PNEUMATIC HAMMER CORE **CORE # G-42**

PROJECT: Galveston Island Beach Replenishment

STATE PLANNING COORDINATES
3352915.99
557891.60

LAT./LONG. COORDINATES
29°18.011° N
094°45.250° W

WATER DEPTH
19'6"

DATE
5/18/94

START TIME
1336

END TIME
1358

CORE DIAMETER
3"

LENGTH OF BARREL
20 '

PENETRATION DEPTH

LENGTH RECOVERED
12'1"

SUPPORT VESSEL:
R/V Lonestar

POSITIONING:
Trimble Differential GPS

ANALYSIS BY:
M. Hamilton
Rice University

ANALYSIS METHODS:
Visual Logging
Auto. Settling Tube

DEPTH CM.	DEPTH IN.	CONTACT	LITHOLOGY	DESCRIPTION	GRAIN SIZE (PHI) MEAN	%SAND	%MUD
32	12			Slightly muddy very fine sand 5Y4/2	2.78	91.94	7.68
		22					
64	24			Shelly muddy sand			
		29					
96	36	37			2.75	85.02	5.89
		38					
128	48	49					
		51					
160	60				2.84	89.07	10.18
192	72			Slightly muddy fine sand 5Y4/2			
224	84						
256	96				3.11	97.00	2.83
		105					
288	108	110		Clay 5Y4/1	3.17	42.34	57.36
				Laminated (mud) very fine sand	2.90	83.24	16.38
320	120						
352	132			Clean very fine sand 5Y6/1	2.81	97.57	2.33
384	144						
416	156						
448	168						
480	180						
	192						

SAND | MUDDY SAND | MUDDY SAND/CLAY INTERLAM. | MUDDY SAND/CLAY INTERBEDS | CLAYEY SAND | SANDY CLAY

SHELLY SAND | SHELL HASH | CLAY | MUD

File	a	t17042.dat	Date	06-27-1994
Sample name	g-42-1'			
Data collected on	6/15/94			
Total settling time (min)	10.1			
Settling distance (cm)	140			
Water temperature (degrees C)	21			

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9995988	5.157067	12.8			
-0.873707	5.520661	14.3	-1	-0.875	1.5
-0.7490051	5.914571	14.3	-0.875	-0.75	0
-0.6246192	6.344827	15.8	-0.75	-0.625	1.5
-0.4985216	6.823564	21.4	-0.625	-0.5	5.599999
-0.3737008	7.344722	22.9	-0.5	-0.375	1.5
-0.2497699	7.914361	22.9	-0.375	-0.25	0
-0.1242921	8.550662	22.9	-0.25	-0.125	0
1.53E-05	9.247563	22.9	-0.125	0	0
0.1258686	10.02931	22.9	0	0.125	0
0.2506245	10.88983	22.9	0.125	0.25	0
0.375414	11.84731	22.9	0.25	0.375	0
0.5001053	12.91386	22.9	0.375	0.5	0
0.625006	14.10768	22.9	0.5	0.625	0
0.7500741	15.44695	22.9	0.625	0.75	0
0.8750312	16.94983	22.9	0.75	0.875	0
1.000299	18.64663	22.9	0.875	1	0
1.125096	20.55543	22.9	1	1.125	0
1.250028	22.71889	22.9	1.125	1.25	0
1.375133	25.17924	22.9	1.25	1.375	0
1.500113	27.979	22.9	1.375	1.5	0
1.625126	31.17865	22.9	1.5	1.625	0
1.750112	34.84495	22.9	1.625	1.75	0
1.875008	39.05676	22.9	1.75	1.875	0
2.000123	43.92294	22.9	1.875	2	0
2.125095	49.54666	22.9	2	2.125	0
2.250079	56.07325	22.9	2.125	2.25	0
2.375015	63.66637	22.9	2.25	2.375	0
2.5	72.53223	22.9	2.375	2.5	0
2.625039	82.91265	22.9	2.5	2.625	0
2.750037	95.08716	22.9	2.625	2.75	0
2.875024	109.401	22.9	2.75	2.875	0
3.000019	126.266	22.9	2.875	3	0
3.125026	146.1732	42.9	3	3.125	20
3.250004	169.6982	68.6	3.125	3.25	25.7
3.375024	197.5505	77.1	3.25	3.375	8.5
3.500008	230.5408	87.3	3.375	3.5	10.2
3.625005	269.6645	88.6	3.5	3.625	1.299995
3.750015	316.096	88.6	3.625	3.75	0
3.875012	371.2178	91.4	3.75	3.875	2.800003
4.000008	436.69	94.3	3.875	4	2.900002
4.125006	514.4825	94.3	4	4.125	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

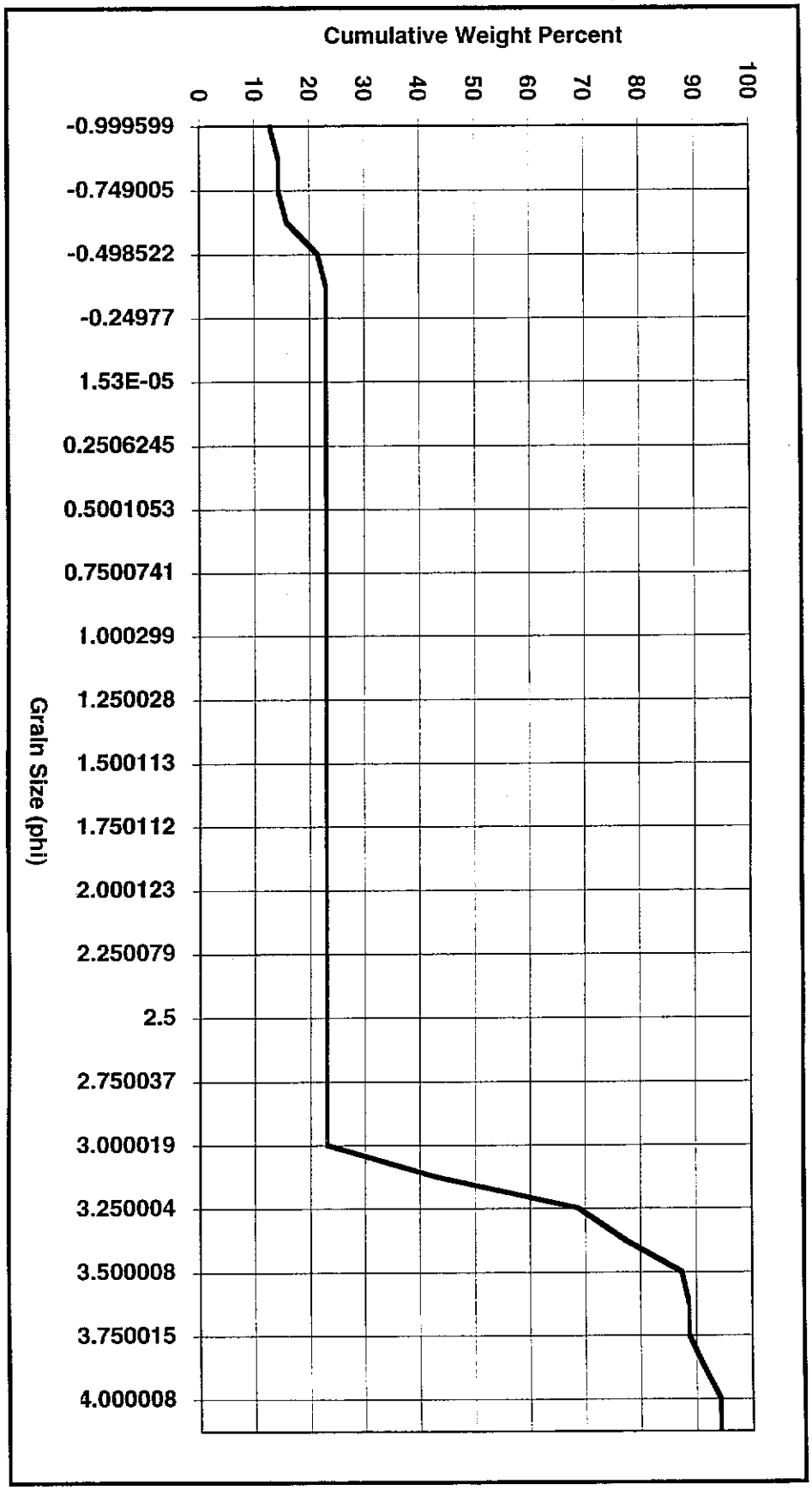
	.125 CHI	.125 PHI
Mean	6.34875	2.783666
Standard deviation	1.482071	1.297506
Skewness	-2.438845	-2.166074
Kurtosis	7.175039	5.978677

GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	5.374804	1.980962
Standard deviation	2.801974	2.947985
Skewness	-0.8810731	-0.9881538
Kurtosis	9.860476	21.1826

MODES Number	Velocity	CHI	PHI	Freq. %
1	3.30033	4.921246	1.963374	4.285717
2	0.2374338	8.718259	4.228201	4.285702
3	0.390902	7.998977	3.847255	4.285702
4	0.7857928	6.991635	3.290287	4.285702
5	0.2331212	8.744704	4.242026	2.857155

PARAMETERS USED				
Number of data points	1000			
Gibbs eq. constants	0.055804	0.003114	4.5	8.71E-03
Dynamic viscosity (poises)	0.01			
Acceleration of gravity (cm/s)	979.21			
Fluid density (g/ml)	0.998			
Particle density (g/cm3)	2.65			
Size conversion using Komar FORAM correction, RD	0.9859			


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.999599
-0.749005
-0.498522
-0.24977
1.53E-05
0.2506245
0.5001053
0.7500741
1.000299
1.250028
1.500113
1.750112
2.000123
2.250079
2.5
2.750037
3.000019
3.250004
3.500008
3.750015
4.000008

17042

File	a	t18042.dat	Date	06-27-1994	
Sample name	g42-3'				
Data collected on	6/15/94				
Total settling time (min)	8.083333				
Settling distance (cm)	140				
Water temperature (degrees C)	21				

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9983899	5.160407	2.9			
-0.8741565	5.519304	3.7	-1	-0.875	0.8
-0.7497373	5.912152	4.3	-0.875	-0.75	0.6000001
-0.6249025	6.343801	4.3	-0.75	-0.625	0
-0.4996436	6.819101	4.3	-0.625	-0.5	0
-0.3741167	7.342902	4.3	-0.5	-0.375	0
-0.2495951	7.915204	4.3	-0.375	-0.25	0
-0.1243118	8.550557	4.3	-0.25	-0.125	0
2.51E-04	9.248951	4.3	-0.125	0	0
0.1252035	10.02496	5.2	0	0.125	0.8999996
0.2504074	10.88826	6.5	0.125	0.25	1.3
0.3755682	11.84856	6.5	0.25	0.375	0
0.5002926	12.91556	6.5	0.375	0.5	0
0.6251016	14.10865	6.5	0.5	0.625	0
0.7501019	15.44726	6.5	0.625	0.75	0
0.8750971	16.95067	6.5	0.75	0.875	0
1.000072	18.64336	7.1	0.875	1	0.5999999
1.125025	20.55427	7.7	1	1.125	0.5999999
1.250206	22.72218	7.7	1.125	1.25	0
1.375222	25.18113	7.7	1.25	1.375	0
1.500138	27.9796	8.6	1.375	1.5	0.9000006
1.625023	31.17583	8.6	1.5	1.625	0
1.750034	34.84249	8.6	1.625	1.75	0
1.875017	39.05711	10	1.75	1.875	1.4
2.000092	43.92166	10	1.875	2	0
2.125015	49.54277	10	2	2.125	0
2.250037	56.07092	10	2.125	2.25	0
2.375007	63.66588	10	2.25	2.375	0
2.500056	72.53645	12.9	2.375	2.5	2.9
2.625015	82.9105	20.1	2.5	2.625	7.200001
2.750009	95.08424	31.4	2.625	2.75	11.3
2.875026	109.4013	42.9	2.75	2.875	11.5
3.000012	126.2651	59.5	2.875	3	16.6
3.125005	146.1895	76.3	3	3.125	16.8
3.250022	169.7019	84.1	3.125	3.25	7.799995
3.375003	197.5455	91.4	3.25	3.375	7.300003
3.500006	230.5401	91.4	3.375	3.5	0
3.625005	269.6649	92.9	3.5	3.625	1.5
3.75001	316.0943	92.9	3.625	3.75	0
3.875005	371.2144	93.7	3.75	3.875	0.7999954
4.000007	436.6894	93.7	3.875	4	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

	.125 CHI	.125 PHI
Mean	6.002717	2.753029
Standard deviation	1.265295	0.7311136
Skewness	-2.48315	-3.169472
Kurtosis	9.07063	14.14329

