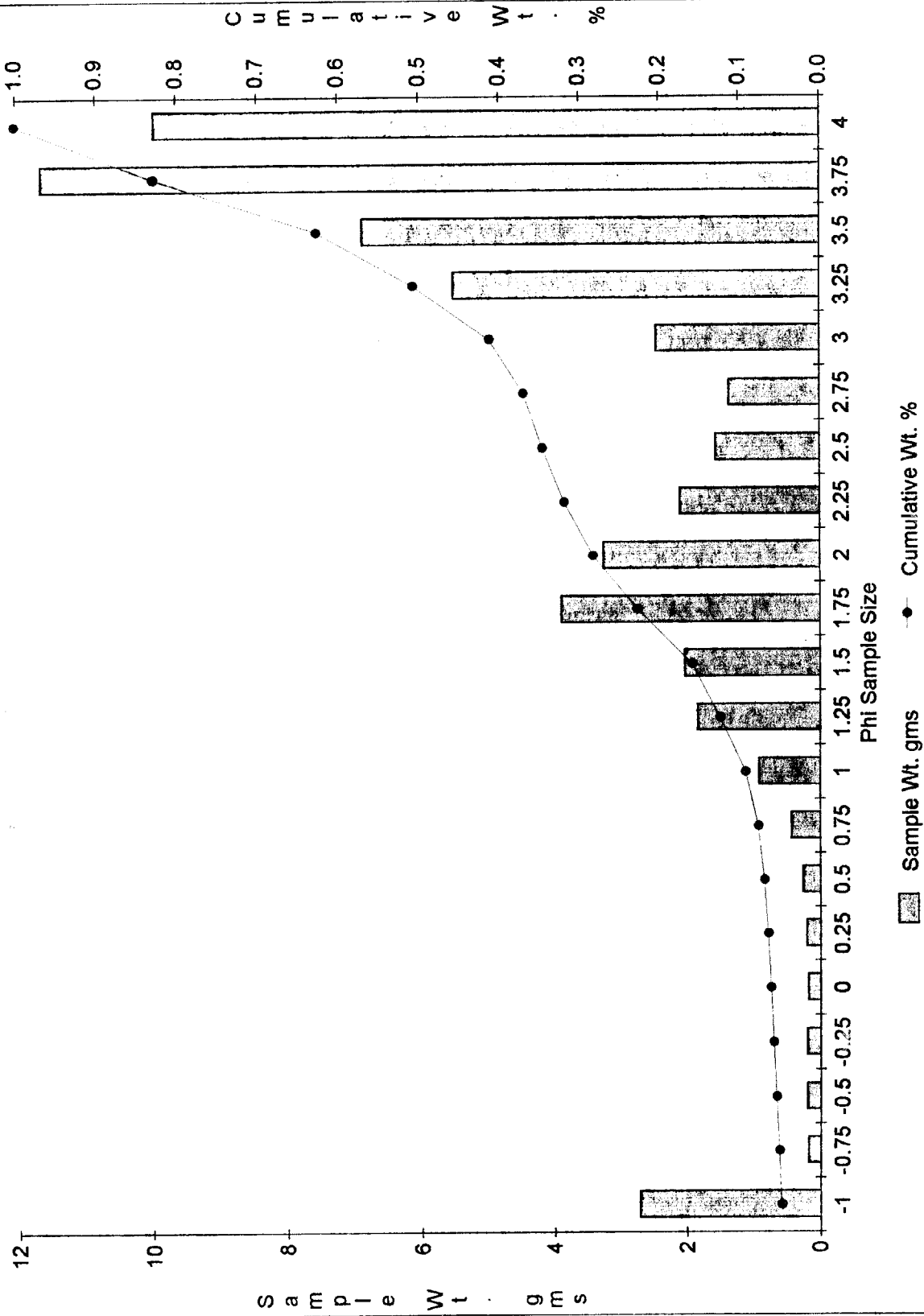
GRAB SAMPLE
FGS T-2 STATION 6

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	4.2085	2.7106	2.7106	0.0470389	0.0470389
-0.75	1.513	1.6981	0.1851	2.8957	0.0032122	0.050251
-0.5	1.4788	1.6748	0.196	3.0917	0.0034013	0.0536523
-0.25	1.5302	1.7248	0.1946	3.2863	0.003377	0.0570294
0	1.5305	1.7107	0.1802	3.4665	0.0031271	0.0601565
0.25	1.5231	1.7321	0.209	3.6755	0.0036269	0.0637834
0.5	1.5218	1.7843	0.2625	3.938	0.0045553	0.0683388
0.75	1.482	1.9098	0.4278	4.3658	0.0074239	0.0757627
1	1.5257	2.4357	0.91	5.2758	0.0157918	0.0915545
1.25	1.5266	3.3573	1.8307	7.1065	0.0317694	0.1233239
1.5	1.5317	3.5557	2.024	9.1305	0.0351238	0.1584477
1.75	1.5422	5.4271	3.8849	13.0154	0.0674173	0.225865
2	1.5301	4.7796	3.2495	16.2649	0.0563907	0.2822557
2.25	1.5078	3.5997	2.0919	18.3568	0.0363021	0.3185578
2.5	1.4488	3.0045	1.5557	19.9125	0.0269971	0.3455549
2.75	1.5314	2.8913	1.3599	21.2724	0.0235993	0.3691542
3	1.5585	4.0076	2.4491	23.7215	0.0425009	0.4116551
3.25	1.5165	7.0089	5.4924	29.2139	0.0953133	0.5069684
3.5	1.5154	8.3662	6.8508	36.0647	0.1188865	0.6258549
3.75	1.4809	13.1074	11.6265	47.6912	0.2017624	0.8276173
4	1.519	11.4525	9.9335	57.6247	0.1723627	1
PAN	0	0	0	57.6247	0	1

Total Wt. 57.6247 gms
 Median Weight 28.81235 gms
 Mean Grain Size 3.23 phi 0.1065794 mm
 % Silt and Clay 19.34

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 6



Sand-Sized Grain Distribution Chart

GRAB SAMPLE
FGST-2 STATION 7

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.618	1.1201	1.1201	0.0249505	0.0249505
-0.75	1.513	1.7226	0.2096	1.3297	0.0046689	0.0296194
-0.5	1.4788	1.6099	0.1311	1.4608	0.0029203	0.0325397
-0.25	1.5302	1.6565	0.1263	1.5871	0.0028134	0.0353531
0	1.5305	1.6298	0.0993	1.6864	0.0022119	0.037565
0.25	1.5231	1.622	0.0989	1.7853	0.002203	0.0397681
0.5	1.5218	1.5918	0.07	1.8553	0.0015593	0.0413273
0.75	1.482	1.5439	0.0619	1.9172	0.0013788	0.0427062
1	1.5257	1.6243	0.0986	2.0158	0.0021963	0.0449025
1.25	1.5266	1.5832	0.0566	2.0724	0.0012608	0.0461633
1.5	1.5317	1.5802	0.0485	2.1209	0.0010804	0.0472437
1.75	1.5422	1.6187	0.0765	2.1974	0.0017041	0.0489477
2	1.5301	1.6652	0.1351	2.3325	0.0030094	0.0519571
2.25	1.5078	1.7842	0.2764	2.6089	0.0061569	0.058114
2.5	1.4488	1.9811	0.5323	3.1412	0.0118571	0.0699711
2.75	1.5314	2.2803	0.7489	3.8901	0.016682	0.0866531
3	1.5585	3.176	1.6175	5.5076	0.0360303	0.1226834
3.25	1.5165	5.8685	4.352	9.8596	0.096942	0.2196254
3.5	1.5154	8.5915	7.0761	16.9357	0.1576222	0.3772476
3.75	1.4809	16.2779	14.797	31.7327	0.3296074	0.706855
4	1.519	14.6791	13.1601	44.8928	0.293145	1
PAN	0	0	0	44.8928	0	1

Total Wt. 44.8928 gms

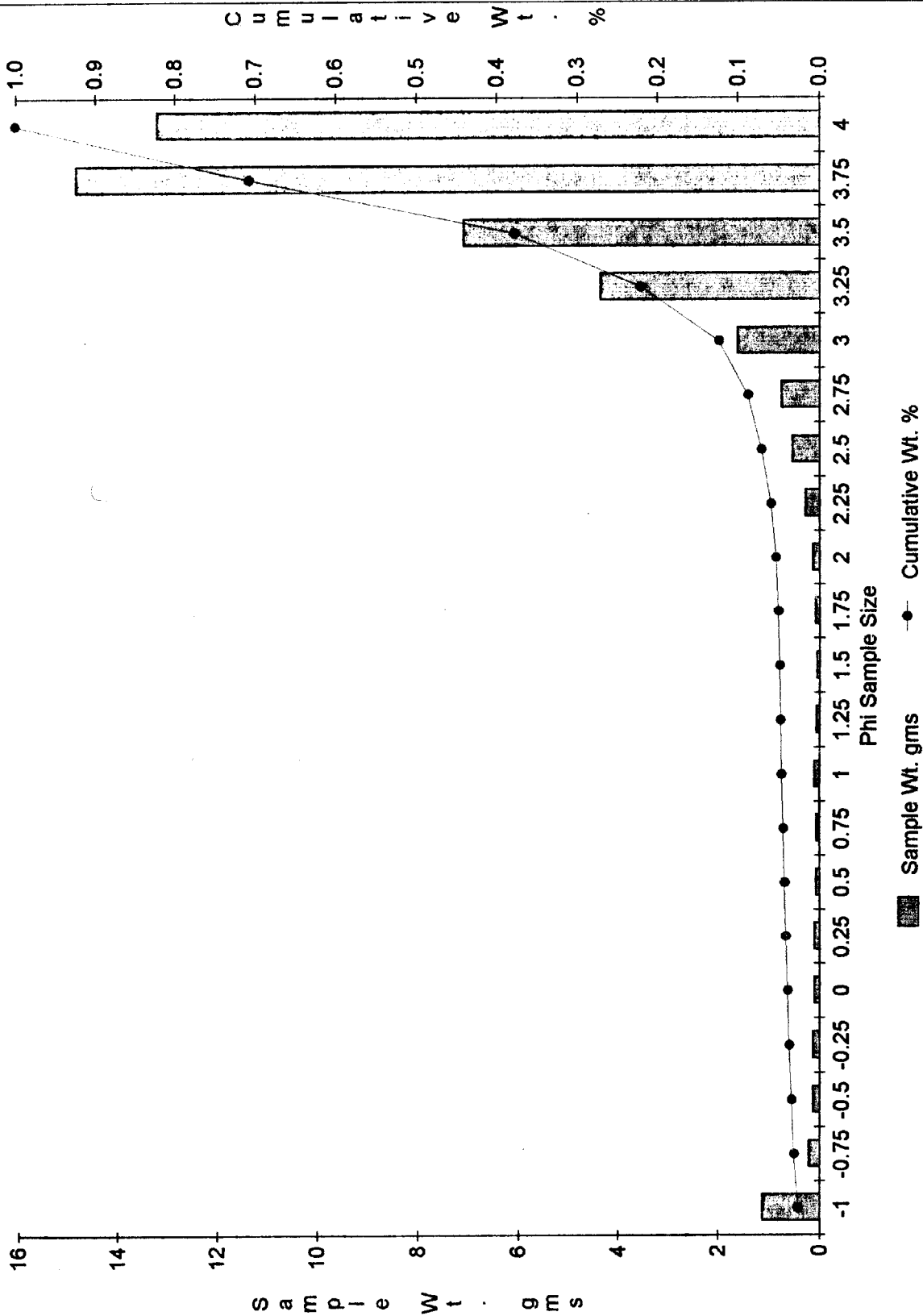
Median Weight 22.4464 gms

Mean Grain Size 3.59 phi 0.0830429 mm

% Silt and Clay 38.86

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 7



Sand-Sized Grain Distribution Chart

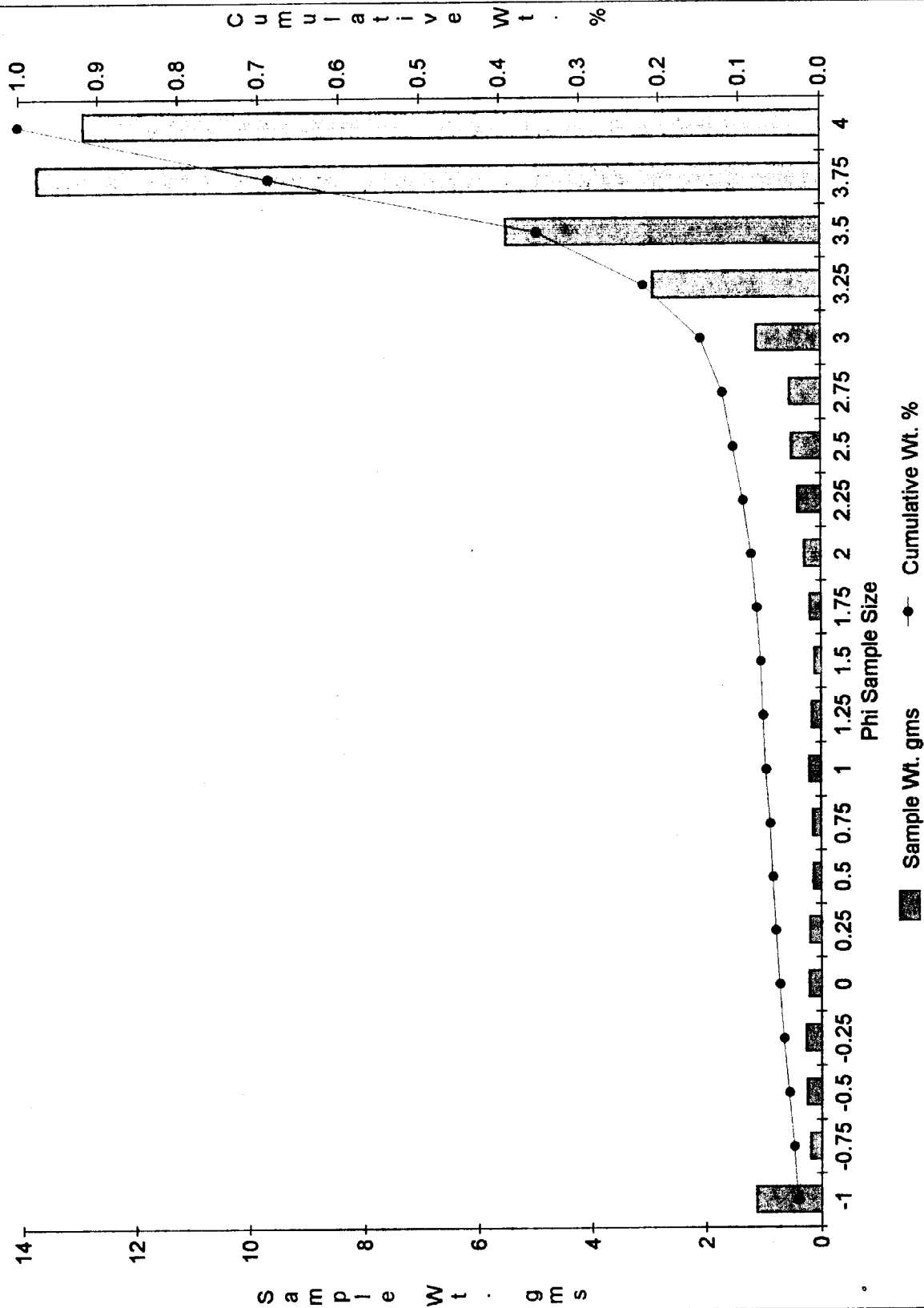
GRAB SAMPLE
FGS T-2 STATION 8

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	2.6375	1.1396	1.1396	0.0277787	0.0277787
-0.75	1.513	1.7114	0.1984	1.338	0.0048362	0.0326149
-0.5	1.4788	1.7294	0.2506	1.5886	0.0061086	0.0387235
-0.25	1.5302	1.7946	0.2644	1.853	0.006445	0.0451685
0	1.5305	1.742	0.2115	2.0645	0.0051555	0.050324
0.25	1.5231	1.7203	0.1972	2.2617	0.0048069	0.0551309
0.5	1.5218	1.6572	0.1354	2.3971	0.0033005	0.0584314
0.75	1.482	1.6211	0.1391	2.5362	0.0033907	0.061822
1	1.5257	1.7344	0.2087	2.7449	0.0050872	0.0669093
1.25	1.5266	1.6833	0.1567	2.9016	0.0038197	0.070729
1.5	1.5317	1.6479	0.1162	3.0178	0.0028325	0.0735615
1.75	1.5422	1.7371	0.1949	3.2127	0.0047509	0.0783123
2	1.5301	1.8146	0.2845	3.4972	0.0069349	0.0852472
2.25	1.5078	1.9105	0.4027	3.8999	0.0098162	0.0950634
2.5	1.4488	1.9548	0.506	4.4059	0.0123342	0.1073976
2.75	1.5314	2.0657	0.5343	4.9402	0.013024	0.1204216
3	1.5585	2.6769	1.1184	6.0586	0.027262	0.1476836
3.25	1.5165	4.4352	2.9187	8.9773	0.0711458	0.2188294
3.5	1.5154	7.0144	5.499	14.4763	0.1340428	0.3528722
3.75	1.4809	15.1652	13.6843	28.1606	0.3335665	0.6864387
4	1.519	14.3826	12.8636	41.0242	0.3135613	1
PAN	0	0	0	41.0242	0	1

Total Wt.	41.0242 gms	
Median Weight	20.5121 gms	
Mean Grain Size	3.61 phi	0.0818996 mm
% Silt and Clay	49.12	

Sand-Sized Grain Distribution Chart

FGS T-2 STATION 8



Sand-Sized Grain Distribution Chart

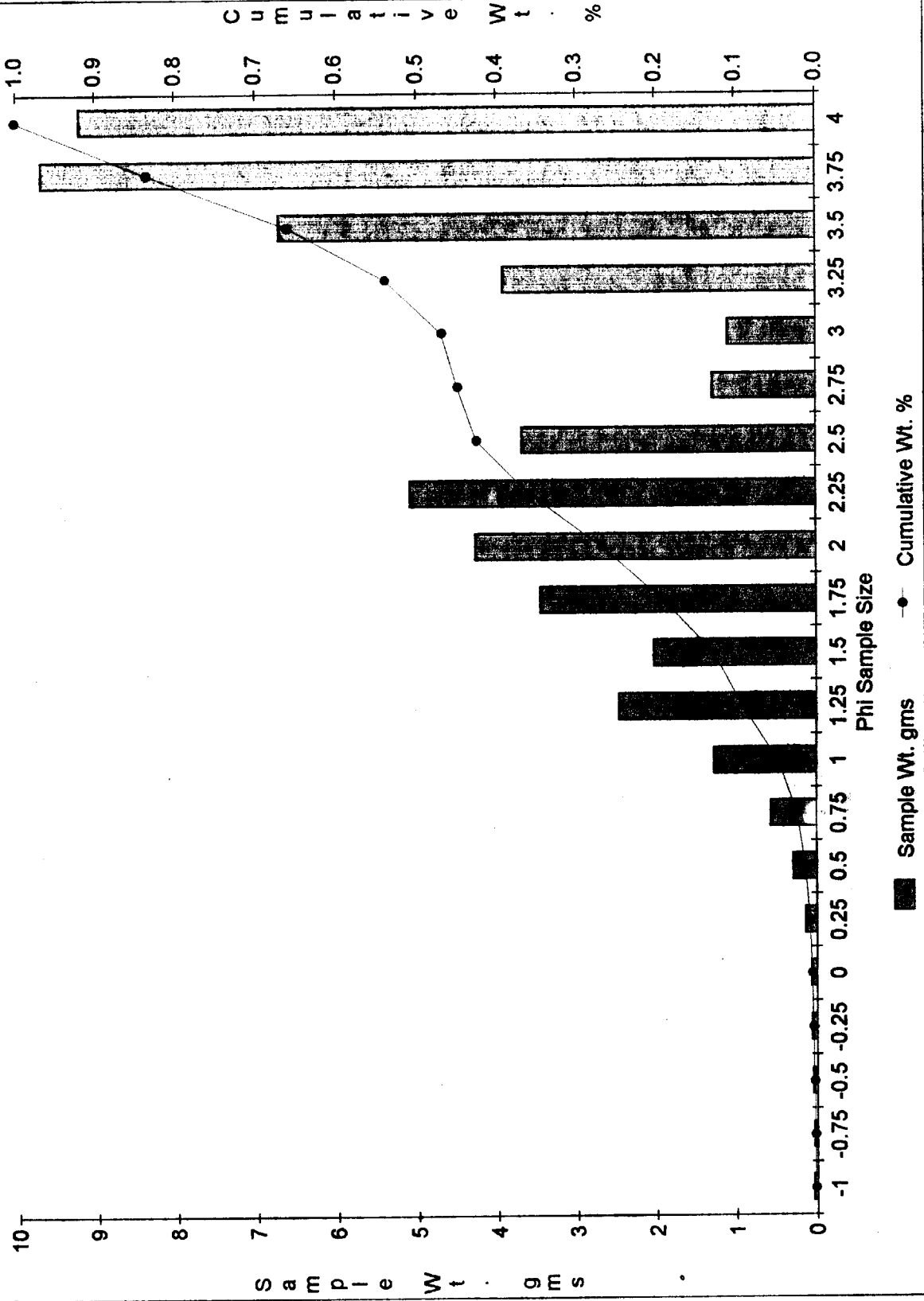
GRAB SAMPLE
FGS T-3 STATION 1

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.5423	0.0444	0.0444	0.0008003	0.0008003
-0.75	1.513	1.5483	0.0353	0.0797	0.0006363	0.0014366
-0.5	1.4788	1.5303	0.0515	0.1312	0.0009283	0.0023649
-0.25	1.5302	1.5914	0.0612	0.1924	0.0011031	0.003468
0	1.5305	1.602	0.0715	0.2639	0.0012888	0.0047568
0.25	1.5231	1.6621	0.139	0.4029	0.0025055	0.0072622
0.5	1.5218	1.8116	0.2898	0.6927	0.0052236	0.0124858
0.75	1.482	2.0487	0.5667	1.2594	0.0102147	0.0227005
1	1.5257	2.8065	1.2808	2.5402	0.0230862	0.0457867
1.25	1.5266	3.9931	2.4665	5.0067	0.0444583	0.090245
1.5	1.5317	3.5582	2.0265	7.0332	0.0365273	0.1267723
1.75	1.5422	5.0048	3.4626	10.4958	0.0624128	0.1891851
2	1.5301	5.8068	4.2767	14.7725	0.0770868	0.2662719
2.25	1.5078	6.6083	5.1005	19.873	0.0919357	0.3582076
2.5	1.4488	5.1403	3.6915	23.5645	0.0665387	0.4247463
2.75	1.5314	2.8236	1.2922	24.8567	0.0232917	0.448038
3	1.5585	2.6597	1.1012	25.9579	0.019849	0.4678869
3.25	1.5165	5.4419	3.9254	29.8833	0.0707547	0.5386416
3.5	1.5154	8.2235	6.7081	36.5914	0.1209124	0.6595541
3.75	1.4809	11.1693	9.6884	46.2798	0.1746318	0.8341859
4	1.519	10.7182	9.1992	55.479	0.1658141	1
PAN	0	0	0	55.479	0	1

Total Wt. 55.479 gms
 Median Weight 27.7395 gms
 Mean Grain Size 3.11 phi 0.1158235 mm
 % Silt and Clay 34.77

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 1



Sand-Sized Grain Distribution Chart

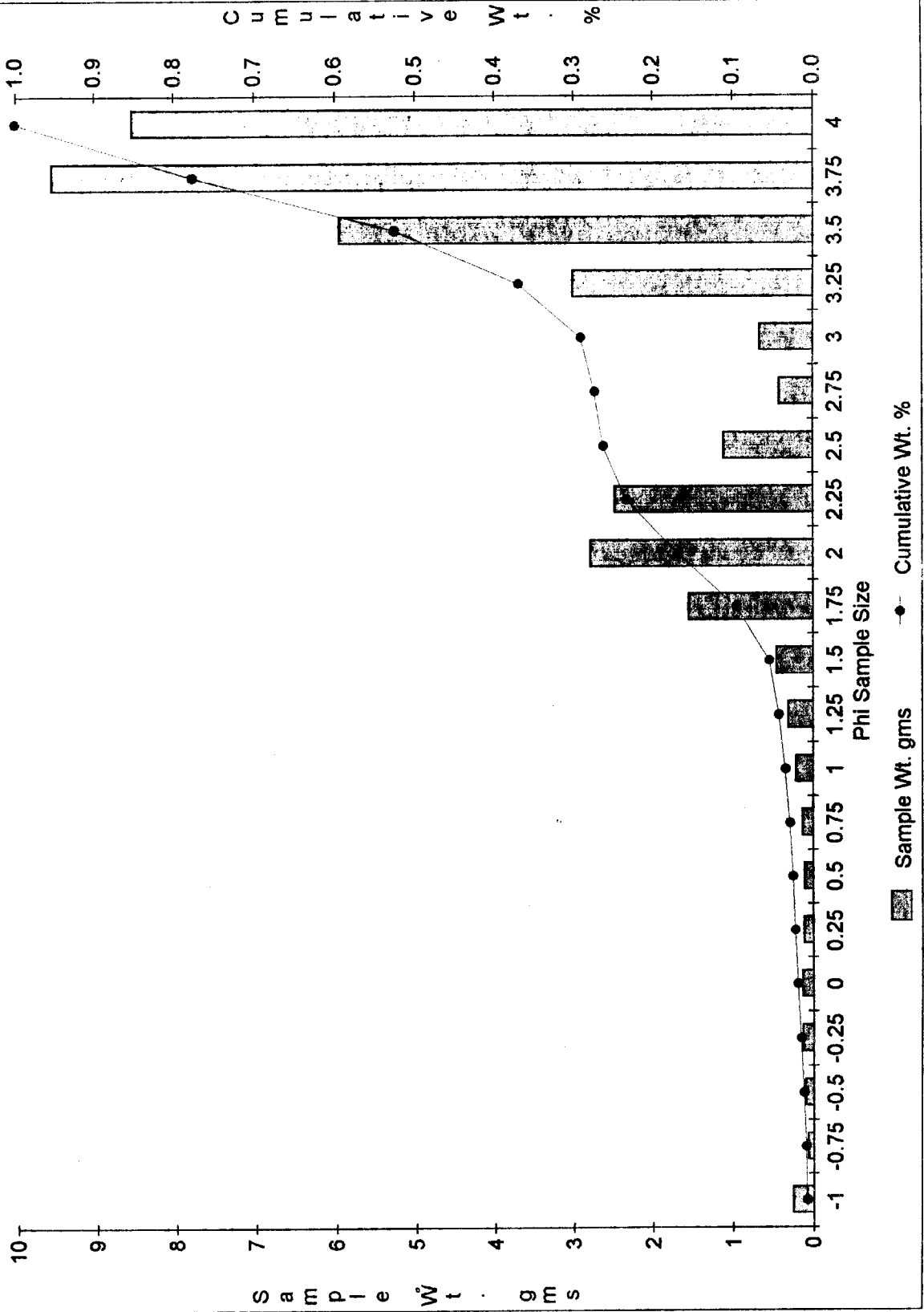
GRAB SAMPLE
FGS T-3 STATION 2

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.7538	0.2559	0.2559	0.0067225	0.0067225
-0.75	1.513	1.5785	0.0655	0.3214	0.0017207	0.0084432
-0.5	1.4788	1.5762	0.0974	0.4188	0.0025587	0.0110019
-0.25	1.5302	1.6614	0.1312	0.55	0.0034466	0.0144485
0	1.5305	1.661	0.1305	0.6805	0.0034282	0.0178767
0.25	1.5231	1.6397	0.1166	0.7971	0.0030631	0.0209398
0.5	1.5218	1.6302	0.1084	0.9055	0.0028477	0.0237874
0.75	1.482	1.6178	0.1358	1.0413	0.0035675	0.0273549
1	1.5257	1.7376	0.2119	1.2532	0.0055666	0.0329215
1.25	1.5266	1.8341	0.3075	1.5607	0.008078	0.0409995
1.5	1.5317	1.9865	0.4548	2.0155	0.0119476	0.0529471
1.75	1.5422	3.0912	1.549	3.5645	0.0406922	0.0936393
2	1.5301	4.3181	2.788	6.3525	0.0732406	0.1668799
2.25	1.5078	3.9874	2.4796	8.8321	0.065139	0.2320189
2.5	1.4488	2.5628	1.114	9.9461	0.0292647	0.2612836
2.75	1.5314	1.9493	0.4179	10.364	0.0109782	0.2722618
3	1.5585	2.2234	0.6649	11.0289	0.0174669	0.2897287
3.25	1.5165	4.5298	3.0134	14.0423	0.0791619	0.3688906
3.5	1.5154	7.4671	5.9517	19.994	0.1563509	0.5252415
3.75	1.4809	11.0244	9.5435	29.5375	0.2507073	0.7759488
4	1.519	10.0478	8.5288	38.0663	0.2240512	1
PAN	0	0	0	38.0663	0	1

Total Wt. 38.0663 gms
 Median Weight 19.03315 gms
 Mean Grain Size 3.46 phi 0.0908733 mm
 % Silt and Clay 45.62

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 2



Sand-Sized Grain Distribution Chart

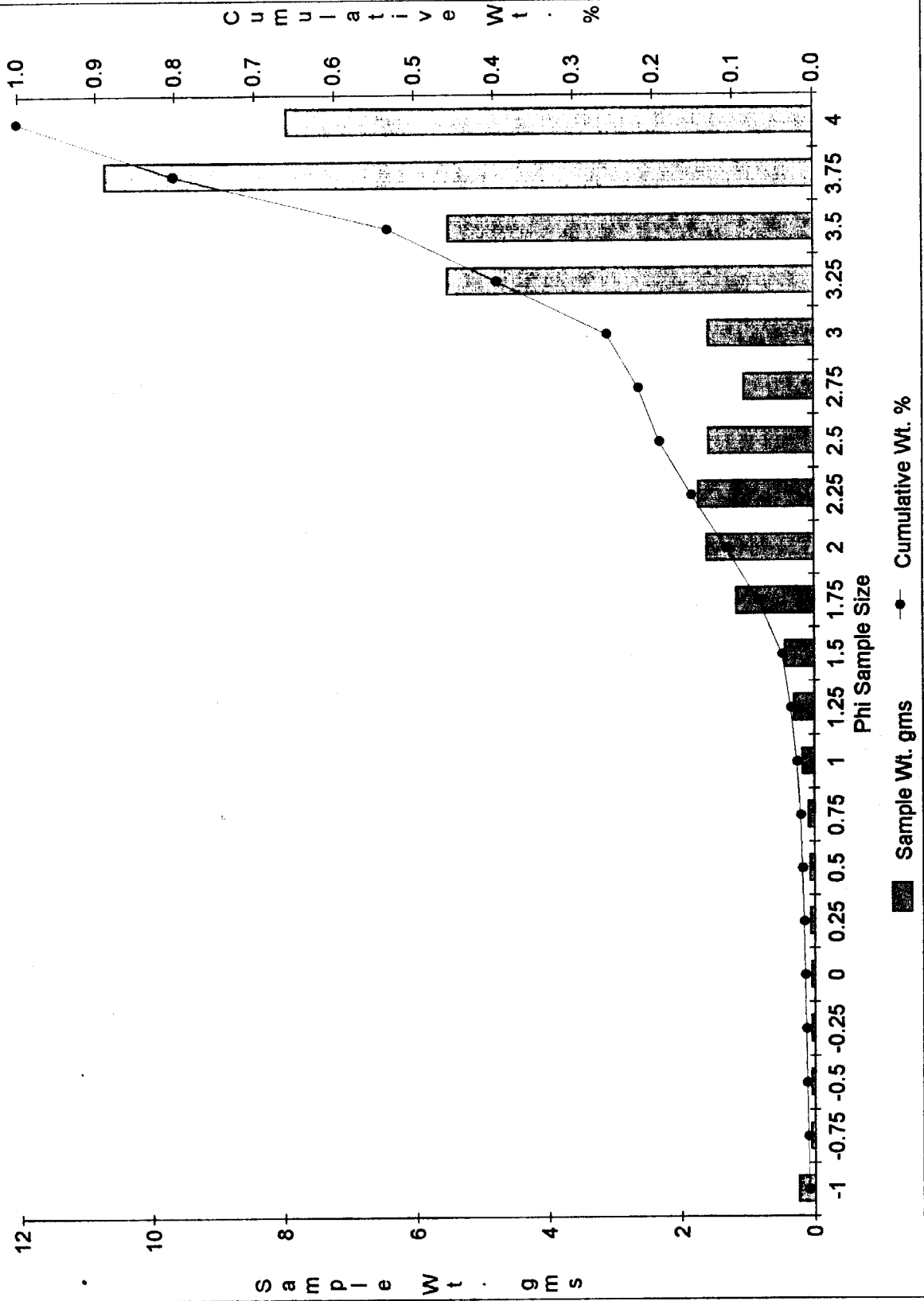
GRAB SAMPLE
FGST-3 STATION 3

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.7314	0.2335	0.2335	0.0058586	0.0058586
-0.75	1.513	1.5652	0.0522	0.2857	0.0013097	0.0071683
-0.5	1.4788	1.5235	0.0447	0.3304	0.0011215	0.0082898
-0.25	1.5302	1.5751	0.0449	0.3753	0.0011266	0.0094164
0	1.5305	1.5729	0.0424	0.4177	0.0010638	0.0104802
0.25	1.5231	1.581	0.0579	0.4756	0.0014527	0.011933
0.5	1.5218	1.5881	0.0663	0.5419	0.0016635	0.0135964
0.75	1.482	1.5716	0.0896	0.6315	0.0022481	0.0158445
1	1.5257	1.7015	0.1758	0.8073	0.0044109	0.0202554
1.25	1.5266	1.8338	0.3072	1.1145	0.0077077	0.0279632
1.5	1.5317	1.9672	0.4355	1.55	0.0109268	0.03889
1.75	1.5422	2.7057	1.1635	2.7135	0.0291926	0.0680826
2	1.5301	3.1406	1.6105	4.324	0.040408	0.1084906
2.25	1.5078	3.2436	1.7358	6.0598	0.0435518	0.1520424
2.5	1.4488	3.0264	1.5776	7.6374	0.0395825	0.1916248
2.75	1.5314	2.5748	1.0434	8.6808	0.0261792	0.2178041
3	1.5585	3.1408	1.5823	10.2631	0.0397004	0.2575045
3.25	1.5165	7.0279	5.5114	15.7745	0.1362828	0.3957873
3.5	1.5154	7.008	5.4926	21.2671	0.1378111	0.5335985
3.75	1.4809	12.1517	10.6708	31.9379	0.2677338	0.8013323
4	1.519	9.4371	7.9181	39.856	0.1986677	1
PAN	0	0	0	39.856	0	1

Total Wt.	39.856 gms
Median Weight	19.928 gms
Mean Grain Size	3.44 phi 0.0921418 mm
% Silt and Clay	43.01

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 3



Sand-Sized Grain Distribution Chart

GRAB SAMPLE
FGST-3 STATION 4

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	1.9984	0.5005	0.5005	0.009382	0.009382
-0.75	1.513	1.6477	0.1347	0.6352	0.002525	0.011907
-0.5	1.4788	1.6035	0.1247	0.7599	0.0023375	0.0142446
-0.25	1.5302	1.6566	0.1264	0.8863	0.0023694	0.016614
0	1.5305	1.6195	0.089	0.9753	0.0016683	0.0182823
0.25	1.5231	1.6233	0.1002	1.0755	0.0018783	0.0201606
0.5	1.5218	1.6062	0.0844	1.1599	0.0015821	0.0217427
0.75	1.482	1.5649	0.0829	1.2428	0.001554	0.0232967
1	1.5257	1.6813	0.1556	1.3984	0.0029168	0.0262134
1.25	1.5266	1.8046	0.278	1.6764	0.0052112	0.0314246
1.5	1.5317	2.0496	0.5179	2.1943	0.0097082	0.0411328
1.75	1.5422	2.9401	1.3979	3.5922	0.0262041	0.0673369
2	1.5301	3.9603	2.4302	6.0224	0.0455548	0.1128917
2.25	1.5078	4.5935	3.0857	9.1081	0.0578424	0.1707341
2.5	1.4488	4.0001	2.5513	11.6594	0.0478249	0.218559
2.75	1.5314	2.7414	1.21	12.8694	0.0226818	0.2412408
3	1.5585	3.1324	1.5739	14.4433	0.0295032	0.270744
3.25	1.5165	7.4953	5.9788	20.4221	0.1120744	0.3828184
3.5	1.5154	11.5052	9.9898	30.4119	0.1872618	0.5700802
3.75	1.4809	14.1584	12.6775	43.0894	0.2376436	0.8077238
4	1.519	11.7763	10.2573	53.3467	0.1922762	1
PAN	0	0	0	53.3467	0	1

