

## BEST PRODUCTS APPLICATION RATES

### Turf Supreme® 15-5-7 with Best Cote (1557)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Best Cote to apply per 1,000 sq. ft.	Lbs. of Best Cote to apply per acre
Turfgrass:*			
Recommended rate	.50	3.1	138
	.75	4.7	206
	1.00*	6.2*	275*

### Turf Supreme® 16-6-8 (1668)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Turf Supreme to apply per 1,000 sq. ft.	Lbs. of Turf Supreme to apply per acre
Turfgrass:*			
Recommended rate	.50	3.1	138
	.75	4.7	206
	1.00*	6.2*	275*

### Iron Supreme 16-4-4 Plus 3% Iron

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Iron Supreme to apply per 1,000 sq. ft.	Lbs. of Iron Supreme to apply per acre
Turfgrass:*			
Recommended rate	.50	3.1	138
	.75	4.7	206
	1.00*	6.2*	275*

### All Season 19-6-12 with Polyon (19612)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of All Season to apply per 1,000 sq. ft.	Lbs. of All Season to apply per acre
Turfgrass:*			
Recommended rate	1.00	5.3	230
	1.25	6.6	290
	1.50	7.9	345

### Nitra King® 22-3-9 (2239)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Nitra King to apply per 1,000 sq. ft.	Lbs. of Nitra King to apply per acre	Lbs. of actual Potassium applied per 1,000 sq. ft.
Turfgrass:*				
Recommended rate	.50	2.3	100	.21
	.75	3.4	150	.31
	1.00*	4.5*	200*	.41*

### Autumn K 22-4-22 with Polyon® 44 (22422)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Autumn K to apply per 1,000 sq. ft.	Lbs. of Autumn K to apply per acre
Turfgrass:*			
Recommended rate	1.00	4.5	196
	1.25	5.7	248
	1.50	6.8	296

### Turf Gold® 22-5-5 with TriKote (2255)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Turf Gold to apply per 1,000 sq. ft.	Lbs. of Turf Gold to apply per acre
	1.00	4.8	210
	1.25*	5.7*	250*
	1.50	7.1	310

\*Recommended rates

### Poly Supreme™ 23-5-10 with Polyon 42 (23510)

	Lbs. of actual NPK desired per 1,000 sq. ft.	Lbs. of Poly Supreme to apply per 1,000 sq. ft.	Lbs. of Poly Supreme to apply per acre	Lbs. of actual Potassium applied per 1,000 sq. ft.
	1.00	4.3	190	.43
	1.25	5.4	240	.54
	1.50	6.5	290	.65
	2.00	8.6	380	.86

### Turf K® 24-3-10 with TriKote® (24310)

	Lbs. of actual NPK desired per 1,000 sq. ft.	Lbs. of Turf K to apply per 1,000 sq. ft.	Lbs. of Turf K to apply per acre	Lbs. of actual Potassium applied per 1,000 sq. ft.
	1.00	4.2	180	.42
	1.25	5.2	230	.52
	1.50	6.3	275	.63

### Super Turf 25-5-5 with Polyon 43 (2555)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Super Turf to apply per 1,000 sq. ft.	Lbs. of Super Turf to apply per acre
	1.00	4.0	175
	1.25	5.0	275
	1.50	6.0	260

### 6-20-20 XB®

	Lbs. of actual P&K desired per 1,000 sq. ft.	Lbs. of 6-20-20 XB to apply per 1,000 sq. ft.	Lbs. of 6-20-20 XB to apply per acre	Lbs. of actual Potassium applied per 1,000 sq. ft.
	1.5	7.5	325	0.4
	2.0	10	435	0.6
	3.0	15	650	0.9

### Triple Twelve 12-12-12 (121212)

	Lbs. of actual NPK desired per 1,000 sq. ft.	Lbs. of Best 12-12-12 to apply per 1,000 sq. ft.	Lbs. of Best 12-12-12 to apply per acre
	.50	4.1	180
	.75	6.2	270
	1.00*	8.3*	360*

### Triple Pro™ 15-15-15 (151515)

	Lbs. of actual NPK desired per 1,000 sq. ft.	Lbs. of Triple Pro to apply per 1,000 sq. ft.	Lbs. of Triple Pro to apply per acre
	.50	3.3	145
	.75	5.0	217
	1.00*	6.6*	287*