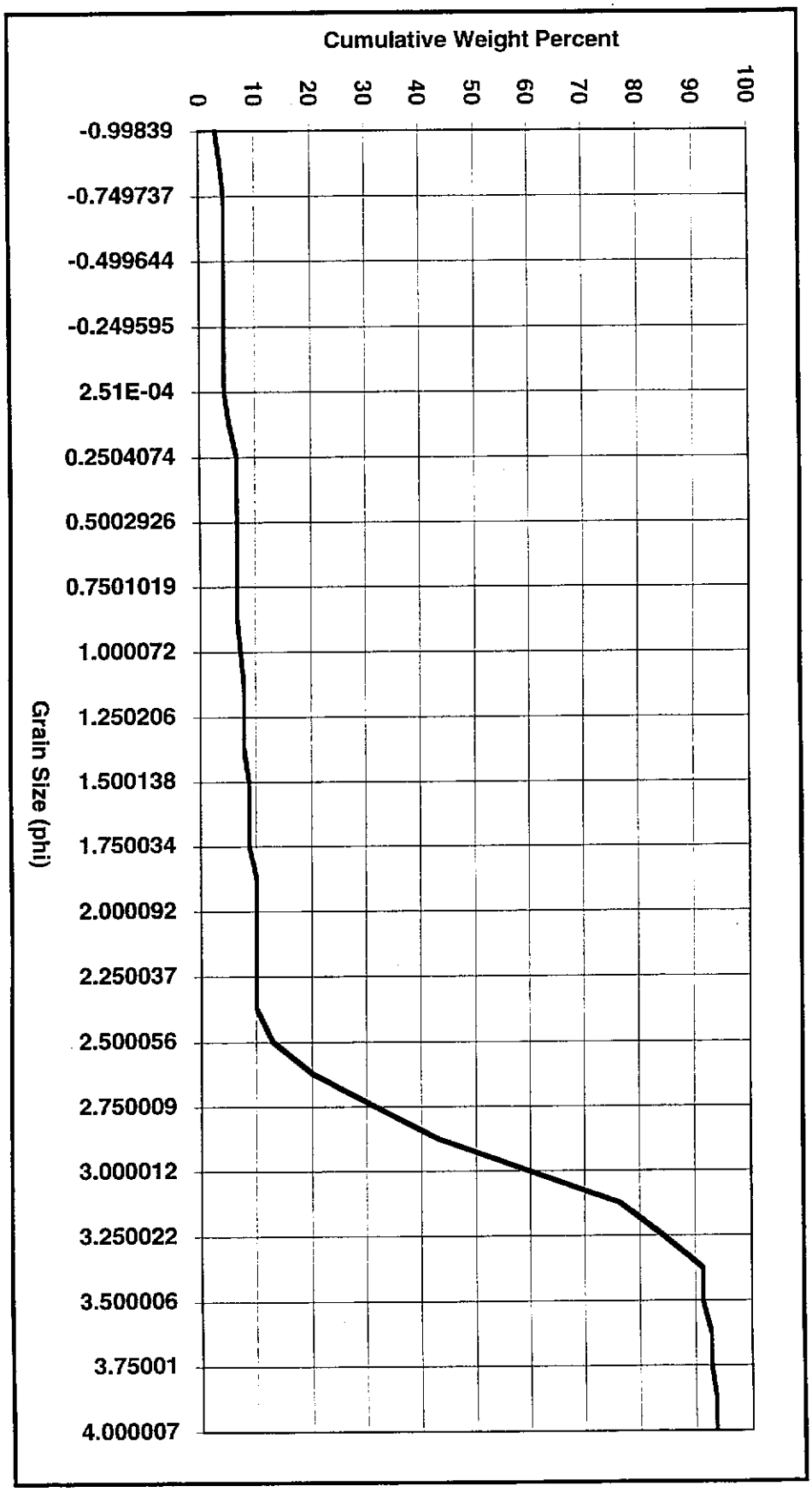
GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.293943	2.872436
Standard deviation	0.9739297	0.6891768
Skewness	-0.519321	-0.7270765
Kurtosis	2.684821	3.256772

MODES

Number	Velocity	CHI	PHI	Freq. %
1	1.140948	6.453623	2.97529	2.142866 ;
2	1.874414	5.737416	2.527673	2.142865 ;
3	0.3247017	8.266669	3.990253	2.142864 ;
4	0.4100281	7.930061	3.810163	2.142864 ;
5	2.309278	5.436414	2.327246	2.142859 ;

PARAMETERS USED				
Number of data points	*1000*			
Gibbs eq. constants	*0.055804*	*0.003114*	*4.5*	*8.71E-03*
Dynamic viscosity (poises)	*0.01*			
Acceleration of gravity (cm/s)	*979.21*			
Fluid density (g/ml)	*0.998*			
Particle density (g/cm3)	*2.65*			
Size conversion using Komar FORAM correction, RD	*0.9859*			


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.99839
-0.749737
-0.499644
-0.249595
2.51E-04
0.2504074
0.5002926
0.7501019
1.000072
1.250206
1.500138
1.750034
2.000092
2.250037
2.500056
2.750009
3.000012
3.250022
3.500006
3.75001
4.000007

File	a	t19042.dat	Date	06-27-1994	
Sample name	g-42-5'				
Date collected on	06-23-1994				
Total settling time (min)	8.066667				
Settling distance (cm)	140				
Water temperature (degrees C)	21				

	CUMULATIVE WEIGHT %			INDIVIDUAL WEIGHT %	
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9987372	5.159447	11.5			
-0.8747199	5.517604	11.5	-1	-0.875	0
-0.7490318	5.914483	11.5	-0.875	-0.75	0
-0.6245047	6.345241	11.5	-0.75	-0.625	0
-0.4995278	6.819561	11.5	-0.625	-0.5	0
-0.3742583	7.342282	11.5	-0.5	-0.375	0
-0.2499882	7.913404	11.5	-0.375	-0.25	0
-0.1248957	8.547447	11.5	-0.25	-0.125	0
3.00E-04	9.249241	11.5	-0.125	0	0
0.125003	10.02365	11.5	0	0.125	0
0.2506482	10.89001	11.5	0.125	0.25	0
0.3755397	11.84833	11.5	0.25	0.375	0
0.5000237	12.91313	11.5	0.375	0.5	0
0.625097	14.1086	11.5	0.5	0.625	0
0.7502809	15.44929	11.5	0.625	0.75	0
0.8750191	16.94968	11.5	0.75	0.875	0
1.000091	18.64364	11.5	0.875	1	0
1.125097	20.55544	11.5	1	1.125	0
1.250028	22.71888	11.5	1.125	1.25	0
1.375058	25.17768	11.5	1.25	1.375	0
1.500153	27.97997	11.5	1.375	1.5	0
1.625151	31.17932	11.5	1.5	1.625	0
1.750068	34.84326	11.5	1.625	1.75	0
1.875066	39.05887	11.5	1.75	1.875	0
2.00001	43.91824	11.5	1.875	2	0
2.125005	49.54228	11.5	2	2.125	0
2.250048	56.07149	11.5	2.125	2.25	0
2.375071	63.67005	11.5	2.25	2.375	0
2.500061	72.53685	15.4	2.375	2.5	3.9
2.625054	82.91396	26.9	2.5	2.625	11.5
2.750031	95.08652	43.3	2.625	2.75	16.4
2.875004	109.3985	63.4	2.75	2.875	20.1
3.000021	126.2663	78.8	2.875	3	15.4
3.125024	146.1729	88.5	3	3.125	9.699997
3.250015	169.7004	88.5	3.125	3.25	0
3.37502	197.5495	95.5	3.25	3.375	7
3.500002	230.539	95.5	3.375	3.5	0
3.625007	269.6655	96.2	3.5	3.625	0.6999969
3.750002	316.0908	96.2	3.625	3.75	0
3.875004	371.2139	96.2	3.75	3.875	0
4.000007	436.6891	96.2	3.875	4	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

	.125 CHI	.125 PHI
Mean	6.126732	2.835965
Standard deviation	0.9052023	0.229662
Skewness	-3.84836	0.6030269
Kurtosis	22.99409	3.202295