Total Wt. 53.3467 gms

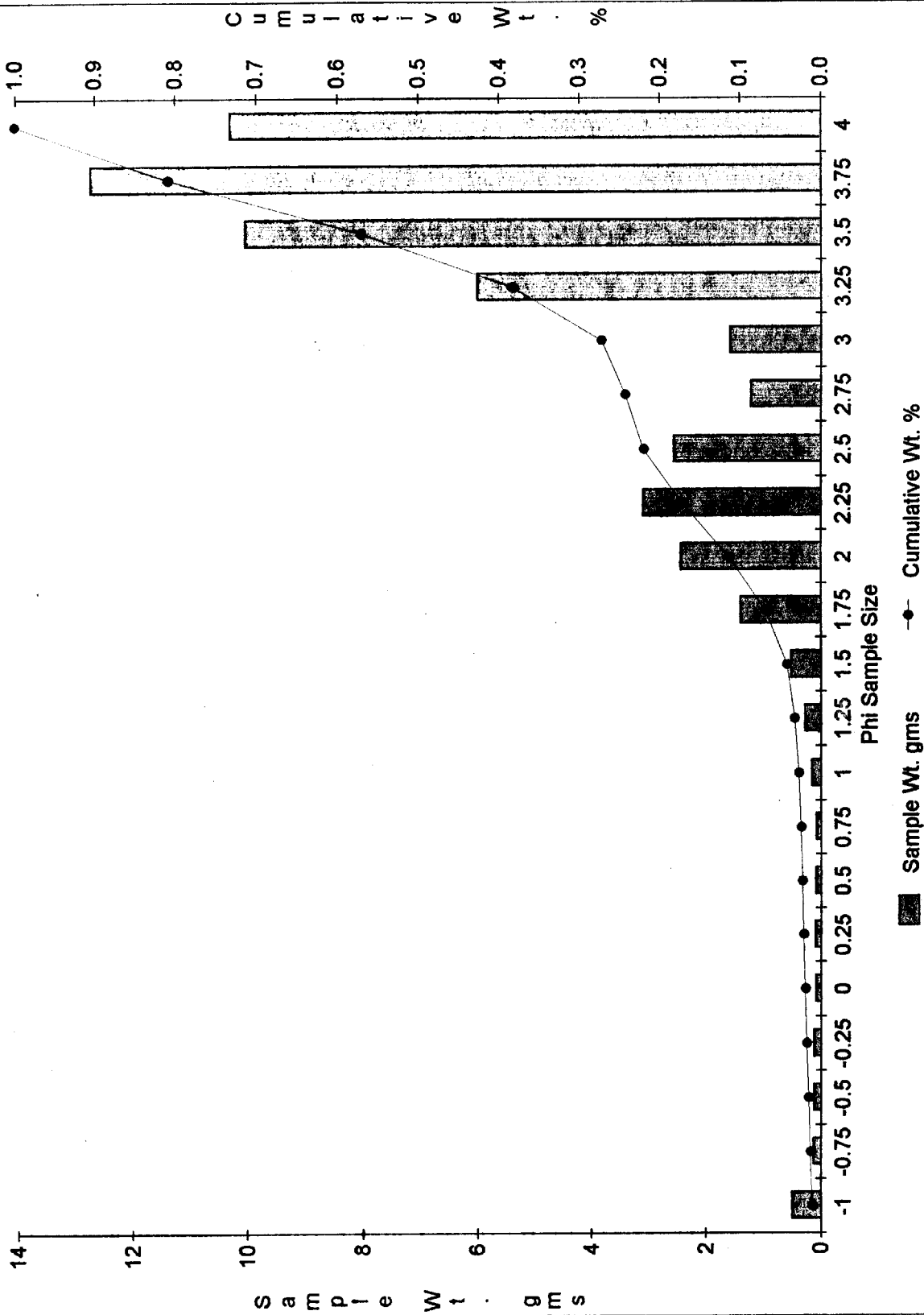
Median Weight 26.67335 gms

Mean Grain Size 3.41 phi 0.0940779 mm

% Silt and Clay 24.59

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 4



Sand-Sized Grain Distribution Chart

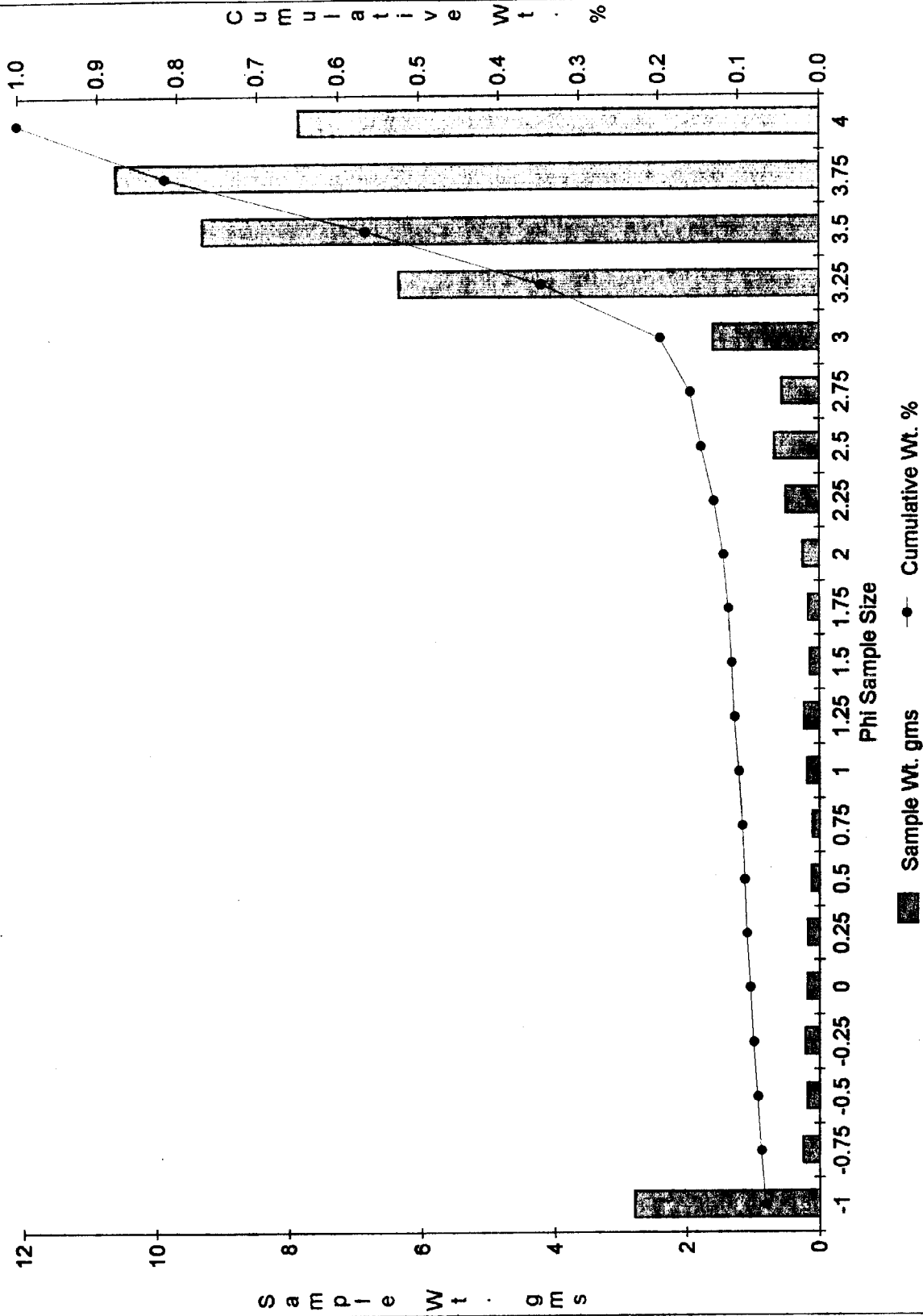
GRAB SAMPLE
FGS T-3 STATION 5

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	4.2937	2.7958	2.7958	0.0662578	0.0662578
-0.75	1.513	1.7581	0.2451	3.0409	0.0058086	0.0720664
-0.5	1.4788	1.6653	0.1865	3.2274	0.0044199	0.0764863
-0.25	1.5302	1.7405	0.2103	3.4377	0.0049839	0.0814702
0	1.5305	1.7167	0.1862	3.6239	0.0044128	0.085883
0.25	1.5231	1.6983	0.1752	3.7991	0.0041521	0.090035
0.5	1.5218	1.6389	0.1171	3.9162	0.0027752	0.0928102
0.75	1.482	1.5911	0.1091	4.0253	0.0025856	0.0953958
1	1.5257	1.7112	0.1855	4.2108	0.0043962	0.0997919
1.25	1.5266	1.7542	0.2276	4.4384	0.0053939	0.1051858
1.5	1.5317	1.6789	0.1472	4.5856	0.0034885	0.1086743
1.75	1.5422	1.7065	0.1643	4.7499	0.0038938	0.1125681
2	1.5301	1.7848	0.2547	5.0046	0.0060361	0.1186042
2.25	1.5078	2.0136	0.5058	5.5104	0.011987	0.1305912
2.5	1.4488	2.1211	0.6723	6.1827	0.0159329	0.1465241
2.75	1.5314	2.0935	0.5621	6.7448	0.0133212	0.1598453
3	1.5585	3.148	1.5895	8.3343	0.0376696	0.1975149
3.25	1.5165	7.8223	6.3058	14.6401	0.1494414	0.3469563
3.5	1.5154	10.7477	9.2323	23.8724	0.2187967	0.565753
3.75	1.4809	12.0137	10.5328	34.4052	0.2496173	0.8153703
4	1.519	9.3096	7.7906	42.1958	0.1846297	1
PAN	0	0	0	42.1958	0	1

Total Wt. 42.1958 gms
 Median Weight 21.0979 gms
 Mean Grain Size 3.42 phi 0.0934281 mm
 % Silt and Clay 30.66

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 5



Sand-Sized Grain Distribution Chart

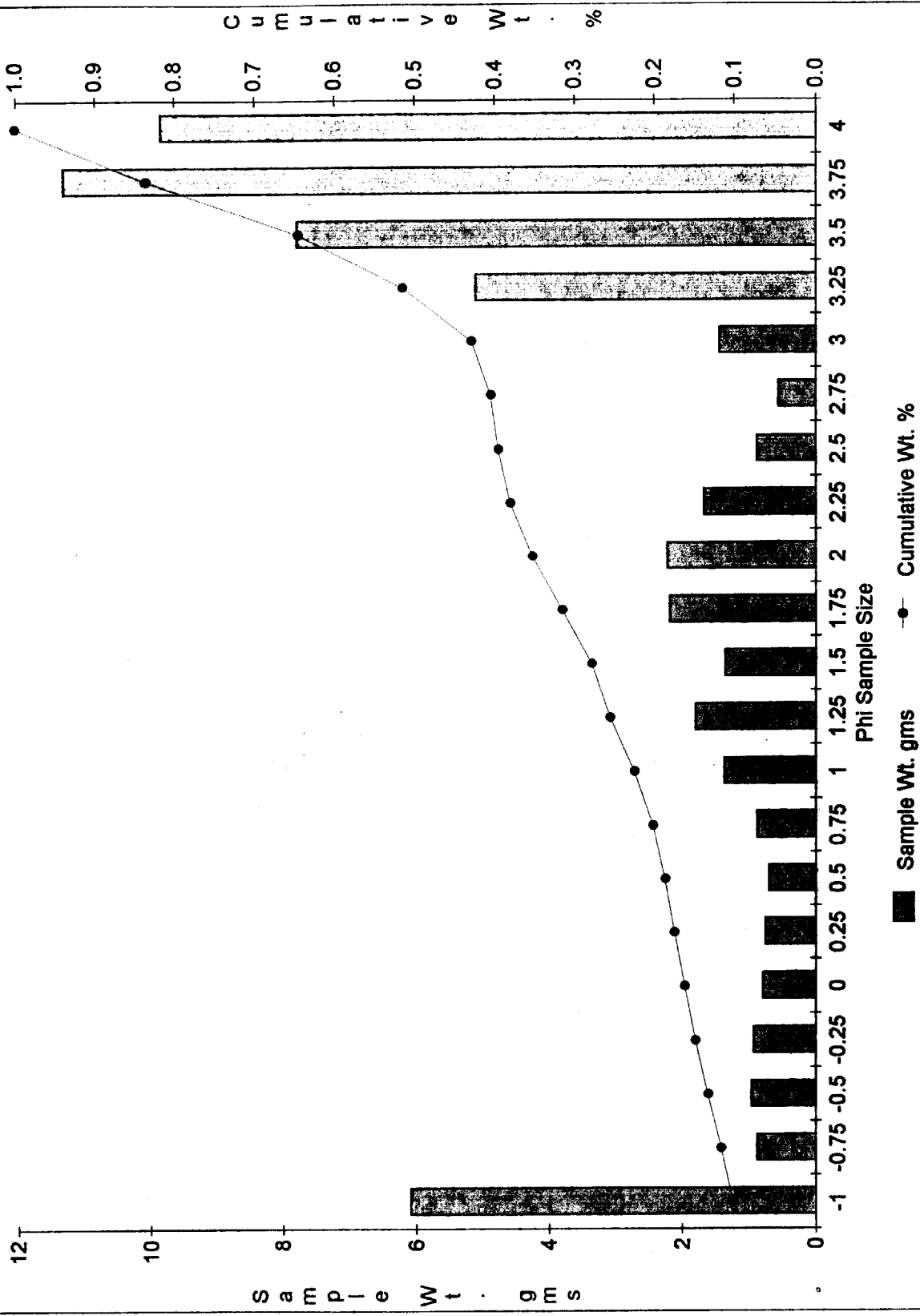
GRAB SAMPLE
FGST-3 STATION 6

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	7.5854	6.0875	6.0875	0.1023935	0.1023935
-0.75	1.513	2.3919	0.8789	6.9664	0.0147834	0.1171769
-0.5	1.4788	2.4445	0.9657	7.9321	0.0162434	0.1334202
-0.25	1.5302	2.4669	0.9367	8.8688	0.0157556	0.1491758
0	1.5305	2.3302	0.7997	9.6685	0.0134512	0.162627
0.25	1.5231	2.2841	0.761	10.4295	0.0128002	0.1754272
0.5	1.5218	2.2253	0.7035	11.133	0.0118331	0.1872603
0.75	1.482	2.3616	0.8796	12.0126	0.0147951	0.2020554
1	1.5257	2.8976	1.3719	13.3845	0.0230758	0.2251312
1.25	1.5266	3.3278	1.8012	15.1857	0.0302967	0.2554279
1.5	1.5317	2.8892	1.3575	16.5432	0.0228335	0.2782615
1.75	1.5422	3.7298	2.1876	18.7308	0.0367961	0.3150575
2	1.5301	3.7541	2.224	20.9548	0.0374083	0.3524659
2.25	1.5078	3.178	1.6702	22.625	0.0280933	0.3805591
2.5	1.4488	2.3218	0.873	23.498	0.0146841	0.3952432
2.75	1.5314	2.0866	0.5552	24.0532	0.0093386	0.4045818
3	1.5585	2.9929	1.4344	25.4876	0.024127	0.4287089
3.25	1.5165	6.6173	5.1008	30.5884	0.0857969	0.5145058
3.5	1.5154	9.2832	7.7678	38.3562	0.1306567	0.6451625
3.75	1.4809	12.7663	11.2854	49.6416	0.1898237	0.8349862
4	1.519	11.3294	9.8104	59.452	0.1650138	1
PAN	0	0	0	59.452	0	1

Total Wt. 59.452 gms
 Median Weight 29.726 gms
 Mean Grain Size 3.21 phi 0.1080672 mm
 % Silt and Clay 21.53

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 6



Sand-Sized Grain Distribution Chart

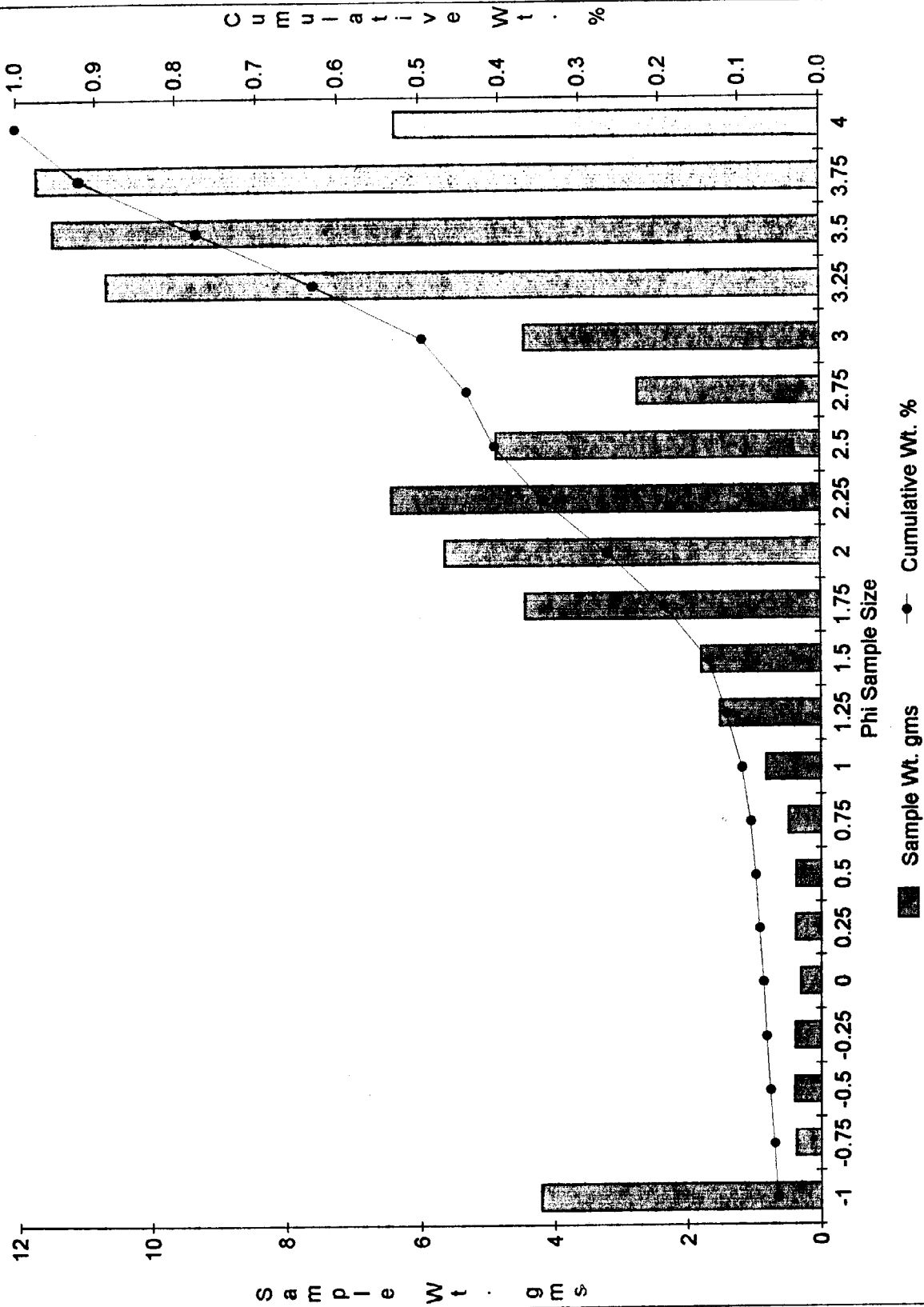
GRAB SAMPLE
FGS T-3 STATION 7

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979	5.7041	4.2062	4.2062	0.0527514	0.0527514
-0.75	1.513	1.8842	0.3712	4.5774	0.0046553	0.0574067
-0.5	1.4788	1.879	0.4002	4.9776	0.005019	0.0624258
-0.25	1.5302	1.9198	0.3896	5.3672	0.0048861	0.0673119
0	1.5305	1.836	0.3055	5.6727	0.0038314	0.0711433
0.25	1.5231	1.9072	0.3841	6.0568	0.0048171	0.0759604
0.5	1.5218	1.8952	0.3734	6.4302	0.0046829	0.0806433
0.75	1.482	1.9704	0.4884	6.9186	0.0061252	0.0867685
1	1.5257	2.3479	0.8222	7.7408	0.0103115	0.09708
1.25	1.5266	3.039	1.5124	9.2532	0.0189675	0.1160475
1.5	1.5317	3.3219	1.7902	11.0434	0.0224515	0.138499
1.75	1.5422	5.9702	4.428	15.4714	0.0555331	0.1940321
2	1.5301	7.1647	5.6346	21.106	0.0706654	0.2646975
2.25	1.5078	7.936	6.4282	27.5342	0.0806182	0.3453157
2.5	1.4488	6.3047	4.8559	32.3901	0.0608995	0.4062152
2.75	1.5314	4.2744	2.743	35.1331	0.0344009	0.4406161
3	1.5585	5.9931	4.4346	39.5677	0.0556158	0.496232
3.25	1.5165	12.165	10.6485	50.2162	0.1335465	0.6297784
3.5	1.5154	12.9672	11.4518	61.668	0.1436209	0.7733993
3.75	1.4809	13.1826	11.7017	73.3697	0.146755	0.9201543
4	1.519	7.8856	6.3666	79.7363	0.0798457	1
PAN	0	0	0	79.7363	0	1

Total Wt. 79.7363 gms
 Median Weight 39.86815 gms
 Mean Grain Size 3.01 phi 0.1241366 mm
 % Silt and Clay 7.96

Sand-Sized Grain Distribution Chart

FGS T-3 STATION 7



Sand-Sized Grain Distribution Chart

GRAB SAMPLE
FGS T-3 STATION 8

Phi	Boat Wt.	Boat + Sample Wt.	Total Wt.	Cumulative Wt.	Wt. %	Cumulative Wt. %
-1	1.4979					
-0.75	1.513					
-0.5	1.4788					
-0.25	1.5302					
0	1.5305					
0.25	1.5231					
0.5	1.5218					
0.75	1.482					
1	1.5257					
1.25	1.5266					
1.5	1.5317					
1.75	1.5422					
2	1.5301					
2.25	1.5078					
2.5	1.4488					
2.75	1.5314					
3	1.5585					
3.25	1.5165					
3.5	1.5154					
3.75	1.4809					
4	1.519					
PAN	0					

Due to insufficient sand-size material,
no granulometrics were carried out
on this sample.

Total Wt. 5.4422 gms.
% Silt and Clay 81.34

APPENDIX 2

CARBONATE FRACTION GRANULOMETRIC DATA

CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE

FGS T-1 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.6159	0	0.6159	0.6159	0.0346163	0.034616293
-0.75	0.172	0	0.172	0.7879	0.0096672	0.04428345
-0.5	0.2924	0	0.2924	1.0803	0.0164342	0.060717618
-0.25	0.5037	0	0.5037	1.584	0.0283102	0.089027776
0	0.7544	0.005	0.7494	2.3384	0.0421196	0.131147357
0.25	1.2927	0.0399	1.2528	3.6311	0.0704129	0.201560234
0.5	1.3997	0.1586	1.2411	5.0308	0.0697553	0.27131552
0.75	1.7101	0.3777	1.3324	6.7409	0.0748867	0.346202268
1	2.2391	0.7703	1.4688	8.98	0.082553	0.428755297
1.25	2.5269	1.0372	1.4897	11.5069	0.0837277	0.512482998
1.5	1.7265	1.0321	0.6944	13.2334	0.0390283	0.551511336
1.75	1.8608	0.8659	0.9949	15.0942	0.0559178	0.607429098
2	1.2352	1.1708	0.0644	16.3294	0.0036196	0.611048662
2.25	0.822	0.822	0	17.1514	0	0.611048662
2.5	0.5154	0.5154	0	17.6668	0	0.611048662
2.75	0.1836	0.1836	0	17.8504	0	0.611048662
3	0.3576	0.0442	0.3134	18.208	0.0176145	0.628663122
3.25	1.0801	0.2538	0.8263	19.2881	0.0464417	0.675104821
3.5	1.6669	0.7934	0.8735	20.955	0.0490945	0.724199368
3.75	6.1105	1.5039	4.6066	27.0655	0.2589112	0.983110577
4	4.7098	4.4093	0.3005	31.7753	0.0168894	1
PAN	0	0	0	31.7753	0	1

Total Wt. 31.7753 gms

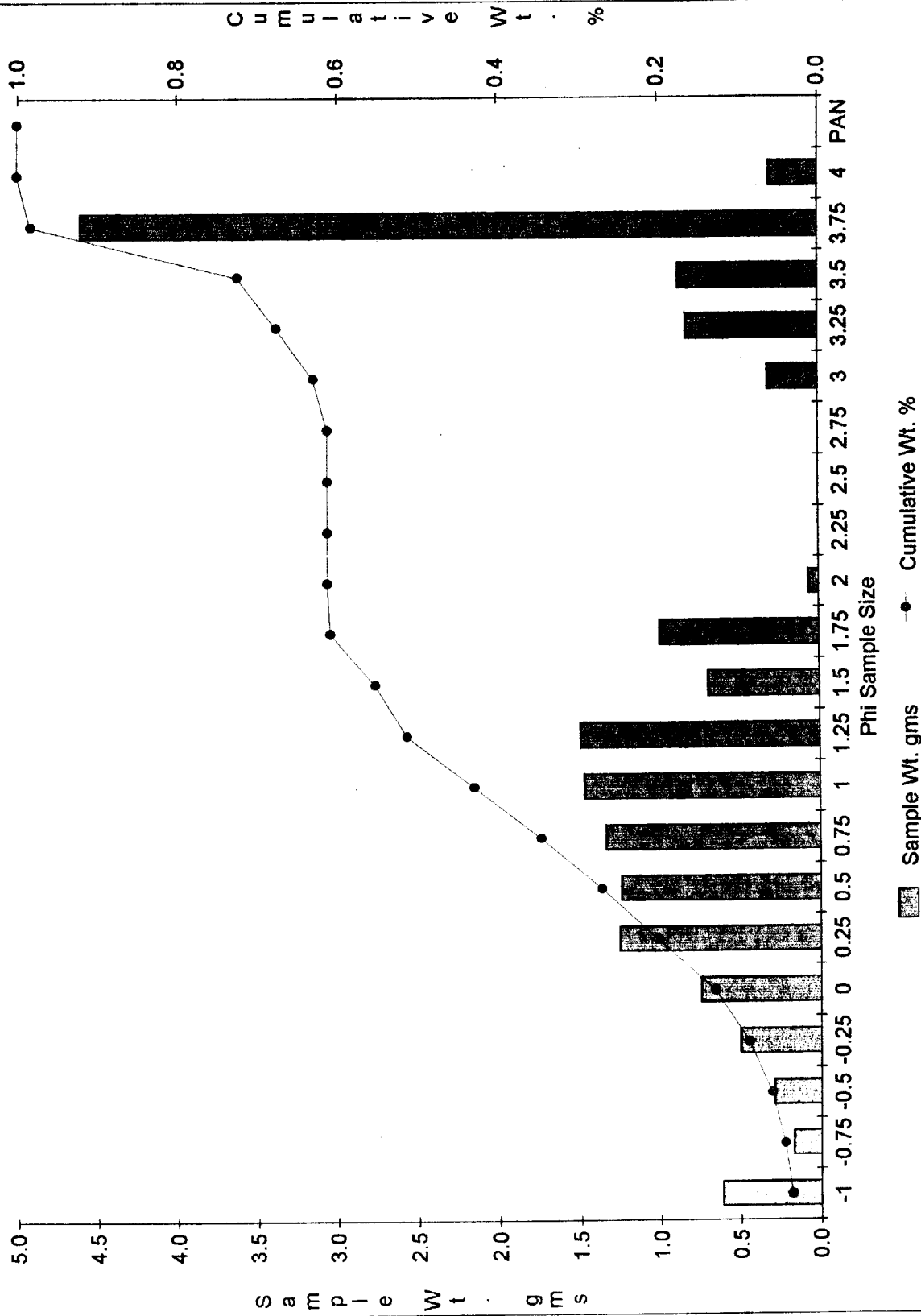
CO3 Wt. 17.7922 gms

Mean Grain Size 1.21 phi 0.4322686 mm

Sample % Carbonate 55.993807

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 1



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	0.576	0	0.576	0.576	0.0478851	0.047885076
-0.75	0.2746	0	0.2746	0.8506	0.0228285	0.070713621
-0.5	0.2253	0	0.2253	1.0759	0.01873	0.089443669
-0.25	0.2115	0	0.2115	1.2874	0.0175828	0.10702647
0	0.2045	0	0.2045	1.4919	0.0170009	0.124027334
0.25	0.2599	0	0.2599	1.7518	0.0216065	0.145633812
0.5	0.2273	0.0031	0.2242	1.9791	0.0186386	0.164272413
0.75	0.2693	0.0105	0.2588	2.2484	0.021515	0.185787443
1	0.3525	0.0561	0.2964	2.6009	0.0246409	0.210428305
1.25	0.4539	0.0854	0.3685	3.0548	0.0306348	0.241063115
1.5	0.4009	0.1055	0.2954	3.4557	0.0245577	0.265620843
1.75	0.7066	0.2378	0.4688	4.1623	0.0389731	0.304593974
2	1.0055	0.5901	0.4154	5.1678	0.0345338	0.33912776
2.25	1.9183	1.4037	0.5146	7.0861	0.0427807	0.38190842
2.5	2.197	1.5705	0.6265	9.2831	0.0520833	0.433991753
2.75	1.7596	1.2398	0.5198	11.0427	0.043213	0.477204709
3	2.7785	2.1768	0.6017	13.8212	0.0500216	0.527226323
3.25	7.2966	6.0221	1.2745	21.1178	0.105954	0.633180367
3.5	12.158	10.8196	1.3384	33.2758	0.1112663	0.744446661
3.75	21.0065	19.1898	1.8167	54.2823	0.1510292	0.895475858
4	16.0415	14.7842	1.2573	70.3238	0.1045241	1
PAN	0	0	0	70.3238	0	1

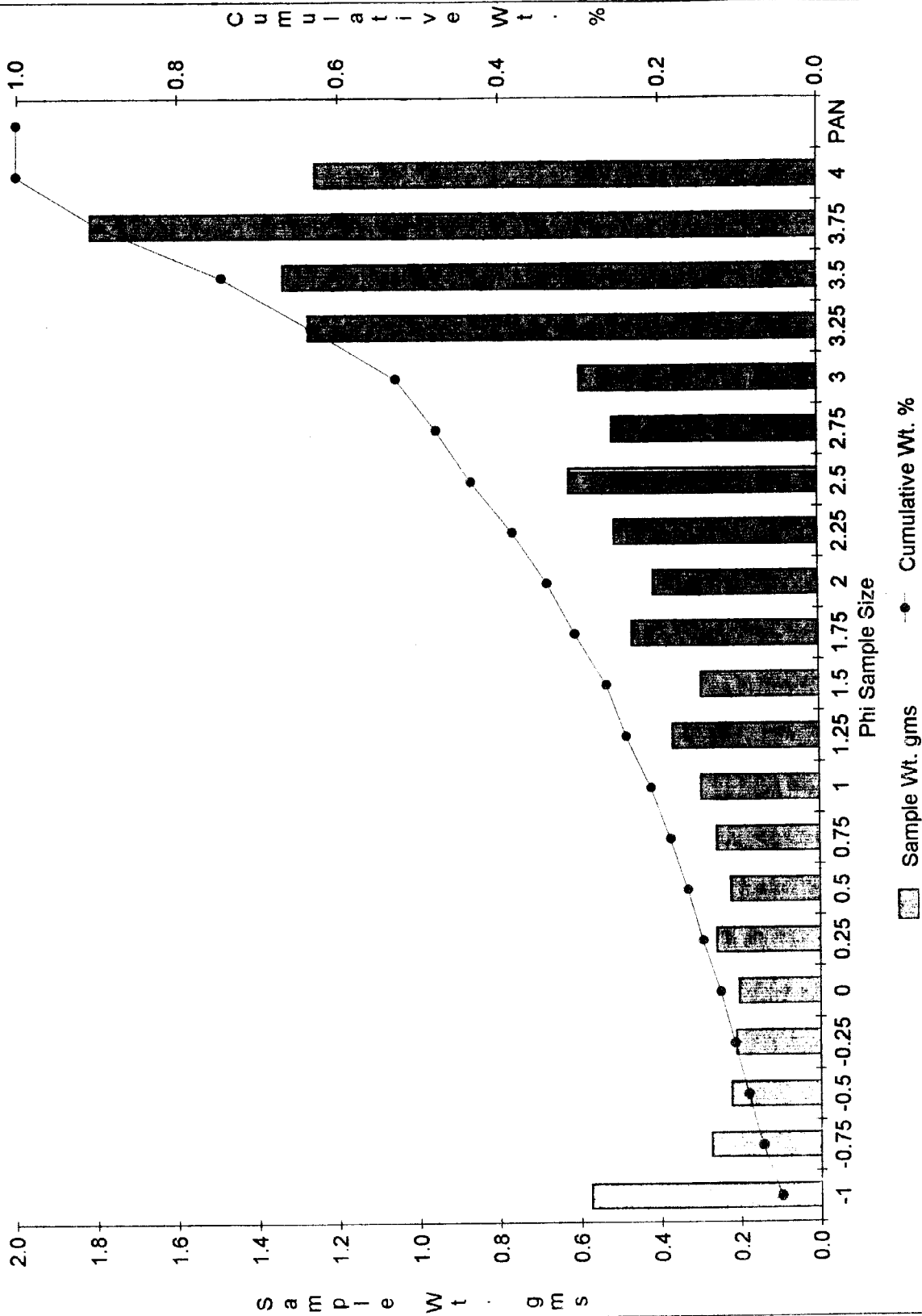
Total Wt. 70.3238 gms

CO3 Wt. 12.0288 gms

Mean Grain Size 2.86 phi 0.1377381 mm

Sample % Carbonate 17.104878 Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 2



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.1009	0	0.1009	0.1009	0.012185	0.01218496
-0.75	0.049	0	0.049	0.1499	0.0059174	0.018102334
-0.5	0.025	0	0.025	0.1749	0.0030191	0.021121403
-0.25	0.034	0	0.034	0.2089	0.0041059	0.025227336
0	0.0463	0	0.0463	0.2552	0.0055913	0.030818651
0.25	0.0242	0.0014	0.0228	0.2794	0.0027534	0.033572041
0.5	0.0326	0	0.0326	0.312	0.0039369	0.037508906
0.75	0.0372	0.0372	0	0.3492	0	0.037508906
1	0.0668	0.0241	0.0427	0.416	0.0051566	0.042665475
1.25	0.0641	0.0325	0.0316	0.4801	0.0038161	0.046481578
1.5	0.0545	0.0545	0	0.5346	0	0.046481578
1.75	0.1047	0.0748	0.0299	0.6393	0.0036108	0.050092383
2	0.1603	0.1117	0.0486	0.7996	0.0058691	0.055961453
2.25	0.269	0.2175	0.0515	1.0686	0.0062193	0.062180734
2.5	0.5091	0.4143	0.0948	1.5777	0.0114483	0.073629041
2.75	0.6689	0.3317	0.3372	2.2466	0.0407212	0.114350236
3	1.2977	0.8377	0.46	3.5443	0.0555509	0.169901095
3.25	3.4256	2.4473	0.9783	6.9699	0.1181422	0.288043281
3.5	6.7626	4.7146	2.048	13.7325	0.2473221	0.535365368
3.75	16.3021	12.4546	3.8475	30.0346	0.4646346	1
4	12.5832	12.5832	0	42.6178	0	1
PAN	0	0	0	42.6178	0	1

Total Wt. 42.6178 gms

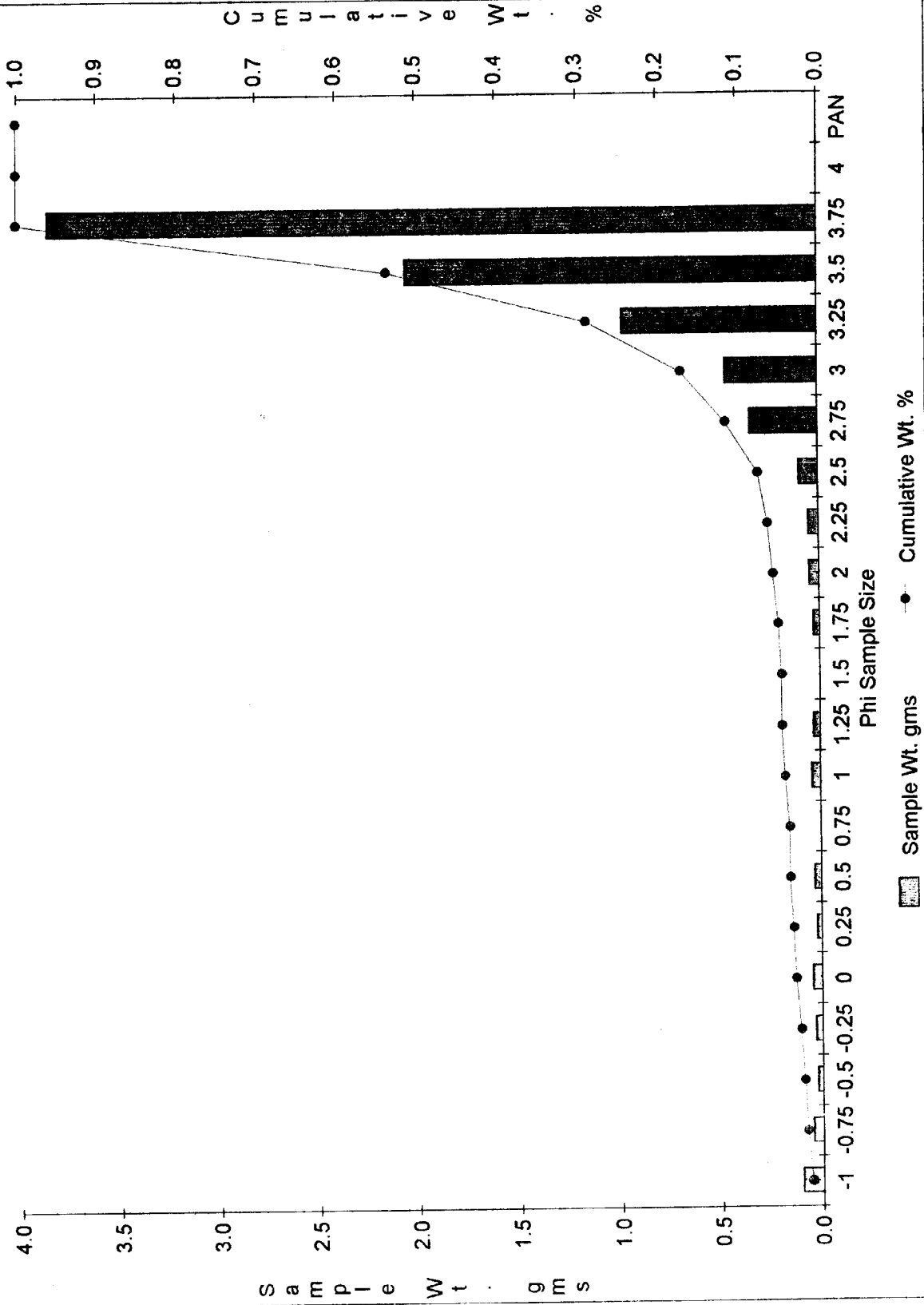
CO3 Wt. 8.2807 gms

Mean Grain Size 3.46 phi 0.0908733 mm

Sample % Carbonate 19.430144

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 3



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.0579	0	0.0579	0.0579	0.0082111	0.008211135
-0.75	0.0352	0	0.0352	0.0931	0.0049919	0.013203052
-0.5	0.0362	0	0.0362	0.1293	0.0051337	0.018336784
-0.25	0.0176	0	0.0176	0.1469	0.002496	0.020832742
0	0.0125	0.0029	0.0096	0.1594	0.0013614	0.022194174
0.25	0.0206	0.0012	0.0194	0.18	0.0027512	0.024945401
0.5	0.0205	0.0012	0.0193	0.2005	0.002737	0.027682446
0.75	0.0268	0.0074	0.0194	0.2273	0.0027512	0.030433673
1	0.0661	0.0382	0.0279	0.2934	0.0039567	0.034390334
1.25	0.0387	0.0077	0.031	0.3321	0.0043963	0.038786624
1.5	0.0298	0.0063	0.0235	0.3619	0.0033327	0.042119295
1.75	0.0649	0.0206	0.0443	0.4268	0.0062824	0.048401736
2	0.1623	0.0709	0.0914	0.5891	0.012962	0.061363701
2.25	0.2594	0.1492	0.1102	0.8485	0.0156281	0.076991803
2.5	0.4571	0.2551	0.202	1.3056	0.0286468	0.105638597
2.75	0.6076	0.2607	0.3469	1.9132	0.0491959	0.154834501
3	1.0788	0.7363	0.3425	2.992	0.0485719	0.203406416
3.25	3.3105	2.4124	0.8981	6.3025	0.1273648	0.330771194
3.5	5.8756	5.091	0.7846	12.1781	0.1112687	0.442039879
3.75	15.7153	13.5716	2.1437	27.8934	0.3040106	0.74605043
4	17.0919	15.3012	1.7907	44.9853	0.2539496	1
PAN	0	0	0	44.9853	0	1

