



**GRAFF'S
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MEASURING YOUR PLANNED LAWN AND ORDERING THE SOD

With a tape measure, measure the various areas of your planned lawn. Include these measurements on a sketch of the areas, with the length, width, and any irregular features. Using the formulas illustrated here, determine the square footage of sod needed.

Mark any areas that require special attention, such as steep area (erosion control), high traffic areas and heavily shaded areas.

Once you have this information, contact Graff's Turf Farms and we will answer your questions and help you complete the sod order.

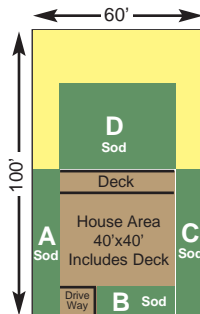
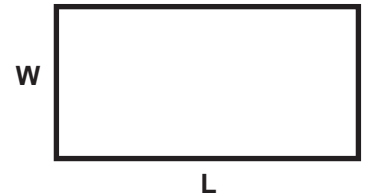
Measuring square footage of regular areas:

To make the calculation simple, often this total can be reduced to a series of squares and rectangles. Using the following formula makes the task easy and gives you an accurate count of square feet needed:

1) Square or Rectangle

Formula: Area = L x W

Example: A = 90' x 50' = 4,500 sq. ft.



The following illustration reduces the areas to be sodded around the house (A, B, C) and the backyard (D) to rectangles.

Area A = 50' x 10' = 500 sq.ft.; Area B = 30' x 10' = 300 sq.ft.;
Area C = 50' x 10' = 500 sq. ft.; Area D = 40' x 30' = 1,200 sq. ft.

**Sod Needed = A (500 sq. ft) + B (300 sq. ft) + C (500 sq. ft)
+ D (1,200 sq. ft.) = 2,500 sq. ft.**

Measure square footage of irregular areas:

Typically, you can reduce any irregularly shaped turf area to one or more geometric figures. You can then calculate the area of each figure and add the areas to obtain the total area. Irregular areas could include a pool, pond, garden, flower bed, tree area and so forth.

2) Ovals and Circles

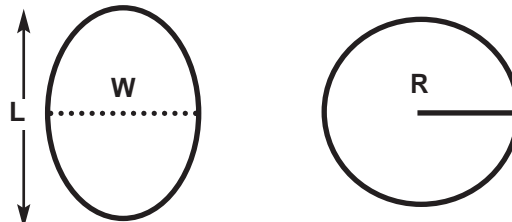
Oval Formula: Area = 0.8 L x W

L = Length; W = Width at midpoint

Example: A = 0.8 x 60' x 40' = 1,920 square feet (within 5% accuracy)

Circle Formula: Area = piR² pi = 3.14; R = Radius

Example: A = 3.14 x 30' x 30' = 2,826 sq. ft.



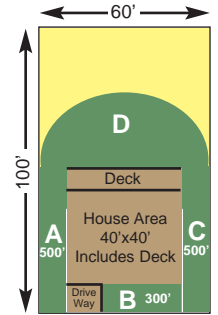
Proud Sod Providers for:

Denver Broncos.....Invesco Field
Colorado Rockies.....Coors Field
CU Buffaloes.....Folsom Field
KC Royals.....Kauffman Stadium
St. Louis Cardinals...Busch Stadium
Colorado Rapids....Dick's Sporting Goods Park



Example: The half circle backyard has a radius of 30'.
A complete circle would be $3.14 \times 30' \times 30' = 2,826 \text{ sq. ft.}$ Half would be 1,413 sq. ft.

Sod Needed = A+B+C = 1,300 sq.ft + D (1,413 sq. ft.) = 2,713 sq. ft.

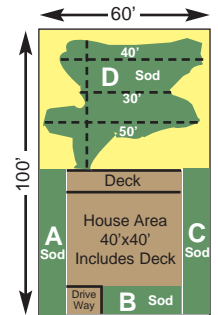


3) Irregular Shapes

Formula: Measure the length of the longest axis across the area. Every 10 feet along the length, measure the width of the area at right angles to the length line. Total all widths and multiply by 10.

Example: $A = (40' + 30' + 50') \times 10 = 1,200 \text{ sq. ft.}$

Sod Needed = A+B+C (1,300 sq. ft.) + D (1,200 sq. ft.) = 2,500 sq. ft.



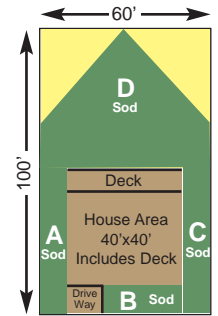
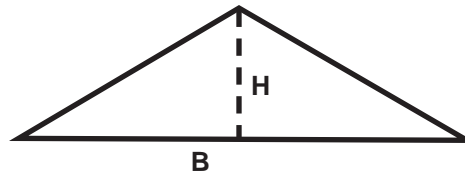
4) Triangle

Formula: $\text{Area} = 0.5 \times B \times H$

Example: $A = 0.5 \times 90' \times 50' = 2,250 \text{ sq. ft.}$

Example: $\text{Area } A = 0.5 \times 25' \times 35' = 437.5 \text{ sq. ft} \times 2 \text{ (triangles)} = 875 \text{ sq. ft.}$
Yard area "D" is $60' \times 40' = 2,400 \text{ sq. ft.}$ Subtract the 2 triangles (875 sq. ft.).
 $D = 2,400 \text{ sq. ft.} - 875 \text{ sq. ft.} = 1,525 \text{ sq. ft.}$

Sod Needed = A+B+C (1,300 sq. ft.) + D (1,525 sq. ft.) = 2,825 sq. ft.



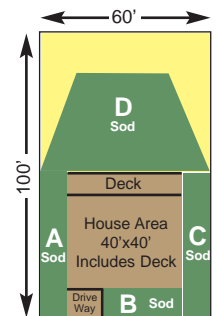
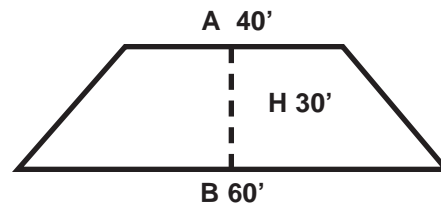
5) Trapezoid

Formula: $\text{Area} = 0.5 \times (A + B) \times H$

Example:

$\text{Area} = 0.5 \times (40' + 60') \times 30' = 1,500 \text{ sq. ft.}$

Sod Needed = A + B + C (1,300 sq. ft.) + D (1,500 sq. ft.) = 2,800 sq. ft.



6) Unusual Shapes

Formula: Divide area into sections of regular geometric shapes, calculate area of individual sections, then total.

Example: Triangle: $0.5 \times 15' \times 30' = 225 \text{ sq. ft.}$

Rectangle: $30' \times 45' = 1,350 \text{ sq. ft.}$

Circle: $3.14 \times 9 \times 9 = 254 \text{ sq. ft.} / 2 = 127 \text{ sq. ft.}$

Sod Needed = 225 sq. ft + 1,350 sq. ft + 127 sq. ft = 1,702 sq. ft.