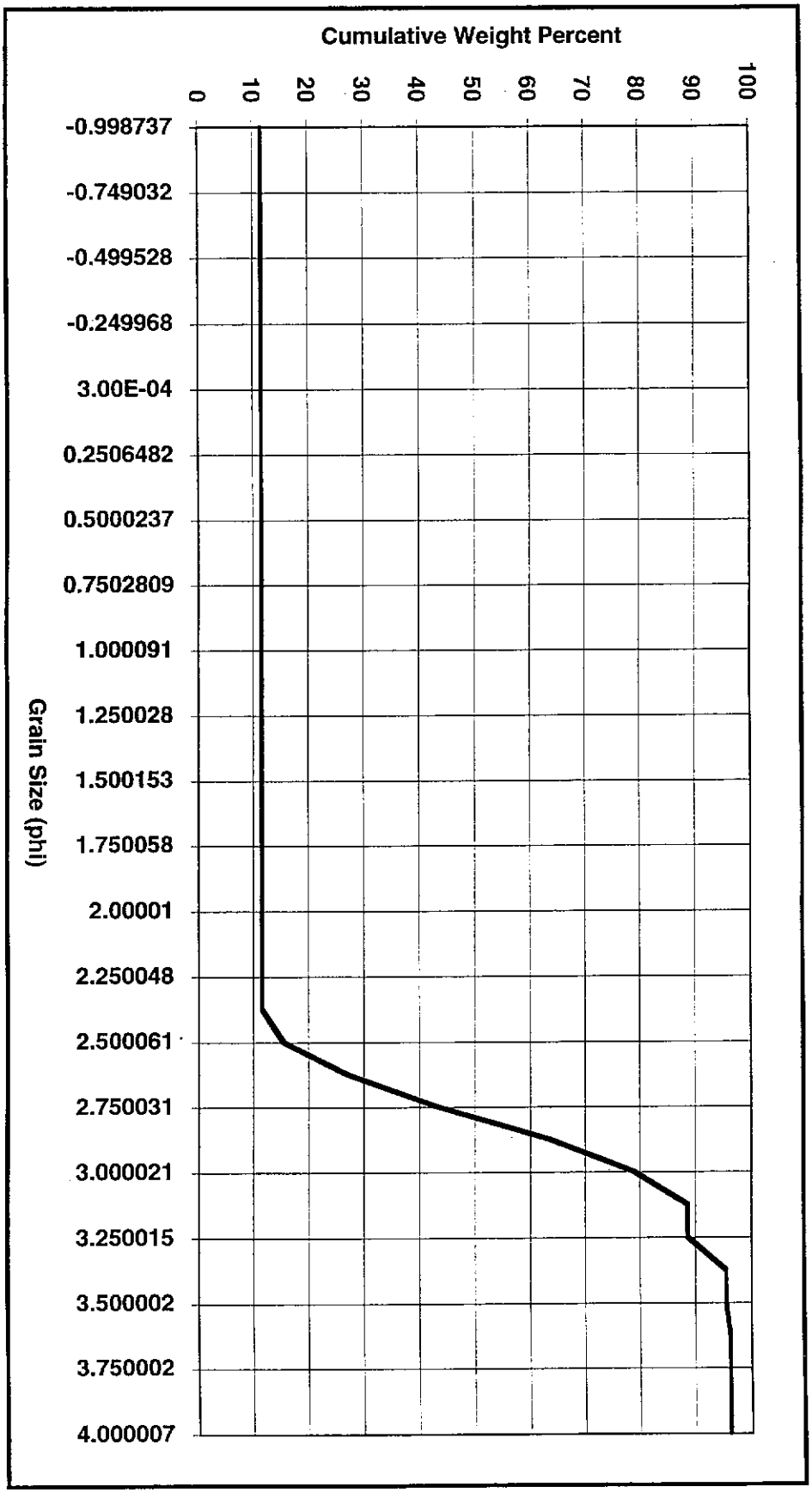
GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.146847	2.78335
Standard deviation	1.654548	1.982799
Skewness	-0.6518927	-1.069677
Kurtosis	7.59454	15.56585

MODES

Number	Velocity	CHI	PHI	Freq. %
1	0.3032036	8.365498	4.042653	2.884624
2	1.711575	5.868532	2.612504	2.884607
3	0.584356	7.418937	3.530841	2.884605
4	1.274256	6.2942	2.878777	2.884605
5	0.3189153	8.292611	4.004027	1.923084

PARAMETERS USED				
Number of data points	*1000*			
Gibbs eq. constants	*0.055804*	*0.003114*	*4.5*	*8.71E-03*
Dynamic viscosity (poises)	*0.01*			
Acceleration of gravity (cm/s)	*979.21*			
Fluid density (g/ml)	*0.998*			
Particle density (g/cm3)	*2.65*			
Size conversion using Komar FORAM correction, RD	*0.9859*			


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.998737
-0.749032
-0.499528
-0.249968
3.00E-04
0.2506482
0.5000237
0.7502809
1.000091
1.250028
1.500153
1.750058
2.00001
2.250048
2.500061
2.750031
3.000021
3.250015
3.500002
3.750002
4.000007

File	a	t20042.dat	Date	06-27-1994
Sample name	g-42-8'			
Data collected on	6/16/94			
Total settling time (min)	10.08333			
Settling distance (cm)	140			
Water temperature (degrees C)	21			

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9982994	5.160657	9.4			
-0.8747208	5.517602	9.4	-1	-0.875	0
-0.748297	5.916911	9.4	-0.875	-0.75	0
-0.624169	6.346457	9.4	-0.75	-0.625	0
-0.4998313	6.818354	9.4	-0.625	-0.5	0
-0.3737053	7.344702	9.4	-0.5	-0.375	0
-0.2499668	7.913401	9.4	-0.375	-0.25	0
-0.1246694	8.548652	9.4	-0.25	-0.125	0
5.06E-04	9.250454	9.4	-0.125	0	0
0.1251883	10.02486	9.4	0	0.125	0
0.2498167	10.89001	9.4	0.125	0.25	0
0.3752411	11.84591	9.4	0.25	0.375	0
0.5004252	12.91676	9.4	0.375	0.5	0
0.6250972	14.1086	9.4	0.5	0.625	0
0.750494	15.45171	9.4	0.625	0.75	0
0.8752092	16.9521	9.4	0.75	0.875	0
1.000263	18.64611	9.4	0.875	1	0
1.125242	20.5578	9.4	1	1.125	0
1.250291	22.72374	9.4	1.125	1.25	0
1.375171	25.18004	9.4	1.25	1.375	0
1.500206	27.98123	9.4	1.375	1.5	0
1.625015	31.1756	9.4	1.5	1.625	0
1.750015	34.84189	9.4	1.625	1.75	0
1.875066	39.05887	9.4	1.75	1.875	0
2.000126	43.92308	9.4	1.875	2	0
2.125031	49.54357	9.6	2	2.125	0.2000008
2.250049	56.07149	9.6	2.125	2.25	0
2.375074	63.67023	9.6	2.25	2.375	0
2.500018	72.53357	9.6	2.375	2.5	0
2.625001	82.90919	9.6	2.5	2.625	0
2.750043	95.0878	9.6	2.625	2.75	0
2.875031	109.4019	18.2	2.75	2.875	8.6
3.000041	126.2693	42.1	2.875	3	23.9
3.12503	146.1739	64.9	3	3.125	22.8
3.250026	169.7028	79.2	3.125	3.25	14.3
3.375	197.5449	86.8	3.25	3.375	7.600006
3.50001	230.5413	86.8	3.375	3.5	0
3.625012	269.6671	86.8	3.5	3.625	0
3.750011	316.0946	90.6	3.625	3.75	3.799995
3.875009	371.2162	90.6	3.75	3.875	0
4.000007	436.6895	94.3	3.875	4	3.700005
4.125002	514.4802	94.3	4	4.125	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