Total Wt. 44.9853 gms

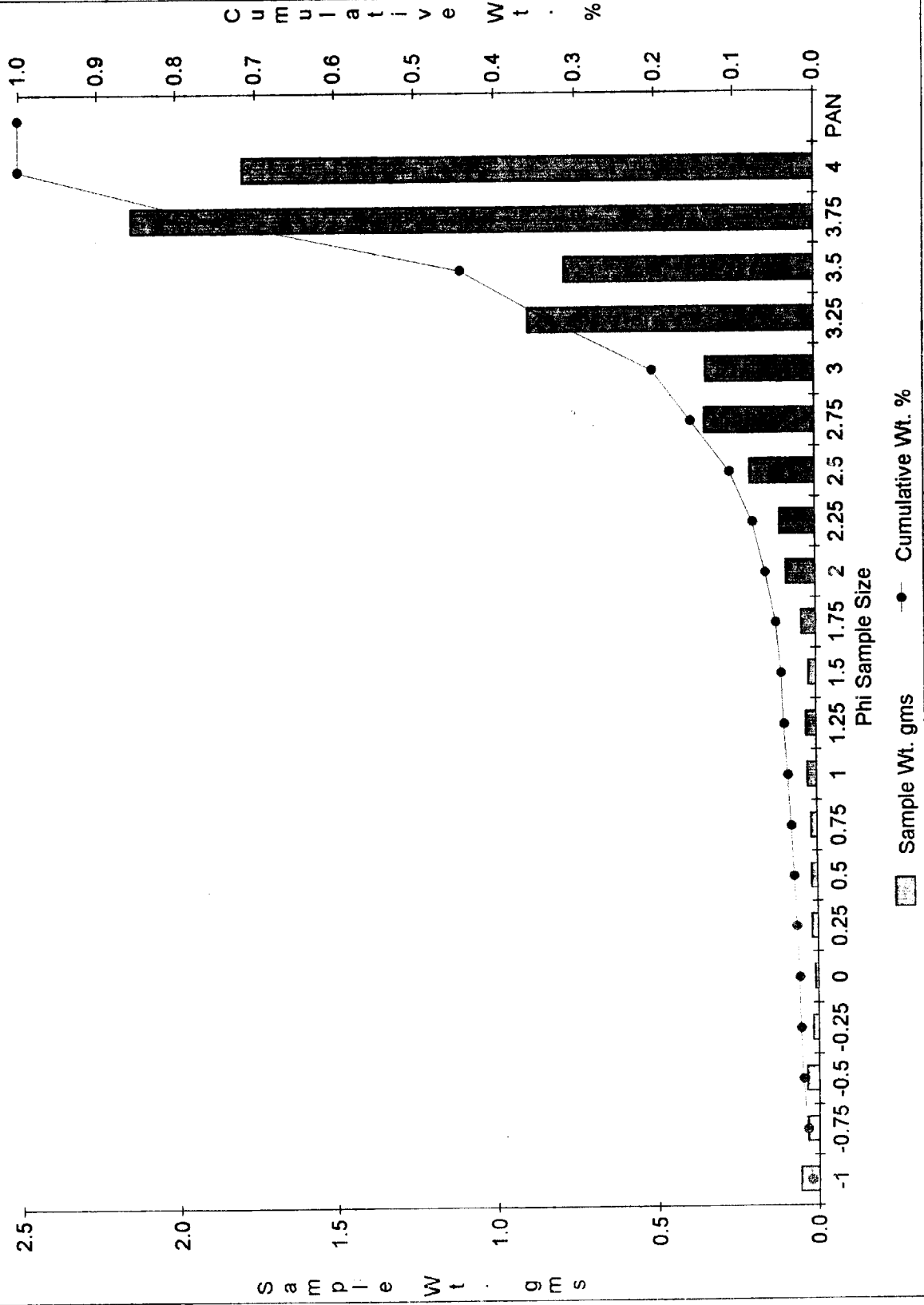
CO3 Wt. 7.0514 gms

Mean Grain Size 3.55 phi 0.0853775 mm

Sample % Carbonate 15.674898

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 4



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.8556	0	0.8556	0.8556	0.1508782	0.150878183
-0.75	0.2315	0	0.2315	1.0871	0.0408232	0.191701347
-0.5	0.219	0	0.219	1.3061	0.0386189	0.230320237
-0.25	0.143	0.0046	0.1384	1.4491	0.0244057	0.254725965
0	0.1088	0.0123	0.0965	1.5579	0.017017	0.271742964
0.25	0.1127	0.0352	0.0775	1.6706	0.0136665	0.285409466
0.5	0.102	0.0337	0.0683	1.7726	0.0120442	0.297453622
0.75	0.1187	0.0551	0.0636	1.8913	0.0112153	0.308668971
1	0.1967	0.1335	0.0632	2.088	0.0111448	0.319813783
1.25	0.2184	0.1595	0.0589	2.3064	0.0103865	0.330200324
1.5	0.1738	0.1396	0.0342	2.4802	0.0060309	0.33623122
1.75	0.2918	0.2248	0.067	2.772	0.0118149	0.348046131
2	0.3248	0.2471	0.0777	3.0968	0.0137018	0.361747902
2.25	0.3888	0.3011	0.0877	3.4856	0.0154652	0.377213092
2.5	0.5286	0.3407	0.1879	4.0142	0.0331347	0.410347746
2.75	0.5938	0.3486	0.2452	4.608	0.043239	0.453586796
3	1.303	0.9714	0.3316	5.911	0.058475	0.51206179
3.25	3.4988	2.8669	0.6319	9.4098	0.1114305	0.623492276
3.5	5.0458	4.5544	0.4914	14.4556	0.0866544	0.710146717
3.75	10.2293	9.2271	1.0022	24.6849	0.1767299	0.886876631
4	8.4443	7.8028	0.6415	33.1292	0.1131234	1
PAN	0	0	0	33.1292	0	1

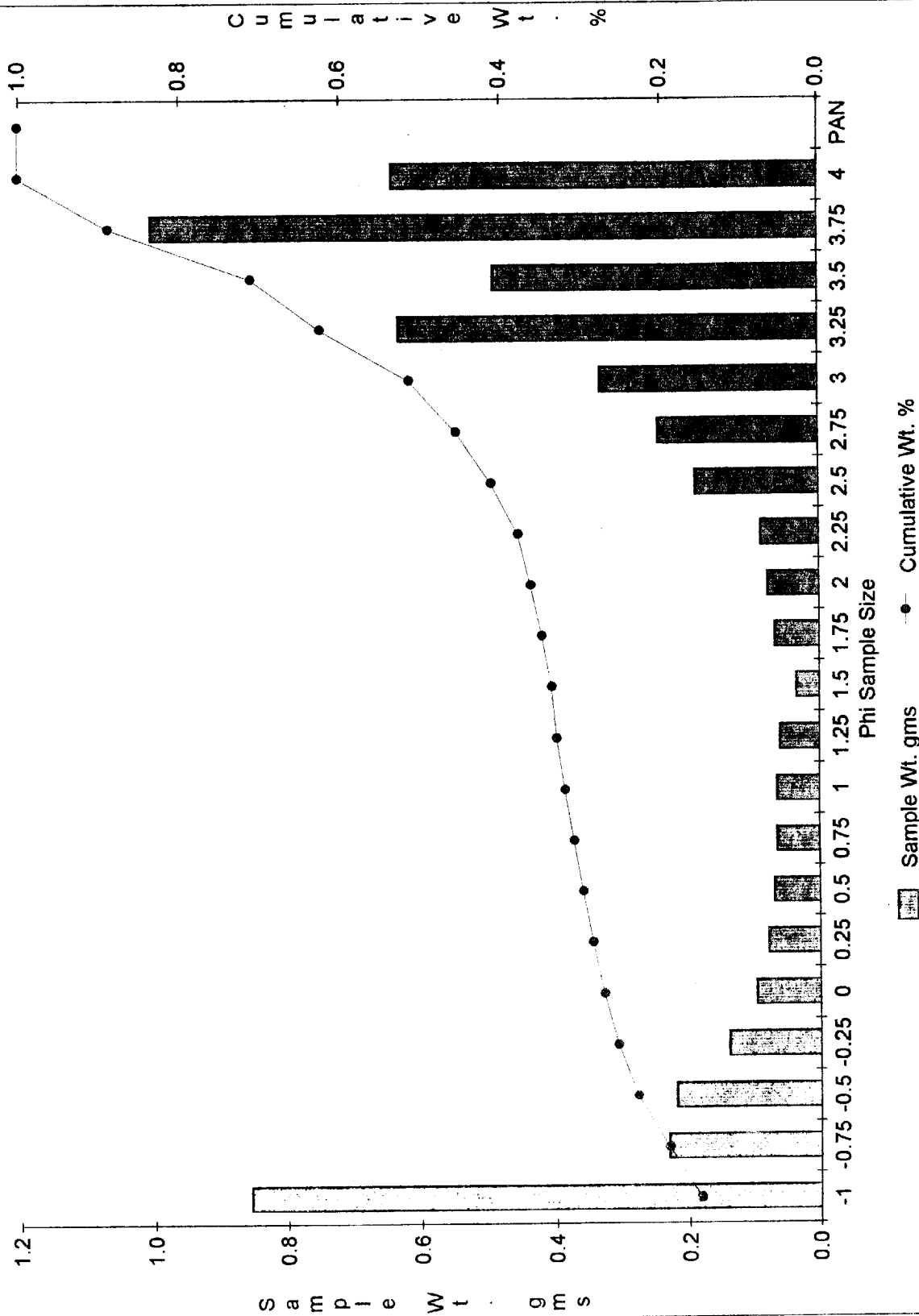
Total Wt. 33.1292 gms

CO3 Wt. 5.6708 gms

Mean Grain Size 2.95 phi 0.1294081 mm

Sample % Carbonate 17.117226 Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 5



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.1821	0	0.1821	0.1821	0.03761	0.03760998
-0.75	0.103	0	0.103	0.2851	0.0212731	0.05888306
-0.5	0.052	0	0.052	0.3371	0.0107398	0.069622868
-0.25	0.086	0	0.086	0.4231	0.017762	0.087384857
0	0.0717	0	0.0717	0.4948	0.0148085	0.102193399
0.25	0.0799	0.0067	0.0732	0.5747	0.0151183	0.117311744
0.5	0.0925	0.0187	0.0738	0.6672	0.0152423	0.132554009
0.75	0.1185	0.0389	0.0796	0.7857	0.0164402	0.148994176
1	0.2263	0.1431	0.0832	1.012	0.0171837	0.166177868
1.25	0.3515	0.219	0.1325	1.3635	0.0273659	0.193543723
1.5	0.3423	0.2636	0.0787	1.7058	0.0162543	0.209798009
1.75	0.5816	0.5389	0.0427	2.2874	0.008819	0.218617043
2	0.7633	0.65	0.1133	3.0507	0.0234004	0.242017432
2.25	0.877	0.7461	0.1309	3.9277	0.0270354	0.269052832
2.5	1.0261	0.8872	0.1389	4.9538	0.0286877	0.29774051
2.75	1.4296	1.1139	0.3157	6.3834	0.065203	0.362943533
3	2.4891	2.2254	0.2637	8.8725	0.0544632	0.41740675
3.25	5.5862	4.9523	0.6339	14.4587	0.1309224	0.548329134
3.5	7.2545	7.0016	0.2529	21.7132	0.0522326	0.600561775
3.75	13.7361	12.2685	1.4676	35.4493	0.3031104	0.903672188
4	11.0037	10.5373	0.4664	46.453	0.0963278	1
PAN	0	0	0	46.453	0	1

Total Wt. 46.453 gms

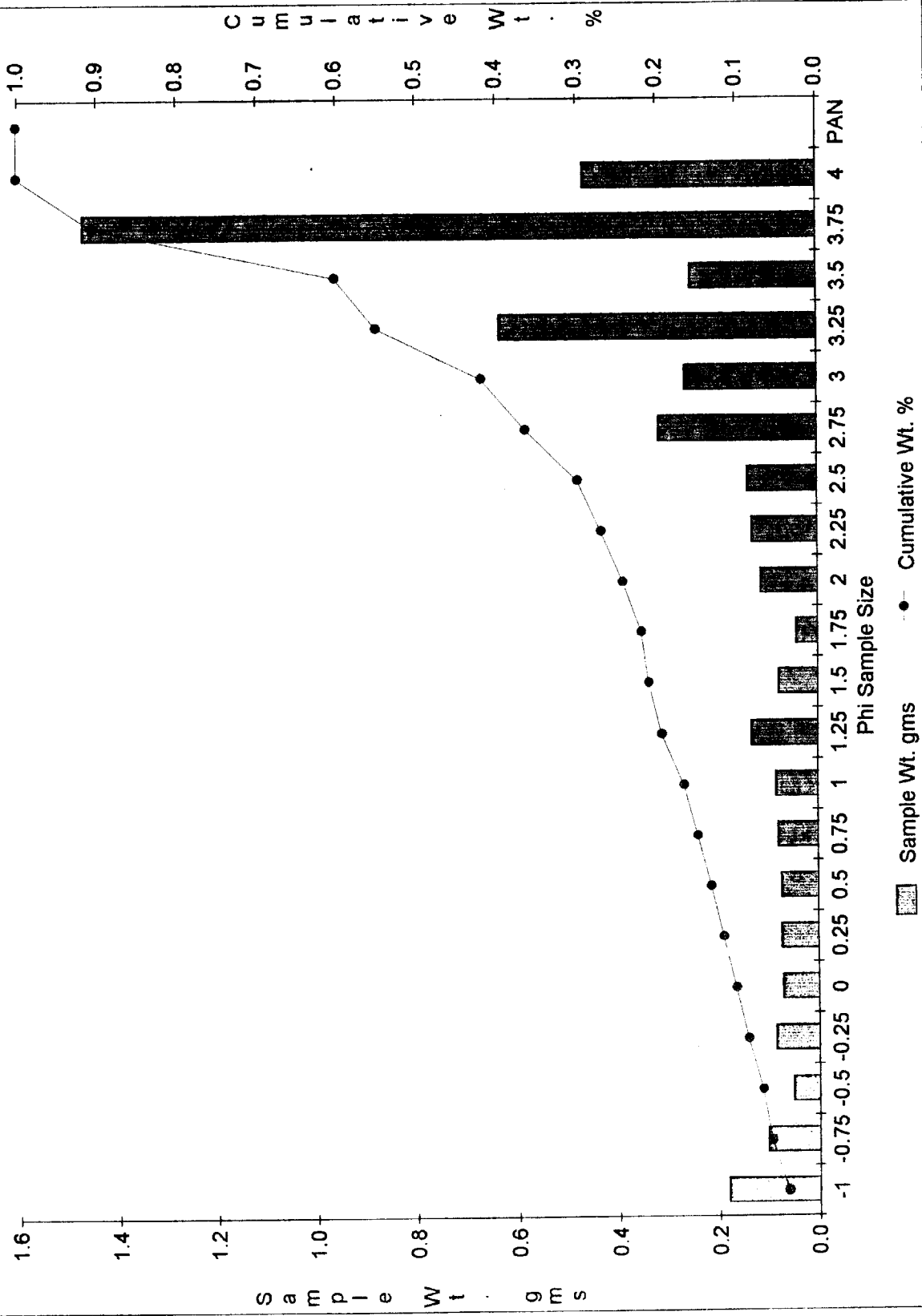
CO3 Wt. 4.8418 gms

Mean Grain Size 3.16 phi 0.1118781 mm

Sample % Carbonate 10.423008

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-1 STATION 6



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
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-1						
-0.75						
-0.5						
-0.25						
0						
0.25						
0.5						
0.75						
1						
1.25						
1.5						
1.75						
2						
2.25						
2.5						
2.75						
3						
3.25						
3.5						
3.75						
4						
PAN						

Due to insufficient sand-size grains,
no granulometrics were carried out
on this sample.

Total Wt.	6.4008 gms
CO3 Wt.	0.6458 gms

Sample % Carbonate	10.089364	Sand-Sized Grain Fraction
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CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-1 STATION 8

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	1.4521	0	1.4521	1.4521	0.1763863	0.176386274
-0.75	0.176	0	0.176	1.6281	0.0213787	0.197764956
-0.5	0.18	0	0.18	1.8081	0.0218646	0.219629517
-0.25	0.1589	0	0.1589	1.967	0.0193015	0.238931066
0	0.1003	0	0.1003	2.0673	0.0121834	0.251114485
0.25	0.1129	0	0.1129	2.1802	0.0137139	0.264828424
0.5	0.0811	0.0011	0.08	2.2613	0.0097176	0.274546007
0.75	0.0332	0	0.0332	2.2945	0.0040328	0.278578804
1	0.1164	0.0316	0.0848	2.4109	0.0103006	0.288879441
1.25	0.0834	0.0033	0.0801	2.4943	0.0097297	0.2988609171
1.5	0.0685	0.0045	0.064	2.5628	0.0077741	0.306383237
1.75	0.1431	0.0342	0.1089	2.7059	0.0132281	0.319611297
2	0.2657	0.121	0.1447	2.9716	0.0175767	0.337187974
2.25	0.4075	0.2175	0.19	3.3791	0.0230793	0.360267234
2.5	0.5612	0.3174	0.2438	3.9403	0.0296143	0.389881567
2.75	0.5676	0.3386	0.229	4.5079	0.0278166	0.417698148
3	1.1657	0.8951	0.2706	5.6736	0.0328697	0.450567871
3.25	3.6121	2.9436	0.6685	9.2857	0.0812026	0.531770422
3.5	7.4217	6.6374	0.7843	16.7074	0.0952688	0.627039174
3.75	18.0529	16.4131	1.6398	34.7603	0.1991862	0.826225326
4	15.6599	14.2293	1.4306	50.4202	0.1737747	1
PAN	0	0	0	50.4202	0	1

Total Wt. 50.4202 gms

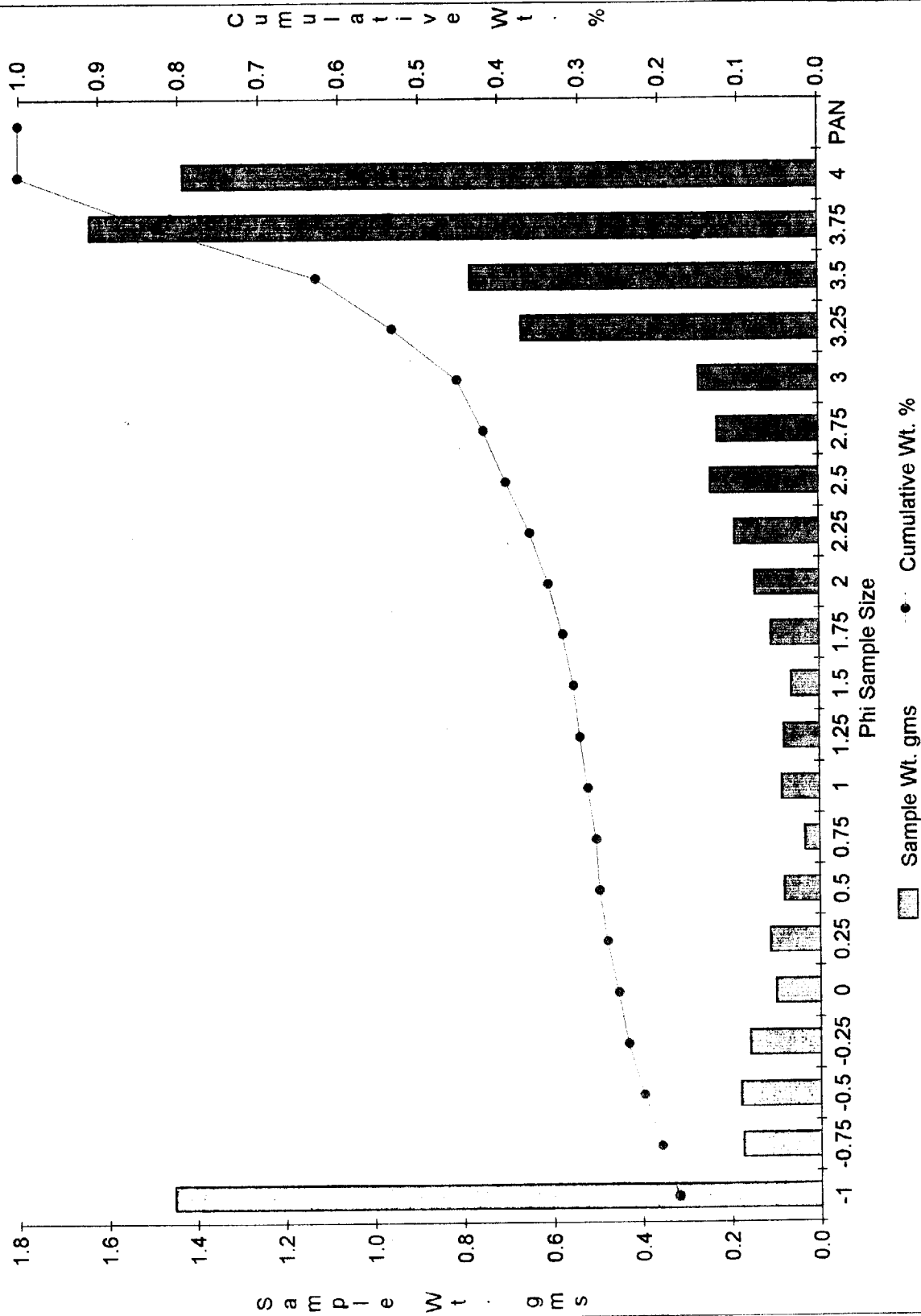
CO3 Wt. 8.2325 gms

Mean Grain Size 3.15 phi 0.1126563 mm

Sample % Carbonate 16.327781

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGST-1 STATION 8



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE

FGS T-2 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	0	0	0	0	0	0
-0.75	0.0229	0	0.0229	0.0229	0.001052	0.001052032
-0.5	0.0187	0	0.0187	0.0416	0.0008591	0.001911115
-0.25	0.0255	0	0.0255	0.0671	0.0011715	0.003082591
0	0.0196	0	0.0196	0.0867	0.0009004	0.00398302
0.25	0.0457	0	0.0457	0.1324	0.0020995	0.00608249
0.5	0.1086	0.0064	0.1022	0.241	0.0046951	0.010777585
0.75	0.416	0.117	0.299	0.657	0.0137361	0.024513722
1	2.112	1.0975	1.0145	2.769	0.0466064	0.071120115
1.25	7.2976	3.7047	3.5929	10.0666	0.1650588	0.236178873
1.5	7.9881	5.1051	2.883	18.0547	0.1324458	0.368624641
1.75	15.0721	10.1985	4.8736	33.1268	0.2238944	0.592519088
2	13.0089	9.0103	3.9986	46.1357	0.1836967	0.776215809
2.25	9.3098	6.4561	2.8537	55.4455	0.1310997	0.907315527
2.5	4.0698	2.6041	1.4657	59.5153	0.0673346	0.974650165
2.75	1.1955	0.753	0.4425	60.7108	0.0203286	0.99497873
3	0.5898	0.5283	0.0615	61.3006	0.0028253	0.997804056
3.25	0.4706	0.4228	0.0478	61.7712	0.0021959	1
3.5	0.2321	0.2321	0	62.0033	0	1
3.75	0.2775	0.2775	0	62.2808	0	1
4	0.1589	0.1589	0	62.4397	0	1
PAN	0	0	0	62.4397	0	1

Total Wt. 62.4397 gms

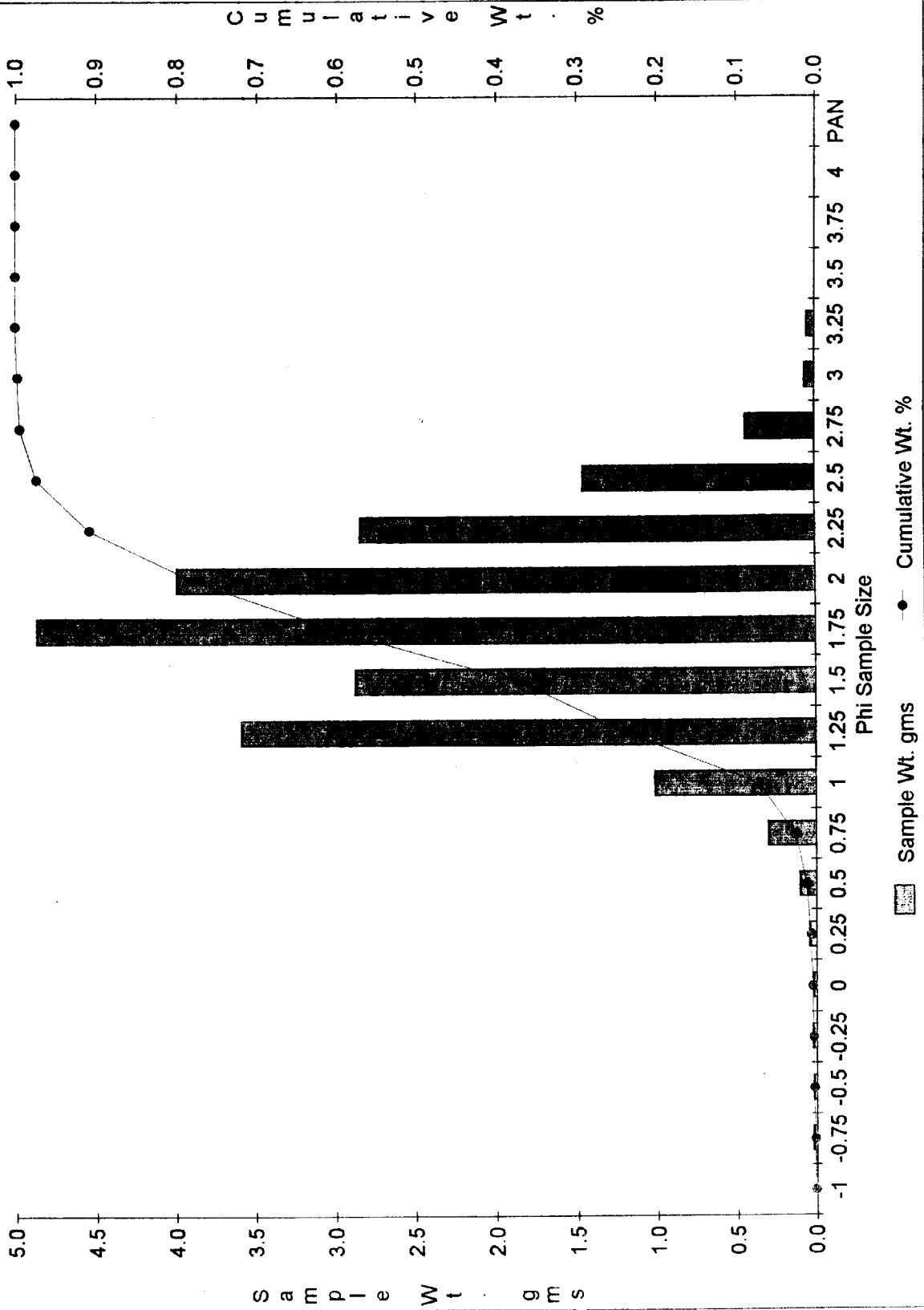
CO3 Wt. 21.7674 gms

Mean Grain Size 1.65 phi 0.3186402 mm

Sample % Carbonate 34.861474

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 1



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	0.0471	0	0.0471	0.0471	0.0024765	0.002476523
-0.75	0.0172	0	0.0172	0.0643	0.0009044	0.003380901
-0.5	0.0146	0	0.0146	0.0789	0.0007677	0.00414857
-0.25	0.0171	0	0.0171	0.096	0.0008991	0.00504769
0	0.0203	0	0.0203	0.1163	0.0010674	0.006115066
0.25	0.0379	0.0018	0.0361	0.1542	0.0018981	0.008013208
0.5	0.0682	0.005	0.0632	0.2224	0.0033231	0.011336271
0.75	0.217	0.0669	0.1501	0.4394	0.0078923	0.019228545
1	1.2486	0.5981	0.6505	1.688	0.0342034	0.053431904
1.25	4.0346	2.2456	1.789	5.7226	0.0940658	0.147497713
1.5	5.9789	4.0804	1.8985	11.7015	0.0998233	0.247321044
1.75	13.2517	9.619	3.6327	24.9532	0.1910078	0.438328794
2	14.733	10.7799	3.9531	39.6862	0.2078544	0.64618321
2.25	13.3392	10.0872	3.252	53.0254	0.1709905	0.817173714
2.5	5.838	4.0114	1.8266	58.8634	0.0960428	0.913216535
2.75	1.5726	0.9694	0.6032	60.436	0.0317163	0.944932855
3	1.3393	1.1087	0.2306	61.7753	0.012125	0.957057828
3.25	2.1943	1.8573	0.337	63.9696	0.0177195	0.974777323
3.5	2.1103	1.9506	0.1597	66.0799	0.008397	0.983174366
3.75	2.9571	2.7821	0.175	69.037	0.0092015	0.992375885
4	2.305	2.16	0.145	71.342	0.0076241	1
PAN	0	0	0	71.342	0	1

Total Wt. 71.342 gms

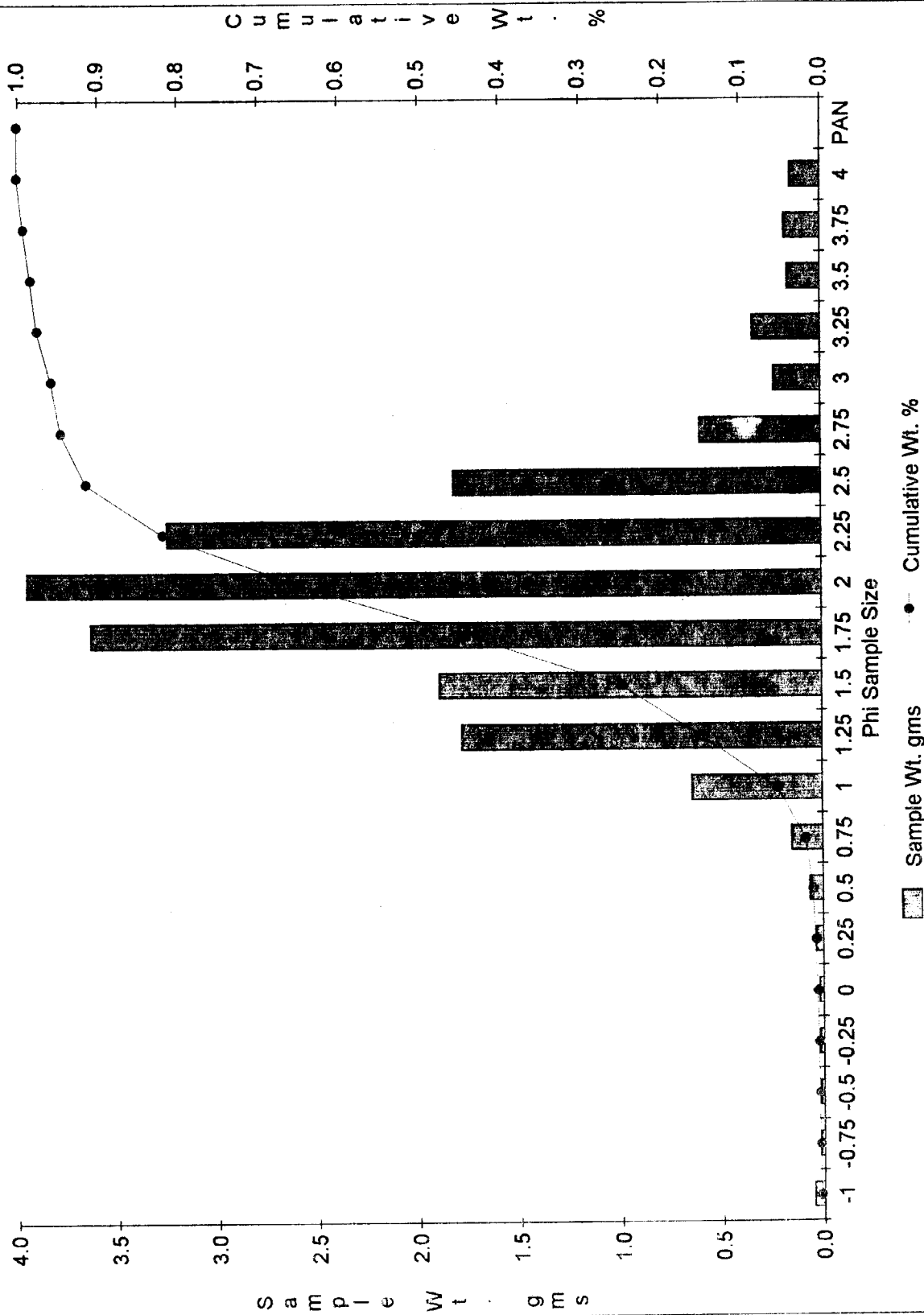
CO3 Wt. 19.0186 gms

Mean Grain Size 1.82 phi 0.283221 mm

Sample % Carbonate 26.65835

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 2



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	0.9516	0	0.9516	0.9516	0.1839872	0.183987162
-0.75	0.083	0	0.083	1.0346	0.0160476	0.200034802
-0.5	0.039	0	0.039	1.0736	0.0075405	0.20757526
-0.25	0.043	0	0.043	1.1166	0.0083138	0.215889097
0	0.0436	0	0.0436	1.1602	0.0084298	0.224318942
0.25	0.0578	0	0.0578	1.218	0.0111753	0.235494287
0.5	0.0456	0	0.0456	1.2636	0.0088165	0.244310822
0.75	0.0422	0	0.0422	1.3058	0.0081592	0.252469983
1	0.0967	0.0967	0	1.4025	0	0.252469983
1.25	0.1274	0.0446	0.0828	1.5299	0.016009	0.268478954
1.5	0.2322	0.1783	0.0539	1.7621	0.0104213	0.278900253
1.75	0.7424	0.6707	0.0717	2.5045	0.0138628	0.292763094
2	1.343	1.1624	0.1806	3.8475	0.0349181	0.327681213
2.25	1.8434	1.1842	0.6592	5.6909	0.1274531	0.455134278
2.5	1.574	1.0594	0.5146	7.2649	0.0994954	0.554629648
2.75	0.9141	0.6156	0.2985	8.179	0.0577135	0.612343149
3	1.1045	0.8484	0.2561	9.2835	0.0495157	0.661858819
3.25	1.9039	1.4895	0.4144	11.1874	0.0801222	0.741981014
3.5	2.1372	1.9116	0.2256	13.3246	0.0436186	0.78559966
3.75	5.0134	4.481	0.5324	18.338	0.1029369	0.888536571
4	6.17	5.5935	0.5765	24.508	0.1114634	1
PAN	0	0	0	24.508	0	1

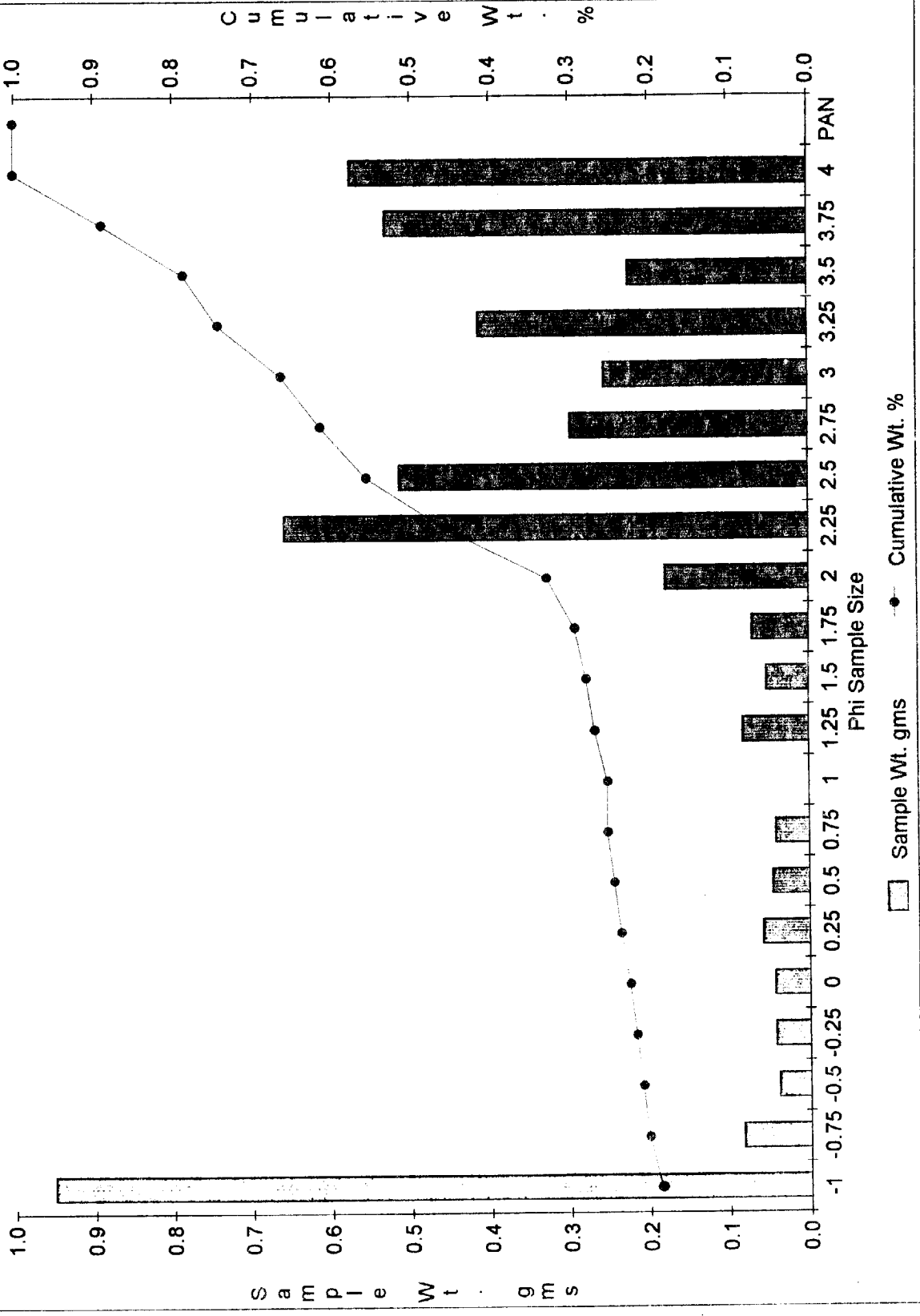
Total Wt. 24.508 gms

CO3 Wt. 5.1721 gms

Mean Grain Size 2.26 phi 0.208772 mm

Sample % Carbonate 21.103721 Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 3