### Endure 15-15-15 with Polyon 43 (151515)

	Lbs. of actual NPK desired per 1,000 sq. ft.	Lbs. of Triple Pro to apply per 1,000 sq. ft.	Lbs. of Triple Pro to apply per acre
	1.00	6.6	285
	1.25	8.3	360
	1.50	10.0	435

### Ammonium Phosphate 16-20-0 (16200)

	Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of 16-20-0 to apply per 1,000 sq. ft.	Lbs. of 16-20-0 to apply per acre	Lbs. of actual Phosphate applied per 1,000 sq. ft.
	.50	3.1	136	.62
	.75	4.7	205	.94
	1.00*	6.2*	275*	1.2*

\* Recommended rate

### Best-Paks 20-10-5 with Polyon 40 (Bestpak)

	3.8 L (1 gal.)	19 L (5 gal.)	57 L (15 gal.)
	1 pak	3 paks	9 paks

### Best-Tabs® 20-10-5 (Besttab)

Use as planting tablets:  
 1 gal.                      5 gal.                      15 gal.  
 21 gram                  1 tablet                  3 tablets                  9 tablets

Use in feeding established plants: 1 tablet for fair to good soil, 2 tablets in sandy or poor soil

### Triple Superphosphate 0-45-0

	Lbs. of actual Phosphorus desired per 1,000 sq. ft.	Lbs. of Best 0-45-0 to apply per 1,000 sq. ft.	Lbs. of Best 0-45-0 to apply per acre
	1	2.25	100
	2*	4.50*	200*
	3	6.25	300
	4	9.00	

\* Recommended rate

### Super Iron® 9-9-9 (999) Plant Food with 11% Iron

	Lbs. of actual N,P,K desired per 1,000 sq. ft.	Lbs. of 9-9-9 to apply per 1,000 sq. ft.	Lbs. of 9-9-9 to apply per acre	Lbs. of actual Iron applied per 1,000 sq. ft.
	.50	5.5	240	.61
	.75	8.3	360	.92
	1.00*	11.1*	480*	1.22*

\* Recommended rate

## BEST PRODUCTS APPLICATION RATES

### Pro Prills® 12-8-16 with 3% Iron (12816)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Pro Prills to apply per 1,000 sq. ft.	Lbs. of Pro Prills to apply per acre	Lbs. of actual Potassium applied per 1,000 sq. ft.
.50	4.2	180	0.7
.82*	6.9*	300*	1.1*
1.00	8.3	360	1.3

\* Recommended rate

### Apex 14-14-14 Landscape Color (141414)

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
N/A	6"	2 g	4 g	7 g
1 gallon	N/A	3 g	6 g	10 g
2 gallons	8"	6 g	12 g	20 g
3 gallons	10"	16 g	24 g	32 g
5 gallons	12"	24 g	32 g	40 g

### Ammonium Sulfate 21-0-0 (2100)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of 21-0-0 to apply per 1,000 sq. ft.	Lbs. of 21-0-0 to apply per acre	Lbs. of actual Sulfur applied per 1,000 sq. ft.
.50	2.3	100	.55
.75	3.5	155	.84
1.00*	4.7*	210*	1.10*

\* Recommended rate

### Nitroform™ 38-0-0 (3800)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Nitroform to apply per 1,000 sq. ft.	Lbs. of Nitroform to apply per acre
2	5.2	226
3*	7.8	340*
4	10.4	453

\* Recommended rate

### TriKote 42-0-0 (4200)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of SCU to apply per 1,000 sq. ft.	Lbs. of SCU to apply per acre
.75	1.9	83
1.00	2.6	115
1.50	3.6	155
2.00	5.3	230

\* Recommended rate

### Micro Green® 10 \* 10-4-16 (10416)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Micro Green 10-4-16 to apply per 1,000 sq. ft.	Lbs. of Micro Green 10-4-16 to apply per acre
1/3	3.3	.5
Ω	5.0	.8
3/4	7.5	1.2