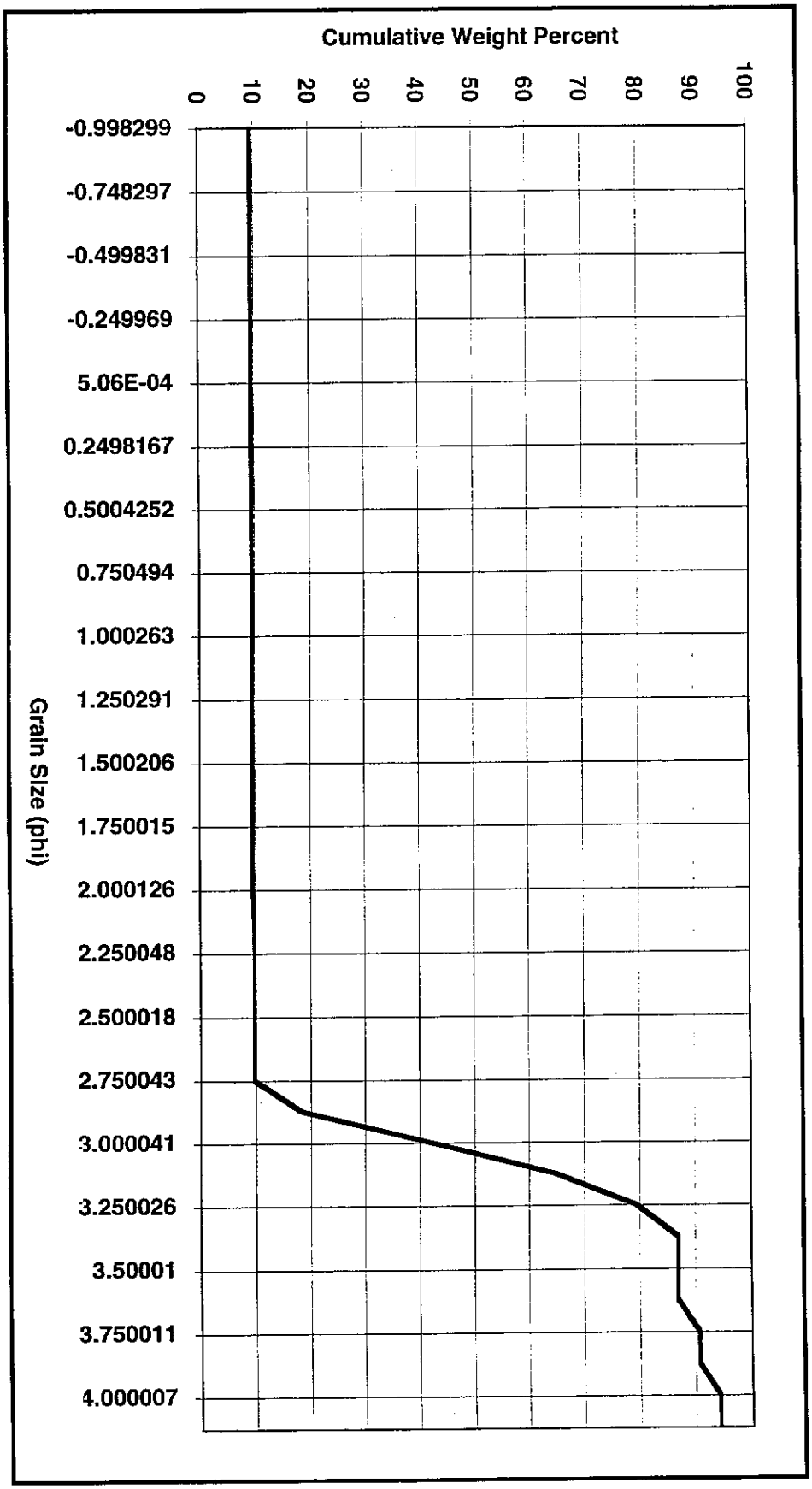
	.125 CHI	.125 PHI
Mean	6.483749	3.109173
Standard deviation	1.091245	0.264544
Skewness	-3.706944	1.483419
Kurtosis	20.2968	6.032844

GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.566527	3.039356
Standard deviation	1.68173	1.825454
Skewness	-1.212094	-2.841754
Kurtosis	9.010068	17.52532

MODES Number	Velocity	CHI	PHI	Freq. %
1	0.2842813	8.458466	4.091768 3.773579 ;	
2	0.2669031	8.549468	4.139691 2.8302 ;	
3	0.3131326	8.319011	4.01803 2.8302 ;	
4	1.023916	6.609759	3.068313 2.8302 ;	
5	1.134338	6.462006	2.98032 2.8302 ;	

PARAMETERS USED				
Number of data points	1000			
Gibbs eq. constants	0.055804	0.003114	4.5	8.71E-03
Dynamic viscosity (poises)	0.01			
Acceleration of gravity (cm/s)	979.21			
Fluid density (g/ml)	0.998			
Particle density (g/cm3)	2.65			
Size conversion using Komar FORAM correction, RD	0.9859			


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.998299
-0.748297
-0.499831
-0.249969
5.06E-04
0.2498167
0.5004252
0.750494
1.000263
1.250291
1.500206
1.750015
2.000126
2.250048
2.500018
2.750043
3.000041
3.250026
3.50001
3.750011
4.000007

T21042.ASCxls

File	a	121042.dat	Date	06-27-1994
Sample name	g-42-9'			
Data collected on	06-23-1994			
Total settling time (min)	10.1			
Settling distance (cm)	140			
Water temperature (degrees C)	21			

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9995988	5.157067	4			
-0.873707	5.520661	4	-1	-0.875	0
-0.7490051	5.914571	4	-0.875	-0.75	0
-0.6246192	6.344827	4	-0.75	-0.625	0
-0.4985216	6.823564	4	-0.625	-0.5	0
-0.3737008	7.344722	4	-0.5	-0.375	0
-0.2497699	7.914361	4	-0.375	-0.25	0
-0.1242921	8.550662	4	-0.25	-0.125	0
1.53E-05	9.247563	4	-0.125	0	0
0.1258686	10.02931	4	0	0.125	0
0.2506245	10.88963	4	0.125	0.25	0
0.375414	11.84731	4	0.25	0.375	0
0.5001053	12.91386	4	0.375	0.5	0
0.625006	14.10768	4	0.5	0.625	0
0.7500741	15.44695	4	0.625	0.75	0
0.8750312	16.94983	4	0.75	0.875	0
1.000299	18.64663	4	0.875	1	0
1.125096	20.55543	4	1	1.125	0
1.250028	22.71889	4	1.125	1.25	0
1.375133	25.17924	4	1.25	1.375	0
1.500113	27.979	4	1.375	1.5	0
1.625126	31.17865	4	1.5	1.625	0
1.750112	34.84495	4	1.625	1.75	0
1.875008	39.05676	4	1.75	1.875	0
2.000123	43.92294	4	1.875	2	0
2.125095	49.54666	4	2	2.125	0
2.250079	56.07325	4	2.125	2.25	0
2.375015	63.66637	4	2.25	2.375	0
2.5	72.53223	4	2.375	2.5	0
2.625039	82.91265	4	2.5	2.625	0
2.750037	95.08716	4	2.625	2.75	0
2.875024	109.401	9.8	2.75	2.875	5.8
3.000019	126.266	32.6	2.875	3	22.8
3.125026	146.1732	54.5	3	3.125	21.9
3.250004	169.6982	67.8	3.125	3.25	13.3
3.375024	197.5505	81.6	3.25	3.375	13.8
3.500008	230.5408	88.3	3.375	3.5	6.700005
3.625005	269.6645	92.5	3.5	3.625	4.199997
3.750015	316.096	95.4	3.625	3.75	2.900002
3.875012	371.2178	96	3.75	3.875	0.5999985
4.000008	436.69	98.9	3.875	4	2.900002
4.125006	514.4825	98.9	4	4.125	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

