

# Lee County's Landscape and Fertilizer Best Management Practices Ordinance (Ord 08-08)

## *Fertilizer Application Requirements* *N-P-K*

### Nitrogen

- No more than ( $\leq$ ) four (4) lbs N/1000 ft<sup>2</sup> may be applied per year. Four applications per year at a rate of 1 lb N/1000 ft<sup>2</sup> are recommended to more evenly distribute your landscape nutritional needs.
- Fertilizers shall contain  $\geq$ 50% Slow Release Nitrogen (SRN).
  - SRN is also referred to on a guarantee analysis label as controlled release, slowly available nitrogen or water insoluble nitrogen.

### Phosphorus\*

- Application of phosphorus fertilizer should not exceed 0.25 lbs P<sub>2</sub>O<sub>5</sub>/1000 ft<sup>2</sup> per application and nor exceed 0.50 lbs P<sub>2</sub>O<sub>5</sub>/1000 ft<sup>2</sup> per year. This rate of application is by far more restrictive than the application rate for N. Generally a good rule of thumb is to select a product with P  $\leq$  2.

### Potassium (Potash)

- Potassium (otherwise known as potash) is not regulated under this ordinance.

\*Soil testing is important to determine the nutritional needs of your landscape. You may find, for example that changing the pH of your soil could save you money or effort by reducing the amount of fertilizer your yard needs. For more information please contact the Lee County Extension Services office (239-533-7513) or [http://solutionsforyourlife.ufl.edu/hot\\_topics/agriculture/soil\\_testing.html](http://solutionsforyourlife.ufl.edu/hot_topics/agriculture/soil_testing.html).

# How to calculate how much N & P in your fertilizer bag and how much you should use

## Calculating Nitrogen (N) Content

Nitrogen is the first number in the series on a fertilizer bag label; N-P-K. These numbers are the percent nitrogen (N), phosphorus (P) and potassium (K) per specified square feet (ft<sup>2</sup>) on the bag label.

1) To calculate the **pounds of nitrogen in a bag** of fertilizer, multiply by the **percent nitrogen** (in this case 16) by the **weight of the bag** (in this case 50 lbs) and divide by 100.

For this example:

$$\frac{\%N \times \text{Wt of bag}}{100} = \frac{16 \times 50}{100} = 8 \text{ lbs N}$$

2) To calculate the **pounds of nitrogen per 1,000 ft<sup>2</sup>** (rate of application) divide the pounds of nitrogen by the **area the bag states it will cover**.

For this example:

$$\frac{8 \text{ lbs N}}{8000 \text{ ft}^2} = \frac{1 \text{ lbs N}}{1,000 \text{ ft}^2}$$

3) To calculate the percentage of slow release nitrogen (SRN) in a bag of fertilizer divide the percent **total nitrogen** by the percent **water insoluble nitrogen** and multiply by 100.

In this case;  $8 \div 16 = 0.5 \times 100 = 50\%$

**16-2-6**

LESICO EcoSential™  
PROFESSIONAL TURF FERTILIZER  
For use in Rotary Spreaders Only  
50 lb COVERS 8,000 sq ft

**GUARANTEED ANALYSIS**

TOTAL NITROGEN (N)	16.00%
8.00% Urea Nitrogen	
8.00% Water Insoluble Nitrogen*	
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> )	2.00%
SOLUBLE POTASH (K <sub>2</sub> O)	6.00%
CALCIUM (Ca)	1.00%

**DERIVED FROM:** Hydrolyzed Feathermeal, Blood Meal, Fish Meal, Bone Meal, Potassium Sulfate, Urea.

\*8.00% Slowly Available Nitrogen from Hydrolyzed Feathermeal, Blood Meal, Fish Meal and Bone Meal.

**F1386**

**WARRANTY**

LESICO, Inc. warrants that this product conforms to the analysis on its label. When used in accordance with label directions, under normal conditions, this product is reasonably fit for its intended purposes. Since time, method of application, weather, plant and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

Information concerning the raw materials comprising this product can be obtained by writing to LESICO, Inc., Attn: Risk Dept., 1301 East 9<sup>th</sup> Street, Suite 1300, Cleveland, Ohio 44114-1849, referring to the item number found on this bag.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.lesico.com>.

LESICO is a registered trademark and EcoSential, For the World We Live In, the Hummingbird and Grasshopper, and the sweeping design are trademarks of LESICO Technologies, LLC. SCOTT'S is a registered trademark of The SCOTT Company. Cyclone and Spylar are registered trademarks of Spylar Spreaders, LLC. Lely is a registered trademark of C Van Der Lely N.V.