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.3818	0	0.3818	0.3818	0.0602379	0.060237922
-0.75	0.1223	0	0.1223	0.5041	0.0192957	0.079533622
-0.5	0.1333	0	0.1333	0.6374	0.0210312	0.100564829
-0.25	0.1138	0.0188	0.095	0.7512	0.0149885	0.115553312
0	0.1344	0.0237	0.1107	0.8856	0.0174655	0.133018838
0.25	0.181	0.0669	0.1141	1.0666	0.018002	0.151020795
0.5	0.2022	0.0729	0.1293	1.2688	0.0204001	0.171420908
0.75	0.2439	0.1248	0.1191	1.5127	0.0187908	0.190211732
1	0.3684	0.2356	0.1328	1.8811	0.0209523	0.211164053
1.25	0.4895	0.2166	0.2729	2.3706	0.0430564	0.254220441
1.5	0.4803	0.3526	0.1277	2.8509	0.0201477	0.274368117
1.75	1.0268	0.8629	0.1639	3.8777	0.0258591	0.300227194
2	1.5836	1.3087	0.2749	5.4613	0.0433719	0.343599129
2.25	1.3882	1.1232	0.265	6.8495	0.04181	0.385409107
2.5	1.015	0.7094	0.3056	7.8645	0.0482156	0.433624688
2.75	0.8546	0.5669	0.2877	8.7191	0.0453914	0.479016124
3	1.6506	1.3724	0.2782	10.3697	0.0438926	0.522908712
3.25	4.012	3.3374	0.6746	14.3817	0.106434	0.629342716
3.5	4.9981	4.5575	0.4406	19.3798	0.069515	0.69885772
3.75	9.1788	8.232	0.9468	28.5586	0.14938	0.84823767
4	9.1357	8.1738	0.9619	37.6943	0.1517623	1
PAN	0	0	0	37.6943	0	1

Total Wt. 37.6943 gms

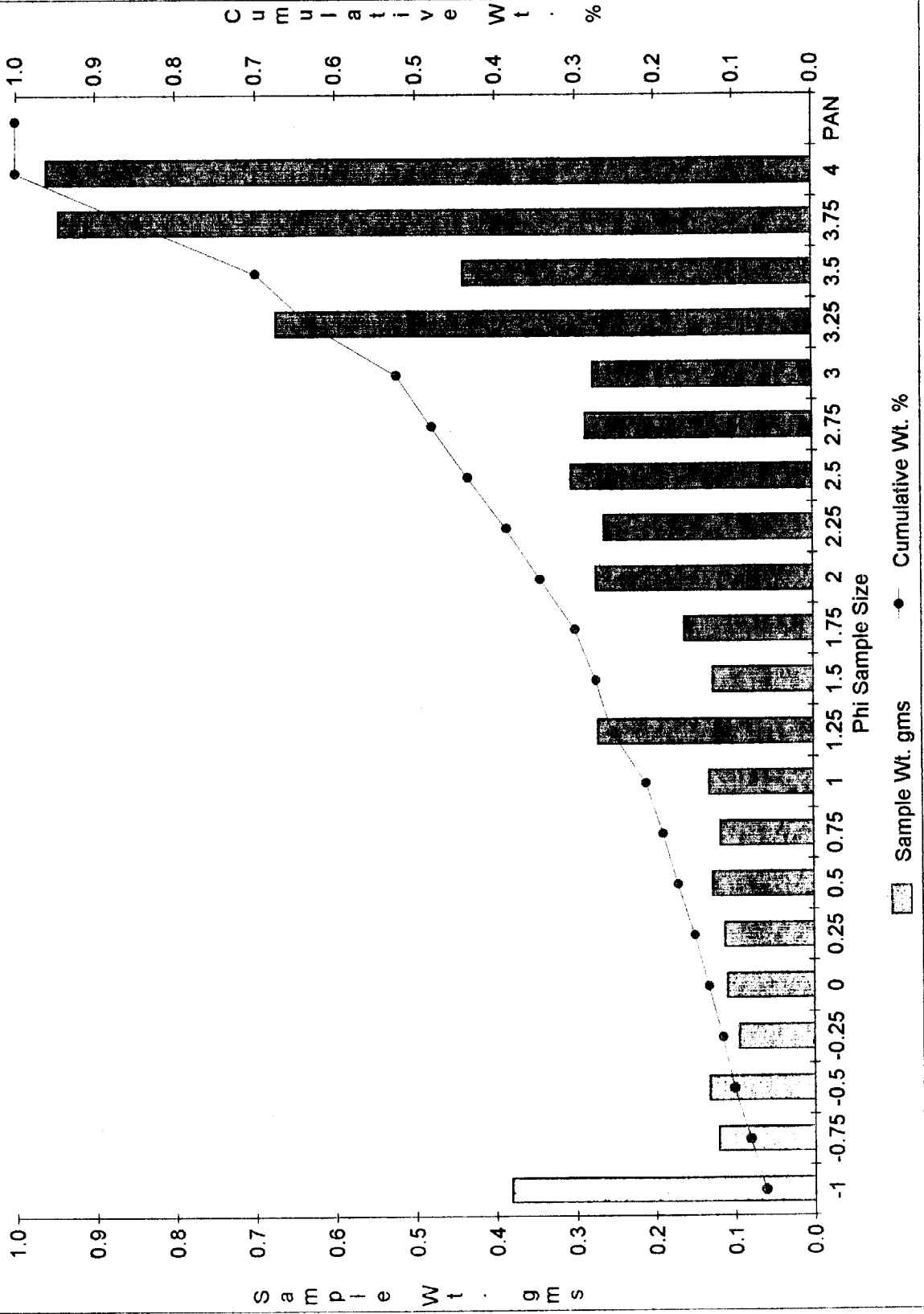
CO3 Wt. 6.3382 gms

Mean Grain Size 2.87 phi 0.1367867 mm

Sample % Carbonate 16.814744

Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 4



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum. Wt. % CO3
-1	7.4895	0	7.4895	7.4895	0.4273365	0.427336529
-0.75	0.9633	0	0.9633	8.4528	0.0549641	0.482300582
-0.5	0.8417	0.0113	0.8304	9.2945	0.047381	0.529681616
-0.25	0.7571	0.046	0.7111	10.0516	0.040574	0.57025562
0	0.6704	0.0725	0.5979	10.722	0.034115	0.604370649
0.25	0.7206	0.162	0.5586	11.4426	0.0318726	0.636243296
0.5	0.6872	0.2482	0.439	12.1298	0.0250485	0.661291795
0.75	0.7551	0.3898	0.3653	12.8849	0.0208433	0.682135114
1	1.1576	0.7693	0.3883	14.0425	0.0221557	0.704290768
1.25	1.7087	1.1898	0.5189	15.7512	0.0296074	0.733898208
1.5	1.8881	1.193	0.6951	17.6393	0.0396611	0.773559283
1.75	2.5926	2.0096	0.583	20.2319	0.0332649	0.806824147
2	2.0503	1.8887	0.1616	22.2822	0.0092206	0.816044734
2.25	1.594	1.3646	0.2294	23.8762	0.0130891	0.829133858
2.5	1.0917	0.8522	0.2395	24.9679	0.0136654	0.84279927
2.75	0.7898	0.5219	0.2679	25.7577	0.0152859	0.858085131
3	1.2385	1.0261	0.2124	26.9962	0.0121191	0.870204268
3.25	3.0803	2.5665	0.5138	30.0765	0.0293164	0.899520712
3.5	4.0685	3.5399	0.5286	34.145	0.0301609	0.929681616
3.75	7.0925	6.4172	0.6753	41.2375	0.0385313	0.968212941
4	6.3256	5.7685	0.5571	47.5631	0.0317871	1
PAN	0	0	0	47.5631	0	1

Total Wt. 47.5631 gms

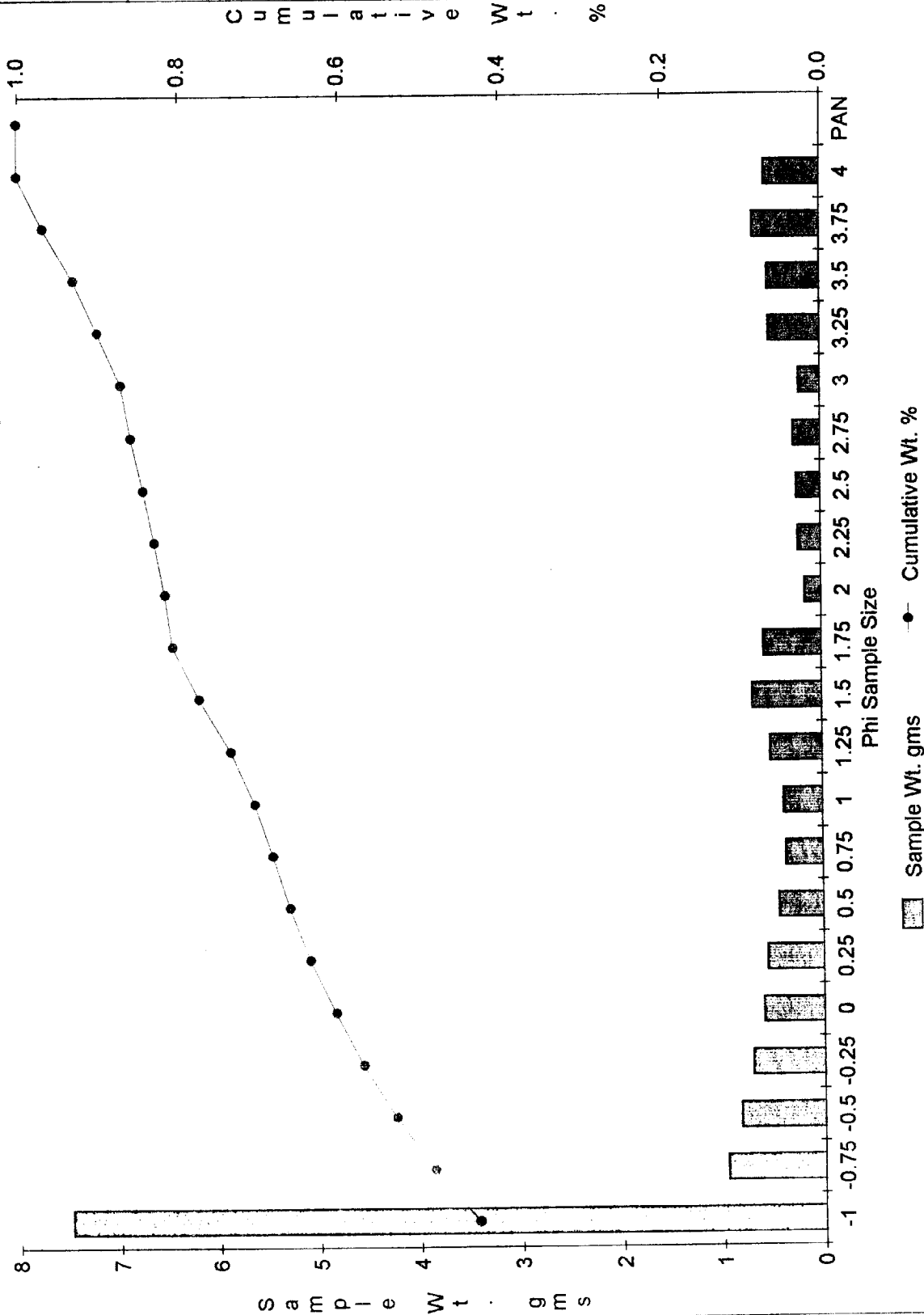
CO3 Wt. 17.526 gms

Mean Grain Size 0.34 phi 0.7900413 mm

Sample % Carbonate 36.847893

Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 5



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	2.7106	0	2.7106	2.7106	0.2399929	0.239992917
-0.75	0.1851	0	0.1851	2.8957	0.0163885	0.256381425
-0.5	0.196	0	0.196	3.0917	0.0173536	0.273735004
-0.25	0.1946	0.003	0.1916	3.2863	0.016964	0.290699013
0	0.1802	0.006	0.1742	3.4665	0.0154234	0.306122449
0.25	0.209	0.0238	0.1852	3.6755	0.0163974	0.322519811
0.5	0.2625	0.0635	0.199	3.938	0.0176192	0.340139006
0.75	0.4278	0.2081	0.2197	4.3658	0.0194519	0.359590951
1	0.91	0.17	0.74	5.2758	0.0655186	0.425109567
1.25	1.8307	1.5836	0.2471	7.1065	0.0218779	0.446987472
1.5	2.024	1.9583	0.0657	9.1305	0.005817	0.452804462
1.75	3.8849	3.3829	0.502	13.0154	0.0444464	0.497250874
2	3.2495	2.271	0.9785	16.2649	0.0866351	0.583885962
2.25	2.0919	1.6661	0.4258	18.3568	0.0376998	0.621585728
2.5	1.5557	1.1827	0.373	19.9125	0.0330249	0.654610651
2.75	1.3599	1.0827	0.2772	21.2724	0.0245429	0.67915357
3	2.4491	2.0819	0.3672	23.7215	0.0325114	0.71166497
3.25	5.4924	4.6506	0.8418	29.2139	0.0745319	0.786196821
3.5	6.8508	6.2772	0.5736	36.0647	0.0507858	0.836982602
3.75	11.6265	10.4775	1.149	47.6912	0.1017309	0.938713533
4	9.9335	9.2413	0.6922	57.6247	0.0612865	1
PAN	0	0	0	57.6247	0	1

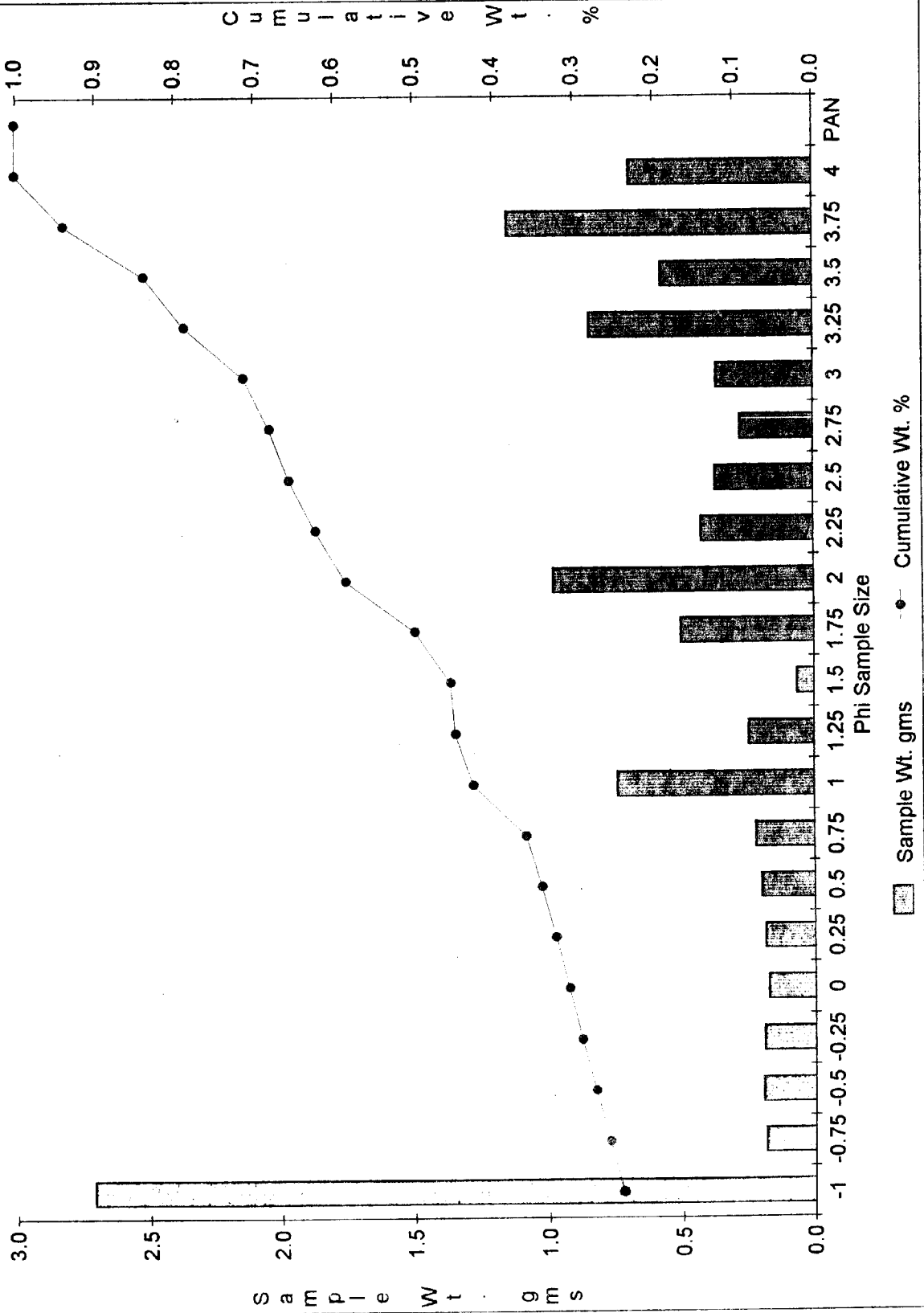
Total Wt. 57.6247 gms

CO3 Wt. 11.2945 gms

Mean Grain Size 1.76 phi 0.2952482 mm

Sample % Carbonate 19.600102 Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGST-2 STATION 6



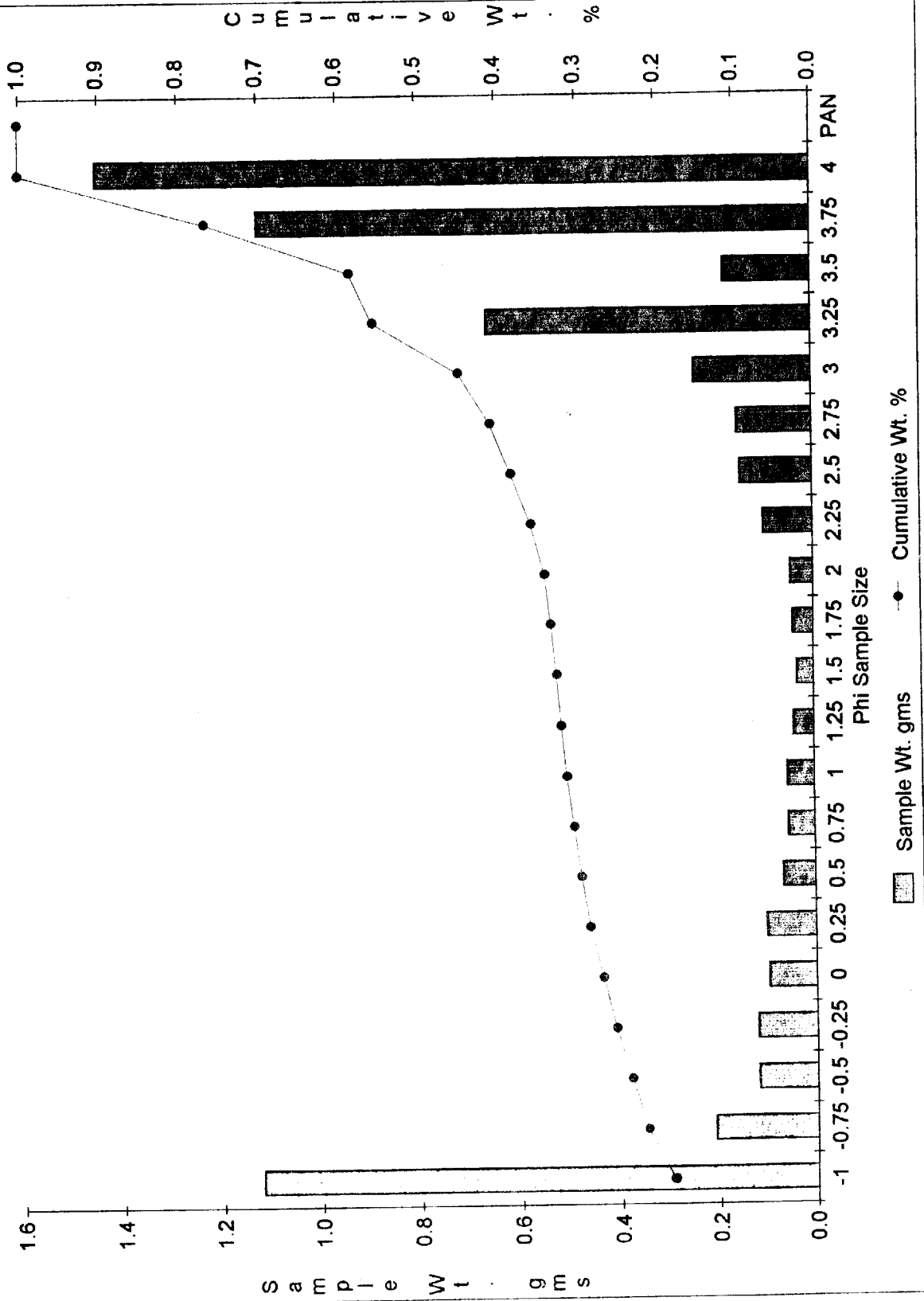
CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	1.1201	0	1.1201	1.1201	0.1819644	0.18196439
-0.75	0.2096	0	0.2096	1.3297	0.0340503	0.216014686
-0.5	0.1311	0.0113	0.1198	1.4608	0.019462	0.235476639
-0.25	0.1263	0.0057	0.1206	1.5871	0.0195919	0.255068555
0	0.0993	0.0035	0.0958	1.6864	0.0155631	0.27063162
0.25	0.0989	0	0.0989	1.7853	0.0160667	0.286698291
0.5	0.07	0.0061	0.0639	1.8553	0.0103808	0.297079082
0.75	0.0619	0.0088	0.0531	1.9172	0.0086263	0.305705374
1	0.0986	0.0443	0.0543	2.0158	0.0088212	0.31452661
1.25	0.0566	0.0155	0.0411	2.0724	0.0066768	0.321203457
1.5	0.0485	0.0151	0.0334	2.1209	0.005426	0.326629411
1.75	0.0765	0.0347	0.0418	2.1974	0.0067906	0.333419975
2	0.1351	0.0896	0.0455	2.3325	0.0073916	0.340811619
2.25	0.2764	0.1752	0.1012	2.6089	0.0164403	0.357251933
2.5	0.5323	0.382	0.1503	3.1412	0.0244168	0.381668724
2.75	0.7489	0.5922	0.1567	3.8901	0.0254565	0.407125219
3	1.6175	1.3755	0.242	5.5076	0.0393138	0.446439015
3.25	4.325	3.6653	0.6597	9.8326	0.1071707	0.553609721
3.5	7.0761	6.8949	0.1812	16.9087	0.0294366	0.583046332
3.75	14.797	13.6761	1.1209	31.7057	0.1820944	0.765140685
4	13.1601	11.7144	1.4457	44.8658	0.2348593	1
PAN	0	0	0	44.8658	0	1

Total Wt. 44.8658 gms
 CO3 Wt. 6.1556 gms
 Mean Grain Size 3.12 phi 0.1150235 mm
 Sample % Carbonate 13.720027 Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 7



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-2 STATION 8

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum. Wt. % CO3
-1	1.1396	0	1.1396	1.1396	0.16034444	0.1603444439
-0.75	0.1984	0	0.1984	1.338	0.0279154	0.188259793
-0.5	0.2506	0	0.2506	1.5886	0.03526	0.223519811
-0.25	0.2644	0	0.2644	1.853	0.0372017	0.260721522
0	0.2115	0.0051	0.2064	2.0645	0.029041	0.289762494
0.25	0.1972	0.0018	0.1954	2.2617	0.0274932	0.317255741
0.5	0.1354	0.0095	0.1259	2.3971	0.0177144	0.334970171
0.75	0.1391	0.0318	0.1073	2.5362	0.0150974	0.350067537
1	0.2087	0.0842	0.1245	2.7449	0.0175174	0.367584984
1.25	0.1567	0.0813	0.0754	2.9016	0.010609	0.378193944
1.5	0.1162	0.0763	0.0399	3.0178	0.005614	0.383807969
1.75	0.1949	0.1386	0.0563	3.2127	0.0079215	0.391729514
2	0.2845	0.2209	0.0636	3.4972	0.0089487	0.400678186
2.25	0.4027	0.2844	0.1183	3.8999	0.0166451	0.417323278
2.5	0.506	0.3451	0.1609	4.4059	0.022639	0.439962292
2.75	0.5343	0.3478	0.1865	4.9402	0.026241	0.466203287
3	1.1184	0.9106	0.2078	6.0586	0.029238	0.495441243
3.25	2.9187	2.3606	0.5581	8.9773	0.078526	0.573967244
3.5	5.499	4.9923	0.5067	14.4763	0.0712939	0.645261144
3.75	13.6843	12.4154	1.2689	28.1606	0.1785373	0.823798402
4	12.8636	11.6113	1.2523	41.0242	0.1762016	1
PAN	0	0	0	41.0242	0	1

Total Wt. 41.0242 gms

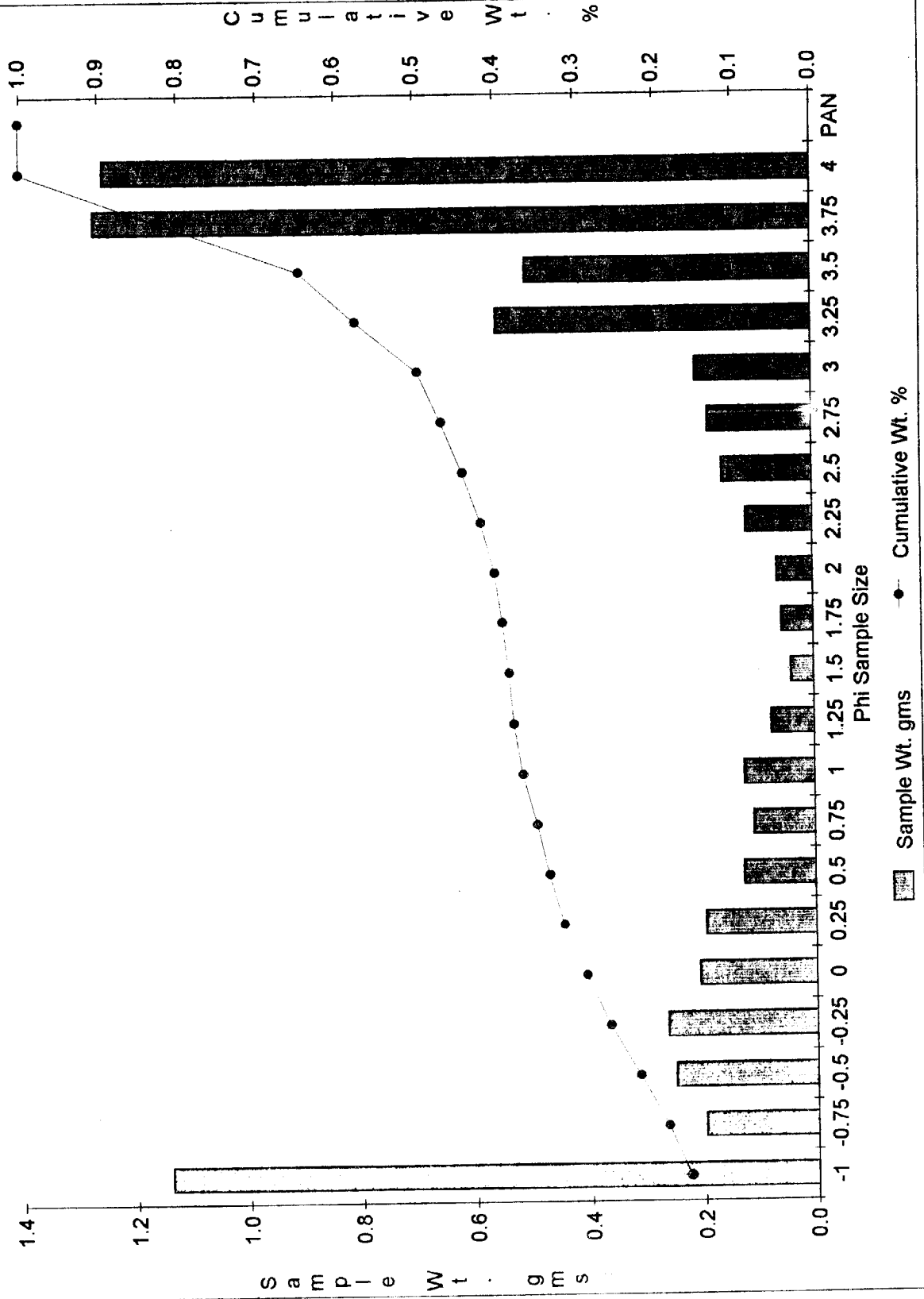
CO3 Wt. 7.1072 gms

Mean Grain Size 3.01 phi 0.1241366 mm

Sample % Carbonate 17.324409

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-2 STATION 8



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.0444	0	0.0444	0.0444	0.0039504	0.003950389
-0.75	0.0353	0	0.0353	0.0797	0.0031407	0.007091126
-0.5	0.0515	0	0.0515	0.1312	0.0045821	0.011673221
-0.25	0.0612	0	0.0612	0.1924	0.0054451	0.017118352
0	0.0715	0.0032	0.0683	0.2639	0.0060768	0.023195188
0.25	0.139	0.0165	0.1225	0.4029	0.0108992	0.034094347
0.5	0.2898	0.1015	0.1883	0.6927	0.0167536	0.05084791
0.75	0.5667	0.3042	0.2625	1.2594	0.0233553	0.074203249
1	1.2808	0.9462	0.3346	2.5402	0.0297703	0.103973522
1.25	2.4665	1.4816	0.9849	5.0067	0.0876292	0.191602755
1.5	2.0265	1.4274	0.5991	7.0332	0.0533036	0.244906312
1.75	3.4626	2.5226	0.94	10.4958	0.0836344	0.328540669
2	4.2767	3.3509	0.9258	14.7725	0.0823709	0.410911614
2.25	5.1005	3.9201	1.1804	19.873	0.1050234	0.515935014
2.5	3.6915	2.4762	1.2153	23.5645	0.1081285	0.624063562
2.75	1.2922	0.5479	0.7443	24.8567	0.0662224	0.690285958
3	1.1012	0.6595	0.4417	25.9579	0.0392993	0.729585209
3.25	3.9254	3.1038	0.8216	29.8833	0.0731	0.802685197
3.5	6.7081	6.4045	0.3036	36.5914	0.0270121	0.829697315
3.75	9.6884	8.4644	1.224	46.2798	0.1089026	0.938599925
4	9.1992	8.5091	0.6901	55.479	0.0614001	1
PAN	0	0	0	55.479	0	1

Total Wt. 55.479 gms

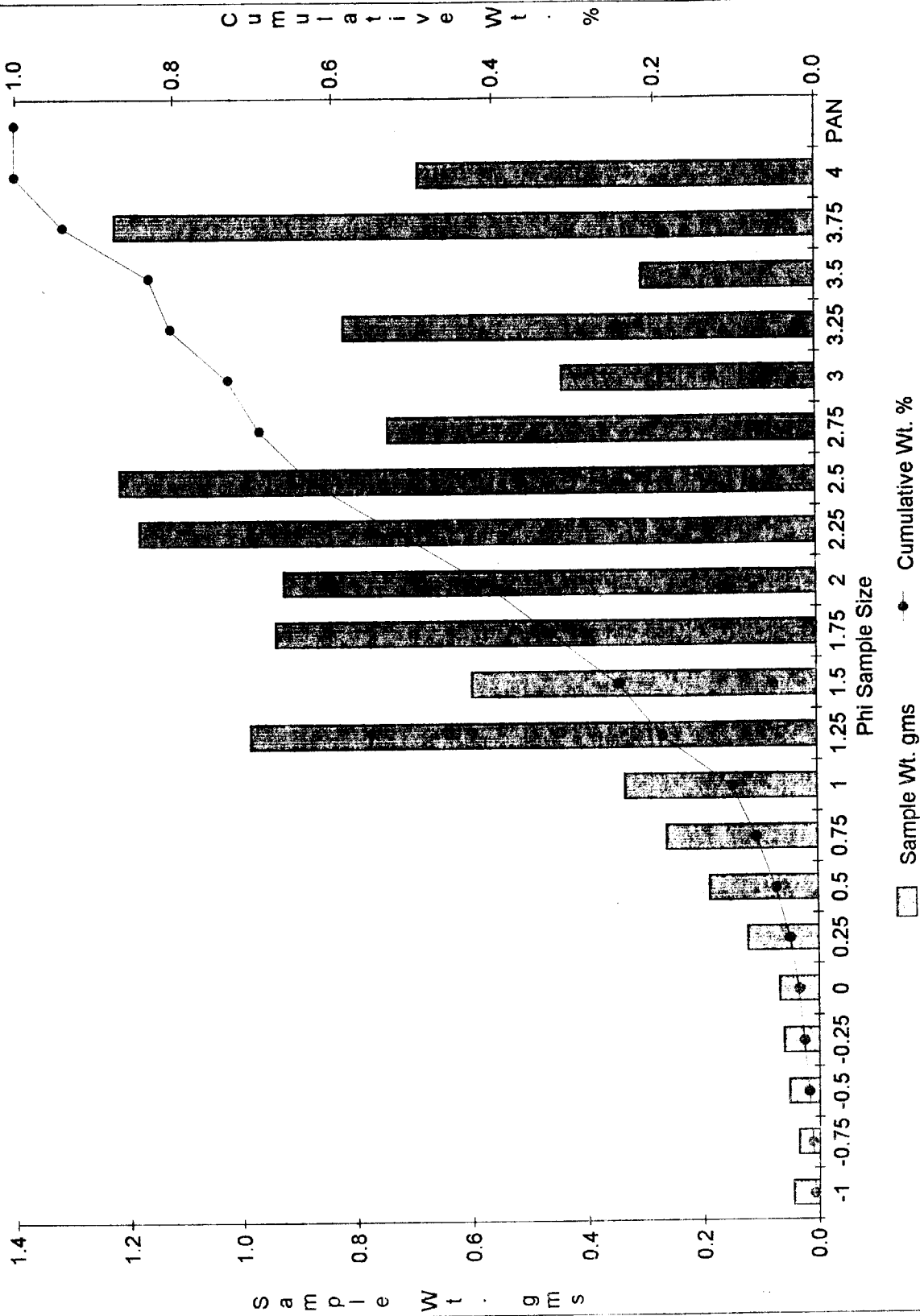
CO3 Wt. 11.2394 gms

Mean Grain Size 2.21 phi 0.2161343 mm

Sample % Carbonate 20.258837

Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-3 STATION 1



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.2559	0	0.2559	0.2559	0.0458569	0.045856928
-0.75	0.0655	0	0.0655	0.3214	0.0117375	0.057594438
-0.5	0.0974	0	0.0974	0.4188	0.0174539	0.075048384
-0.25	0.1312	0	0.1312	0.55	0.0235109	0.098559243
0	0.1305	0.003	0.1275	0.6805	0.0228478	0.121407068
0.25	0.1166	0.0058	0.1108	0.7971	0.0198552	0.141262275
0.5	0.1084	0.0184	0.09	0.9055	0.0161279	0.157390151
0.75	0.1358	0.0369	0.0989	1.0413	0.0177227	0.175112895
1	0.2119	0.1155	0.0964	1.2532	0.0172747	0.192387642
1.25	0.3075	0.2123	0.0952	1.5607	0.0170597	0.209447351
1.5	0.4548	0.3973	0.0575	2.0155	0.0103039	0.219751272
1.75	1.549	1.549	0	3.5645	0	0.219751272
2	2.788	2.5549	0.2331	6.3525	0.0417712	0.261522472
2.25	2.4796	2.0595	0.4201	8.8321	0.0752813	0.336803813
2.5	1.114	0.7906	0.3234	9.9461	0.0579528	0.394756648
2.75	0.4179	0.1933	0.2246	10.364	0.040248	0.435004659
3	0.6649	0.4666	0.1983	11.0289	0.0355351	0.470539746
3.25	3.0134	2.4874	0.526	14.0423	0.0942585	0.564798222
3.5	5.9517	5.3656	0.5861	19.994	0.1050283	0.669826536
3.75	9.5435	8.585	0.9585	29.5375	0.1717619	0.841588417
4	8.5288	7.6448	0.884	38.0663	0.1584116	1
PAN	0	0	0	38.0663	0	1

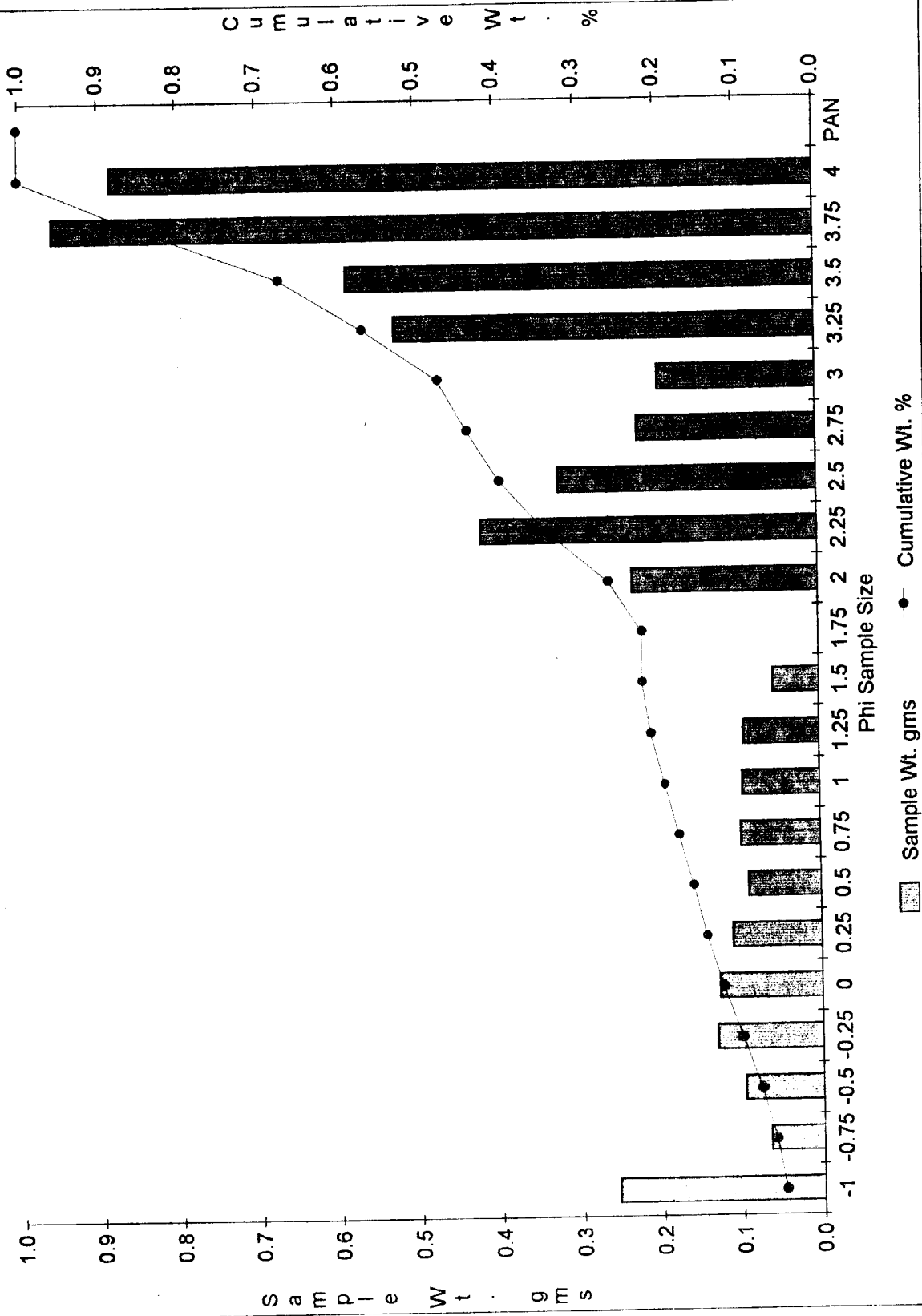
Total Wt. 38.0663 gms

CO3 Wt. 5.5804 gms

Mean Grain Size 3.08 phi 0.1182572 mm

Sample % Carbonate 14.659686 Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-3 STATION 2



