

## SOIL BIOLOGY

In healthy organic soil (below left), earthworms and other soil organisms quickly break down thatch and clippings to allow deep moisture penetration and deliver nutrients to roots. Lawns managed with traditional chemicals (below right), can quickly reduce soil microbiology resulting in a buildup of thatch. Roots stay near the surface for nutrients and moisture.



Text and illustration from *The Organic Lawn Care Manual* by Paul Tukey

Available for purchase at [safelawns.org](http://safelawns.org)

## SOIL TESTING

It is best to first identify soil deficiencies before applying fertilizer or lime to new or established lawns. This can be achieved by a routine soil fertility test, which identifies levels of calcium, magnesium, pH, neutralizable acidity, phosphorus, potassium, organic matter and cation exchange capacity. Soil testing is highly recommended when establishing a new lawn from seed or sod. Once the lawn is established a follow-up test every three years in spring or fall will aid in designing a management program to ensure a healthy lawn.

## WHAT DO THE NUMBERS MEAN?

The three numbers in the product name refer to the Nitrogen, Phosphorus, and Potassium levels in each product; however they do not tell the full story. Plants need over 17 different minerals to thrive.

### Nitrogen (N)

Nitrogen is a nonmetallic chemical element that is absolutely critical to plants for normal growth and function. Nitrogen deficiency results in a sickly, yellow-tinged lawn with little resistance to disease or weedy invaders.

### Phosphorus (P, provided as Phosphate)

Phosphorus is extremely important in plants for its role in capturing and converting the sun's energy in a reaction called photosynthesis. Turf plants rely on soil organisms to help absorb Phosphorus through their roots.

### Potassium (K)

Potassium is a very reactive element of the alkali metal group. It's commonly found combined in minerals and is an essential nutrient for turf, especially when it comes to disease resistance. Potassium also gives plants the ability to withstand the stresses of extreme weather conditions and the strength to stand upright in highly-trafficked areas.

Bradfield Organics® offers a broad range of organic solutions for lawn and garden management. Visit our web site at [www.bradfieldorganics.com](http://www.bradfieldorganics.com)



## GUARANTEE

Bradfield Organics® appreciates your business. If you are not satisfied with our product, please return it to the place of purchase for replacement or a full refund.



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Working with Nature,  
Not Against it

organic  
lawn care  
guide



## BRADFIELD ORGANICS® PREMIUM LAWN CARE FERTILIZERS ARE:

- Safe for people and pets
- Excellent for developing a rich, green lawn
- Clean, convenient and easy to use
- Non-polluting, safe to use around lakes and streams
- Perfect for lawns and a host of other plants like trees, shrubs, pastures, vegetables, fruits, herbs, flowers and just about anything that grows in soil
- Designed for long-lasting results
- Pleasant-smelling and manufactured from natural ingredients such as alfalfa, molasses, potash, humate and other ingredients which result in wholesome products

Homeowners, landscapers, botanical gardens, sports fields, schools, theme parks and small farms have all successfully used Bradfield Organics® lawn care fertilizers.

## WATERING, AERATION & THATCH

In general, early-morning watering is best for grass. Unhealthy buildup of dying grass can compact the soil and restrict growth. If this occurs, it may be necessary to aerate and dethatch your lawn. Over time, Bradfield Organics-fed soil rich in active microbes will incorporate thatch back into the soil and recycle nutrients.

## COMPOSTING

Early spring is a good time to add Bradfield Organics® natural fertilizer and some compost to garden beds you'll soon be planting. The fertilizer, compost and soil microbes will interact to make soil nutrients available for seeds and transplants you will soon be putting in the garden. Wait a week to plant, and you will be setting those seedlings into a bed full of readily available nutrients.

## CALCIUM AND LAWN CARE

Calcium is also an important but often forgotten nutrient in the plant system and should be present at a minimum of two thousand pounds per acre. For application rates follow guidelines from a soil test. For more information, please visit [www.bradfieldorganics.com/science.html](http://www.bradfieldorganics.com/science.html)

To learn more about the benefits of organic lawn care and gardening, visit [www.safelawns.org](http://www.safelawns.org).



# Bradfield Organics® 4-step program

**Expectations:** Deep, richly colored green-up in about two to three weeks. Expect better results the second year as the soil becomes richer in organic matter and biological life. After three or four years, application dosages may be reduced (possibly by as much as 50%). Thatch and aeration treatments diminish and may totally go away. Water usage drops by 25% or more. Pesticide usage, if needed at all, will be very minimal. Weeds should be managed by understanding proper soil nutrition, mowing height, and watering will be very low.

## 1 **PRODUCT:** Luscious Lawn Granulated Corn Gluten 9-0-0

### **WHEN TO APPLY:** Early to late spring

Slowly-released nitrogen prolongs nutrient availability and improves soil structure.



## 2 **PRODUCT:** Luscious Lawn & Garden™ 3-1-5

### **WHEN TO APPLY:** Mid-spring to mid-summer

Alfalfa-based all-purpose natural fertilizer stimulates healthy turf growth.



## 3 **PRODUCT:** Luscious Lawn & Garden™ 3-1-5

### **WHEN TO APPLY:** Mid-summer to mid-fall

Summer application continues to build soil microbes. Safe to apply when dry.



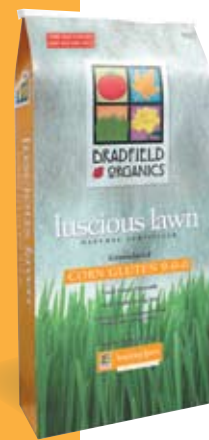
## 4 **PRODUCT:** Luscious Lawn & Garden™ 3-1-5

### **WHEN TO APPLY:** Mid to late fall

Provides the nutrients needed to grow deep, strong roots in preparation for winter. May also apply Luscious Lawn Corn Gluten 9-0-0 for extra nitrogen. Excellent time to add compost. One application of compost per year is sufficient.