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ROTARY SPREADER	SETTINGS
LESICO Calibration Gauge	#18
SCOTT'S R8A	L
Cyclone® or Spylar®	4 ¾
LESICO Pendulum	34
Lely®	5 ½ II

**NET WEIGHT 50 lb (22.7 kg)**

Made in U.S.A. for LESICO, Inc. • 1301 East 9<sup>th</sup> Street • Cleveland, OH 44114-1849

**To calculate how much fertilizer you would need to use if you want to fertilize a 2000 ft<sup>2</sup> lawn at a rate of 1 lb/1000 ft<sup>2</sup>, use the following formula.**

$$\frac{100}{N} \times (\text{fertilized area}) \text{ ft}^2 = \text{lbs fertilizer to use}$$

For example:

$$\frac{100}{16} \times 2000 \text{ ft}^2 = \frac{6.25 \text{ lbs}}{1000 \text{ ft}^2} \times 2000 \text{ ft}^2 = 12.5 \text{ pounds}$$

**How many times per year could you apply this product if all 50 lbs was applied over 8000 square feet?** *This product could be applied at the rates and square footage specified on the bag four (4) times over the course of one year.*

**How many applications are in this bag if you want to fertilize a 2000 ft<sup>2</sup> lawn at a rate of 1 lb/1000 ft<sup>2</sup>?** *This bag provides 4 applications at a rate of 1 lb/1000 ft<sup>2</sup> for a 2000 ft<sup>2</sup> lawn.*

# 16-2-6

LESCO® EcoSential™  
PROFESSIONAL TURF FERTILIZER  
For use in Rotary Spreaders Only  
50 lb COVERS 8,000 sq ft

**DIRECTIONS FOR USE:** This LESCO EcoSential product is a professional quality turf fertilizer for use on all lawn areas. The best results with this product are obtained when it is applied to actively growing grass, and watered into the turf soon after application. Avoid mowing immediately following application to prevent pick-up.

For best results, sweep or blow the fertilizer off walks and painted surfaces following application to avoid discoloration.

Recommended applications are at the rate of one pound of nitrogen per 1,000 sq ft. Actual rates and timing of applications will vary with weather, soil and turf conditions.

**Seasonal Fairway Rate:** Apply 6 pounds per 1,000 sq ft for 12 week residual color.

**Aeration:** Apply 6 pounds per 1,000 sq ft for seasonal programs.

**Landing Areas & Bunker Faces:** Apply 6 pounds per 1,000 sq ft for 12 week residual color.

**Tee Maintenance:** Apply 4 pounds per 1,000 sq ft per month for tee recovery.

**COVERAGE:** 50 pounds of LESCO EcoSential 16-2-6 Fertilizer covers approximately 8,000 sq ft at the application rate of one pound of nitrogen (6.25 pounds of fertilizer) per 1,000 sq ft.

**ROTARY SPREADER SETTINGS:** Apply LESCO Fertilizers and Combination Products only with a rotary spreader. The following rotary spreader settings are approximate for the application rates of one pound of nitrogen per 1,000 square feet. You may need to adjust the setting depending on walking speed, spreader condition and product.

ROTARY SPREADER	SETTINGS
LESCO Calibration Gauge	#18
SCOTT'S® R8A	L
Cyclone® or Spyker®	4 ¾
LESCO Pendulum	34
Lely®	5 ¼ II

## GUARANTEED ANALYSIS

TOTAL NITROGEN (N)..... 16.00%  
8.00% Urea Nitrogen  
8.00% Water Insoluble Nitrogen\*  
AVAILABLE PHOSPHATE (P<sub>2</sub>O<sub>5</sub>)..... 2.00%  
SOLUBLE POTASH (K<sub>2</sub>O)..... 6.00%  
CALCIUM (Ca)..... 1.00%

**DERIVED FROM:** Hydrolyzed Feathermeal, Blood Meal, Fish Meal, Bone Meal, Potassium Sulfate, Urea.

\*8.00% Slowly Available Nitrogen from Hydrolyzed Feathermeal, Blood Meal, Fish Meal and Bone Meal.