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	0.2335	0	0.2335	0.2335	0.0417039	0.041703876
-0.75	0.0522	0	0.0522	0.2857	0.0093231	0.051026969
-0.5	0.0447	0	0.0447	0.3304	0.0079836	0.059010538
-0.25	0.0449	0	0.0449	0.3753	0.0080193	0.067029827
0	0.0424	0.003	0.0394	0.4177	0.007037	0.074066798
0.25	0.0579	0.0028	0.0551	0.4756	0.009841	0.083907841
0.5	0.0663	0.0049	0.0614	0.5419	0.0109662	0.094874085
0.75	0.0896	0.0211	0.0685	0.6315	0.0122343	0.107108412
1	0.1758	0.1051	0.0707	0.8073	0.0126273	0.119735667
1.25	0.3072	0.2289	0.0783	1.1145	0.0139846	0.133720307
1.5	0.4355	0.4073	0.0282	1.55	0.0050366	0.138756921
1.75	1.1635	1.0911	0.0724	2.7135	0.0129309	0.151687801
2	1.6105	1.4246	0.1859	4.324	0.0332024	0.184890159
2.25	1.7358	1.4684	0.2674	6.0598	0.0477585	0.232648687
2.5	1.5776	1.2373	0.3403	7.6374	0.0607787	0.293427398
2.75	1.0434	0.6715	0.3719	8.6808	0.0664226	0.359849973
3	1.5823	1.1367	0.4456	10.2631	0.0795856	0.439435614
3.25	5.5114	4.4137	1.0977	15.7745	0.1960529	0.63548848
3.5	5.4926	5.4926	0	21.2671	0	0.63548848
3.75	10.6708	9.4636	1.2072	31.9379	0.2156099	0.85109841
4	7.9181	7.0844	0.8337	39.856	0.1489016	1
PAN	0	0	0	39.856	0	1

Total Wt. 39.856 gms

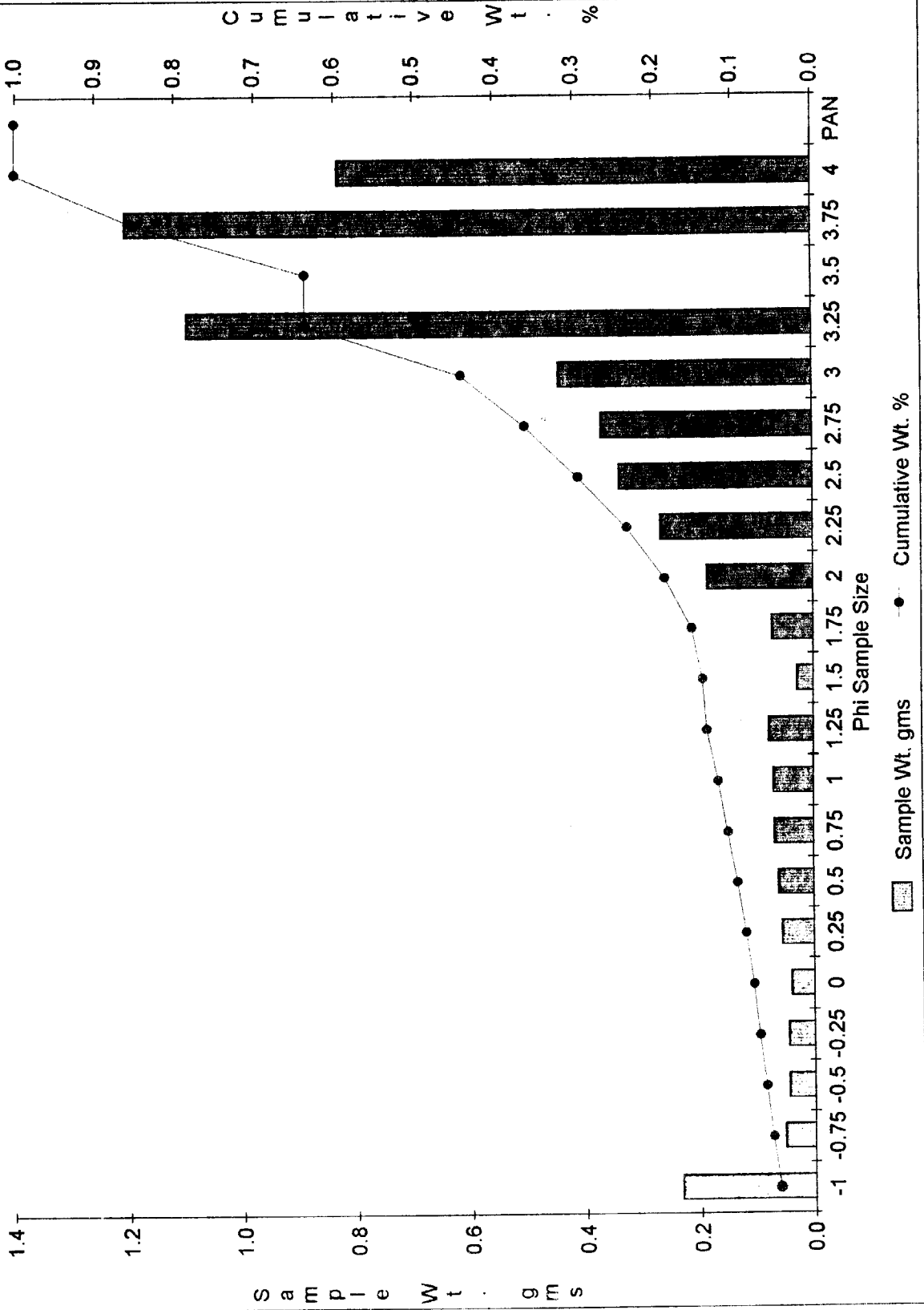
CO3 Wt. 5.599 gms

Mean Grain Size 3.08 phi 0.1182572 mm

Sample % Carbonate 14.048073

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-3 STATION 3



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-1	0.5005	0	0.5005	0.5005	0.0731586	0.07315861
-0.75	0.1347	0	0.1347	0.6352	0.0196892	0.092847851
-0.5	0.1247	0	0.1247	0.7599	0.0182275	0.111107538
-0.25	0.1264	0	0.1264	0.8863	0.018476	0.129551401
0	0.089	0	0.089	0.9753	0.0130092	0.142560624
0.25	0.1002	0	0.1002	1.0755	0.0146463	0.157206964
0.5	0.0844	0.0023	0.0821	1.1599	0.0120006	0.169207607
0.75	0.0829	0.0089	0.074	1.2428	0.0108167	0.180024264
1	0.1556	0.0702	0.0854	1.3984	0.012483	0.192507272
1.25	0.278	0.1704	0.1076	1.6764	0.015728	0.208235277
1.5	0.5179	0.3926	0.1253	2.1943	0.0183152	0.226550509
1.75	1.3979	1.3116	0.0863	3.5922	0.0126146	0.239165071
2	2.4302	2.2006	0.2296	6.0224	0.0335609	0.272725944
2.25	3.0857	2.8496	0.2361	9.1081	0.034511	0.307236929
2.5	2.5513	2.1885	0.3628	11.6594	0.0530309	0.360267785
2.75	1.21	0.9324	0.2776	12.8694	0.0405771	0.400844869
3	1.5739	1.4078	0.1661	14.4433	0.024279	0.42512388
3.25	5.9788	5.9788	0	20.4221	0	0.42512388
3.5	9.9898	9.9898	0	30.4119	0	0.42512388
3.75	12.6775	10.1646	2.5129	43.0894	0.3673132	0.79243711
4	10.2573	8.8373	1.42	53.3467	0.2075629	1
PAN	0	0	0	53.3467	0	1

Total Wt. 53.3467 gms

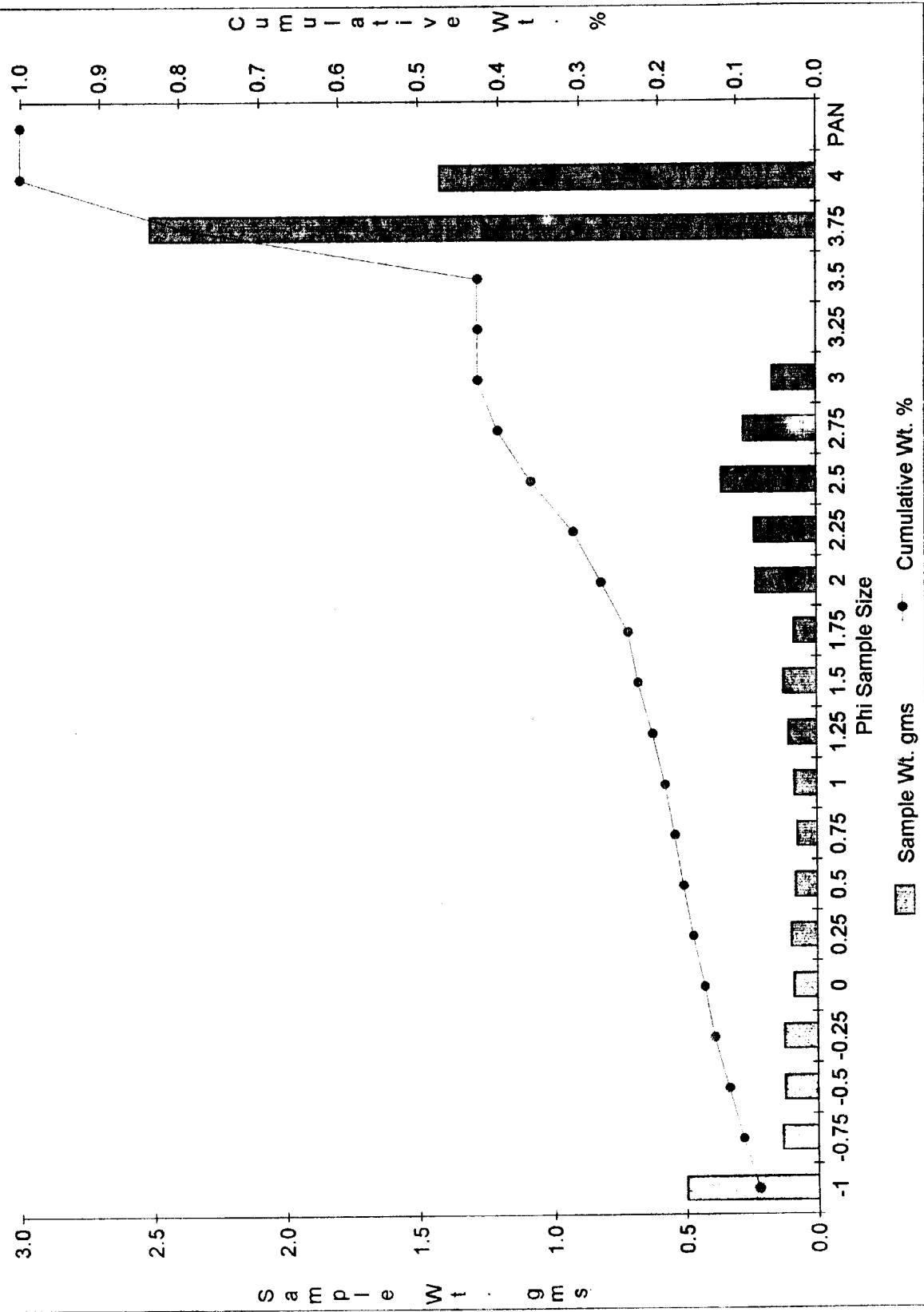
CO3 Wt. 6.8413 gms

Mean Grain Size 3.55 phi 0.0853775 mm

Sample % Carbonate 12.824223

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGS T-3 STATION 4



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	2.7958	0	2.7958	2.7958	0.366043	0.366043022
-0.75	0.2451	0	0.2451	3.0409	0.03209	0.398132995
-0.5	0.1865	0.005	0.1815	3.2274	0.0237631	0.421896071
-0.25	0.2103	0	0.2103	3.4377	0.0275337	0.449429817
0	0.1862	0	0.1862	3.6239	0.0243784	0.473808246
0.25	0.1752	0.004	0.1712	3.7991	0.0224145	0.496222784
0.5	0.1171	0.015	0.1021	3.9162	0.0133675	0.509590332
0.75	0.1091	0.037	0.0721	4.0253	0.0094398	0.5190301
1	0.1855	0.1256	0.0599	4.2108	0.0078425	0.52687257
1.25	0.2276	0.1652	0.0624	4.4384	0.0081698	0.535042355
1.5	0.1472	0.119	0.0282	4.5856	0.0036921	0.538734469
1.75	0.1643	0.148	0.0163	4.7499	0.0021341	0.540868563
2	0.2547	0.1934	0.0613	5.0046	0.0080258	0.54889433
2.25	0.5058	0.3797	0.1261	5.5104	0.0165098	0.565404103
2.5	0.6723	0.5297	0.1426	6.1827	0.0186701	0.584074157
2.75	0.5621	0.3782	0.1839	6.7448	0.0240773	0.608151455
3	1.5895	1.4273	0.1622	8.3343	0.0212362	0.629387659
3.25	6.3058	5.5427	0.7631	14.6401	0.0999097	0.72929732
3.5	9.2323	8.6246	0.6077	23.8724	0.0795638	0.808861074
3.75	10.5328	9.8155	0.7173	34.4052	0.0939132	0.902774323
4	7.7906	7.048	0.7426	42.1958	0.0972257	1
PAN	0	0	0	42.1958	0	1

Total Wt. 42.1958 gms

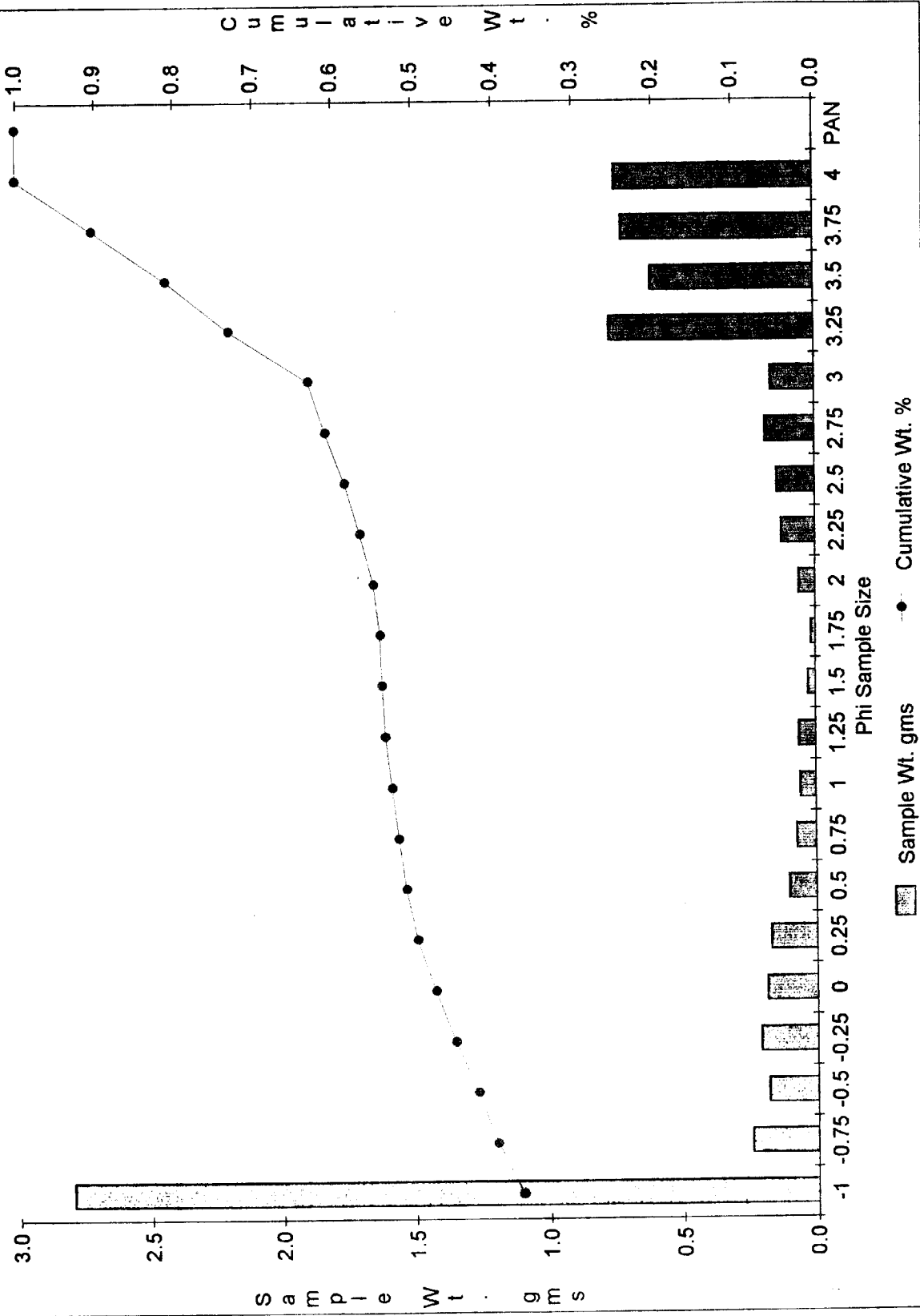
CO3 Wt. 7.6379 gms

Mean Grain Size 0.32 phi 0.8010699 mm

Sample % Carbonate 18.101091

Sand-Sized Grain Fraction

Cum CO3 Wt. %
FGST-3 STATION 5



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	6.0875	0	6.0875	6.0875	0.3290327	0.329032711
-0.75	0.8789	0	0.8789	6.9664	0.047505	0.376537738
-0.5	0.9657	0.0202	0.9455	7.9321	0.0511048	0.427642531
-0.25	0.9367	0.0415	0.8952	8.8688	0.0483861	0.476028582
0	0.7997	0.0955	0.7042	9.6685	0.0380624	0.514090978
0.25	0.761	0.1372	0.6238	10.4295	0.0337167	0.54780771
0.5	0.7035	0.2747	0.4288	11.133	0.0231769	0.570984585
0.75	0.8796	0.5107	0.3689	12.0126	0.0199392	0.590923832
1	1.3719	1.0252	0.3467	13.3845	0.0187393	0.609663157
1.25	1.8012	1.2232	0.578	15.1857	0.0312412	0.640904374
1.5	1.3575	1.1003	0.2572	16.5432	0.0139018	0.654806175
1.75	2.1876	1.786	0.4016	18.7308	0.0217067	0.676512875
2	2.224	1.7564	0.4676	20.9548	0.025274	0.701786911
2.25	1.6702	1.3813	0.2889	22.625	0.0156152	0.717402114
2.5	0.873	0.6288	0.2442	23.498	0.0131991	0.730601258
2.75	0.5552	0.2369	0.3183	24.0532	0.0172043	0.747805548
3	1.4344	1.0206	0.4138	25.4876	0.0223661	0.770171665
3.25	5.1008	4.0345	1.0663	30.5884	0.0576341	0.827805764
3.5	7.7678	6.5314	1.2364	38.3562	0.0668281	0.894633862
3.75	11.2854	10.1923	1.0931	49.6416	0.0590827	0.953716516
4	9.8104	8.9541	0.8563	59.452	0.0462835	1
PAN	0	0	0	59.452	0	1

Total Wt. 59.452 gms

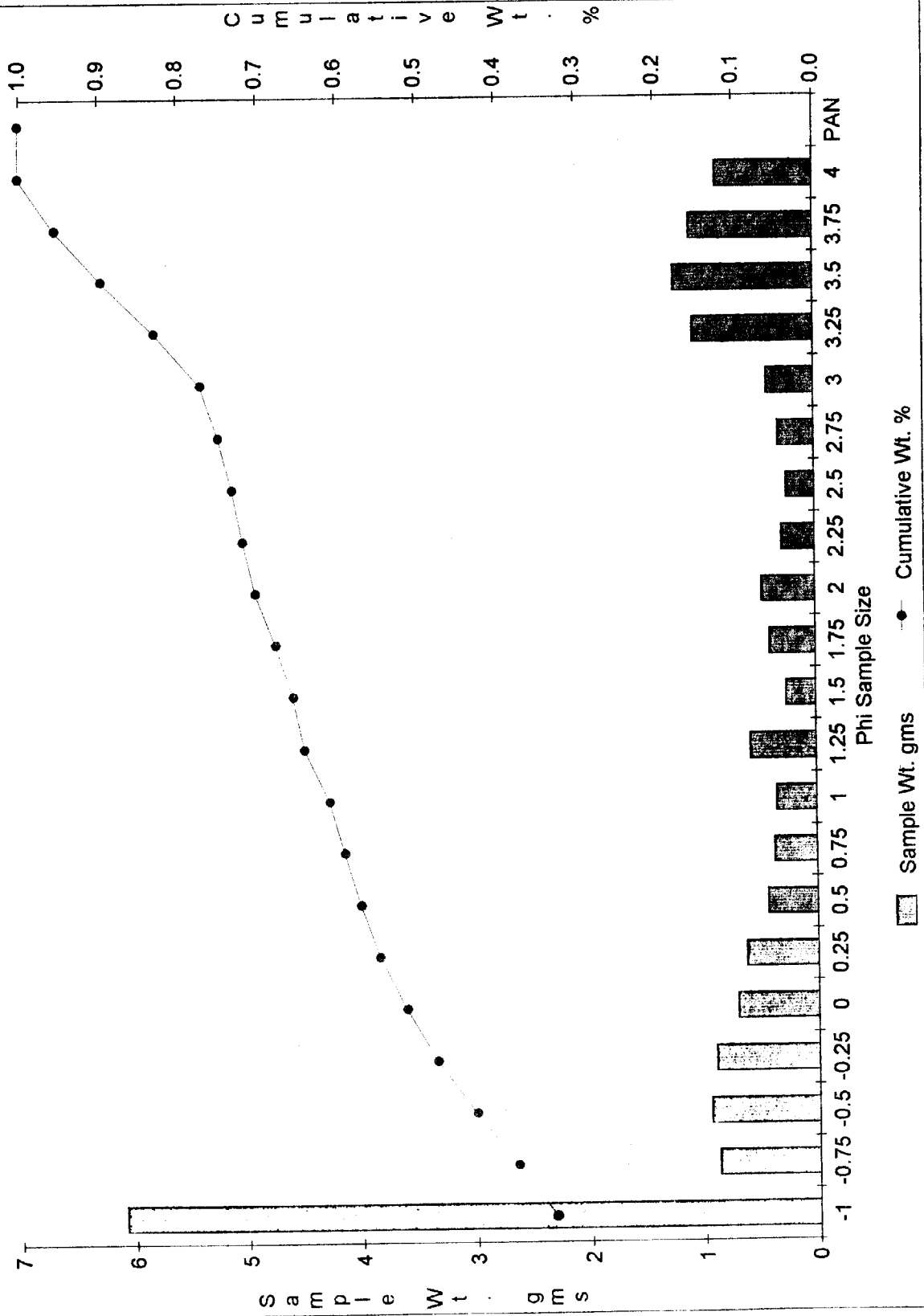
CO3 Wt. 18.5012 gms

Mean Grain Size -0.09 phi 1.0643702 mm

Sample % Carbonate 31.119559

Sand-sized Grain Fraction

Cum CO3 Wt. %
FGS T-3 STATION 6



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot. Cum. Wt. % CO3
-1	4.2062	0	4.2062	4.2062	0.2518532	0.251853182
-0.75	0.3712	0	0.3712	4.5774	0.0222262	0.274079396
-0.5	0.4002	0	0.4002	4.9776	0.0239626	0.298042033
-0.25	0.3896	0	0.3896	5.3672	0.0233279	0.321369978
0	0.3055	0.0046	0.3009	5.6727	0.0180169	0.339386863
0.25	0.3841	0.0206	0.3635	6.0568	0.0217652	0.361152027
0.5	0.3734	0.0532	0.3202	6.4302	0.0191725	0.380324531
0.75	0.4884	0.1421	0.3463	6.9186	0.0207353	0.401059817
1	0.8222	0.4388	0.3834	7.7408	0.0229567	0.424016526
1.25	1.5124	0.9195	0.5929	9.2532	0.0355009	0.459517394
1.5	1.7902	1.3856	0.4046	11.0434	0.0242261	0.483743488
1.75	4.428	3.6901	0.7379	15.4714	0.044183	0.527926471
2	5.6346	4.8779	0.7567	21.106	0.0453087	0.573235136
2.25	6.4282	5.3663	1.0619	27.5342	0.063583	0.636818155
2.5	4.8559	3.7987	1.0572	32.3901	0.0633016	0.700119753
2.75	2.743	2.0684	0.6746	35.1331	0.0403928	0.740512544
3	4.4346	3.8185	0.6161	39.5677	0.03689	0.777402551
3.25	10.6485	9.2855	1.363	50.2162	0.0816119	0.85901443
3.5	11.4518	10.6325	0.8193	61.668	0.0490569	0.908071373
3.75	11.7017	10.6385	1.0632	73.3697	0.0636609	0.971732232
4	6.3666	5.8945	0.4721	79.7363	0.0282678	1
PAN	0	0	0	79.7363	0	1

Total Wt. 79.7363 gms

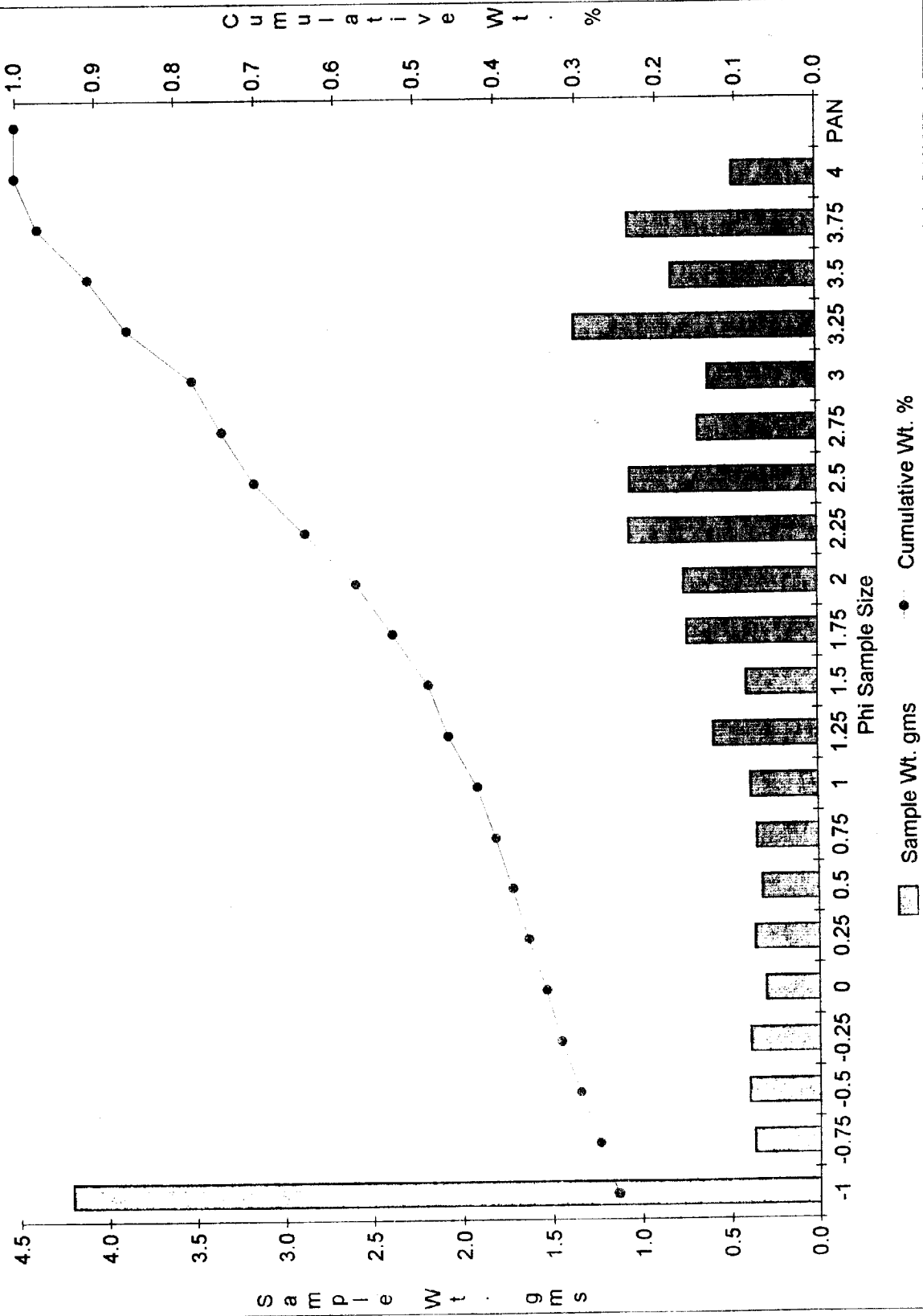
CO3 Wt. 16.701 gms

Mean Grain Size 1.549 phi 0.3417469 mm

Sample % Carbonate 20.945291

Sand-Sized Grain Fraction

Cum CO3 Wt. %
 FGS T-3 STATION 7



CARBONATE GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE
FGS T-3 STATION 8

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	CO3 Wt. %	Tot.Cum.Wt.% CO3
-----	-----------	------------	---------	----------	-----------	------------------

-1						
-0.75						
-0.5						
-0.25						
0						
0.25						
0.5						
0.75						
1						
1.25						
1.5						
1.75						
2						
2.25						
2.5						
2.75						
3						
3.25						
3.5						
3.75						
4						
PAN						

Due to insufficient sand-size grains,
no granulometrics were carried out
on this sample.

Total Wt.	5.4422 gms
CO3 Wt.	1.1147 gms

Sample % Carbonate	20.482525	Sand-Sized Grain Fraction
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APPENDIX 3

SILICA FRACTION GRANULOMETRIC DATA

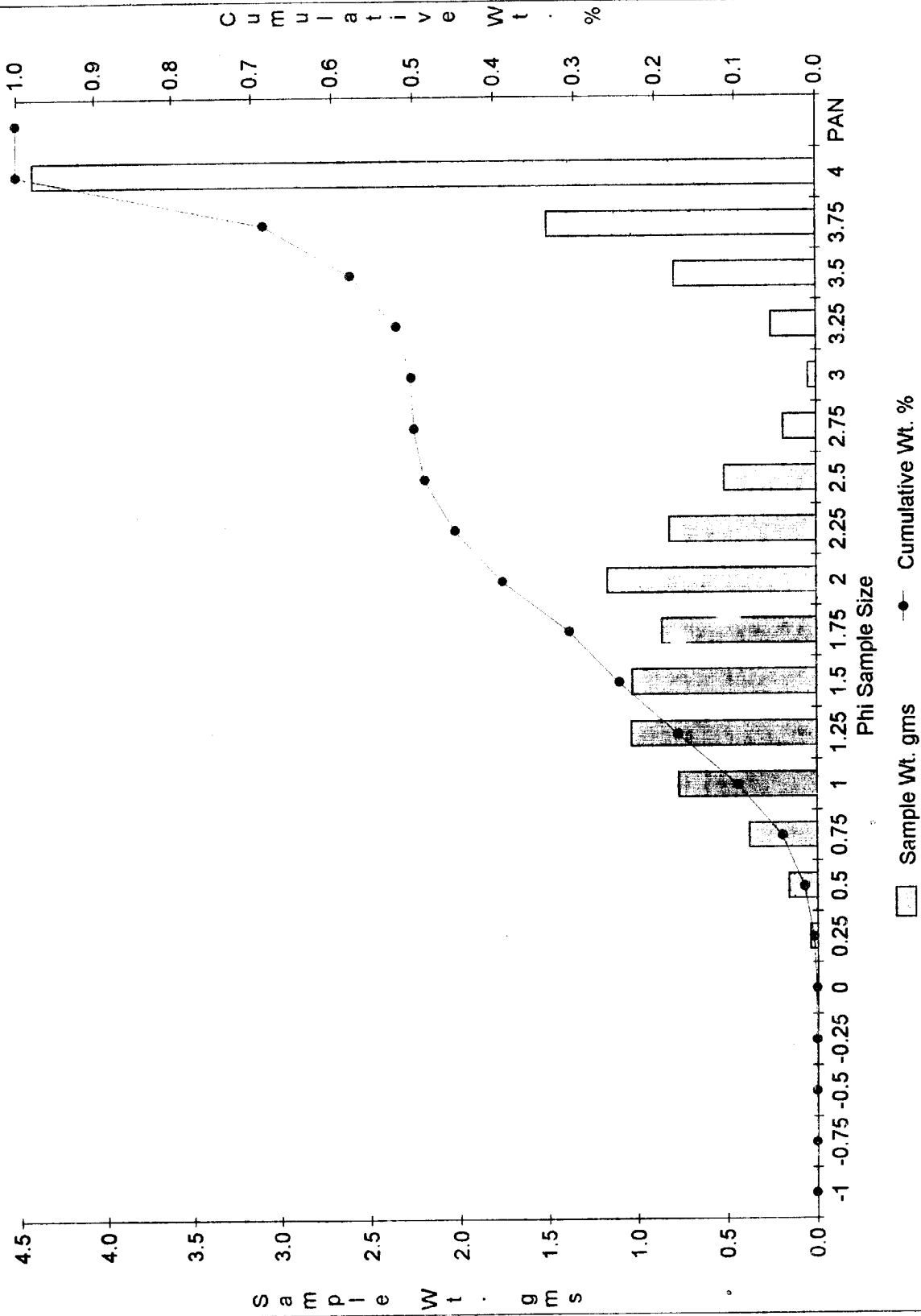
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.6159	0	0.6159	0.6159	0	0
-0.75	0.172	0	0.172	0.7879	0	0
-0.5	0.2924	0	0.2924	1.0803	0	0
-0.25	0.5037	0	0.5037	1.584	0	0
0	0.7544	0.005	0.7494	2.3384	0.00035757	0.000357575
0.25	1.2927	0.0399	1.2528	3.6311	0.00285344	0.003211019
0.5	1.3997	0.1586	1.2411	5.0308	0.01134226	0.014553282
0.75	1.7101	0.3777	1.3324	6.7409	0.02701118	0.04156446
1	2.2391	0.7703	1.4688	8.98	0.05508793	0.096652388
1.25	2.5269	1.0372	1.4897	11.5069	0.07417525	0.170827642
1.5	1.7265	1.0321	0.6944	13.2334	0.07381053	0.24463817
1.75	1.8608	0.8659	0.9949	15.0942	0.06192475	0.306562922
2	1.2352	1.1708	0.0644	16.3294	0.08372965	0.390292567
2.25	0.822	0.822	0	17.1514	0.05878525	0.449077815
2.5	0.5154	0.5154	0	17.6668	0.03685878	0.485936595
2.75	0.1836	0.1836	0	17.8504	0.01313014	0.499066731
3	0.3576	0.0442	0.3134	18.208	0.00316096	0.502227689
3.25	1.0801	0.2538	0.8263	19.2881	0.01815048	0.520378171
3.5	1.6669	0.7934	0.8735	20.955	0.05673992	0.577118093
3.75	6.1105	1.5039	4.6066	27.0655	0.10755126	0.684669351
4	4.7098	4.4093	0.3005	31.7753	0.31533065	1
PAN	0	0	0	31.7753	0	1

Total Wt. 31.7753 gms
 Digest Wt. 13.9831 gms
 Mean Grain Size 2.82 phi 0.14161049 mm
 Sample % Silica 44.006193 Sand-Sized Grain Fraction

Cum Digested Wt. %

FGS T-1 STATION 1



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.576	0	0.576	0.576	0	0
-0.75	0.2746	0	0.2746	0.8506	0	0
-0.5	0.2253	0	0.2253	1.0759	0	0
-0.25	0.2115	0	0.2115	1.2874	0	0
0	0.2045	0	0.2045	1.4919	0	0
0.25	0.2599	0	0.2599	1.7518	0	0
0.5	0.2273	0.0031	0.2242	1.9791	5.3178E-05	5.31778E-05
0.75	0.2693	0.0105	0.2588	2.2484	0.00018012	0.000233296
1	0.3525	0.0561	0.2964	2.6009	0.00096235	0.001195643
1.25	0.4539	0.0854	0.3685	3.0548	0.00146496	0.002660606
1.5	0.4009	0.1055	0.2954	3.4557	0.00180976	0.004470366
1.75	0.7066	0.2378	0.4688	4.1623	0.00407925	0.008549618
2	1.0055	0.5901	0.4154	5.1678	0.01012265	0.01867227
2.25	1.9183	1.4037	0.5146	7.0861	0.02407925	0.042751522
2.5	2.197	1.5705	0.6265	9.2831	0.02694056	0.069692083
2.75	1.7596	1.2398	0.5198	11.0427	0.02126769	0.090959774
3	2.7785	2.1768	0.6017	13.8212	0.03734111	0.128300883
3.25	7.2966	6.0221	1.2745	21.1178	0.10330389	0.231604769
3.5	12.158	10.8196	1.3384	33.2758	0.18560082	0.417205592
3.75	21.0065	19.1898	1.8167	54.2823	0.32918432	0.746389913
4	16.0415	14.7842	1.2573	70.3238	0.25361009	1
PAN	0	0	0	70.3238	0	1