### Micro Green® 15 \* 15-5-8 (1558)

Lbs. of actual Nitrogen desired per 1,000 sq. ft.	Lbs. of Micro Green 15-5-8 to apply per 1,000 sq. ft.	Lbs. of Micro Green 15-5-8 to apply per acre
1/3	2.2	.17
Ω	3.3	.26
æ	5.0	.40

### Greenskote® 19-3-19 Micro-Prills with Polyon (19310)

Lbs. of actual Nitrogen & Potash desired per 1,000 sq. ft.	Lbs. of Greenskote 19-3-19 to apply per 1,000 sq. ft.
.33	1.7
.50	2.6
.75	3.9

### Sulfate of Potash 0-0-50 (0050F or 0050G)

Lbs. of actual Potassium desired per 1,000 sq. ft.	Lbs. of 0-0-50 to apply per 1,000 sq. ft.	Lbs. of 0-0-50 to apply per acre
0.5	1.0	44
1.0	2.0	90
1.5	3.0	130
2.0	4.0	175

### Apex 14-14-14 Bloom

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
1 gallon	6"	4 g	7 g	10 g
2 gallons	8"	8 g	16 g	24 g
3 gallons	10"	13 g	27 g	40 g
5 gallons	12"	22 g	43 g	64 g
7 gallons	14"	30 g	60 g	90 g
10 gallons	16"	50 g	100 g	150 g
15 gallons	18"	70 g	140 g	210 g

### Apex 21-5-12 Tree & Shrub

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
1 gallon	6"	4 g	8 g	12 g
2 gallons	8"	9 g	18 g	29 g
3 gallons	10"	15 g	30 g	45 g
5 gallons	12"	25 g	50 g	75 g
7 gallons	14"	36 g	72 g	108 g
10 gallons	16"	60 g	120 g	180 g
15 gallons	18"	80 g	160 g	240 g

### Apex 23-6-12 Tree & Shrub

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
1 gallon	6"	7 g	10 g	13 g
2 gallons	8"	14 g	21 g	28 g
3 gallons	10"	24 g	36 g	48 g
5 gallons	12"	40 g	60 g	80 g
7 gallons	14"	56 g	84 g	112 g
10 gallons	16"	100 g	150 g	200 g
15 gallons	18"	130 g	190 g	250 g

### Apex 21-5-6 Super Iron Topdress

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
1 gallon	6"	3 g	6 g	9 g
2 gallons	8"	7 g	13 g	19 g
3 gallons	10"	11 g	22 g	33 g
5 gallons	12"	18 g	36 g	54 g
7 gallons	14"	26 g	52 g	78 g
10 gallons	16"	46 g	91 g	136 g
15 gallons	18"	60 g	120 g	180 g

### Apex 13-5-8 Palm Plus

Container Volume (gal.)	Container Diameter (ins)	Grams Topdress per Container Plant Nutrient Requirements		
		Low	Medium	High
1 gallon	6"	7 g	10 g	13 g
2 gallons	8"	15 g	20 g	30 g
3 gallons	10"	25 g	40 g	55 g
5 gallons	12"	40 g	60 g	80 g
7 gallons	14"	55 g	83 g	110 g
10 gallons	16"	95 g	145 g	195 g
15 gallons	18"	130 g	195 g	260 g

## JACKLIN SEED RECOMMENDED APPLICATION RATES

### PRIZE Kentucky Bluegrass Blend

Seeding Rates	Pounds/Acre	Pounds/1,000 sq. ft.
New Establishment	88-132	2-3
Interseeding into Existing Turf	same	same

### Impulse Perennial Ryegrass Blend

Seeding Rates	Pounds/Acre	Pounds/1,000 sq. ft.
New Establishment:	225-450	5-10
Interseeding: 20-50% cover	175-225	4-5
50-75% cover	100-175	2-4
Dormant Bermudagrass Overseeding		
Golf Course Greens	1100-1800	25-40
Golf Course Fairways	450-650	10-15
Athletic Fields and Landscapes	450-650	10-15

### Select 5-Way Blend

Seeding Rates	Pounds/Acre	Pounds/1,000 sq. ft.
New Establishment	175-275	4-6
Interseeding into Existing Turf	same	same

### Surge Perennial Ryegrass and Fine Fescue Blend

Seeding Rates	Pounds/Acre	Pounds/1,000 sq. ft.
New Establishment	250-300	6-7
Interseeding into Existing Turf	same	same
Seed Research of Oregon		

