

Mulch Calculation Worksheet

Exam

This worksheet may be used to calculate the area to be mulched and the amount of mulch required for a particular application and to complete the the Mulching (484) Jobsheet. There are two tables available for calculating the AREA to be mulched depending how the mulch is to be applied and four are available to calculate the total AMOUNT of mulch required depending on the type to be used. Users need to enter data in yellow fields and the area or amount will be calculated automatically.

AREA to be Mulched

	Land Unit	Land Unit	Total	Item
Land Unit No.:	1	10A		land unit no.

If Applying Mulch Only Around Base of Trees

Radius around each tree to be mulched in feet:	2.0	2.0		feet radius
Square feet of area to be mulched per tree: (Pi (3.142) X radius X radius)	12.57	12.57		sq. ft. / tree
Total number of trees to be mulched / land unit:	2,000	400	2,400	total trees
Total square feet to be mulched: (sq. ft. / tree X # of trees)	25,136	5,027	30,163	total sq. ft.
Total acres to be mulched: (total sq. ft. / 43,560 sq. ft. per acre)	0.577	0.115	0.692	total acres

If Applying Mulch Between or Around Rows of Crops

Width of area to be mulched in feet				feet wide
Length of each row to be mulched in feet				feet long
Total number of rows to be mulched				rows
Total square feet to be mulched: (W x L x # of rows)				total sq. ft.
Total acres to be mulched: (total sq. ft. / 43,560 sq. ft. per acre)				total acres

AMOUNT of Mulch Required

If Using Loose Materials Sold by the Cubic Foot or Cubic Yard (i.e., green waste, wood bark, gravel)

Type of mulch material to be used:	green waste	green waste		material
Size of treatment area in square feet:	25,136	5,027	30,163	total sq. ft.
Minimum depth of mulch material required to achieve purpose (inches):	4.0	4.0		inches deep
Total cubic feet of material required: (total sq. ft. X (inches deep / 12 inches per foot))	8,378.67	1,675.73	10,054.40	total cu ft
Total cubic yards of material required: (total cubic feet / 27 cubic feet per cubic yard)	310.32	62.06	372.39	total cu yds

If Using Loose Materials Sold by the Pound or Bale (i.e., straw, hay)

Type of mulch material to be used:				material
Size of treatment area in square feet:				total sq. ft.
Minimum depth of mulch material required to achieve purpose:				inches deep
Tons per acre to achieve required depth:				tons per acre
Total tons of material required: ((total sq. ft. / 43,560) X tons per acre)				total tons
Estimated lbs. per unit (bale):				lbs. per unit
Total units material required: ((total tons X 2,000) / lbs. per unit)	#DIV/0!	#DIV/0!	#DIV/0!	total units

	Land Unit	Land Unit	Total	Item
Land Unit No.:				land unit no.

AMOUNT of Mulch Required (continued)

**If Using Manufactured Materials Sold by the Linear Feet
(i.e., biodegradable plastic film)**

Type of mulch material to be used:				material
Total square feet to be mulched:				total sq. ft.
Width of mulch material in feet:				ft. width
Linear feet of mulch material required:				linear feet
Layers required to achieve primary purpose:				layers
Total linear feet of mulch material required for treatment area:				total linear feet

**If Using Manufactured Materials Sold by the Square Foot
(i.e., biodegradable plastic mats and woven barriers)**

Type of mulch material to be used:				material
Total square feet to be mulched:				total sq. ft.
Layers required to achieve primary purpose:				layers
Total linear feet of mulch material required for treatment area:				total sq. ft.