Total Wt. 70.3238 gms

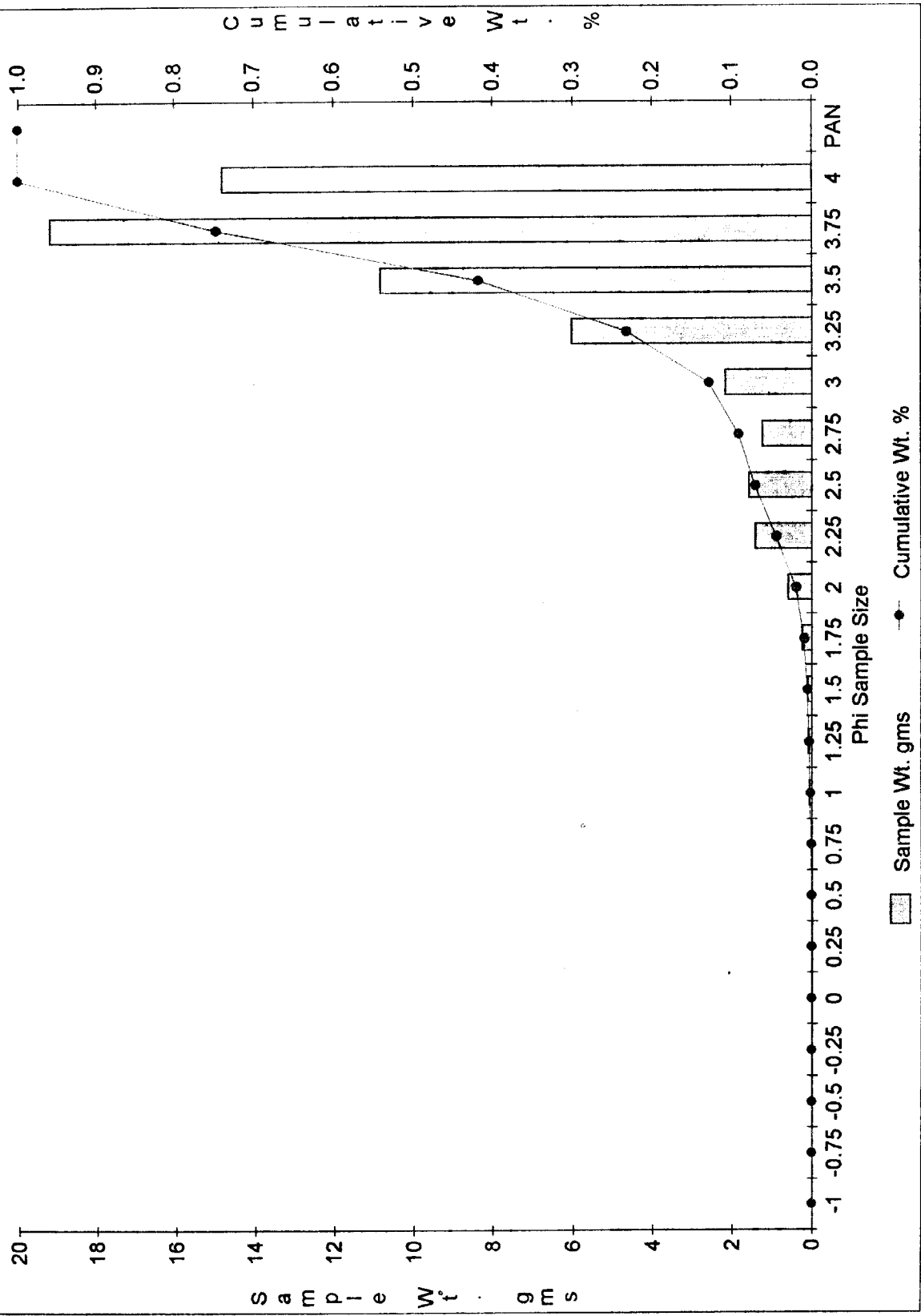
Digest Wt. 58.295 gms

Mean Grain Size 3.6 phi 0.08246924 mm

Sample % Silica 82.895122

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-1 STATION 2



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum.Digest Wt. %
-1	0.1009	0	0.1009	0.1009	0	0
-0.75	0.049	0	0.049	0.1499	0	0
-0.5	0.025	0	0.025	0.1749	0	0
-0.25	0.034	0	0.034	0.2089	0	0
0	0.0463	0	0.0463	0.2552	0	0
0.25	0.0242	0.0014	0.0228	0.2794	4.0772E-05	4.07722E-05
0.5	0.0326	0	0.0326	0.312	0	4.07722E-05
0.75	0.0372	0.0372	0	0.3492	0.00108338	0.001124149
1	0.0668	0.0241	0.0427	0.416	0.00070186	0.001826013
1.25	0.0641	0.0325	0.0316	0.4801	0.0009465	0.002772511
1.5	0.0545	0.0545	0	0.5346	0.0015872	0.004359716
1.75	0.1047	0.0748	0.0299	0.6393	0.0021784	0.006538118
2	0.1603	0.1117	0.0486	0.7996	0.00325304	0.009791159
2.25	0.269	0.2175	0.0515	1.0686	0.00633426	0.016125415
2.5	0.5091	0.4143	0.0948	1.5777	0.01206567	0.028191082
2.75	0.6689	0.3317	0.3372	2.2466	0.00966011	0.037851187
3	1.2977	0.8377	0.46	3.5443	0.02439635	0.06224754
3.25	3.4256	2.4473	0.9783	6.9699	0.07127276	0.133520303
3.5	6.7626	4.7146	2.048	13.7325	0.13730338	0.270823686
3.75	16.3021	12.4546	3.8475	30.0346	0.36271555	0.633539233
4	12.5832	12.5832	0	42.6178	0.36646077	1
PAN	0	0	0	42.6178	0	1

Total Wt. 42.6178 gms

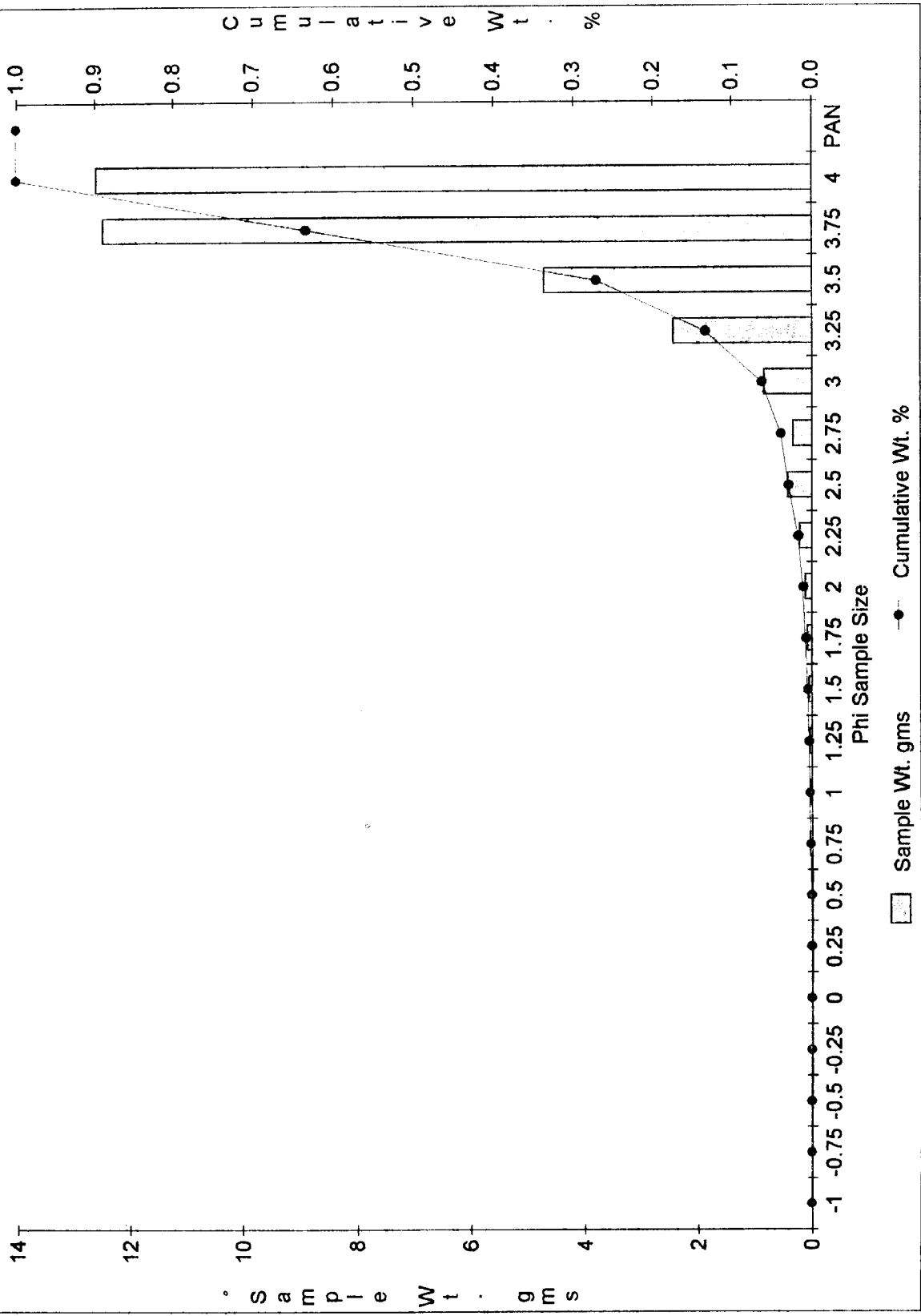
Digest Wt. 34.3371 gms

Mean Grain Size 3.66 phi 0.07910979 mm

Sample % Silica 80.569856

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-1 STATION 3



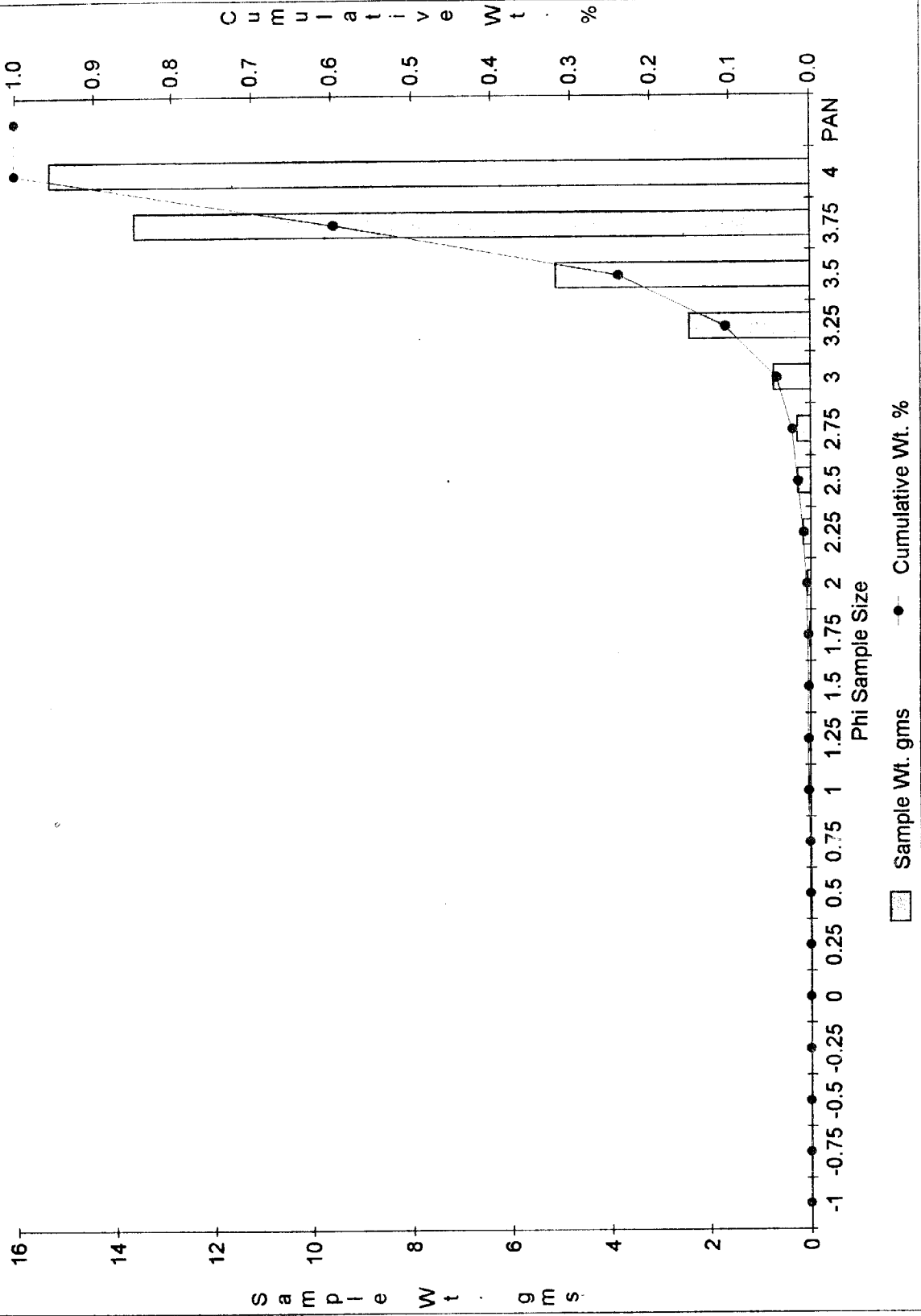
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum. Digest Wt. %
-1	0.0579	0	0.0579	0.0579	0	0
-0.75	0.0352	0	0.0352	0.0931	0	0
-0.5	0.0362	0	0.0362	0.1293	0	0
-0.25	0.0176	0	0.0176	0.1469	0	0
0	0.0125	0.0029	0.0096	0.1594	7.6449E-05	7.64488E-05
0.25	0.0206	0.0012	0.0194	0.18	3.1634E-05	0.000108083
0.5	0.0205	0.0012	0.0193	0.2005	3.1634E-05	0.000139717
0.75	0.0268	0.0074	0.0194	0.2273	0.00019508	0.000334793
1	0.0661	0.0382	0.0279	0.2934	0.00100701	0.001341808
1.25	0.0387	0.0077	0.031	0.3321	0.00020298	0.001544792
1.5	0.0298	0.0063	0.0235	0.3619	0.00016608	0.001710871
1.75	0.0649	0.0206	0.0443	0.4268	0.00054305	0.002253921
2	0.1623	0.0709	0.0914	0.5891	0.00186904	0.004122961
2.25	0.2594	0.1492	0.1102	0.8485	0.00393316	0.008056119
2.5	0.4571	0.2551	0.202	1.3056	0.00672486	0.014780974
2.75	0.6076	0.2607	0.3469	1.9132	0.00687248	0.021653455
3	1.0788	0.7363	0.3425	2.992	0.01941008	0.041063534
3.25	3.3105	2.4124	0.8981	6.3025	0.06359483	0.104658366
3.5	5.8756	5.091	0.7846	12.1781	0.13420713	0.2388655
3.75	15.7153	13.5716	2.1437	27.8934	0.3577697	0.5966352
4	17.0919	15.3012	1.7907	44.9853	0.4033648	1
PAN	0	0	0	44.9853	0	1

Total Wt. 44.9853 gms
 Digest Wt. 37.9339 gms
 Mean Grain Size 3.68 phi 0.07802066 mm
 Sample % Silica 84.325102

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-1 STATION 4



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.8556	0	0.8556	0.8556	0	0
-0.75	0.2315	0	0.2315	1.0871	0	0
-0.5	0.219	0	0.219	1.3061	0	0
-0.25	0.143	0.0046	0.1384	1.4491	0.00016753	0.000167526
0	0.1088	0.0123	0.0965	1.5579	0.00044795	0.000615477
0.25	0.1127	0.0352	0.0775	1.6706	0.00128194	0.001897416
0.5	0.102	0.0337	0.0683	1.7726	0.00122731	0.003124727
0.75	0.1187	0.0551	0.0636	1.8913	0.00200667	0.005131399
1	0.1967	0.1335	0.0632	2.088	0.0048619	0.009993299
1.25	0.2184	0.1595	0.0589	2.3064	0.00580879	0.015802086
1.5	0.1738	0.1396	0.0342	2.4802	0.00508405	0.02088614
1.75	0.2918	0.2248	0.067	2.772	0.00818693	0.029073071
2	0.3248	0.2471	0.0777	3.0968	0.00899907	0.038072138
2.25	0.3888	0.3011	0.0877	3.4856	0.01096568	0.049037817
2.5	0.5286	0.3407	0.1879	4.0142	0.01240786	0.061445678
2.75	0.5938	0.3486	0.2452	4.608	0.01269557	0.074141246
3	1.303	0.9714	0.3316	5.911	0.03537715	0.109518399
3.25	3.4988	2.8669	0.6319	9.4098	0.10440885	0.21392725
3.5	5.0458	4.5544	0.4914	14.4556	0.16586545	0.379792705
3.75	10.2293	9.2271	1.0022	24.6849	0.33603924	0.715831949
4	8.4443	7.8028	0.6415	33.1292	0.28416805	1
PAN	0	0	0	33.1292	0	1

Total Wt. 33.1292 gms

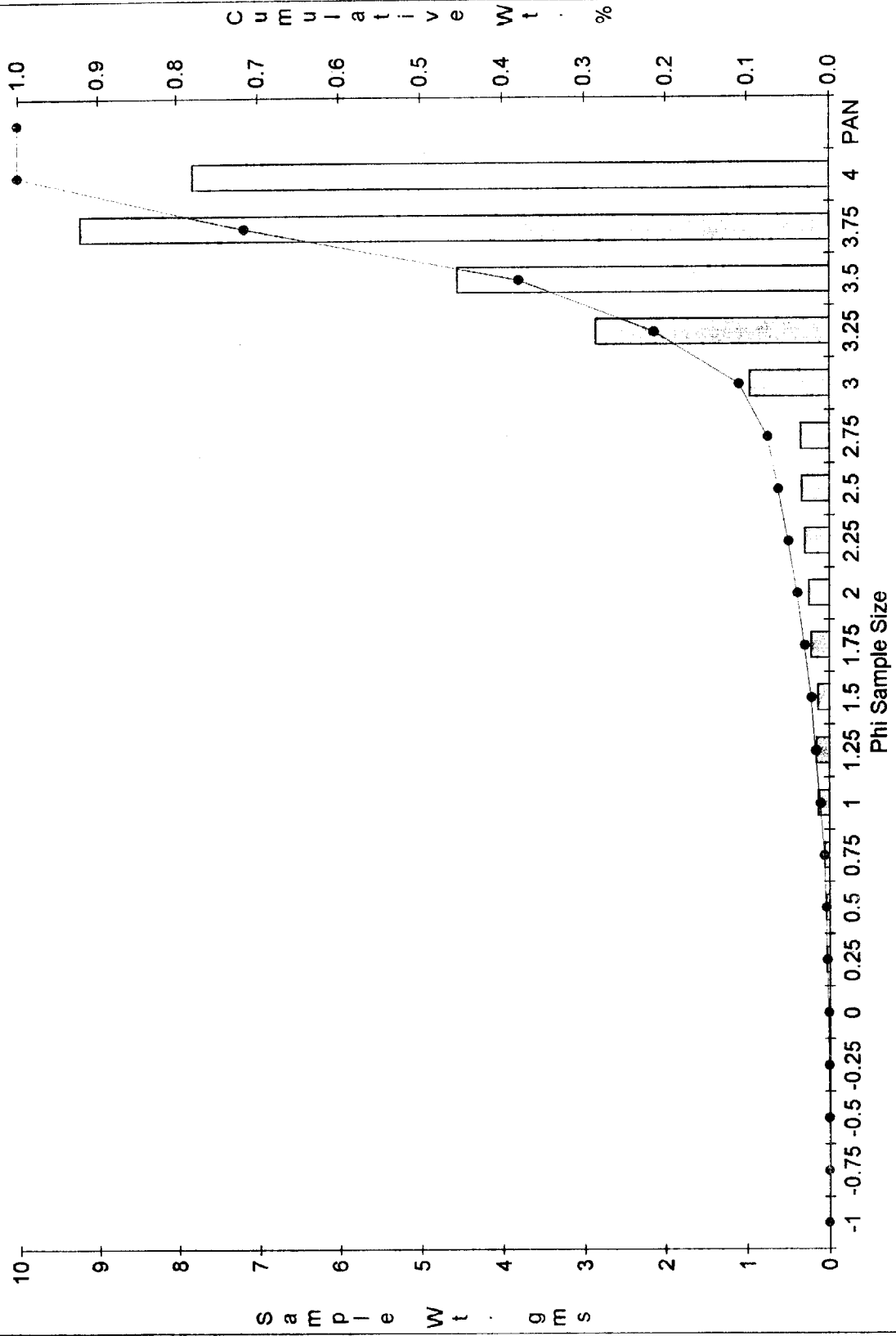
Digest Wt. 27.4584 gms

Mean Grain Size 3.59 phi 0.08304286 mm

Sample % Silica 82.882774

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGST-1 STATION 5



Sample Wt. gms Cumulative Wt. %

GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum.Digest Wt. %
-1	0.1821	0	0.1821	0.1821	0	0
-0.75	0.103	0	0.103	0.2851	0	0
-0.5	0.052	0	0.052	0.3371	0	0
-0.25	0.086	0	0.086	0.4231	0	0
0	0.0717	0	0.0717	0.4948	0	0
0.25	0.0799	0.0067	0.0732	0.5747	0.00016101	0.000161014
0.5	0.0925	0.0187	0.0738	0.6672	0.0004494	0.000610413
0.75	0.1185	0.0389	0.0796	0.7857	0.00093484	0.001545257
1	0.2263	0.1431	0.0832	1.012	0.00343898	0.004984235
1.25	0.3515	0.219	0.1325	1.3635	0.00526301	0.010247241
1.5	0.3423	0.2636	0.0787	1.7058	0.00633483	0.016582074
1.75	0.5816	0.5389	0.0427	2.2874	0.01295084	0.029532914
2	0.7633	0.65	0.1133	3.0507	0.01562079	0.045153709
2.25	0.877	0.7461	0.1309	3.9277	0.01793027	0.063083977
2.5	1.0261	0.8872	0.1389	4.9538	0.02132118	0.08440516
2.75	1.4296	1.1139	0.3157	6.3834	0.02676924	0.111174395
3	2.4891	2.2254	0.2637	8.8725	0.05348079	0.164655189
3.25	5.5862	4.9523	0.6339	14.4587	0.11901363	0.28366882
3.5	7.2545	7.0016	0.2529	21.7132	0.16826239	0.451931211
3.75	13.7361	12.2685	1.4676	35.4493	0.29483649	0.746767697
4	11.0037	10.5373	0.4664	46.453	0.2532323	1
PAN	0	0	0	46.453	0	1

Total Wt. 46.453 gms

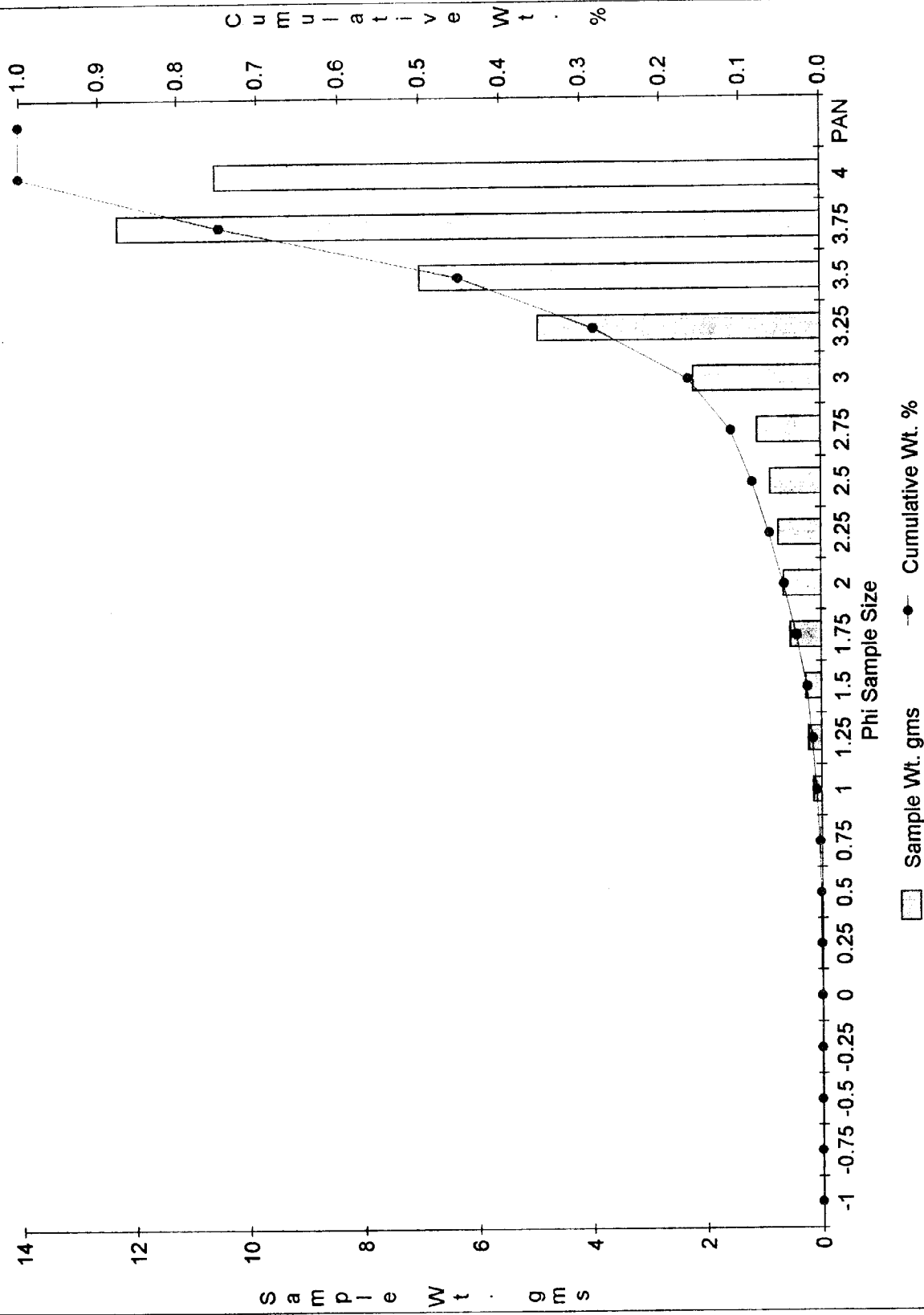
Digest Wt. 41.6112 gms

Mean Grain Size 3.54 phi 0.08597136 mm

Sample % Silica 89.576992

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-1 STATION 6



GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-1 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1						
-0.75						
-0.5						
-0.25						
0						
0.25						
0.5						
0.75						
1						
1.25						
1.5						
1.75						
2						
2.25						
2.5						
2.75						
3						
3.25						
3.5						
3.75						
4						
PAN						
	Total Wt.			6.4008 gms		
	Digest Wt.			5.755 gms		
	Sample % Silica			89.910636		Sand-Sized Grain Fraction

Due to insufficient sand-sized grains,
 no granulometrics were carried out
 on this sample.

Total Wt. 6.4008 gms
 Digest Wt. 5.755 gms

Sample % Silica 89.910636 Sand-Sized Grain Fraction

GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-1 STATION 8

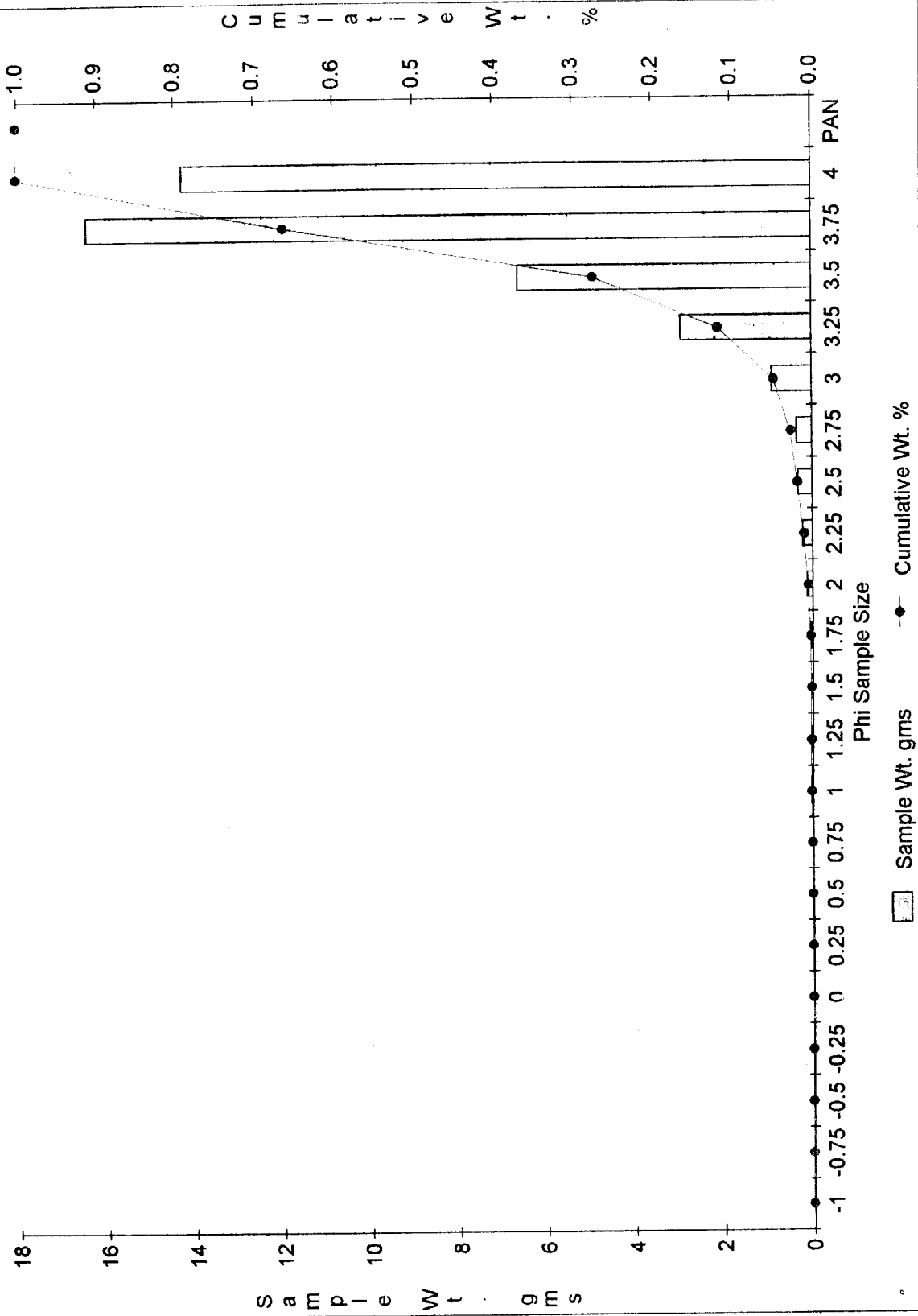
Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	1.4521	0	1.4521	1.4521	0	0
-0.75	0.176	0	0.176	1.6281	0	0
-0.5	0.18	0	0.18	1.8081	0	0
-0.25	0.1589	0	0.1589	1.967	0	0
0	0.1003	0	0.1003	2.0673	0	0
0.25	0.1129	0	0.1129	2.1802	0	0
0.5	0.0811	0.0011	0.08	2.2613	2.6074E-05	2.6074E-05
0.75	0.0332	0	0.0332	2.2945	0	2.6074E-05
1	0.1164	0.0316	0.0848	2.4109	0.00074903	0.000775107
1.25	0.0834	0.0033	0.0801	2.4943	7.8222E-05	0.000853329
1.5	0.0685	0.0045	0.064	2.5628	0.00010667	0.000959995
1.75	0.1431	0.0342	0.1089	2.7059	0.00081066	0.001770658
2	0.2657	0.121	0.1447	2.9716	0.00286813	0.004638793
2.25	0.4075	0.2175	0.19	3.3791	0.00515553	0.009794324
2.5	0.5612	0.3174	0.2438	3.9403	0.00752352	0.017317844
2.75	0.5676	0.3386	0.229	4.5079	0.00802604	0.02534388
3	1.1657	0.8951	0.2706	5.6736	0.02121708	0.046560964
3.25	3.6121	2.9436	0.6685	9.2857	0.06977389	0.116334856
3.5	7.4217	6.6374	0.7843	16.7074	0.15733022	0.273665073
3.75	18.0529	16.4131	1.6398	34.7603	0.38904941	0.662714488
4	15.6599	14.2293	1.4306	50.4202	0.33728551	1
PAN	0	0	0	50.4202	0	1

Total Wt. 50.4202 gms
 Digest Wt. 42.1877 gms
 Mean Grain Size 3.65 phi 0.07966004 mm
 Sample % Silica 83.672219

Sand-Sized Grain Fraction

Cum Digested Wt. %

FGS T-1 STATION 8



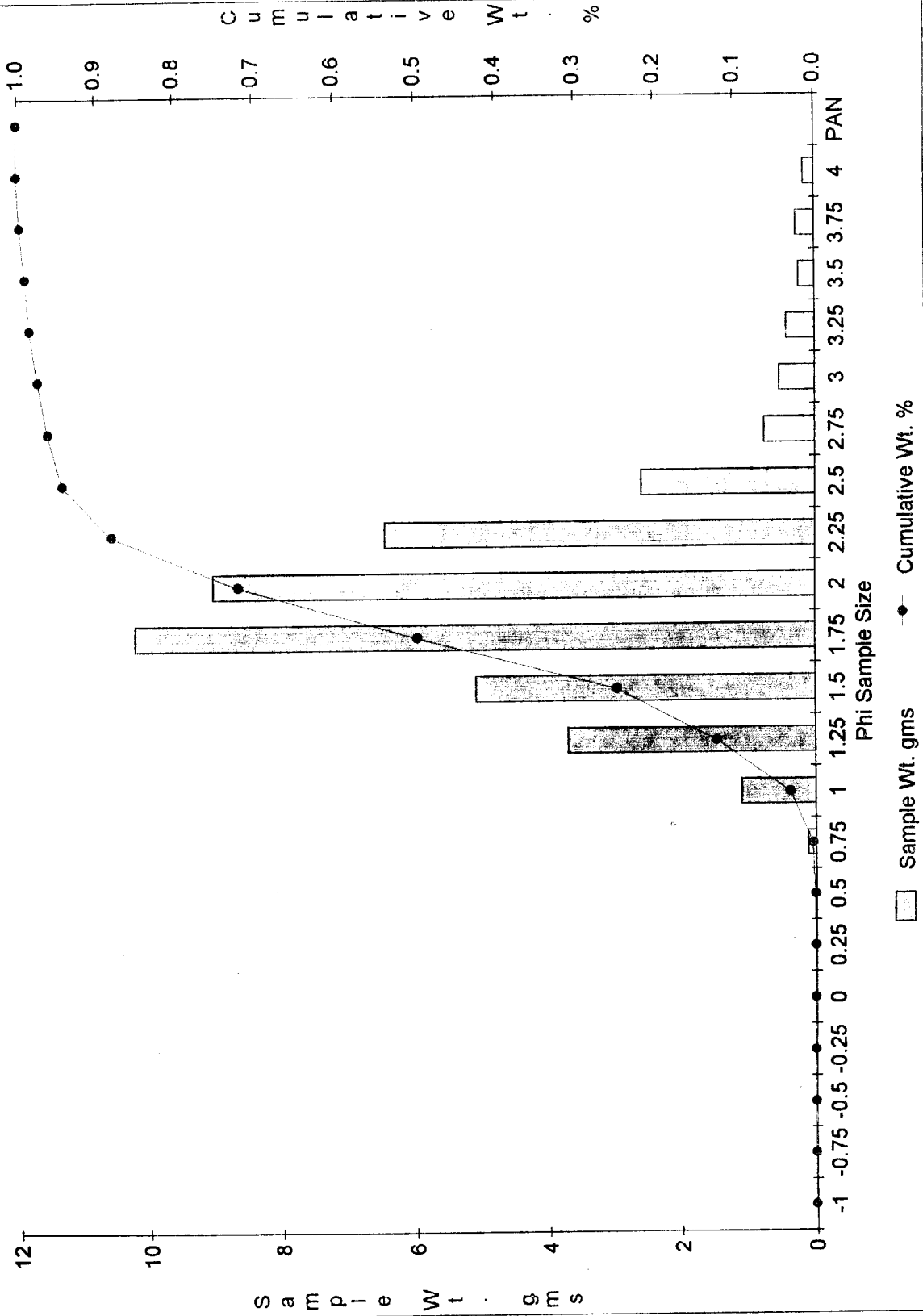
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0	0	0	0	0	0
-0.75	0.0229	0	0.0229	0.0229	0	0
-0.5	0.0187	0	0.0187	0.0416	0	0
-0.25	0.0255	0	0.0255	0.0671	0	0
0	0.0196	0	0.0196	0.0867	0	0
0.25	0.0457	0	0.0457	0.1324	0	0
0.5	0.1086	0.0064	0.1022	0.241	0.00015736	0.000157355
0.75	0.416	0.117	0.299	0.657	0.00287665	0.003034006
1	2.112	1.0975	1.0145	2.769	0.02698397	0.030017973
1.25	7.2976	3.7047	3.5929	10.0666	0.09108656	0.121104536
1.5	7.9881	5.1051	2.883	18.0547	0.12551786	0.246622394
1.75	15.0721	10.1985	4.8736	33.1268	0.25074805	0.497370446
2	13.0089	9.0103	3.9986	46.1357	0.22153407	0.718904512
2.25	9.3098	6.4561	2.8537	55.4455	0.15873457	0.877639081
2.5	4.0698	2.6041	1.4657	59.5153	0.06402638	0.941665458
2.75	1.1955	0.753	0.4425	60.7108	0.01851383	0.960179287
3	0.5898	0.5283	0.0615	61.3006	0.01298918	0.973168471
3.25	0.4706	0.4228	0.0478	61.7712	0.01039528	0.983563752
3.5	0.2321	0.2321	0	62.0033	0.00570659	0.989270339
3.75	0.2775	0.2775	0	62.2808	0.00682283	0.996093164
4	0.1589	0.1589	0	62.4397	0.00390684	1
PAN	0	0	0	62.4397	0	1

Total Wt. 62.4397 gms
 Digest Wt. 40.6723 gms
 Mean Grain Size 1.75 phi 0.29730178 mm
 Sample % Silica 65.138526