## CONVENIENT CONVERSION FACTORS

MULTIPLY	BY	TO GET	MULTIPLY	BY	TO GET
Pounds	7.080	Grains	Square Inches	0.00094	Square Feet
	453.5924	Ounces	Square Miles	640	Acres
	16	Dram		28,318,400	Square Feet
	0.0805	Tons		3,597,000	Square Yards
Pounds of Water	0.07992	Cubic Feet		0.000266	Acres
	27.68	Cubic Inches	Square Yards	9	Square Feet
	0.1198	Gallons		1.296	Square Inches
Quarts (dry)	0.00129	Bushels	Temperature	1.8	Temperature, °F
	67.30	Cubic Inches	(°C)+17.58		
	0.125	Pecks	Temperature	5/9 or 0.5555	Temperature, °C
	2	Pints (dry)	(°F)-32		
Quarts (liquid)	57.75	Cubic Inches	Ton	907.1849	Kilograms
	0.25	Gallons	Ounces	32.000	Ounces
	0.9463	Liters	Pounds	2.200	Pounds
	32	Ounces (liquid)	Yards	3	Feet
	2	Pints (liquid)		36	Inches
Roofs	18.3	Feet		0.9144	Meters
Square Feet	144	Square Inches		0.000906	Miles
	0.1111	Square Yards			

## TABLE OF EQUIVALENTS FOR LIQUID MEASURE (VOLUME)

(For equivalent amounts, read horizontally in either direction on any given line)

Gallons	Quarts	Pints	Fluid Ounces	Cups	Tablespoons	Teaspoons	Milliliters	Liters
1	4	8	128	16	256	768	3785	3.785
	1	2	32	4	64	192	946	.946
		1	16	2	32	96	473	.473
			1	1/2	2	6	29.6	.030
				1	16	48	239	.239
					1	3	15	.015
							1	.001

## CONVENIENT CONVERSION FACTORS

MULTIPLY	BY	TO GET	MULTIPLY	BY	TO GET
Acres	43,560	Square Feet	Kilometers	3,281	Feet
	4,840	Square Yards		1,000	Meters
Bushels	2,150.42	Cubic Inches		0.0254	Miles
	4	Pecks		1,094	Yards
	64	Pints	Liters	1,000	Cubic Centimeters
	32	Quarts		0.0353	Cubic Feet
Centimeters	0.3937	Inches		61.02	Cubic Inches
	0.01	Meters		0.001	Cubic Meters
	10	Millimeters		0.2642	Gallons
Cubic Feet	1.728	Cubic Inches		2.113	Pints (liquid)
	0.0374	Cubic Yards		1.057	Quarts (liquid)
	7.6863	Gallons		100	Centimeters
	59.64	Pints (liquid)		3.281	Feet
	25.92	Quarts (liquid)		39.37	Inches
Cubic Inches	16.39	Cubic Centimeters		0.001	Kilometers
Cubic Meters	1,000,000	Cubic Centimeters		1,000	Millimeters
	35.31	Cubic Feet		5,094	Yards
	61.023	Cubic Inches		5,280	Feet
	1.368	Cubic Yards		328	Roofs
	264.2	Gallons		1,760	Yards
	2.113	Pints (liquid)		86	Feet per Minute
	1.057	Quarts (liquid)		1,487	Feet per Second
Cubic Yards	27	Cubic Feet		86	Feet per Second
	46,656	Cubic Inches		60	Miles per Hour
	0.7646	Cubic Meters		437.5	Ounces
	260	Gallons		26.3496	Ounces
	1,616	Pints (liquid)		0.0625	Pounds
	807.9	Quarts (liquid)		1.806	Cubic Inches
Feet	30.48	Centimeters		0.0009125	Gallons
	12	Inches		29.573	Milliliters (cubic centimeters)
	3.048	Meters		0.0625	Pints (liquid)
	1/3 or 0.33333	Yards		0.03125	Quarts (liquid)
Feet per minute	0.01667	Feet per second		0.0584	Grains per U.S.
	0.01133	Miles per hour		0.001	Gallon
Gallons	3.785	Cubic Centimeters		8.345	Pounds per Liter
	0.1337	Cubic Feet			Pounds per Million
	231	Cubic Inches		0.26	Bushels
	128	Ounces (liquid)		527.605	Cubic Inches
	9	Pints (liquid)		16	Pints (dry)
	4	Quarts (liquid)		8	Quarts (dry)
Gallons of Water	8.3453	Pounds of Water		0.019625	Bushels
Grains	0.0648	Ounces		33.6803	Cubic Inches
	15.43	Grains		0.0625	Pecks
	0.001	Kilograms		0.5	Quarts (dry)
	1,000	Milligrams		28.675	Cubic Inches
	0.0383	Ounces		0.125	Gallons
Grains per Liter	1,000	Parts per Million		0.4732	Liters
Inches	2.54	Centimeters		16	Ounces (liquid)
	0.06330	Feet		0.5	Quarts (liquid)
	0.02778	Yards			
Kilograms	1,000	Grams			
	2.205	Pounds			

