

Calculator to Estimate Excess Fill and Materials to Buy

Design Factor	Example	Your Calculation
EXCESS FILL		
Max Digging Depth	24 inches	
Ponding Depth	6 inches	
Top Soil Depth	6 inches	
Subsoil Depth	12 inches	
Divide Subsoil Depth by 2, and then divide this by 12	[12 inches/2]/12 X=0.5 feet	
Garden Surface Area	64 square feet = Y	
Z = Multiply X and Y and divide the product by 27	[(64)(0.5)]/27 = 1.2 cubic yards	
Note: About 6 Wheelbarrow loads per cubic yard	About 7 loads of subsoil to dispose of elsewhere on your lawn	
MULCH CALCULATOR		
Garden Surface Area	64 square feet	
1 cubic yard for each 64 square feet of garden area	1 cubic yard of mulch to order ¹	
SAND CALCULATOR		
Take Z and multiply by 1.4	1.7 tons of sand to order (round up to 2 tons)	
RIVER STONE CALCULATOR		
Assume 0.2 tons per inlet	0.2 tons (400 pounds) ¹	# Inlets tons
¹ Most bulk orders must be done in one cubic yard or ton increments. Last time I checked, the delivered price of sand is about \$45, double shredded hardwood mulch costs around \$35 a cubic yard and river stone runs \$100/ton. You may want to budget about \$250 for plants, the connector pipe and other stuff.		