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-2 STATION 1



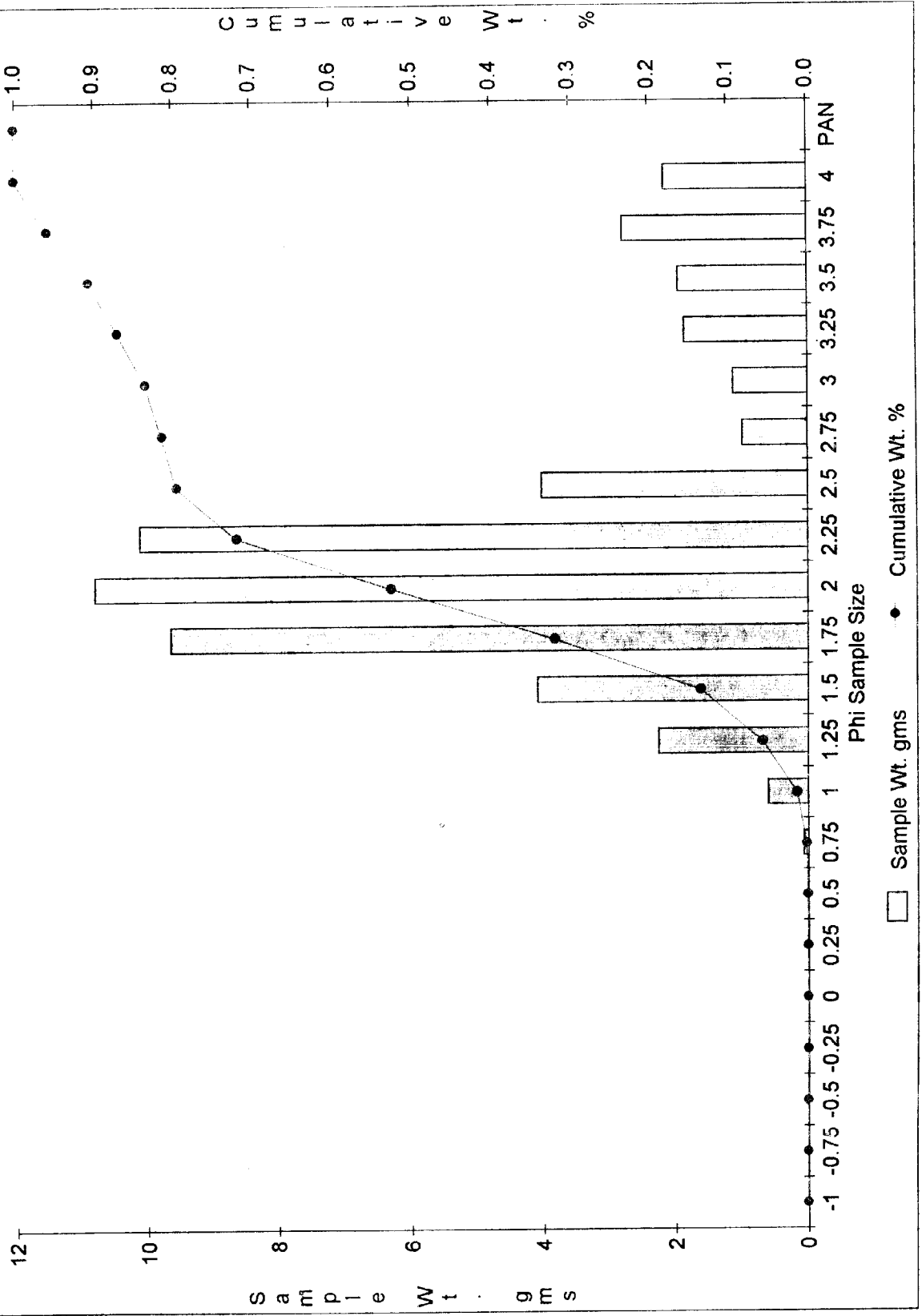
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.0471	0	0.0471	0.0471	0	0
-0.75	0.0172	0	0.0172	0.0643	0	0
-0.5	0.0146	0	0.0146	0.0789	0	0
-0.25	0.0171	0	0.0171	0.096	0	0
0	0.0203	0	0.0203	0.1163	0	0
0.25	0.0379	0.0018	0.0361	0.1542	3.4401E-05	3.44014E-05
0.5	0.0682	0.005	0.0632	0.2224	9.556E-05	0.000129961
0.75	0.217	0.0669	0.1501	0.4394	0.00127859	0.001408548
1	1.2486	0.5981	0.6505	1.688	0.01143083	0.01283938
1.25	4.0346	2.2456	1.789	5.7226	0.0429177	0.05575708
1.5	5.9789	4.0804	1.8985	11.7015	0.07798423	0.133741309
1.75	13.2517	9.619	3.6327	24.9532	0.18383744	0.317578751
2	14.733	10.7799	3.9531	39.6862	0.20602446	0.523603206
2.25	13.3392	10.0872	3.252	53.0254	0.19278564	0.716388843
2.5	5.838	4.0114	1.8266	58.8634	0.07666551	0.79305435
2.75	1.5726	0.9694	0.6032	60.436	0.01852708	0.811581434
3	1.3393	1.1087	0.2306	61.7753	0.02118937	0.832770806
3.25	2.1943	1.8573	0.337	63.9696	0.03549655	0.868267353
3.5	2.1103	1.9506	0.1597	66.0799	0.03727969	0.90554704
3.75	2.9571	2.7821	0.175	69.037	0.05317124	0.958718279
4	2.305	2.16	0.145	71.342	0.04128172	1
PAN	0	0	0	71.342	0	1

Total Wt. 71.342 gms
 Digest Wt. 52.3234 gms
 Mean Grain Size 1.97 phi 0.25525303 mm
 Sample % Silica 73.34165

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-2 STATION 2

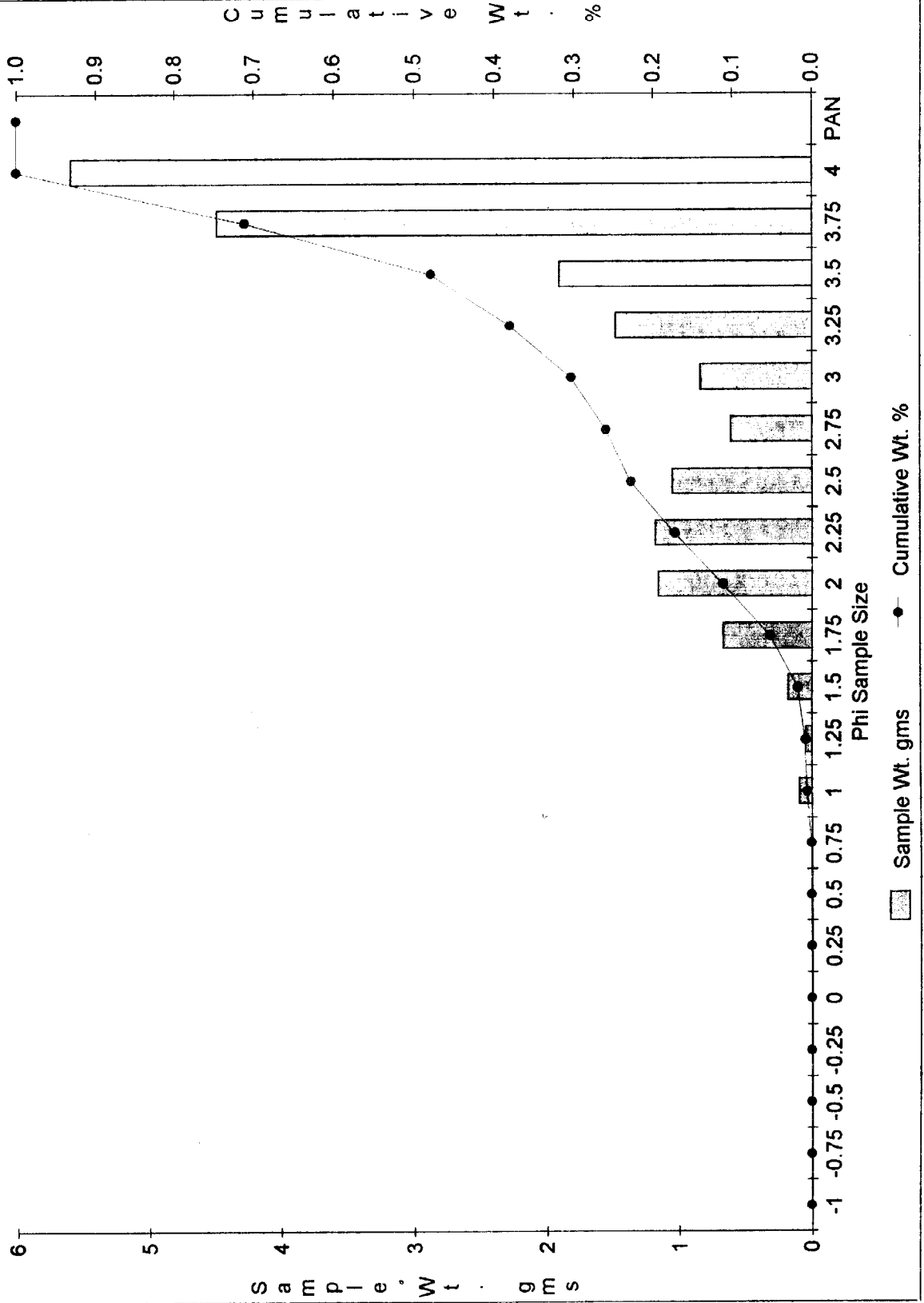


GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-2 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum.Digest Wt.%
-1	0.9516	0	0.9516	0.9516	0	0
-0.75	0.083	0	0.083	1.0346	0	0
-0.5	0.039	0	0.039	1.0736	0	0
-0.25	0.043	0	0.043	1.1166	0	0
0	0.0436	0	0.0436	1.1602	0	0
0.25	0.0578	0	0.0578	1.218	0	0
0.5	0.0456	0	0.0456	1.2636	0	0
0.75	0.0422	0	0.0422	1.3058	0	0
1	0.0967	0.0967	0	1.4025	0.00500106	0.00500106
1.25	0.1274	0.0446	0.0828	1.5299	0.00230659	0.007307651
1.5	0.2322	0.1783	0.0539	1.7621	0.00922119	0.01652884
1.75	0.7424	0.6707	0.0717	2.5045	0.03468677	0.051215614
2	1.343	1.1624	0.1806	3.8475	0.06011616	0.111331771
2.25	1.8434	1.1842	0.6592	5.6909	0.06124359	0.172575365
2.5	1.574	1.0594	0.5146	7.2649	0.05478928	0.227364643
2.75	0.9141	0.6156	0.2985	8.179	0.03183715	0.259201796
3	1.1045	0.8484	0.2561	9.2835	0.04387693	0.303078729
3.25	1.9039	1.4895	0.4144	11.1874	0.07703288	0.380111606
3.5	2.1372	1.9116	0.2256	13.3246	0.09886274	0.478974343
3.75	5.0134	4.481	0.5324	18.338	0.2317451	0.710719439
4	6.17	5.5935	0.5765	24.508	0.28928056	1
PAN	0	0	0	24.508	0	1

Total Wt. 24.508 gms
 Digest Wt. 19.3359 gms
 Mean Grain Size 3.52 phi 0.08717148 mm
 Sample % Silica 78.896279 Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-2 STATION 3



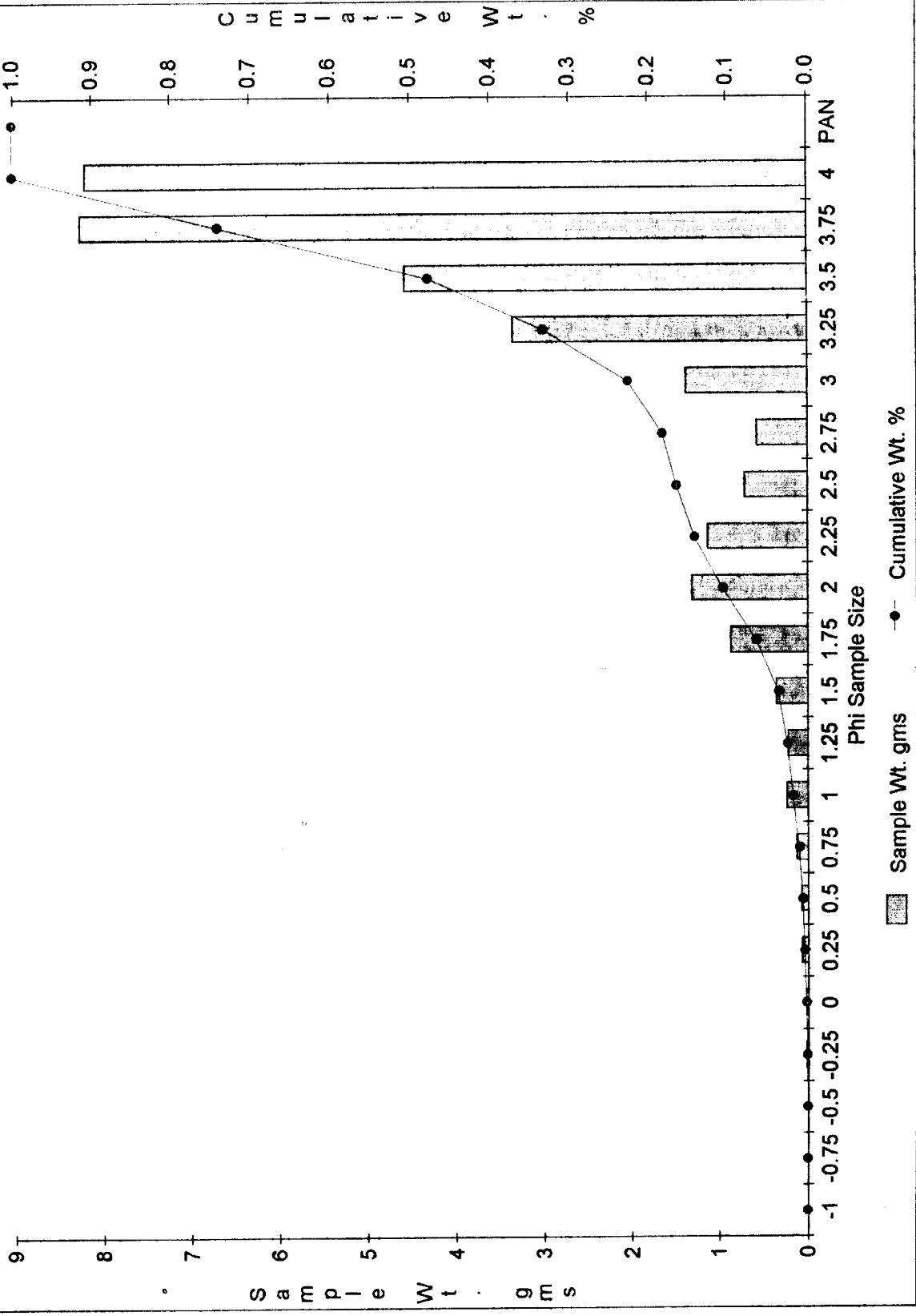
GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-2 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.3818	0	0.3818	0.3818	0	0
-0.75	0.1223	0	0.1223	0.5041	0	0
-0.5	0.1333	0	0.1333	0.6374	0	0
-0.25	0.1138	0.0188	0.095	0.7512	0.00059956	0.000599564
0	0.1344	0.0237	0.1107	0.8856	0.00075583	0.001355398
0.25	0.181	0.0669	0.1141	1.0666	0.00213356	0.003488954
0.5	0.2022	0.0729	0.1293	1.2688	0.00232491	0.005813861
0.75	0.2439	0.1248	0.1191	1.5127	0.00398009	0.009793948
1	0.3684	0.2356	0.1328	1.8811	0.00751369	0.017307637
1.25	0.4895	0.2166	0.2729	2.3706	0.00690775	0.024215384
1.5	0.4803	0.3526	0.1277	2.8509	0.01124502	0.035460405
1.75	1.0268	0.8629	0.1639	3.8777	0.02751937	0.062979771
2	1.5836	1.3087	0.2749	5.4613	0.0417367	0.104716467
2.25	1.3882	1.1232	0.265	6.8495	0.03582078	0.140537248
2.5	1.015	0.7094	0.3056	7.8645	0.02262399	0.163161235
2.75	0.8546	0.5669	0.2877	8.7191	0.01807942	0.181240652
3	1.6506	1.3724	0.2782	10.3697	0.0437682	0.22500885
3.25	4.012	3.3374	0.6746	14.3817	0.10643543	0.33144428
3.5	4.9981	4.5575	0.4406	19.3798	0.14534652	0.4767908
3.75	9.1788	8.232	0.9468	28.5586	0.26253265	0.739323449
4	9.1357	8.1738	0.9619	37.6943	0.26067655	1
PAN	0	0	0	37.6943	0	1

Total Wt. 37.6943 gms
 Digest Wt. 31.3561 gms
 Mean Grain Size 3.52 phi 0.08717148 mm
 Sample % Silica 83.185256

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-2 STATION 4



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	7.4895	0	7.4895	7.4895	0	0
-0.75	0.9633	0	0.9633	8.4528	0	0
-0.5	0.8417	0.0113	0.8304	9.2945	0.0003762	0.000376201
-0.25	0.7571	0.046	0.7111	10.0516	0.00153144	0.001907641
0	0.6704	0.0725	0.5979	10.722	0.00241368	0.004321323
0.25	0.7206	0.162	0.5586	11.4426	0.00539333	0.009714653
0.5	0.6872	0.2482	0.439	12.1298	0.00826311	0.017977767
0.75	0.7551	0.3898	0.3653	12.8849	0.01297728	0.030955052
1	1.1576	0.7693	0.3883	14.0425	0.02561166	0.056566712
1.25	1.7087	1.1898	0.5189	15.7512	0.03961101	0.096177727
1.5	1.8881	1.193	0.6951	17.6393	0.03971755	0.135895276
1.75	2.5926	2.0096	0.583	20.2319	0.06690393	0.202799205
2	2.0503	1.8887	0.1616	22.2822	0.06287891	0.265678111
2.25	1.594	1.3646	0.2294	23.8762	0.04543048	0.311108596
2.5	1.0917	0.8522	0.2395	24.9679	0.02837158	0.339480176
2.75	0.7898	0.5219	0.2679	25.7577	0.01737518	0.356855356
3	1.2385	1.0261	0.2124	26.9962	0.03416109	0.391016443
3.25	3.0803	2.5665	0.5138	30.0765	0.08544433	0.476460777
3.5	4.0685	3.5399	0.5286	34.145	0.11785092	0.594311701
3.75	7.0925	6.4172	0.6753	41.2375	0.21364246	0.807954163
4	6.3256	5.7685	0.5571	47.5631	0.19204584	1
PAN	0	0	0	47.5631	0	1

Total Wt. 47.5631 gms

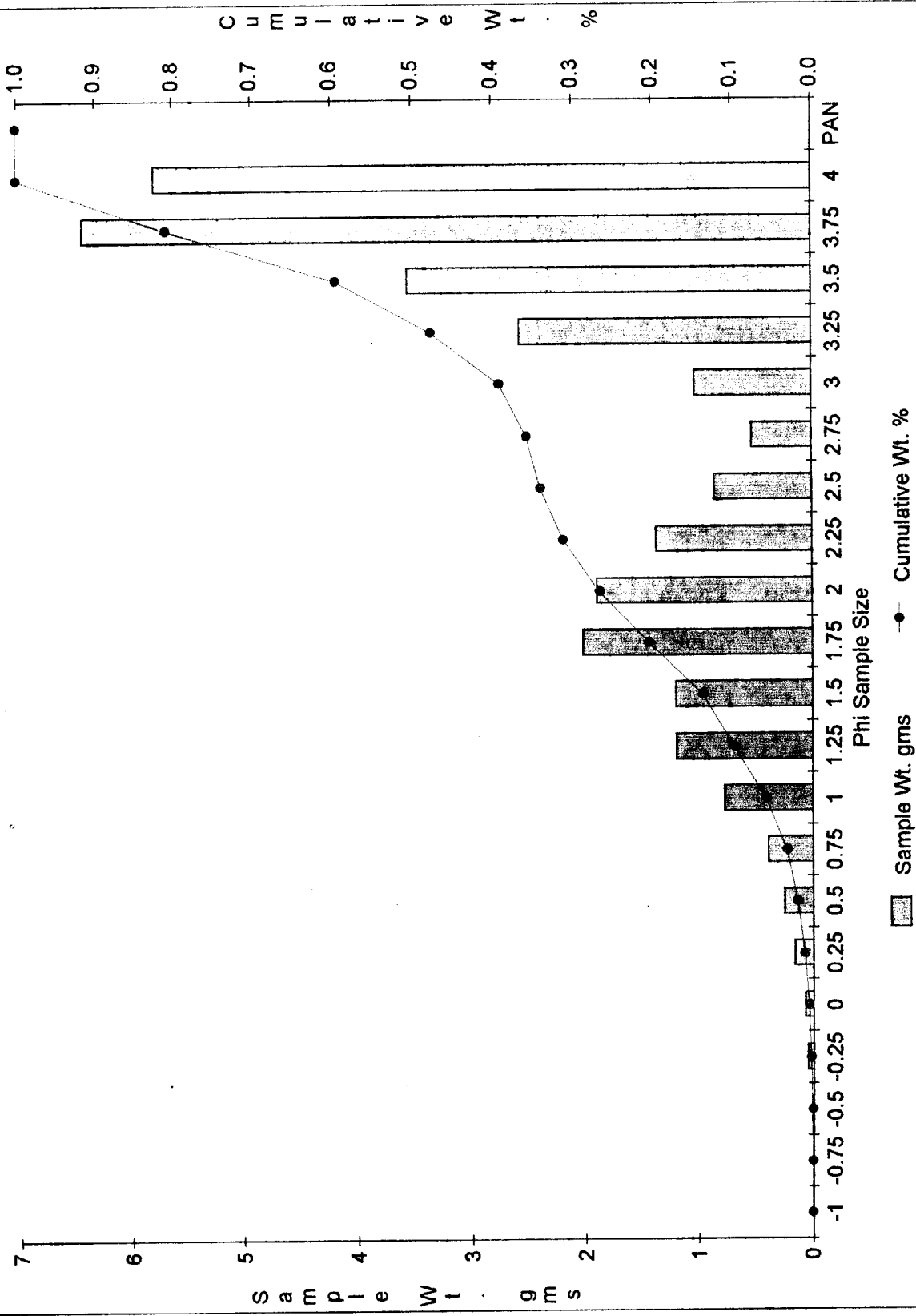
Digest Wt. 30.0371 gms

Mean Grain Size 3.3 phi 0.10153155 mm

Sample % Silica 63.152107

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-2 STATION 5



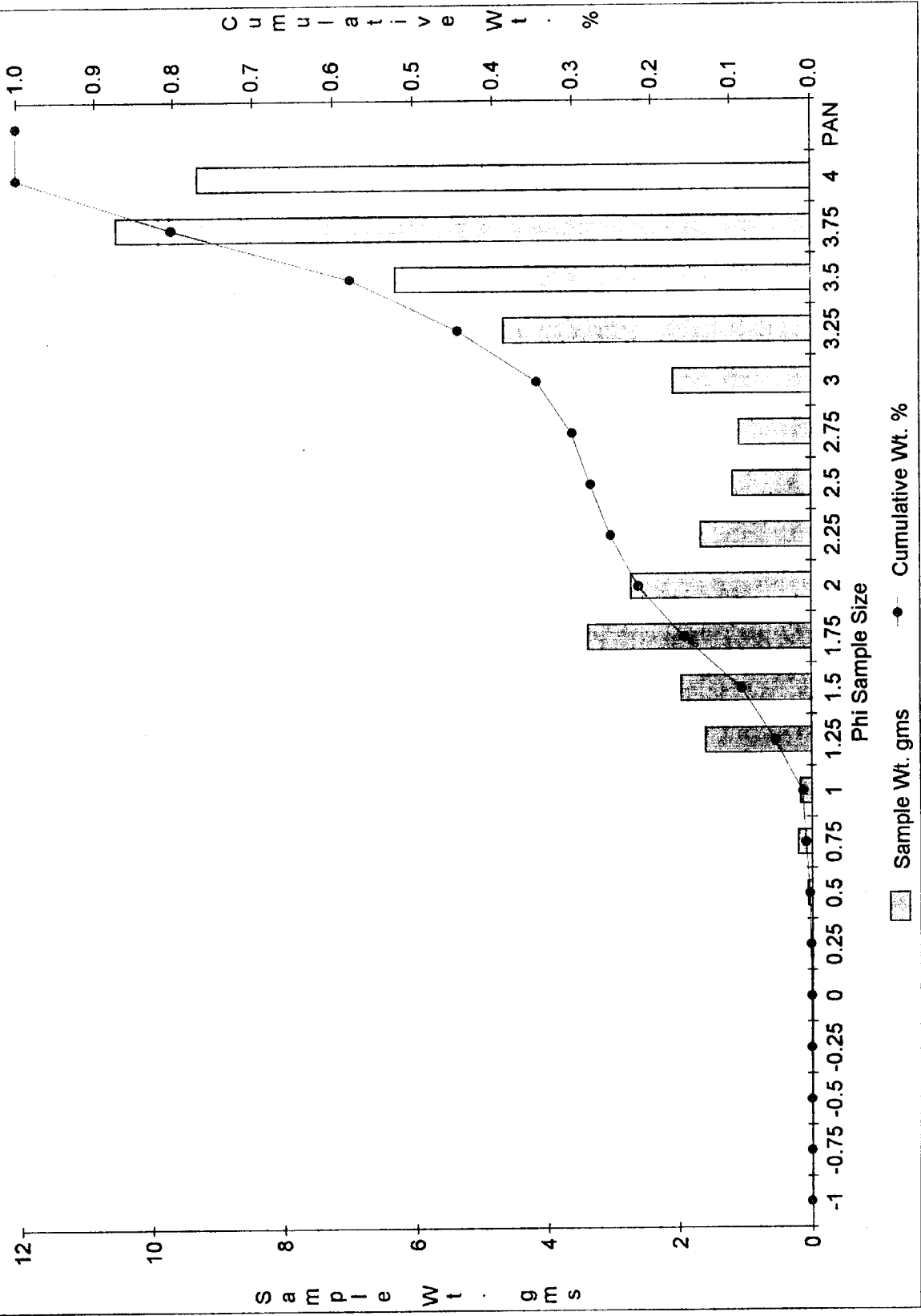
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	2.7106	0	2.7106	2.7106	0	0
-0.75	0.1851	0	0.1851	2.8957	0	0
-0.5	0.196	0	0.196	3.0917	0	0
-0.25	0.1946	0.003	0.1916	3.2863	6.4126E-05	6.41263E-05
0	0.1802	0.006	0.1742	3.4665	0.00012825	0.000192379
0.25	0.209	0.0238	0.1852	3.6755	0.00050874	0.000701114
0.5	0.2625	0.0635	0.199	3.938	0.00135734	0.002058453
0.75	0.4278	0.2081	0.2197	4.3658	0.00444823	0.006506679
1	0.91	0.17	0.74	5.2758	0.00363382	0.010140501
1.25	1.8307	1.5836	0.2471	7.1065	0.03385012	0.04399062
1.5	2.024	1.9583	0.0657	9.1305	0.04185949	0.085850111
1.75	3.8849	3.3829	0.502	13.0154	0.07231092	0.15816103
2	3.2495	2.721	0.5285	16.2649	0.05816253	0.216323556
2.25	2.0919	1.6661	0.4258	18.3568	0.03561359	0.251937148
2.5	1.5557	1.1852	0.3705	19.9125	0.02533415	0.277271299
2.75	1.3599	1.0827	0.2772	21.2724	0.02314317	0.300414469
3	2.4491	2.0819	0.3672	23.7215	0.04450149	0.344915963
3.25	5.4924	4.6506	0.8418	29.2139	0.09940854	0.444324505
3.5	6.8508	6.2772	0.5736	36.0647	0.13417781	0.57850231
3.75	11.6265	10.4775	1.149	47.6912	0.22396099	0.802463304
4	9.9335	9.2413	0.6922	57.6247	0.1975367	1
PAN	0	0	0	57.6247	0	1

Total Wt. 57.6247 gms
 Digest Wt. 46.7827 gms
 Mean Grain Size 3.36 phi 0.09739557 mm
 Sample % Silica 81.185152

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-2 STATION 6

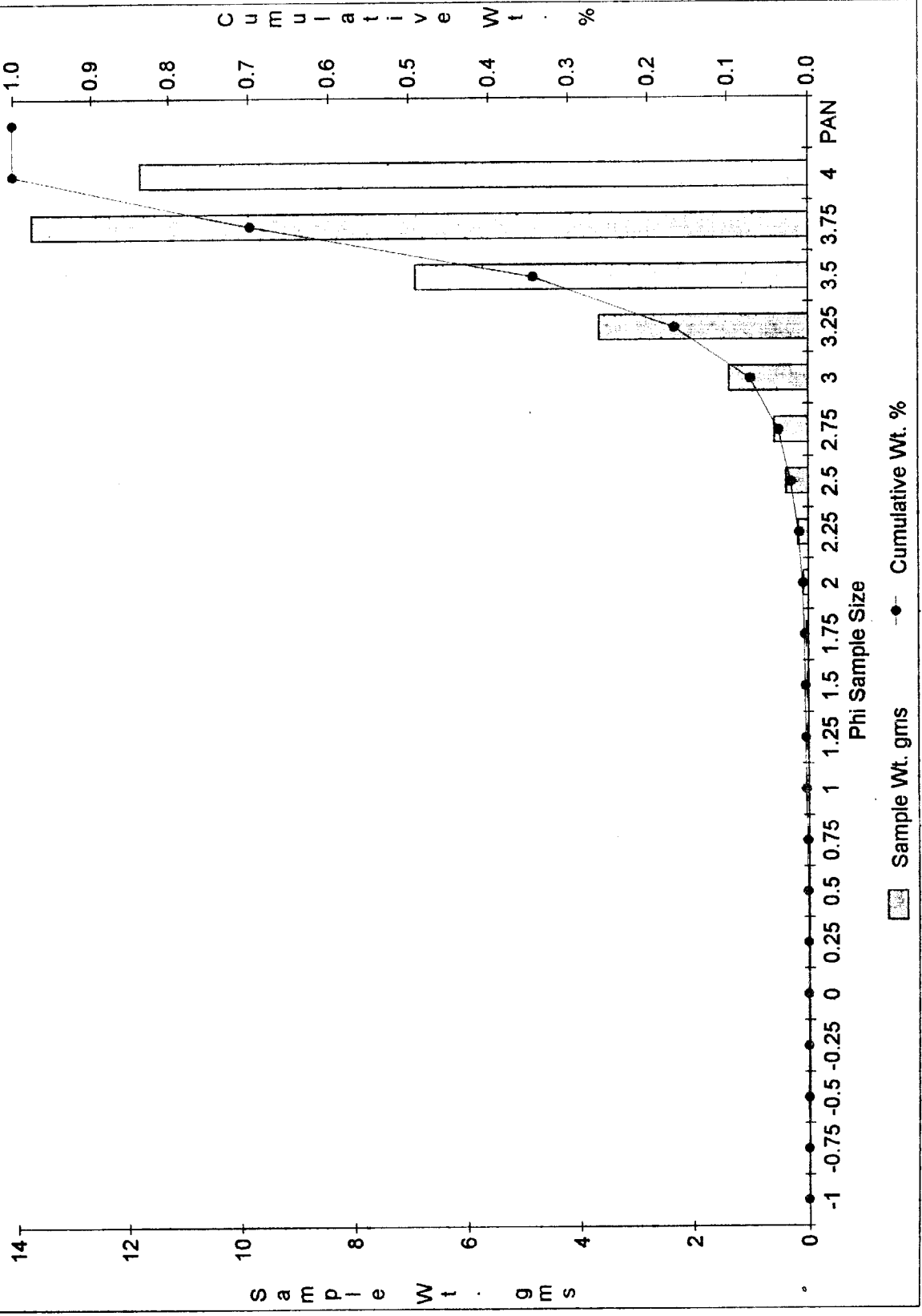


GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	1.1201	0	1.1201	1.1201	0	0
-0.75	0.2096	0	0.2096	1.3297	0	0
-0.5	0.1311	0.0113	0.1198	1.4608	0.00029191	0.000291913
-0.25	0.1263	0.0057	0.1206	1.5871	0.00014725	0.000439161
0	0.0993	0.0035	0.0958	1.6864	9.0415E-05	0.000529576
0.25	0.0989	0	0.0989	1.7853	0	0.000529576
0.5	0.07	0.0061	0.0639	1.8553	0.00015758	0.000687157
0.75	0.0619	0.0088	0.0531	1.9172	0.00022733	0.000914488
1	0.0986	0.0443	0.0543	2.0158	0.0011444	0.002058889
1.25	0.0566	0.0155	0.0411	2.0724	0.00040041	0.0024593
1.5	0.0485	0.0151	0.0334	2.1209	0.00039008	0.002849378
1.75	0.0765	0.0347	0.0418	2.1974	0.0008964	0.003745783
2	0.1351	0.0896	0.0455	2.3325	0.00231464	0.006060418
2.25	0.2764	0.1752	0.1012	2.6089	0.00452594	0.010586357
2.5	0.5323	0.382	0.1503	3.1412	0.0098682	0.020454557
2.75	0.7489	0.5922	0.1567	3.8901	0.01529829	0.035752851
3	1.6175	1.3755	0.242	5.5076	0.03553327	0.071286121
3.25	4.325	3.6653	0.6597	9.8326	0.09468564	0.165971759
3.5	7.0761	6.8949	0.1812	16.9087	0.17811585	0.344087605
3.75	14.797	13.6761	1.1209	31.7057	0.35329448	0.697382085
4	13.1601	11.7144	1.4457	44.8658	0.30261791	1
PAN	0	0	0	44.8658	0	1

Total Wt. 44.8658 gms
 Digest Wt. 38.7102 gms
 Mean Grain Size 3.61 phi 0.08189959 mm
 Sample % Silica 86.279973 Sand-Sized Grain Fraction

Cum Digested Wt. %
FGST-2 STATION 7



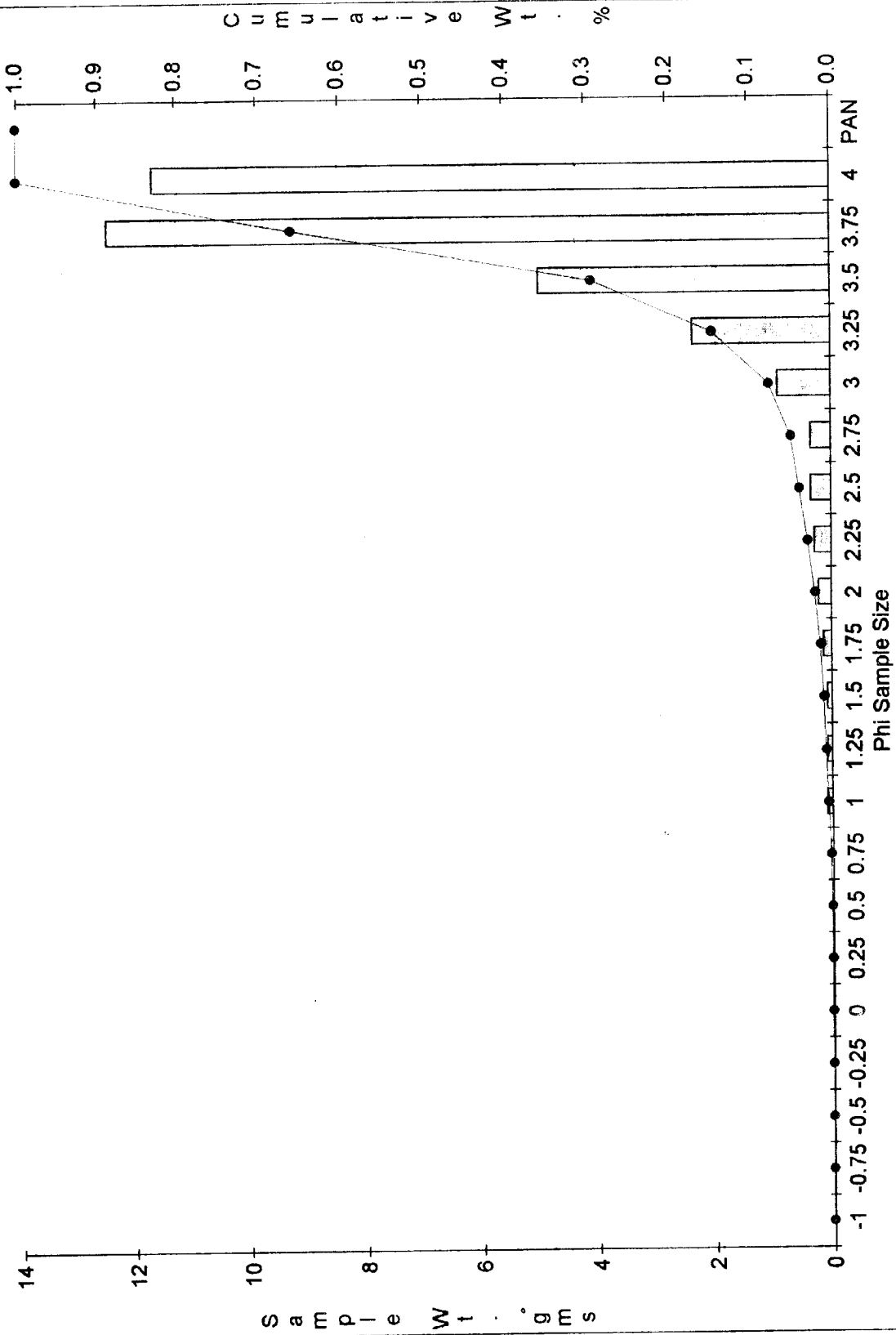
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-2 STATION 8

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	1.1396	0	1.1396	1.1396	0	0
-0.75	0.1984	0	0.1984	1.338	0	0
-0.5	0.2506	0	0.2506	1.5886	0	0
-0.25	0.2644	0	0.2644	1.853	0	0
0	0.2115	0.0051	0.2064	2.0645	0.00015037	0.000150367
0.25	0.1972	0.0018	0.1954	2.2617	5.3071E-05	0.000203438
0.5	0.1354	0.0095	0.1259	2.3971	0.0002801	0.000483533
0.75	0.1391	0.0318	0.1073	2.5362	0.00093758	0.001421116
1	0.2087	0.0842	0.1245	2.7449	0.00248253	0.003903647
1.25	0.1567	0.0813	0.0754	2.9016	0.00239703	0.006300675
1.5	0.1162	0.0763	0.0399	3.0178	0.00224961	0.008550285
1.75	0.1949	0.1386	0.0563	3.2127	0.00408645	0.012636731
2	0.2845	0.2209	0.0636	3.4972	0.00651296	0.019149689
2.25	0.4027	0.2844	0.1183	3.8999	0.00838518	0.027534865
2.5	0.506	0.3451	0.1609	4.4059	0.01017484	0.037709703
2.75	0.5343	0.3478	0.1865	4.9402	0.01025444	0.047964148
3	1.1184	0.9106	0.2078	6.0586	0.02684789	0.074812041
3.25	2.9187	2.3606	0.5581	8.9773	0.06959932	0.144411357
3.5	5.499	4.9923	0.5067	14.4763	0.14719167	0.291603031
3.75	13.6843	12.4154	1.2689	28.1606	0.36605242	0.657655453
4	12.8636	11.6113	1.2523	41.0242	0.34234455	1
PAN	0	0	0	41.0242	0	1

Total Wt. 41.0242 gms
 Digest Wt. 33.917 gms
 Mean Grain Size 3.64 phi 0.08021412 mm
 Sample % Silica 82.675591