	.125 CHI	.125 PHI
Mean	6.796515	3.170245
Standard deviation	0.4689469	0.2590847
Skewness	1.260264	1.0365
Kurtosis	4.528922	3.790489

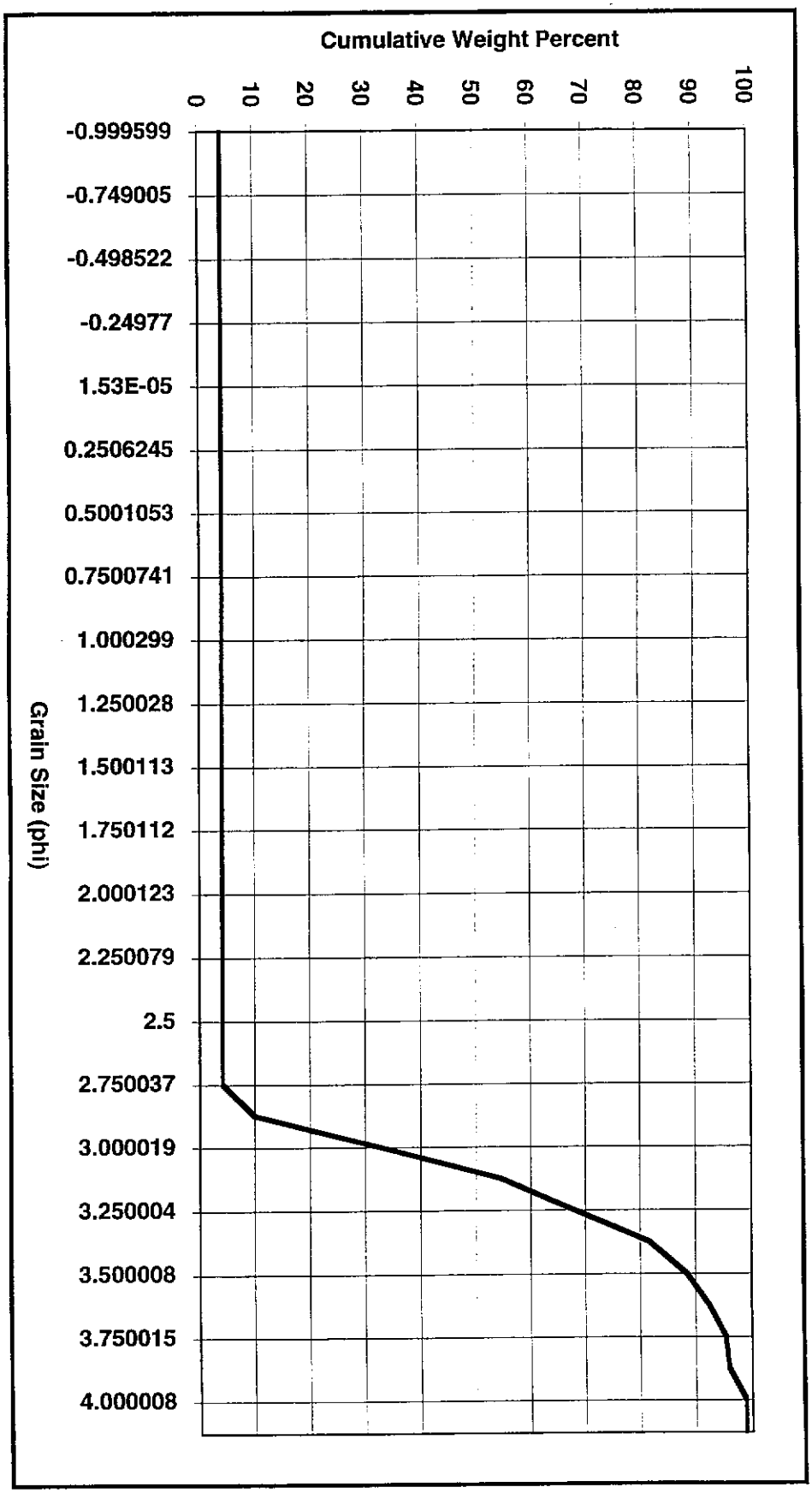
GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.742309	3.142877
Standard deviation	0.4430807	0.2570537
Skewness	0.3586476	0.335467
Kurtosis	1.088844	1.074914

MODES

Number	Velocity	CHI	PHI	Freq. %
1	1.228846	6.346552	2.910648	1.724139
2	0.9957892	6.649944	3.092028	1.436783
3	1.138045	6.457299	2.977496	1.436782
4	0.8462384	6.88472	3.228873	1.149431
5	0.6031935	7.373164	3.505413	1.149429

PARAMETERS USED				
Number of data points	1000			
Gibbs eq. constants	0.055804	0.003114	4.5	8.71E-03
Dynamic viscosity (poises)	0.01			
Acceleration of gravity (cm/s)	979.21			
Fluid density (g/ml)	0.998			
Particle density (g/cm3)	2.65			
Size conversion using Komar FORAM correction, RD	0.9859			


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.999599
-0.749005
-0.498522
-0.24977
1.53E-05
0.2506245
0.5001053
0.7500741
1.000299
1.250028
1.500113
1.750112
2.000123
2.250079
2.5
2.750037
3.000019
3.250004
3.500008
3.750015
4.000008

File	a	t22042.dat	Date	06-27-1994
Sample name	g-42-9'6"			
Data collected on	06-24-1994			
Total settling time (min)	10.1			
Settling distance (cm)	140			
Water temperature (degrees C)	21			

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9995988	5.157067	1.6			
-0.873707	5.520661	1.6	-1	-0.875	0
-0.7490051	5.914571	1.6	-0.875	-0.75	0
-0.6246192	6.344827	1.6	-0.75	-0.625	0
-0.4985216	6.823564	1.6	-0.625	-0.5	0
-0.3737008	7.344722	1.6	-0.5	-0.375	0
-0.2497699	7.914361	1.6	-0.375	-0.25	0
-0.1242921	8.550662	1.6	-0.25	-0.125	0
1.53E-05	9.247563	1.6	-0.125	0	0
0.1258686	10.02931	1.6	0	0.125	0
0.2506245	10.88983	1.6	0.125	0.25	0
0.375414	11.84731	1.6	0.25	0.375	0
0.5001053	12.91386	1.6	0.375	0.5	0
0.625006	14.10768	1.6	0.5	0.625	0
0.7500741	15.44695	1.8	0.625	0.75	0.1999999
0.8750312	16.94983	1.8	0.75	0.875	0
1.000299	18.64663	1.9	0.875	1	0.1
1.125096	20.55543	1.9	1	1.125	0
1.250028	22.71889	1.9	1.125	1.25	0
1.375133	25.17924	1.9	1.25	1.375	0
1.500113	27.979	1.9	1.375	1.5	0
1.625126	31.17865	1.9	1.5	1.625	0
1.750112	34.84495	1.9	1.625	1.75	0
1.875008	39.05676	1.9	1.75	1.875	0
2.000123	43.92294	1.9	1.875	2	0
2.125095	49.54666	1.9	2	2.125	0
2.250079	56.07325	1.9	2.125	2.25	0
2.375015	63.66637	1.9	2.25	2.375	0
2.5	72.53223	1.9	2.375	2.5	0
2.625039	82.91265	1.9	2.5	2.625	0
2.750037	95.08716	32.4	2.625	2.75	30.5
2.875024	109.401	52.2	2.75	2.875	19.8
3.000019	126.266	72	2.875	3	19.8
3.125026	146.1732	85.1	3	3.125	13.1
3.250004	169.6982	92	3.125	3.25	6.900002
3.375024	197.5505	94.9	3.25	3.375	2.900002
3.500008	230.5408	96.9	3.375	3.5	2
3.625005	269.6645	97.9	3.5	3.625	1
3.750015	316.096	98.5	3.625	3.75	0.5999985
3.875012	371.2178	98.5	3.75	3.875	0
4.000008	436.69	98.9	3.875	4	0.4000015
4.125006	514.4825	98.9	4	4.125	0