F1386

## WARRANTY

LESCO, Inc. warrants that this product conforms to the analysis on its label. When used in accordance with label directions, under normal conditions, this product is reasonably fit for its intended purposes. Since time, method of application, weather, plant and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

Information concerning the raw materials composing this product can be obtained by writing to LESCO, Inc., Attn: RA Dept, 1301 East 9<sup>th</sup> Street, Suite 1300, Cleveland, Ohio 44114-1849, referring to the item number found on this bag.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.lesco.com/forinfo-a-1.com>

LESCO is a registered trademark and EcoSential, For the World We Live In, the Hummingbird and Grass logo, and the sweeping design are trademarks of LESCO Technologies, LLC. SCOTT'S is a registered trademark of The SCOTT Company. Cyclone and Spyker are registered trademarks of Spyker Spreaders, LLC. Lely is a registered trademark of C. Van Der Lely N.V.

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NET WEIGHT 50 lb (22.7 kg)

Made in U.S.A. for LESCO, Inc. • 1301 East 9<sup>th</sup> Street • Cleveland, OH 44114-1849

**Pounds of Fertilizer to Apply to Achieve an Application Rate of 1 lb N/1,000 ft<sup>2</sup>  
by Percent Nitrogen Listed on Fertilizer Bag**

Percent N Listed on Bag	lbs of Fertilizer to Use
1	100
2	50
3	33.3
4	25
5	20
6	16.7
7	14.3
8	12.5
9	11.1
10	10
11	9.1
12	8.3
13	7.7
14	7.1
15	6.7
16	6.3
17	5.9
18	5.6
19	5.3
20	5
21	4.8
22	4.5
23	4.3

Percent N Listed on Bag	lbs of Fertilizer to Use
24	4.2
25	4
26	3.8
27	3.7
28	3.6
29	3.4
30	3.3
31	3.2
32	3.1
33	3
34	2.9
35	2.9
36	2.8
37	2.7
38	2.6
39	2.6
40	2.5
41	2.4
42	2.4
43	2.3
44	2.3
45	2.2
46	2.2

## Calculating Phosphorus (P) Content

Phosphorus is the second number in the series on a fertilizer bag label; N-P-K. Phosphorus fertilizer application should not exceed 0.25 lbs P<sub>2</sub>O<sub>5</sub>/1000 ft<sup>2</sup> per application and nor exceed 0.50 lbs P<sub>2</sub>O<sub>5</sub>/1000 ft<sup>2</sup> per year. To determine if the sample product below is compliant with the Lee County ordinance find out how much P is in the fertilizer per 1000 ft<sup>2</sup>.

- 1) To calculate the pounds of phosphorus (P expressed as P<sub>2</sub>O<sub>5</sub>) in a bag of fertilizer, multiply by the **percent phosphorus** (in this case 2%) by the **weight of the bag** (in this case 50 lbs).

$$P \% * X \text{ lbs} = Y \text{ lbs}$$

$$\text{For example: } 0.02 * 50 \text{ lbs} = 1 \text{ lb P}$$

- 2) To calculate the pounds of phosphorus per 1,000 ft<sup>2</sup> (rate of application) divide the pounds of phosphorus by the **area the bag states it will cover**.

$$\frac{Y \text{ lbs P}}{Z \text{ ft}^2}$$

$$\text{For example: } \frac{1 \text{ lb P}}{8000 \text{ ft}^2} = \frac{0.125 \text{ lbs P}}{1000 \text{ ft}^2}$$

# 16-2-6

**LESCO® EcoSential™ PROFESSIONAL TURF FERTILIZER**  
For use in Rotary Spreaders Only

→ 50 lb COVERS 8,000 sq ft

**DIRECTIONS FOR USE:** This LESCO EcoSential product is a professional quality turf fertilizer for use on all lawn areas. The best results with this product are obtained when it is applied to actively growing grass, and watered into the turf soon after application. Avoid mowing immediately following application to prevent pick-up.

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**COVERAGE:** 50 pounds of LESCO EcoSential 16-2-6 Fertilizer covers approximately 8,000 sq ft at the application rate of one pound of nitrogen (6.25 pounds of fertilizer) per 1,000 sq ft.

**ROTARY SPREADER SETTINGS:** Apply LESCO Fertilizers and Combination Products only with a rotary spreader. The following rotary spreader settings are approximate for the application rates of one pound of nitrogen per 1,000 square feet. You may need to adjust the setting depending on walking speed, spreader condition and product.

ROTARY SPREADER	SETTINGS
LESCO Calibration Gauge	#18
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**GUARANTEED ANALYSIS**

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**NET WEIGHT 50 lb (22.7 kg)**

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This fertilizer product is compliant with the Lee County ordinance because the application rate required by Lee County is  $\frac{0.25 \text{ lbs P}}{1000 \text{ ft}^2}$  which is less than the  $\frac{0.125 \text{ lbs P}}{1000 \text{ ft}^2}$  that this product provides.