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-2 STATION 8



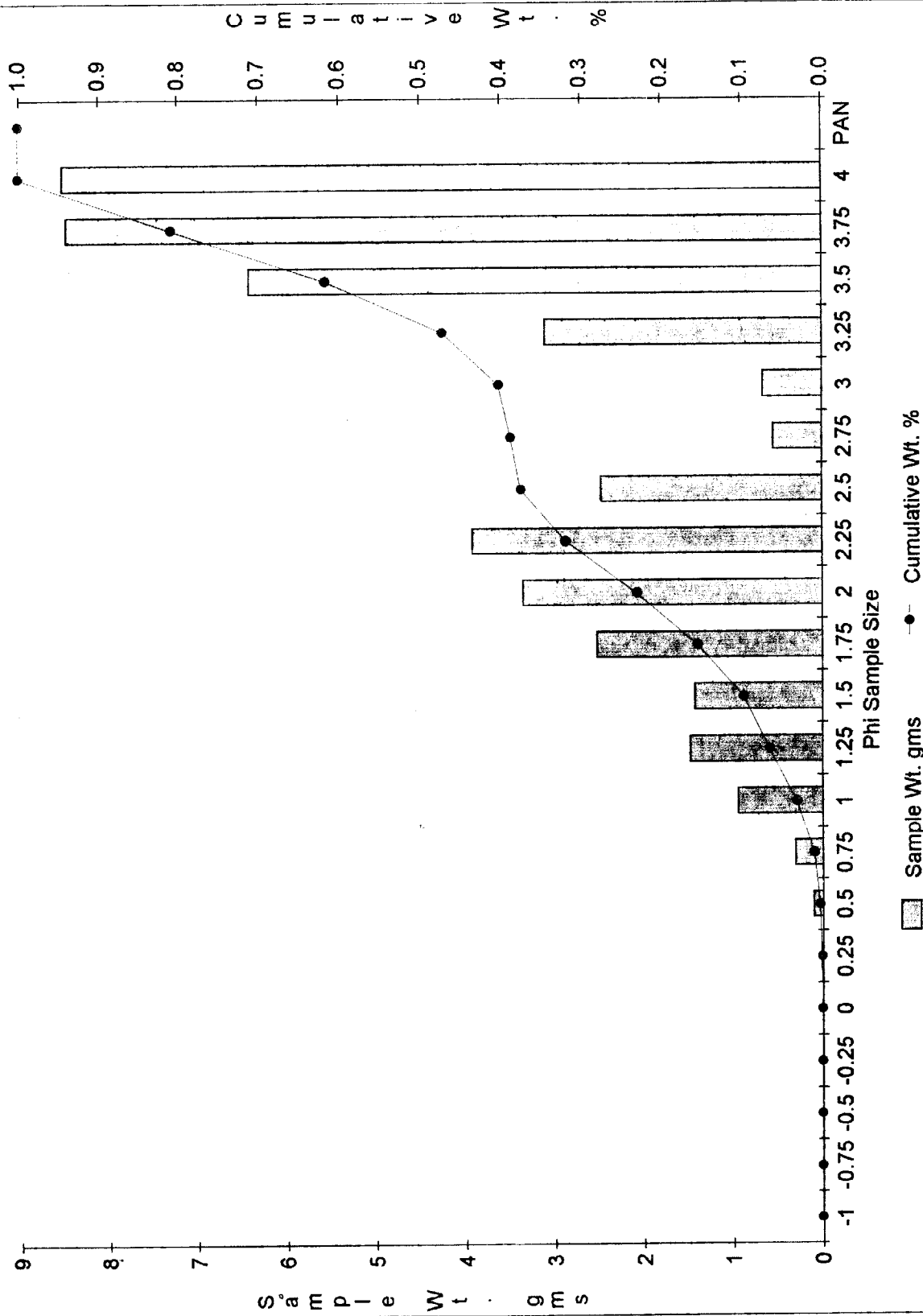
Sample Wt. gms Cumulative Wt. %

GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-3 STATION 1

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.0444	0	0.0444	0.0444	0	0
-0.75	0.0353	0	0.0353	0.0797	0	0
-0.5	0.0515	0	0.0515	0.1312	0	0
-0.25	0.0612	0	0.0612	0.1924	0	0
0	0.0715	0.0032	0.0683	0.2639	7.2333E-05	7.23334E-05
0.25	0.139	0.0165	0.1225	0.4029	0.00037297	0.000445302
0.5	0.2898	0.1015	0.1883	0.6927	0.00229432	0.002739627
0.75	0.5667	0.3042	0.2625	1.2594	0.00687619	0.009615819
1	1.2808	0.9462	0.3346	2.5402	0.02138808	0.031003897
1.25	2.4665	1.4816	0.9849	5.0067	0.03349036	0.064494254
1.5	2.0265	1.4274	0.5991	7.0332	0.03226521	0.096759464
1.75	3.4626	2.5226	0.94	10.4958	0.05702131	0.153780776
2	4.2767	3.3509	0.9258	14.7725	0.07574436	0.229525131
2.25	5.1005	3.9201	1.1804	19.873	0.08861066	0.318135788
2.5	3.6915	2.4762	1.2153	23.5645	0.05597248	0.374108265
2.75	1.2922	0.5479	0.7443	24.8567	0.01238483	0.386493097
3	1.1012	0.6595	0.4417	25.9579	0.01490746	0.401400555
3.25	3.9254	3.1038	0.8216	29.8833	0.07015886	0.471559417
3.5	6.7081	6.4045	0.3036	36.5914	0.14476849	0.616327905
3.75	9.6884	8.4644	1.224	46.2798	0.19133084	0.807658749
4	9.1992	8.5091	0.6901	55.479	0.19234125	1
PAN	0	0	0	55.479	0	1

Total Wt. 55.479 gms
 Digest Wt. 44.2396 gms
 Mean Grain Size 3.3 phi 0.10153155 mm
 Sample % Silica 79.741163 Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-3 STATION 1



GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-3 STATION 2

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum.Digest Wt.%
-1	0.2559	0	0.2559	0.2559	0	0
-0.75	0.0655	0	0.0655	0.3214	0	0
-0.5	0.0974	0	0.0974	0.4188	0	0
-0.25	0.1312	0	0.1312	0.55	0	0
0	0.1305	0.003	0.1275	0.6805	9.2364E-05	9.23642E-05
0.25	0.1166	0	0.1166	0.7971	0	9.23642E-05
0.5	0.1084	0.0184	0.09	0.9055	0.0005665	0.000658865
0.75	0.1358	0.0369	0.0989	1.0413	0.00113608	0.001794945
1	0.2119	0.1155	0.0964	1.2532	0.00355602	0.005350969
1.25	0.3075	0.2123	0.0952	1.5607	0.00653631	0.011887279
1.5	0.4548	0.3973	0.0575	2.0155	0.01223211	0.024119384
1.75	1.549	1.549	0	3.5645	0.04769074	0.071810124
2	2.788	2.5549	0.2331	6.3525	0.07866047	0.150470596
2.25	2.4796	2.0595	0.4201	8.8321	0.06340806	0.213878652
2.5	1.114	0.7906	0.3234	9.9461	0.02434106	0.23821971
2.75	0.4179	0.1933	0.2246	10.364	0.00595134	0.244171046
3	0.6649	0.4666	0.1983	11.0289	0.01436572	0.258536766
3.25	3.0134	2.4874	0.526	14.0423	0.07658228	0.335119042
3.5	5.9517	5.3656	0.5861	19.994	0.16519654	0.500315578
3.75	9.5435	8.585	0.9585	29.5375	0.26431569	0.764631267
4	8.5288	7.6448	0.884	38.0663	0.23536873	1
PAN	0	0	0	38.0663	0	1

Total Wt. 38.0663 gms

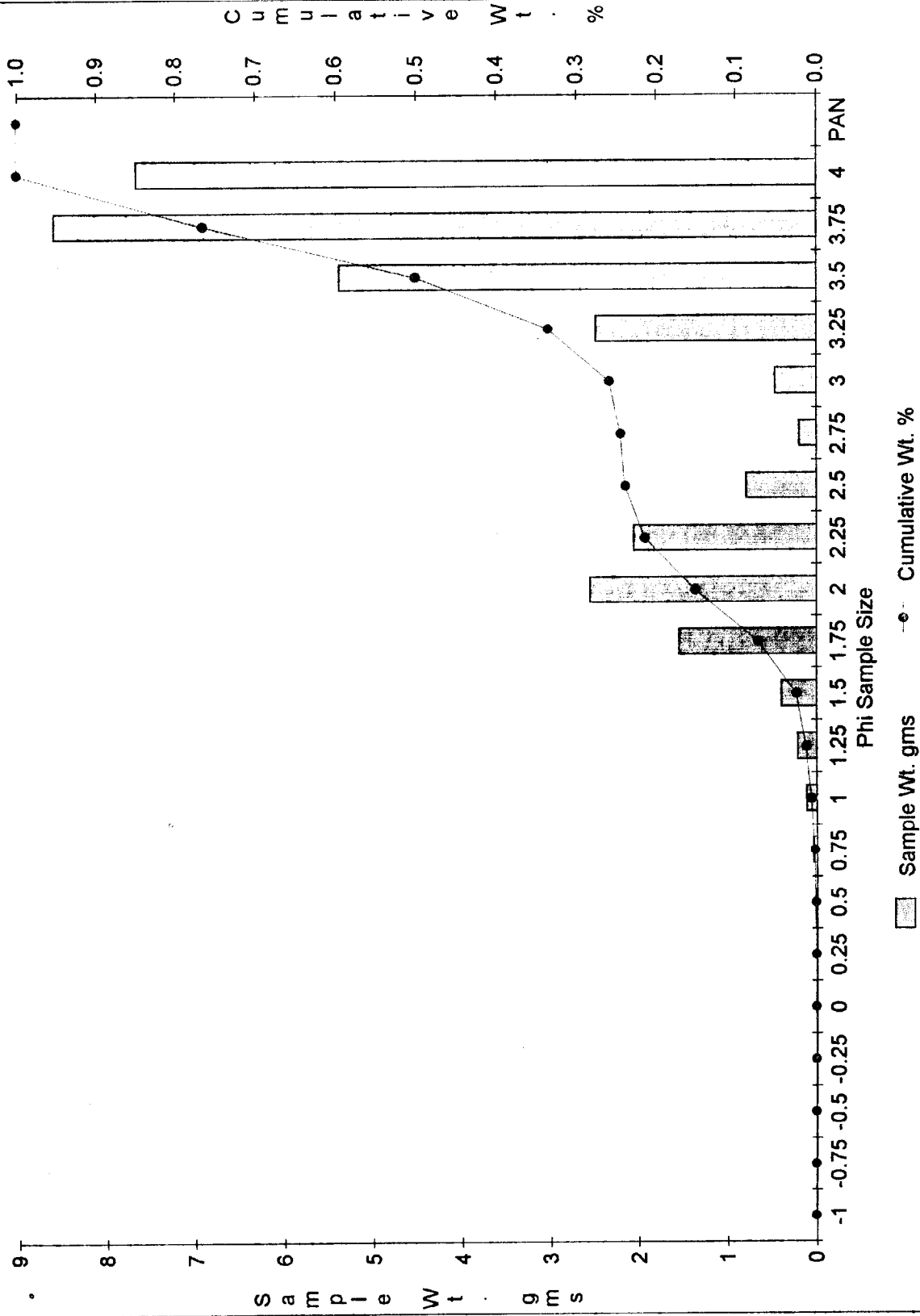
Digest Wt. 32.4801 gms

Mean Grain Size 3.5 phi 0.08838835 mm

Sample % Silica 85.325078

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-3 STATION 2



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-3 STATION 3

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.2335	0	0.2335	0.2335	0	0
-0.75	0.0522	0	0.0522	0.2857	0	0
-0.5	0.0447	0	0.0447	0.3304	0	0
-0.25	0.0449	0	0.0449	0.3753	0	0
0	0.0424	0.003	0.0394	0.4177	8.7573E-05	8.7573E-05
0.25	0.0579	0.0028	0.0551	0.4756	8.1735E-05	0.000169308
0.5	0.0663	0.0049	0.0614	0.5419	0.00014304	0.000312345
0.75	0.0896	0.0211	0.0685	0.6315	0.00061593	0.000928277
1	0.1758	0.1051	0.0707	0.8073	0.00306799	0.003996264
1.25	0.3072	0.2289	0.0783	1.1145	0.00668185	0.01067811
1.5	0.4355	0.4073	0.0282	1.55	0.01188954	0.02256765
1.75	1.1635	1.0911	0.0724	2.7135	0.03185042	0.054418075
2	1.6105	1.4246	0.1859	4.324	0.04158566	0.096003736
2.25	1.7358	1.4684	0.2674	6.0598	0.04286423	0.138867969
2.5	1.5776	1.2373	0.3403	7.6374	0.03611817	0.174986134
2.75	1.0434	0.6715	0.3719	8.6808	0.01960183	0.194587967
3	1.5823	1.1367	0.4456	10.2631	0.03318154	0.227769507
3.25	5.5114	4.4137	1.0977	15.7745	0.12884082	0.356610328
3.5	5.4926	5.4926	0	21.2671	0.16033511	0.516945442
3.75	10.6708	9.4636	1.2072	31.9379	0.27625303	0.79319847
4	7.9181	7.0844	0.8337	39.856	0.20680153	1
PAN	0	0	0	39.856	0	1

Total Wt. 39.856 gms

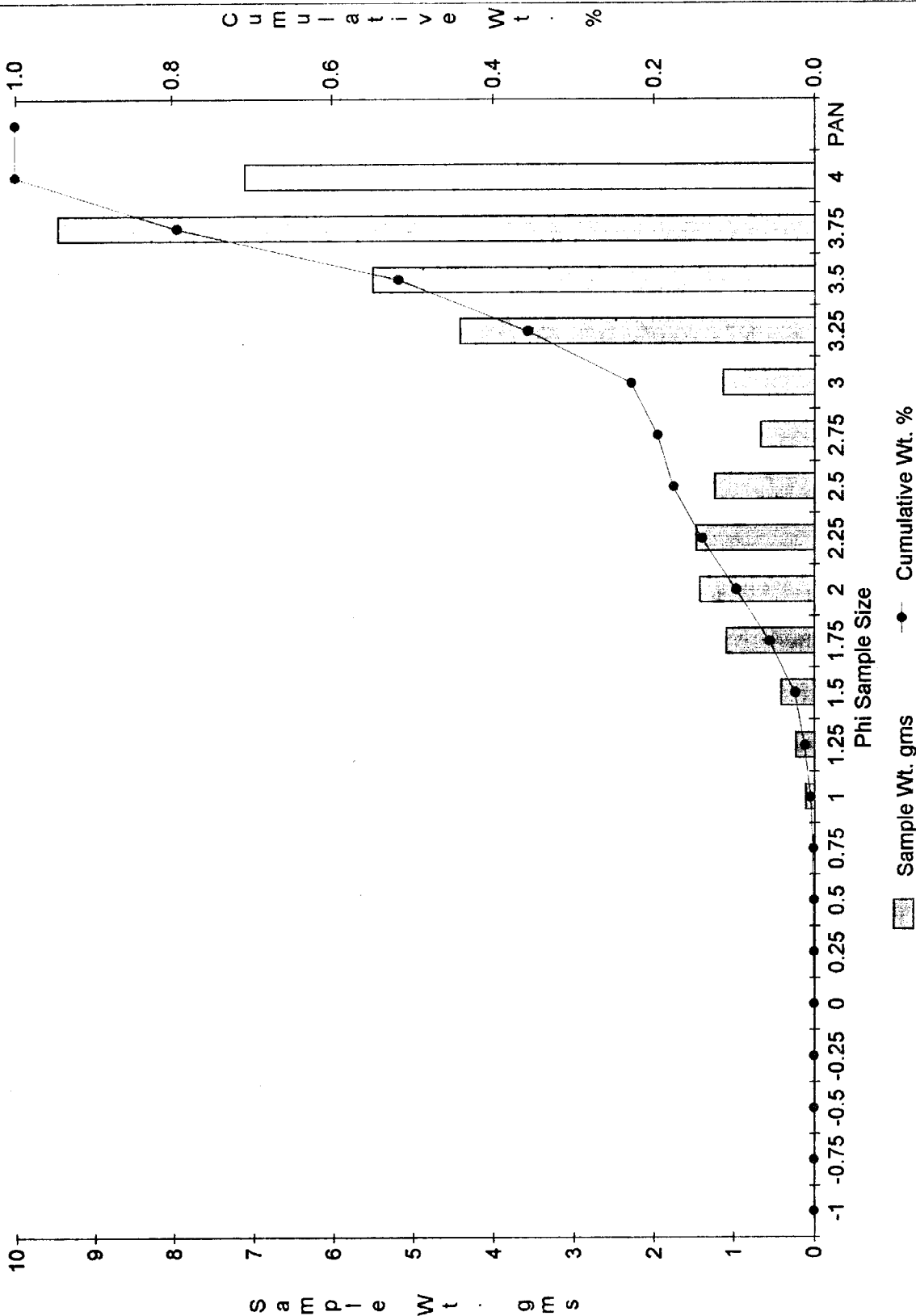
Digest Wt. 34.257 gms

Mean Grain Size 3.47 phi 0.09024557 mm

Sample % Silica 85.951927

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-3 STATION 3



GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-3 STATION 4

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	0.5005	0	0.5005	0.5005	0	0
-0.75	0.1347	0	0.1347	0.6352	0	0
-0.5	0.1247	0	0.1247	0.7599	0	0
-0.25	0.1264	0	0.1264	0.8863	0	0
0	0.089	0	0.089	0.9753	0	0
0.25	0.1002	0	0.1002	1.0755	0	0
0.5	0.0844	0.0023	0.0821	1.1599	4.9457E-05	4.94566E-05
0.75	0.0829	0.0089	0.074	1.2428	0.00019138	0.000240832
1	0.1556	0.0702	0.0854	1.3984	0.0015095	0.001750334
1.25	0.278	0.1704	0.1076	1.6764	0.00366409	0.005414425
1.5	0.5179	0.3926	0.1253	2.1943	0.00844203	0.013856455
1.75	1.3979	1.3116	0.0863	3.5922	0.02820318	0.042059632
2	2.4302	2.2006	0.2296	6.0224	0.04731924	0.089378868
2.25	3.0857	2.8496	0.2361	9.1081	0.0612746	0.150653472
2.5	2.5513	2.1885	0.3628	11.6594	0.04705905	0.197712524
2.75	1.21	0.9324	0.2776	12.8694	0.02004928	0.217761808
3	1.5739	1.4078	0.1661	14.4433	0.03027175	0.248033562
3.25	5.9788	5.9788	0	20.4221	0.12856141	0.376594976
3.5	9.9898	9.9898	0	30.4119	0.21480946	0.591404439
3.75	12.6775	10.1646	2.5129	43.0894	0.21856817	0.809972605
4	10.2573	8.8373	1.42	53.3467	0.19002739	1
PAN	0	0	0	53.3467	0	1

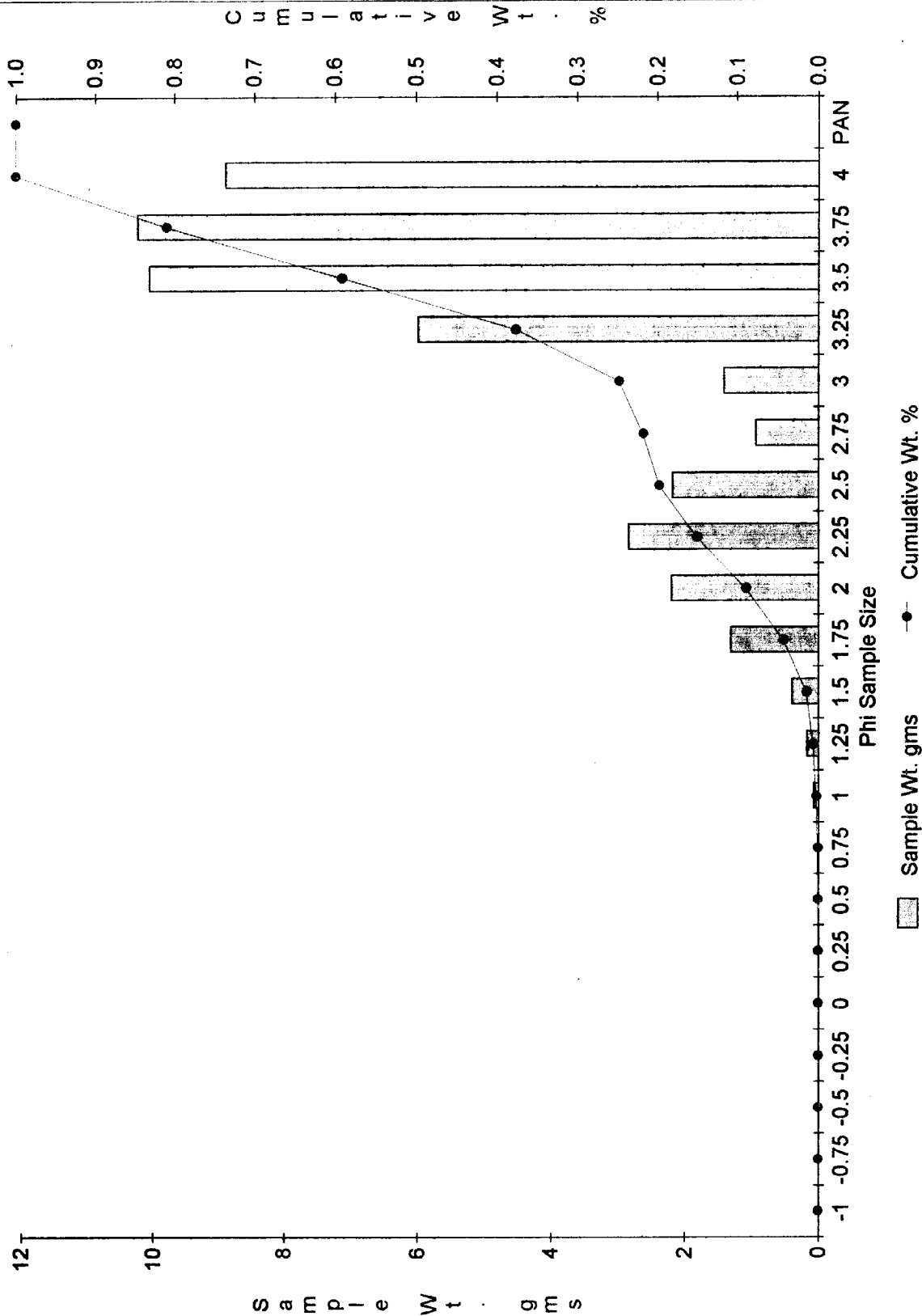
Total Wt. 53.3467 gms
 Digest Wt. 46.5054 gms

Mean Grain Size 3.4 phi 0.09473229 mm

Sample % Silica 87.175777

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGST-3 STATION 4



GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-3 STATION 5

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	2.7958	0	2.7958	2.7958	0	0
-0.75	0.2451	0	0.2451	3.0409	0	0
-0.5	0.1865	0.005	0.1815	3.2274	0.00014468	0.000144685
-0.25	0.2103	0	0.2103	3.4377	0	0.000144685
0	0.1862	0	0.1862	3.6239	0	0.000260432
0.25	0.1752	0.004	0.1712	3.7991	0.00011575	0.000694487
0.5	0.1171	0.015	0.1021	3.9162	0.00043405	0.001765154
0.75	0.1091	0.037	0.0721	4.0253	0.00107067	0.005399634
1	0.1855	0.1256	0.0599	4.2108	0.00363448	0.010180017
1.25	0.2276	0.1652	0.0624	4.4384	0.00478038	0.013623513
1.5	0.1472	0.119	0.0282	4.5856	0.0034435	0.017906181
1.75	0.1643	0.148	0.0163	4.7499	0.00428267	0.023502586
2	0.2547	0.1934	0.0613	5.0046	0.0055964	0.034489943
2.25	0.5058	0.3797	0.1261	5.5104	0.01098736	0.049817842
2.5	0.6723	0.5297	0.1426	6.1827	0.0153279	0.060761794
2.75	0.5621	0.3782	0.1839	6.7448	0.01094395	0.102063493
3	1.5895	1.4273	0.1622	8.3343	0.0413017	0.26245229
3.25	6.3058	5.5427	0.7631	14.6401	0.1603888	0.512021853
3.5	9.2323	8.6246	0.6077	23.8724	0.24956956	0.796052422
3.75	10.5328	9.8155	0.7173	34.4052	0.28403057	1
4	7.7906	7.048	0.7426	42.1958	0.20394758	1
PAN	0	0	0	42.1958	0	1

Total Wt. 42.1958 gms

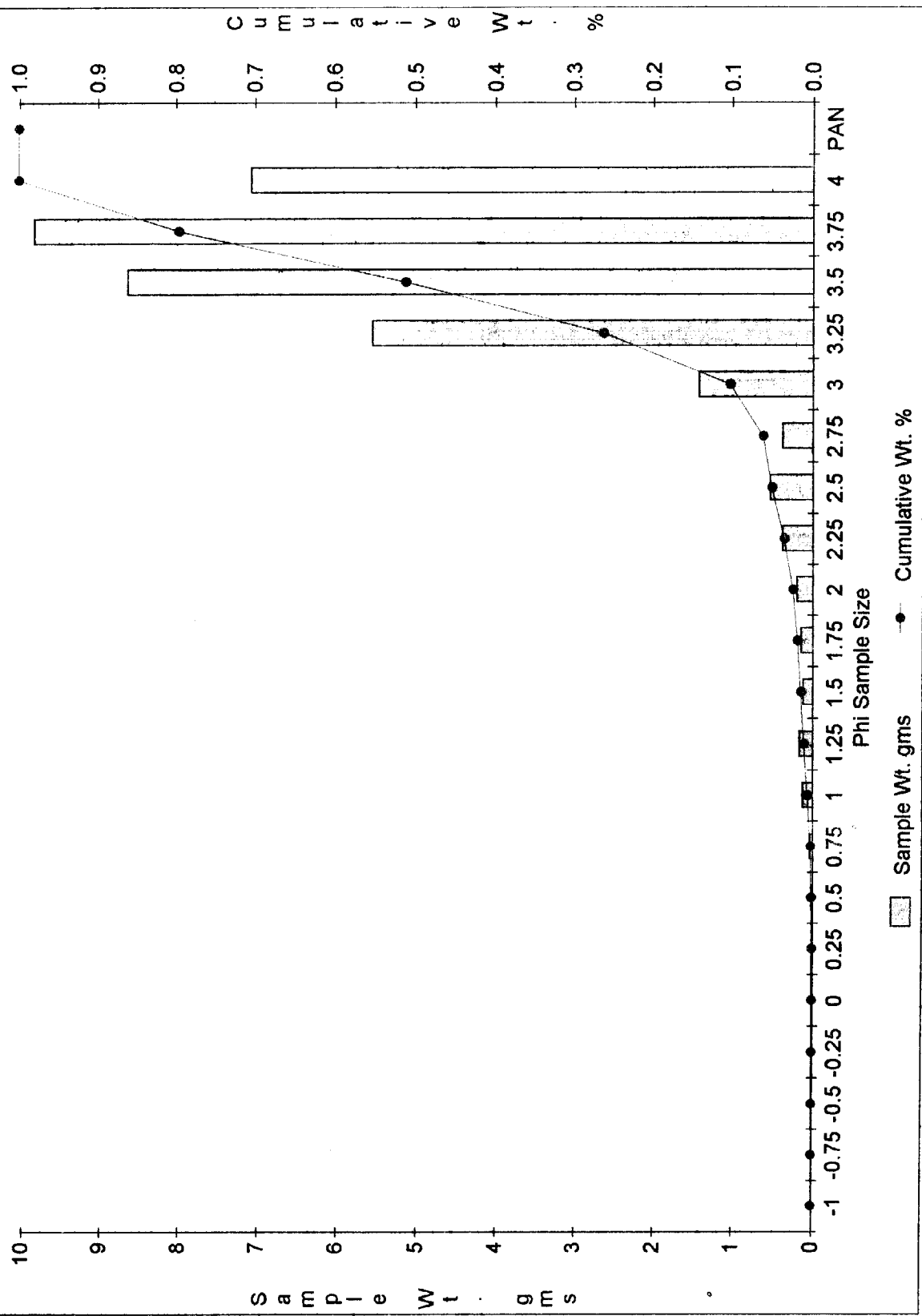
Digest Wt. 34.5579 gms

Mean Grain Size 3.49 phi 0.08900314 mm

Sample % Silica 81.898909

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-3 STATION 5



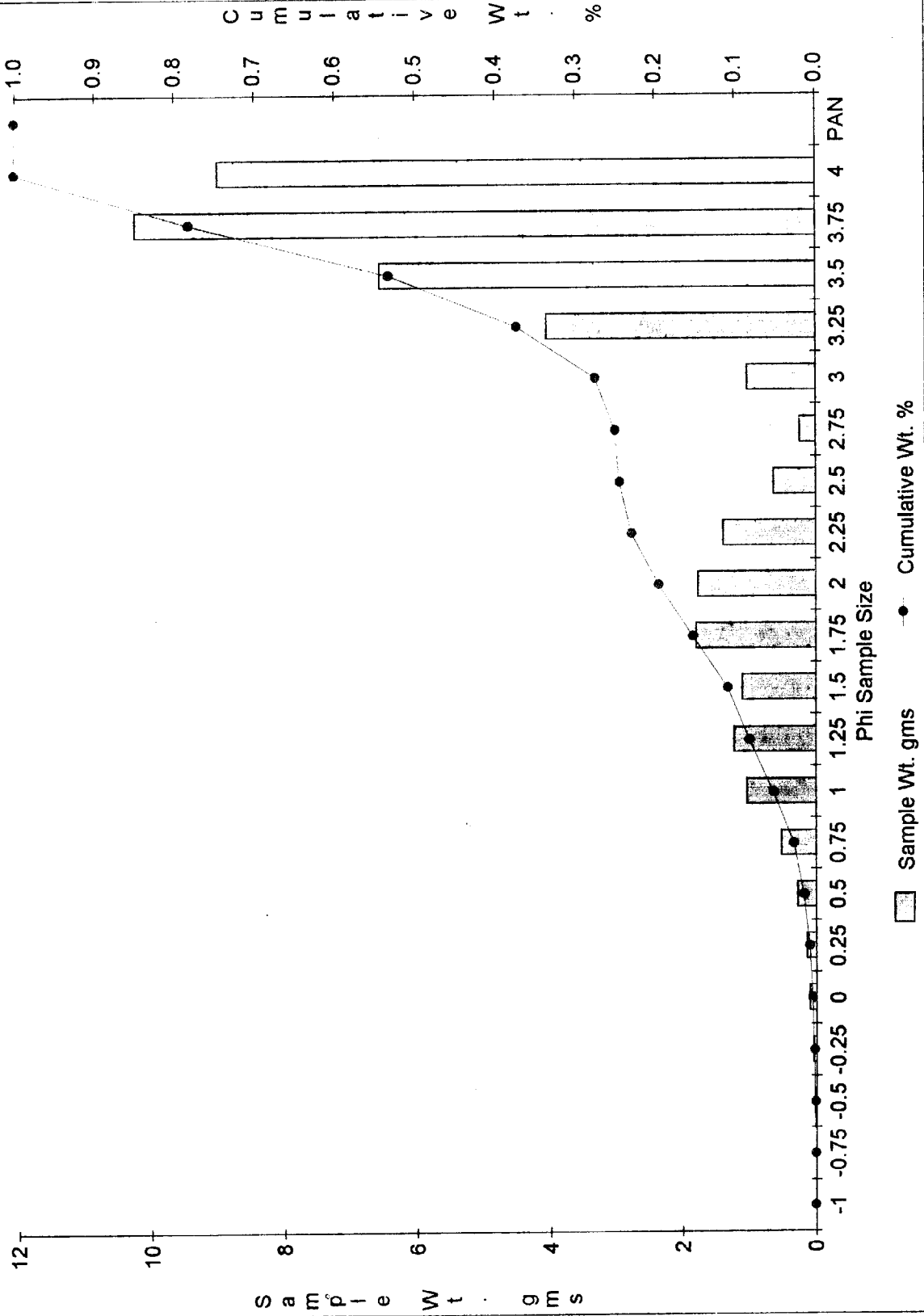
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-3 STATION 6

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	6.0875	0	6.0875	6.0875	0	0
-0.75	0.8789	0	0.8789	6.9664	0	0
-0.5	0.9657	0.0202	0.9455	7.9321	0.00049327	0.000493275
-0.25	0.9367	0.0415	0.8952	8.8688	0.00101341	0.001506686
0	0.7997	0.0955	0.7042	9.6685	0.00233207	0.003838753
0.25	0.761	0.1372	0.6238	10.4295	0.00335036	0.007189115
0.5	0.7035	0.2747	0.4288	11.133	0.00670805	0.013897164
0.75	0.8796	0.5107	0.3689	12.0126	0.01247106	0.026368227
1	1.3719	1.0252	0.3467	13.3845	0.02503492	0.051403147
1.25	1.8012	1.2232	0.578	15.1857	0.02986999	0.081273138
1.5	1.3575	1.1003	0.2572	16.5432	0.02686883	0.108141965
1.75	2.1876	1.786	0.4016	18.7308	0.04361331	0.151755277
2	2.224	1.7564	0.4676	20.9548	0.04289049	0.19464577
2.25	1.6702	1.3813	0.2889	22.625	0.03373072	0.228376491
2.5	0.873	0.6288	0.2442	23.498	0.01535501	0.243731502
2.75	0.5552	0.2369	0.3183	24.0532	0.00578499	0.249516493
3	1.4344	1.0206	0.4138	25.4876	0.02492259	0.274439083
3.25	5.1008	4.0345	1.0663	30.5884	0.09852066	0.372959747
3.5	7.7678	6.5314	1.2364	38.3562	0.15949383	0.532453578
3.75	11.2854	10.1923	1.0931	49.6416	0.24889135	0.781344931
4	9.8104	8.9541	0.8563	59.452	0.21865507	1
PAN	0	0	0	59.452	0	1

Total Wt. 59.452 gms
 Digest Wt. 40.9508 gms
 Mean Grain Size 3.45 phi 0.09150536 mm
 Sample % Silica 68.830441

Sand-Sized Grain Fraction

Cum Digested Wt. %
FGS T-3 STATION 6



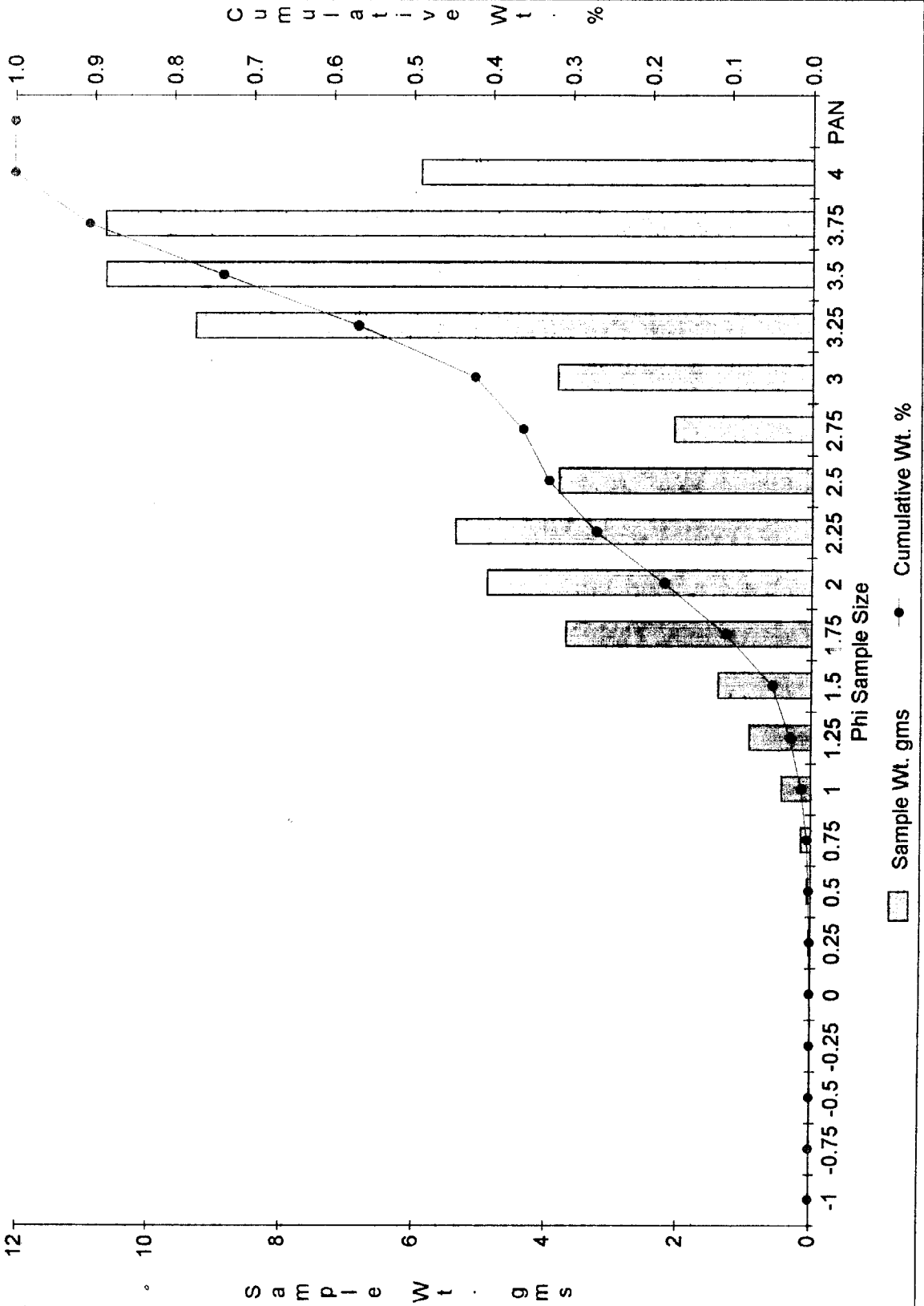
GRAIN SIZE DISTRIBUTION CHART
AFTER DIGESTION
GRAB SAMPLE
FGS T-3 STATION 7

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot. Cum. Digest Wt. %
-1	4.2062	0	4.2062	4.2062	0	0
-0.75	0.3712	0	0.3712	4.5774	0	0
-0.5	0.4002	0	0.4002	4.9776	0	0
-0.25	0.3896	0	0.3896	5.3672	0	0
0	0.3055	0.0046	0.3009	5.6727	7.2975E-05	7.2975E-05
0.25	0.3841	0.0206	0.3635	6.0568	0.0003268	0.000399776
0.5	0.3734	0.0532	0.3202	6.4302	0.00084397	0.001243748
0.75	0.4884	0.1421	0.3463	6.9186	0.00225429	0.00349804
1	0.8222	0.4388	0.3834	7.7408	0.00696118	0.010459219
1.25	1.5124	0.9195	0.5929	9.2532	0.01458706	0.025046284
1.5	1.7902	1.3856	0.4046	11.0434	0.02198133	0.047027618
1.75	4.428	3.6901	0.7379	15.4714	0.05854021	0.105567833
2	5.6346	4.8779	0.7567	21.106	0.07738362	0.182951457
2.25	6.4282	5.3663	1.0619	27.5342	0.08513166	0.268083122
2.5	4.8559	3.7987	1.0572	32.3901	0.06026306	0.328346181
2.75	2.743	2.0684	0.6746	35.1331	0.03281336	0.361159541
3	4.4346	3.8185	0.6161	39.5677	0.06057717	0.421736709
3.25	10.6485	9.2855	1.363	50.2162	0.14730635	0.56904306
3.5	11.4518	10.6325	0.8193	61.668	0.16867533	0.73771839
3.75	11.7017	10.6385	1.0632	73.3697	0.16877051	0.906488904
4	6.3666	5.8945	0.4721	79.7363	0.0935111	1
PAN	0	0	0	79.7363	0	1

Total Wt. 79.7363 gms
 Digest Wt. 63.0353 gms
 Mean Grain Size 3.13 phi 0.11422893 mm
 Sample % Silica 79.054709

Sand-Sized Grain Fraction

Cum Digested Wt. %
 FGS T-3 STATION 7



GRAIN SIZE DISTRIBUTION CHART
 AFTER DIGESTION
 GRAB SAMPLE
 FGS T-3 STATION 8

Phi	Total Wt.	Digest Wt.	CO3 Wt.	Cum. Wt.	Digested Wt. %	Tot.Cum.Digest Wt. %
-1						
-0.75						
-0.5						
-0.25						
0						
0.25						
0.5						
0.75						
1						
1.25						
1.5						
1.75						
2						
2.25						
2.5						
2.75						
3						
3.25						
3.5						
3.75						
4						
PAN						
	Total Wt.			5.4422 gms		
	Digest Wt.			4.3275 gms		
	Sample % Silica			79.517475		Sand-Sized Grain Fraction

Due to insufficient sand-sized grains,
 no granulometrics were carried out
 on this sample.