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

	.125 CHI	.125 PHI
Mean	6.349318	2.898189
Standard deviation	0.3767688	0.2514042
Skewness	0.5904496	-0.9245768
Kurtosis	11.5897	19.3656

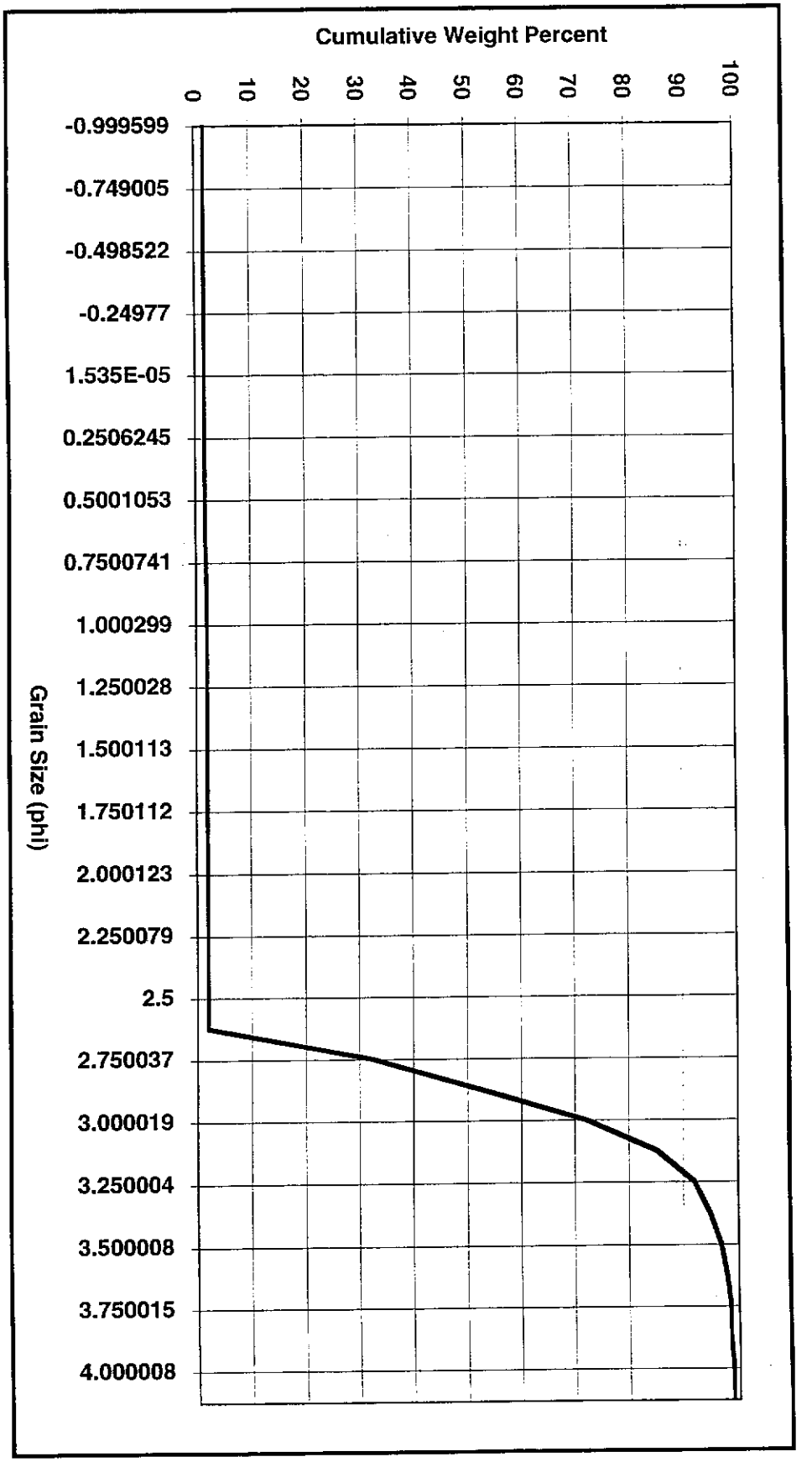
GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.32405	2.894751
Standard deviation	0.3190421	0.1919281
Skewness	0.448406	0.4314871
Kurtosis	0.907686	0.8865849

MODES

Number	Velocity	CHI	PHI	Freq. %
1	1.509955	6.049351	2.727239	5.708245
2	1.391705	6.167002	2.800578	1.585623
3	1.197011	6.38442	2.933592	1.057083
4	1.074526	6.540156	3.02702	.7399597
5	0.9915155	6.656149	3.095682	.5285416

PARAMETERS USED				
Number of data points	1000			
Gibbs eq. constants	0.055804	0.003114	4.5	8.71E-03
Dynamic viscosity (poises)	0.01			
Acceleration of gravity (cm/s)	979.21			
Fluid density (g/ml)	0.998			
Particle density (g/cm3)	2.65			
Size conversion using Komar FORAM correction, RD	0.9859			


Cumulative Weight Percent
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10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.999599
-0.749005
-0.498522
-0.24977
1.535E-05
0.2506245
0.5001053
0.7500741
1.000299
1.250028
1.500113
1.750112
2.000123
2.250079
2.5
2.750037
3.000019
3.250004
3.500008
3.750015
4.000008

22042

File	a	t23042.dat	Date	06-27-1994	
Sample name	g-42-11'6"				
Data collected on	06-23-1994				
Total settling time (min)	10.1				
Settling distance (cm)	140				
Water temperature (degrees C)	21				