## CONVERSION TABLE For Smaller Areas

RATE PER ACRE	RATE PER 1,000 SQUARE FEET	RATE PER 100 SQUARE FEET
<b>LIQUID MATERIALS</b>		
1 pt.	1/4 tbsp.	1/4 tsp.
1 qt.	1 1/4 tbsp.	1 1/4 tsp.
1 gal.	6 tbsp.	2 tsp.
2 1/2 gal.	4 1/2 pts.	1 cup
5 1/2 gal.	4 1/2 qts.	1 pt.
7 1/2 gal.	6 1/2 qts.	1 1/2 pts.
10 gal.	9 qts.	1 qt.
<b>DRY MATERIALS</b>		
1 lb.	2 1/4 tbsp.	1 1/4 tsp.
3 lbs.	2 1/4 tbsp.	1 1/4 tsp.
4 lbs.	3 tbsp.	1 tsp.
5 lbs.	4 tbsp.	1 1/2 tsp.
6 lbs.	4 1/2 tbsp.	1 1/2 tsp.
8 lbs.	2 1/2 cup	1 3/4 tsp.
10 lbs.	1/2 cup	2 tsp.
100 lbs.	2 1/4 lbs.	1/2 lb.
125 lbs.	2 1/4 lbs.	1/2 lb.
150 lbs.	3 1/4 lbs.	1/2 lb.
175 lbs.	4 lbs.	2/5 lb.
200 lbs.	4 1/4 lbs.	1/2 lb.
225 lbs.	5 lbs.	1/2 lb.
250 lbs.	5 1/4 lbs.	3/5 lb.
275 lbs.	6 1/4 lbs.	3/5 lb.
300 lbs.	7 lbs.	1/2 lb.

## HOW TO MEASURE AN AREA

### ELLIPSE

If the geometric shape resembles an ellipse rather than a circle, the formula  $A = 0.7854 \times a \times b$  is used, with  $a$  representing the length of the ellipse and  $b$  the shorter length or what may be considered its width.

Formula:  
 $A = 0.7854 \times a \times b$ , where  
 $a$  = length of the ellipse, and  
 $b$  = shorter dimension (width)

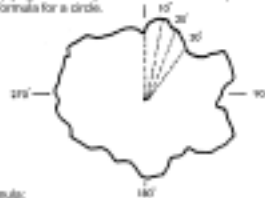
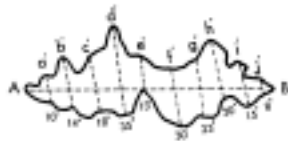
Example:  $a = 15$  ft.  
 $b = 8$  ft.  
 $A = 0.7854 \times 15 \times 10 = 58.9$  sq. ft.



### IRREGULARLY-SHAPED AREA

**Method I.** Determination of a very irregularly shaped area can be obtained by establishing the longest line possible lengthwise through the center of the area. Numerous lines are then established perpendicular to this center line. The total number of lines will depend upon how irregular the shape of the area may be. The more irregular it is, the more lines should be drawn. From the average length of all these lines, the width of the area is determined and the area calculated as a rectangle.

