φ = 1	PHI - mm COVERSION = log ₂ (d in mm) 1µm = 0.001mm		Fractional mm and Decimal inches	SIZE TERMS (after Wentworth,1922)		SIZES		diameters grains sieve size	Number of grains per mg		Settling Velocity (Quartz, 20°C)		Threshold Velocity for traction cm/sec	
φ	m			.		ASTM No. (U.S. Standard)	Tyler Mesh No.	Intermediate of of natural of equivalent to s				,		$\overline{}$
-8 - -7 -	—200 - —100	— 128		BOULDERS (≥-8¢)					Quartz spheres	Natural	Spheres Cibbs, 1971) Spheres Crushed		– 00 (Nevin,1946)	T (modified from Hjuistrom,1939)
- 6 –		64.0 53.9 45.3	- 2.52 "		very	- 2 1/2" - 2.12" -	- - 2"						- 150	above bottom
- 5 -	-40 _ -30 _	33.1 32.0 26.9 22.6	- 1.26 "		coarse	- 1 1/2" - 1 1/4" - 1.06"	- 1 1/2" - - 1.05"					- 50	- 130	
-4 -	-20 _ -	17.0 16.0 13.4	- 0.63"	LES		- 3/4" - 5/8" - 1/2" - 7/16"	742" - 525"				— 100 - 90 - 80	- 40	- 100	
-3-	10 	11.3 9.52 8.00 6.73	- 0.32"	PEBBL	medium	- 7/16 - 3/8" - 5/16" 265"	371" - 3				- 70 - 60	- 30	- 90 - 80	-
-2-	 -5 <u>-</u> -4 -	5.66 4.76 4.00 3.36	- 0.16"	-	fine very	- - 4 - 5 - 6	- - 4 - 5 - 6				- 50 - 40	- 20	- 70 - 60	— 100
 -1-	-3 _ - -2 —	2.83 2.38 2.00	- 0.08"	*	fine Granules	- 7 - 8 - 10	- 7 - 8 - 9				- 30		- 50	
0-	 -1 -	1.63 1.41 1.19 1.00	inches mm - 1		very coarse	- 12 - 14 - 16 - 18	- 10 - 12 - 14 - 16	– 1.2	72	6	- 20 -	10 9 8	- 40	- 50 - 40
1-	- - - - -	.840 .707 .545 .500	- 1/2		coarse	- 20 - 25 - 30 - 35	- 20 - 24 - 28 - 32	86 59	- 2.0 - 5.6	- 1.5 - 4.5	— 10 - 8	- 8 - 7 - 6	- 30	
ļ ·	4 - 3 -	.420 .354 .297		SAND	medium	- 40 - 45 - 50	- 35 - 42 - 48	42	- 15	- 13	- 8 - 7 - 6 - 5 - 4	- 5 - 4		- 30
2-	2 - -	.250 .210 .177 .149	- 1/4 -	0,	fine	- 60 - 70 - 80 - 100	- 60 - 65 - 80 - 100	30 215	- 43 - 120	- 35 - 91	- 3 - 2	- 3 - 2	- 20 - Mini	- 26 mum
3 -	1	.125 .105 .088	- 1/8		very fine	- 120 - 140 - 170	- 115 - 150 - 170	155 115	- 350 - 1000	- 240 - 580	1 0.5	— 1.0 0.5	(Inmar	mum 1,1949)
4-	05 - 04 -	.074 .062 .053 .044	- 1/16		coarse	- 200 - 230 - 270 - 325 - 400	- 200 - 250 - 270 - 325	080	- 2900	– 1700	= 0.329 -	- 0.5	ing	
5-	03 —	.037	- 1/32		medium	1					— 0.1 - 0.085	_	beginning velocity	and c
6-	02 —	.016	- 1/64	SILT		igs differ scale	by sca	ngular to sand		ular to ind	- 0.023	= 6ռrղv)	veen the	asured, rs.
7-	01 	.008	- 1/128		fine		penings differ from phi mm	subangular uartz sand n)		o subangular quartz sand	— 0.01 -0.0057	Law (R=	between	eigin abo is meast r factors.
8-	1	.004	- 1/256		very fine Clay/Silt	sieve openir from phi mm	Sieve openings as 2% from ph	ies to su nded qua (in mm)		_ ^ _	- 0.0014 0.001	Stokes La	Note: The relation between the beginning of traction transport and the velocity depends on the height above the bottom that the velocity is measured, and on other factors.	
9-	003 002 <i>-</i> -	.002	- 1/512	CLAY	Clay/Silt boundary for mineral analysis	Some	Note: Sieve much as 2°	Appli brour		e: Applies to subrounded	-0.00036	Sto	Note: The relation between the	at the v
 ₁₀	001 —	.001-	1/1024	S		Note:	Note: much	Note: su		Note: sul	— 0.0001		Note	the