

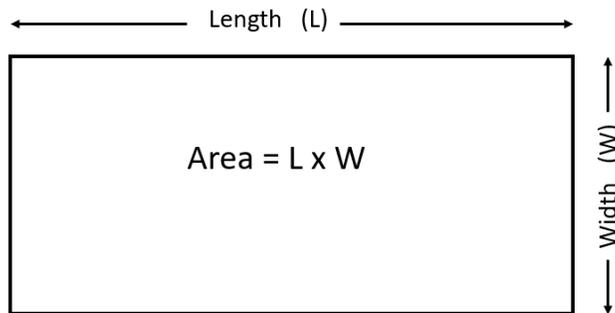
Why Know the Size of the Area to Be Treated?

To ensure accurate applications, you need to be able to calculate the size of the area to be treated. It is easier to determine the size of a rectangular or circular area than it is to determine the size of an irregularly shaped site. In the following examples, each calculation includes converting the square footage to acres by dividing by 43,560 sq. ft. per acre.

Rectangles and Squares

Calculate the area of a rectangle or square by multiplying the length (L) by the width (W).

$$\text{Area in acres} = \frac{\text{L in feet} \times \text{W in feet}}{43,560 \text{ sq ft per acre}}$$



You measure a rectangular field and find it to be 100 feet long and 800 feet wide. How many acres is it?

$$\frac{100 \text{ ft} \times 800 \text{ ft}}{43,560 \text{ sq ft per acre}} = \frac{80,000 \text{ sq ft}}{43,560 \text{ sq ft per acre}} = 1.8 \text{ acres}$$

Practice:

- 1. What is the area of a field in acres that is 1,000 ft. long and 305 ft. wide? 1 acre = 43,560 sq. ft.**
- 2. What is the area of a field (in acres) that is 1,320 ft by 1,320 ft?**
- 3. What is the area of a sports field that is 1,000 ft by 200 ft?**

Answers:

- 1. What is the area of a field in acres that is 1,000 ft. long and 305 ft. wide? 1 acre = 43,560 sq. ft.**

$$\frac{305 \text{ ft.} \times 1,000 \text{ ft.}}{43,560 \text{ sq. ft. per acre}} = \frac{305,000 \text{ sq. ft.}}{43,560 \text{ sq. ft. per acre}} = 7 \text{ acres}$$

- 2. What is the area of a field (in acres) that is 1,320 ft by 1,320 ft?**

$$\frac{1,320 \text{ ft.} \times 1,320 \text{ ft.}}{43,560 \text{ sq. ft. per acre}} = \frac{1,742,400 \text{ sq. ft.}}{43,560 \text{ sq. ft. per acre}} = 40 \text{ acres}$$

- 3. What is the area of a sports field (in acres) that is 1,000 ft by 200 ft?**

$$\frac{1,000 \text{ ft.} \times 200 \text{ ft.}}{43,560 \text{ sq. ft. per acre}} = \frac{200,000 \text{ sq. ft.}}{43,560 \text{ sq. ft. per acre}} = 4.6 \text{ acres}$$