

# MEASURING PLANNED LAWN & ORDERING SOD



With a tape, 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. Multiply the length by the width to get the total square footage. When you order you can tell us how many square feet you need. If you need assistance please call so that we can help you get the correct amount.

## How to measure the square footage of regular areas to be sodded:

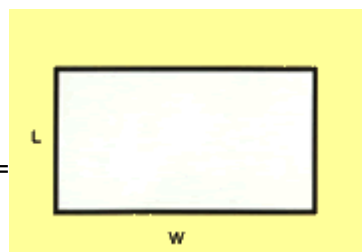
Before ordering sod for your new lawn, you must figure the square footage of sod needed. To make the calculation simple, often this total can be reduced to a series of squares and rectangles. Using the following formula makes the task easy and gives you an accurate count of square feet needed:



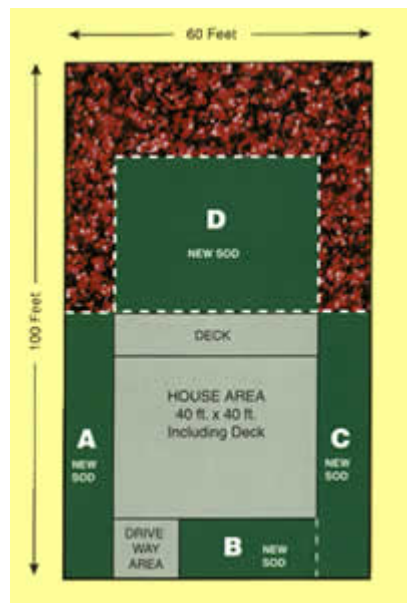
### 1. Square or Rectangle

**Formula :** Area = L X W

**Example :** A= 90 feet x 50 feet = 4,500 square feet



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



**Example :** 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' = 1200 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.

## How to measure the square footage of irregular areas to be sodded:

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.

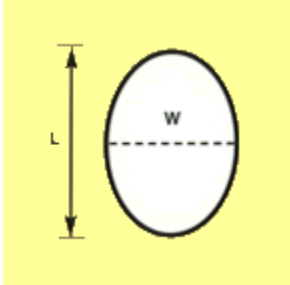
## How to measure the square footage of Ovals, Egg Shapes, and Circles:

**Formula :** Area = 0.8 L X W

L= Length

W= Width at midpoint

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

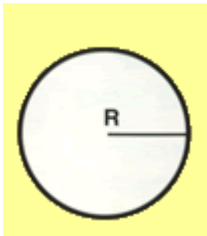


**Formula :** Area = piR<sup>2</sup>

pi=3.24

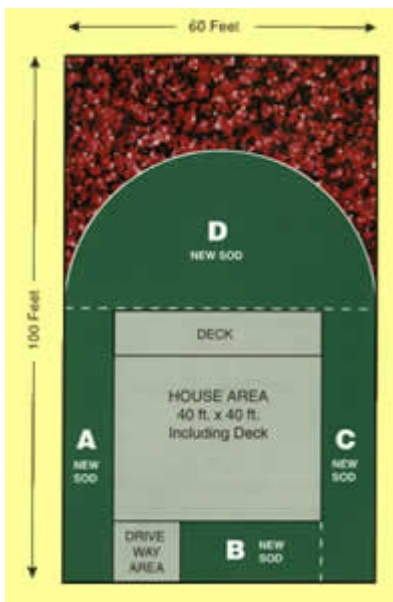
R=radius

**Example :** A= 3.14 x 30 feet x 30 feet = 1,413 square feet



The half circle backyard has a radius of 30 feet. A complete circle would be 3.14 x 30ft x 30ft = 2,826 sq ft. half would be 1,413 sq ft.

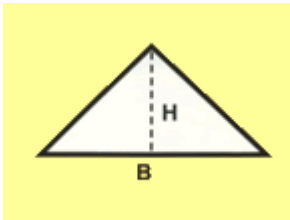
**Sod Needed** = A+B+C = 1300 sq.ft + D(1,413 sq. ft.) = 2,713 sq. ft.



