

**CEEN3320 - S11 - Lab4 - Aggregate Gradation Data**

Sieve Number	Sieve Size,mm	Crushed Gravel		Crushed Rock		Mfg'd Sand		Nat Sand	
		Sieve, g	Sieve+Agg, g	Sieve, g	Sieve+Agg, g	Sieve, g	Sieve+Agg, g	Sieve, g	Sieve+Agg, g
1-1/2"	37.5	580	580	430.6	430.6	496.7	496.7	559.4	559.4
1"	25	622.1	644.9	533.6	533.6	558.4	558.4	482.9	482.9
3/4"	19	548.7	639.7	546.2	546.2	493.2	493.2	538.9	538.9
1/2"	12.5	579.6	748.0	470.1	511.6	539.6	539.6	448.7	448.7
3/8"	9.5	411.6	484.4	511.3	609.0	386.6	386.6	572.1	574.5
No. 4	4.75	407.7	487.3	520.6	719.6	407.0	432.7	436.3	473.5
No. 8	2.36	483.6	498.6	602.8	684.7	568.4	725.0	488.3	533.5
No. 16	1.18	540.7	546.2	567.5	603.2	523.5	654.0	554.5	601.7
No. 30	0.600	583.7	583.7	461.8	486.5	497.8	563.1	596.6	711.8
No. 50	0.300	467.2	467.2	513.6	539.9	544.4	580.4	423.4	523.4
No. 100	0.150	423.7	423.7	605.1	610.4	615.3	621.2	520.4	553.6
No. 200	0.075	492.3	492.3	398.6	406.0	532.9	536.5	411.1	416.7
Pan		520.7	520.7	623.3	629.1	594	620.6	590.8	604.8
Gsb				2.695		2.715			
Gsa				2.795		2.798			

Weight, in grams, of fine aggregate specific gravity vessel filled with water at temperature T (°C) =  $435+1014*(1.000002+0.000025*T-0.000006*T^2)$