	CUMULATIVE WEIGHT %		INDIVIDUAL WEIGHT %		
PHI	TIME(SEC)	% VALUE	RANGE		% VALUE
-0.9995988	5.157067	2.4			
-0.873707	5.520661	3.1	-1	-0.875	0.6999998
-0.7490051	5.914571	3.1	-0.875	-0.75	0
-0.6246192	6.344827	3.2	-0.75	-0.625	0.1000001
-0.4985216	6.823564	3.2	-0.625	-0.5	0
-0.3737008	7.344722	3.2	-0.5	-0.375	0
-0.2497699	7.914361	3.2	-0.375	-0.25	0
-0.1242921	8.550662	3.2	-0.25	-0.125	0
1.53E-05	9.247563	3.2	-0.125	0	0
0.1258686	10.02931	3.2	0	0.125	0
0.2506245	10.88983	3.2	0.125	0.25	0
0.375414	11.84731	3.2	0.25	0.375	0
0.5001053	12.91386	3.2	0.375	0.5	0
0.625006	14.10768	3.2	0.5	0.625	0
0.7500741	15.44695	3.2	0.625	0.75	0
0.8750312	16.94983	3.2	0.75	0.875	0
1.000299	18.64663	3.2	0.875	1	0
1.125096	20.55543	3.2	1	1.125	0
1.250028	22.71889	3.2	1.125	1.25	0
1.375133	25.17924	3.2	1.25	1.375	0
1.500113	27.979	3.2	1.375	1.5	0
1.625126	31.17865	3.2	1.5	1.625	0
1.750112	34.84495	3.2	1.625	1.75	0
1.875008	39.05676	3.2	1.75	1.875	0
2.000123	43.92294	3.2	1.875	2	0
2.125095	49.54666	3.2	2	2.125	0
2.250079	56.07325	3.2	2.125	2.25	0
2.375015	63.66637	3.2	2.25	2.375	0
2.5	72.53223	3.2	2.375	2.5	0
2.625039	82.91265	8.7	2.5	2.625	5.5
2.750037	95.08716	30.3	2.625	2.75	21.6
2.875024	109.401	62.7	2.75	2.875	32.4
3.000019	126.266	90.5	2.875	3	27.8
3.125026	146.1732	93.7	3	3.125	3.199997
3.250004	169.6982	95.2	3.125	3.25	1.5
3.375024	197.5505	96.8	3.25	3.375	1.600006
3.500008	230.5408	98.2	3.375	3.5	1.399994
3.625005	269.6645	98.4	3.5	3.625	0.2000046
3.750015	316.096	98.4	3.625	3.75	0
3.875012	371.2178	98.4	3.75	3.875	0
4.000008	436.69	98.4	3.875	4	0
4.125006	514.4825	98.9	4	4.125	0.5

SEDIDAT STATISTICS

GROUPED MOMENT MEASURES (McBride, 1971)

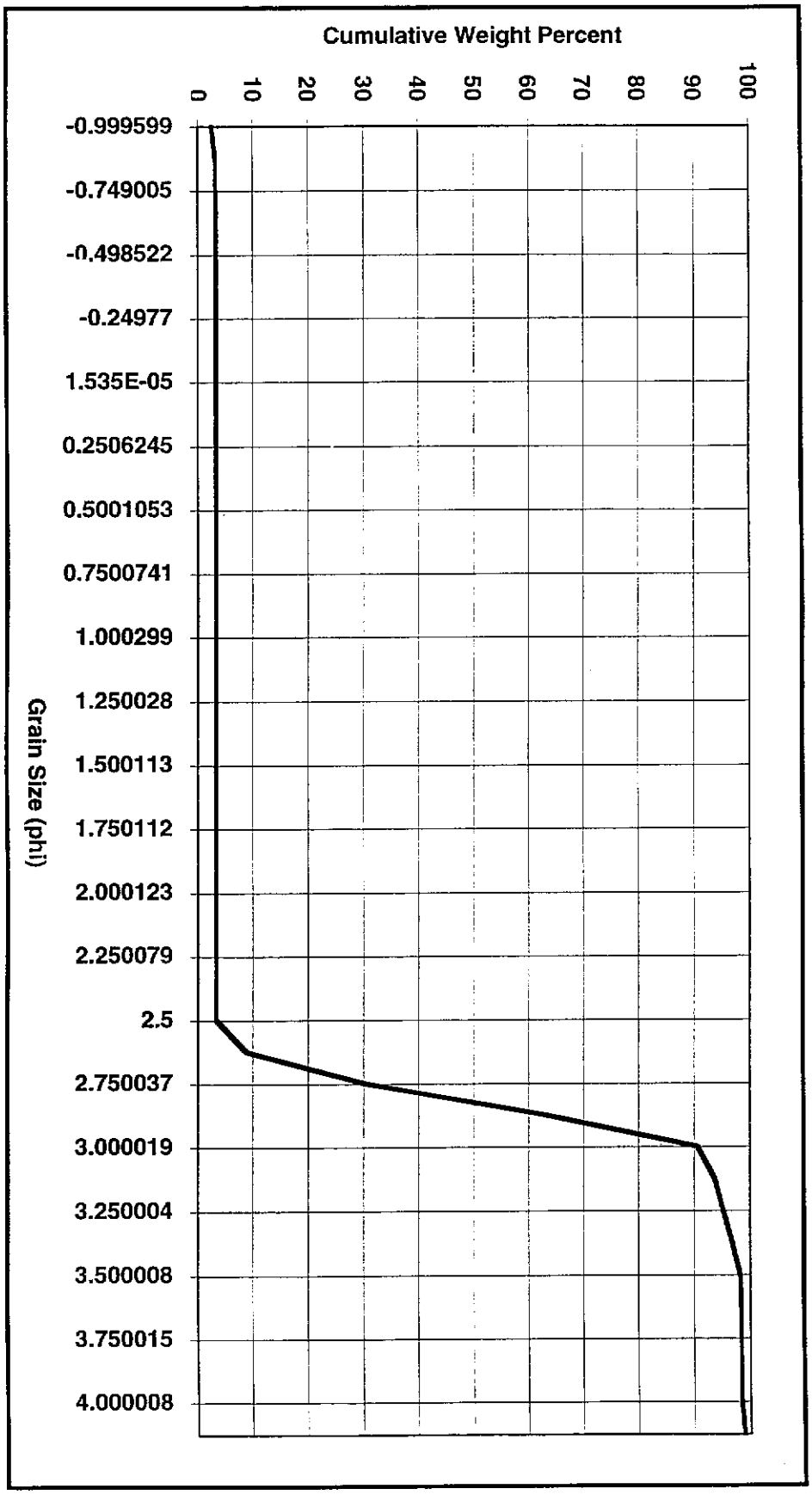
	.125 CHI	.125 PHI
Mean	6.093143	2.814961
Standard deviation	0.8405621	0.3867696
Skewness	-4.774459	-7.101761
Kurtosis	28.05928	72.00962

GRAPHIC MEASURES (Folk and Ward, 1957)

	.125 CHI	.125 PHI
Mean	6.205988	2.823319
Standard deviation	0.2553263	0.1567933
Skewness	0.1691395	0.1503991
Kurtosis	1.044194	1.038337

MODES				
Number	Velocity	CHI	PHI	Freq. %
1	1.132466	6.464388	2.98175	2.116402
2	1.571586	5.991635	2.69089	2.116401
3	1.434926	6.12288	2.77319	2.1164
4	1.283462	6.283816	2.872434	1.587309
5	1.711282	5.868778	2.612662	1.322751

PARAMETERS USED				
Number of data points	1000			
Gibbs eq. constants	0.055804	0.003114	4.5	8.71E-03
Dynamic viscosity (poises)	0.01			
Acceleration of gravity (cm/s)	979.21			
Fluid density (g/ml)	0.998			
Particle density (g/cm3)	2.65			
Size conversion using Komar FORAM correction, RD	0.9859			


Cumulative Weight Percent
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10
20
30
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60
70
80
90
100
Grain Size (phi)
-0.999599
-0.749005
-0.498522
-0.24977
1.535E-05
0.2506245
0.5001053
0.7500741
1.000299
1.250028
1.500113
1.750112
2.000123
2.250079
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3.000019
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3.500008
3.750015
4.000008

23042

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