**How to measure the square footage of triangle areas to be sodded:**

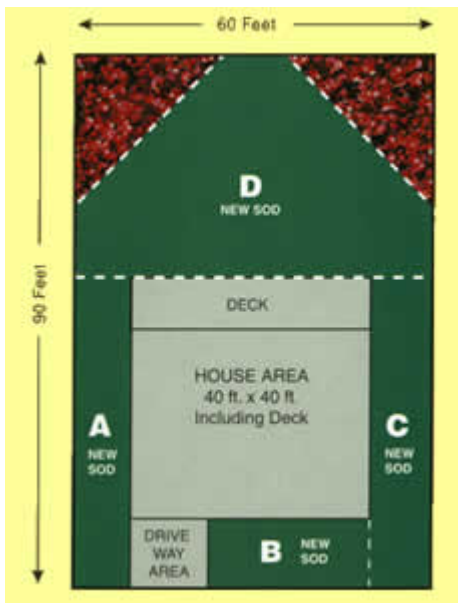
**Formula :** Area = 0.5 x B x H

**Example :** A= 90 feet x 50 feet = 4,500 square feet



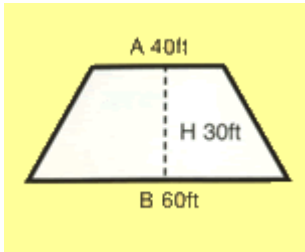
**Example :** Area A = 0.5 x 25 ft. x 35 ft. = 312.5 sq. ft x2 (triangles) =625 sq.ft. Yard area "D" is 60 ft. x 40 ft. = 2,400 sq. ft. Subtract the 2 triangles (625 sq. ft.). D=2,400 sq. ft. - 625 sq. ft = 1,775 sq. feet.

**Sod Needed** = A+B+C (1,300 sq. ft.) + D (1,775 sq. ft) = 3,075 sq. ft.



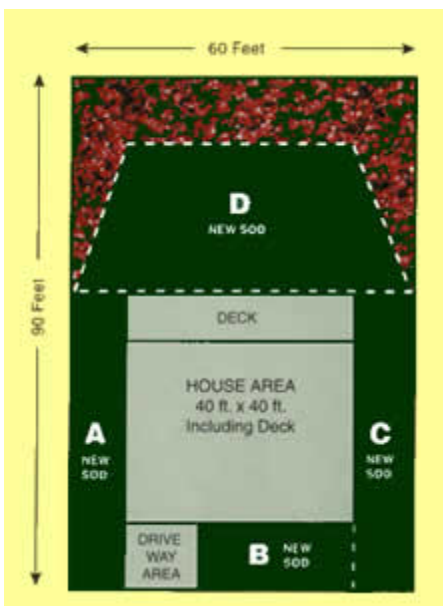
**How to measure the square footage of trapezoid areas to be sodded:**

**Formula :** Area = 0.5 x (A + B) x H



**Example :** Area = 0.5 x (A + B (100 ft.) x H (30 ft.) = 1,500 sq. ft.

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

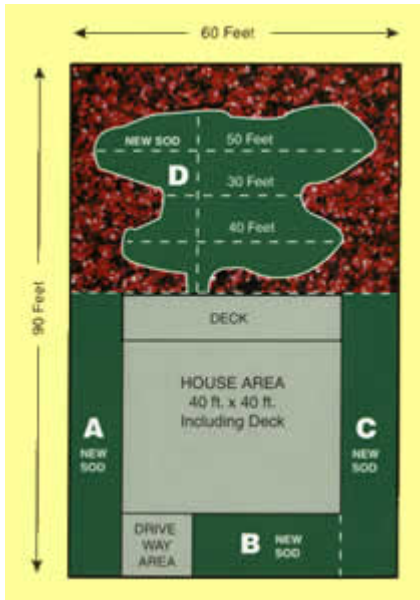


**How to measure the square footage of irregular areas to be sodded:**

**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.

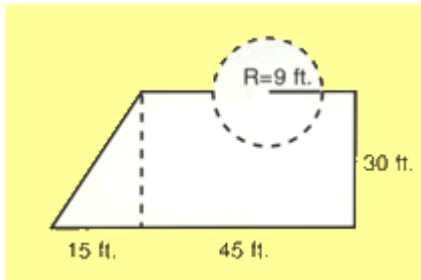
**Example :**  $A = (40 \text{ feet} + 30 \text{ feet} + 50 \text{ feet}) \times 10 = 1200 \text{ sq. ft.}$

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



**How to measure the square footage of unusual shaped areas to be sodded:**

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



**Example :**

Triangle:  $0.5 \times B (15 \text{ ft.}) \times H (30 \text{ ft.}) = 225 \text{ sq. ft.}$

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

Circle:  $3.14 \times 9 \times 9 = 258 \text{ sq. ft.} / 2 = 127 \text{ sq. ft.}$

**Sod Needed** =  $225 \text{ sq. ft.} + 1,350 \text{ sq. ft.} + 127 \text{ sq. ft.} = 1,702 \text{ sq. ft.}$