*Note: Ask your local lawn care expert for the best dates in your area.*



## luscious lawn granulated corn gluten 9-0-0

- Produces a lush, green lawn when used in early spring or fall
  - Granulated for easier spreading
  - No offensive odor and pleasant to use
  - No manure or municipal sludge
  - Non-burning
  - Slow-releasing
  - Safe for people and pets
  - Will not leach into water
- AVAILABLE IN 20 AND 40 LB PACKAGES

Bradfield Organics® Luscious Lawn Corn Gluten 9-0-0 is a premium granulated all-purpose fertilizer developed to provide a safe (when used as directed), clean, convenient, and easy way to fertilize lawns, trees, shrubs, vegetables, fruit trees, herbs, and flower gardens.

### **DIRECTIONS**

Bradfield Organics® Luscious Lawn Corn Gluten 9-0-0 can be applied at any time of year. As in nature, there is no bad time to start building soil fertility. As part of your Bradfield Organics® fertilizer program, apply between 10 to 20 lbs per 1,000 square feet.

Other uses of Bradfield Organics® Luscious Lawn Corn Gluten 9-0-0 can be around new plantings of vegetable plants, trees or shrubs, or side-dressing established plants when additional nitrogen is needed.

### **CAUTION**

Do not apply to areas when seeding is contemplated within 60 days. Root system from newly germinated seeds tends to wither in the presence of corn gluten meal.

### **MAXIMUM RECOMMENDED APPLICATION RATES:**

	SQUARE FEET	2,000	4,000	6,000	10,000
LBS OF FERTILIZER (10 LBS/1,000 SQ FT RATE)		20 lbs	40 lbs	60 lbs	100 lbs
LBS OF FERTILIZER (20 LBS/1,000 SQ FT RATE)		40 lbs	80 lbs	120 lbs	200 lbs



## luscious lawn & garden™ 3-1-5

- Produces a lush, green lawn any time of year
  - Convenient to spread
  - No odor and pleasant to use
  - No manure, sludge or inert ingredients
  - Non-burning
  - Safe for people and pets
  - Will not leach into water
- AVAILABLE IN 20 AND 40 LB PACKAGES

Bradfield Organics® Luscious Lawn & Garden™ 3-1-5 is a premium all-purpose fertilizer, developed to provide a safe (when used as directed), clean, convenient, and easy way to fertilize lawns, trees, shrubs, vegetables, fruit trees, herbs, flowers, and rose gardens. Bradfield Organics® Luscious Lawn & Garden™ is an alfalfa-based product blended with other natural ingredients.

### **DIRECTIONS**

Bradfield Organics® Luscious Lawn & Garden™ 3-1-5 fertilizer can be applied at any time of year. As in nature, there is no bad time to start building soil fertility.

### **ESTABLISHED LAWNS**

Using a broadcast spreader, apply 20 lbs per 1,000 square feet for initial application and 10 lbs per 1,000 square feet every 60 to 90 days for long-term maintenance. Watering immediately is not required, but will help the fertilizer to begin working.

### **RECOMMENDED APPLICATION RATES:**

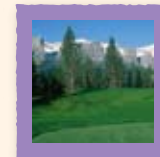
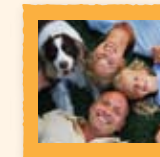
	SQUARE FEET	1,000	2,000	3,000	5,000	7,500	10,000
LBS OF FERTILIZER		10 lbs	20 lbs	30 lbs	50 lbs	75 lbs	100 lbs

### **SPREADER SETTINGS**

BRAND	5 LBS/ 1,000 SQ FT	10 LBS/ 1,000 SQ FT
Agri-Fab	3-4	6-7
Agway/Earthway 2030	17-18	23-26
Agway SB4000-6000	8-9	**
Scotts Easy-Green	27-28	**
Scotts Speedy-Green, Edge-Guard	8-9	14-15
Vigoro	8-9	**

*These are approximate settings and are provided only as a guide. Variations in walking speed, physical characteristics of the fertilizer, roughness of the ground surface and condition of the spreader may all affect the accuracy of the settings.*

*\*\* Multiple passes may be required to achieve this level of application.*



### **NEW LAWNS**

Apply Bradfield Organics® Luscious Lawn & Garden™ 3-1-5 and compost to the soil up to one week prior to planting. For sod, apply 10 lbs per 1,000 square feet directly to the soil, lay the sod, then apply a second 10 lbs per 1,000 square feet to the sod. Water as recommended for seeding. Follow long-term maintenance schedule of 10 lbs per 1,000 square feet every 60 days during first growing season.

### **GARDENS**

For best results, broadcast and till into the soil 20 to 30 lbs of Bradfield Organics® per 1,000 square feet of garden area up to one week prior to or same day as planting.

### **INSTRUCTIONS FOR INDIVIDUAL PLANTS**

- Dig hole to proper width following hole size guidelines.
- Place top half of soil from hole into wheelbarrow and set aside bottom half of soil from hole.
- Mix equal parts of soil and compost in wheelbarrow.
- Then mix designated amount of Bradfield Organics® fertilizer of choice per cubic foot of compost/soil mix.
- Place mix into bottom half of hole.
- Place plant in hole over soil mix.
- Fill remainder of hole around plant with original soil, spreading leftover soil around garden.
- Sprinkle small amount of Bradfield Organics® fertilizer around base of plant and cover with mulch.