**Method II.** Another method for determining the size of an irregularly-shaped area, a golf green, for example, is to establish a point as near to the center of the area as can be estimated. From this point, as with a compass, distances for each 10-degree increment are measured to the edge of the irregularly shaped green. Then, the 36 measurements taken completely around the central point are averaged. The idea is to obtain an average measurement, and that measurement becomes the radius of the circle. The diameter (D) of the circle is found by multiplying its radius by 2. The area then is computed using the formula for a circle.



Formula:  
 $A = a \times b$ , where  
 $a$  = distance between A and B, and  
 $b$  = average of all lengths  $a'$  to  $j'$   
 (Lines are drawn perpendicular to  $a$ )

Formula:  
 $A = 0.7854 \times d \times d$ , where  $d$  = average  $r \times 2$

Example:

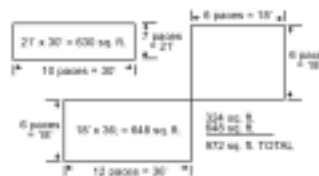
Degrees	Distance (ft.)	
10 (a')	54.8	
20 (b')	43.9	
30 (c')	48.4	
40 (d')	48.9	
330 (j')	41.5	
340 (i')	46.6	
350 (h')	51.2	
360 (g')	56.0	
Total		990.0

Example:  
 $a' = 10$  ft.  
 $b' = 14$  ft.  
 $c' = 20$  ft.  
 $d' = 30$  ft.  
 $e' = 15$  ft.  
 $f' = 30$  ft.  
 $g' = 25$  ft.  $a = 120$  ft.  
 $h' = 20$  ft.  $b = 18.6$  ft.  $(186 \div 10)$   
 $i' = 15$  ft.  $A = 2308.8$  sq. ft.  $(120 \times 19.1)$   
 $j' = 8$  ft.  
 Total 188 ft.

$r = 99 (990 \div 10)$   
 $d = 110 (r \times 2)$   
 $A = 8503.34$  sq. ft.  $(0.7854 \times 110 \times 110)$

## HOW TO MEASURE AN AREA

### A. STEPPING OFF AND CALCULATING APPROXIMATE AREAS



Formula:  
 $A = a \times a$ , where  
 $a$  = height and width  
 Example:  $a = 20$  ft.  
 $A = 20$  ft.  $\times$   $20$  ft. =  $400$  sq. ft.

### B. COMPREHENSIVE CALCULATIONS

\* Figures taken from the University of California Publication 4053.

Areas of turfgrass that require treatment are generally much smaller than those treated in agriculture. So, measurements, calculations, and directions must be followed as closely as possible when applying fertilizer in order to avoid overuse of the material. Here we explain how to calculate area measurements and how to determine fertilizer applications for different size plots when directions are given only for large acreages.

Two determinations must be made before treating any given area: one is the size of the area to be treated, and the other is the precise amount of the fertilizer to be used. Frequently unsatisfactory control is blamed on the fertilizer used, when, in fact, failure is due either to wrong calculations of the size of the area to be treated or the amount of fertilizer to be applied, or both.

### EXAMPLES and CALCULATIONS

Determining the size of a given area can be simplified by dividing it into regular geometric shapes, assigning letters, such as a, b, c, d, and the like, to represent their dimensions, and using the formula given in this section. Generally, any area can be considered as a square or rectangle. Odd extensions of an area (A) can be visualized as measurable triangles or circles. For example, the fairways of a golf course can be visualized as rectangles, its tees as squares, and its greens, lakes, and water reservoirs as circles.

### RECTANGLE



Formula:  
 $A = a \times b$ , where  
 $a$  = length, and  
 $b$  = height (or width)  
 Example:  $a = 40$  ft.  
 $b = 15$  ft.  
 $A = 40$  ft.  $\times$   $15$  ft. =  $600$  sq. ft.

### TRIANGLE



Formula:  
 $A = \frac{a \times b}{2}$   
 Example:  $A = 28$  ft.  $\times$   $30$  ft. =  $360$  sq. ft.

### CIRCLE



Formula:  
 $A = \pi r^2$ , where  
 $\pi = 3.14$   
 $r$  = radius  
 Example:  $r = 8.14$ ,  $r = 8$  ft.  
 $A = 3.14 \times 8$  ft.  $\times$   $8$  ft. =  $200.80$  sq. ft.