Sieves (M92/E11) vs. Grain Size Classification

E11 Sieves Sizes		USCS (D2487/D422)		AASHTO (M145/T88)		USDA (Soil Survey Manual)		USGS/ Udden-Wentworth		International (ISO 14688-1)	
Metric (mm)	Size (in.) or No.										
		Boulder		Boulder & Cobble		Boulder		Boulder		L	
630						Stone				Boulder	
600											
300		Cobble				Cobble		Cobble		Cobble	
256											
250											
200											
75	3	Gravel	C	Gravel		Gravel/ Pebble	C	Gravel/ Pebble	VC	Gravel	C
63	2 1/2								C		
50	2										
37.5	1 1/2								M		M
31.5	1 1/4										
25.0	1								F		
19.0	¾		F				M				F
16.0	5/8										
12.5	1/2										
9.5	3/8										
8.0	5/16										
6.3	1/4 (No. 3)										
4.75	No. 4	Sand	C				F	(Granule)	VF		
4.00	5										
2.36	8										
2.00	10		M	Sand	C	Sand	VC	Sand	VC	Sand	C
1.7	12								C (T)		
1.18	16										
1.00	18						C		C (U)		
0.850	20										
0.600	30										
0.500	35						M		M		M
0.425	40										
0.300	50										
0.250	60						F		F		
0.212	70		F		F						F
0.150	100										
0.125	120										
0.106	140						VF		VF		
0.075	200	Silt		Silt		Silt		Silt	C	Silt	C
0.063	230										
0.050	270								M		M
0.031	450										
0.020	635								F		
0.016									VF		
0.008											
0.006											
0.005		Clay									F
0.004								Clay			
0.002				Clay		Clay		C/S boundary for mineral analysis		Clay	
0.001											
0.0002		Colloid		Colloid			F	Colloid			