

# Replenish™ 5-4-5

*All Purpose Organic Fertilizer*

EARTHWORKS NATURAL ORGANIC PRODUCTS, INC.

**Replenish 5-4-5** is the most complete plant and soil food on the market today and is the "Flagship" of the EarthWorks product line. 5-4-5 is an all-purpose Formulated Natural Organic fertilizer that can be used for any turf or ornamental application without fear of burn or salt build up.

The **Replenish** line of Fertilizers are complex **Formulated Dry Organics**. EarthWorks is dedicated to formulating the most agronomically complete products available. We have over 20 years of experience in working with biological soil management programs and our fertilizers are designed to maximize the microbial activity in any soil, providing a healthy environment for plants to flourish. Healthy soil promotes a healthy plant. We start with mineral rich poultry compost from egg laying birds that has gone through two digestion cycles. The by-products of this biological digestion bring with them a host of soil and plant benefits, including increased enzymes, amino acids and, most importantly, minerals. These benefits are not found in most commercial Natural Organic fertilizers. Once the raw material has been composted, a large percentage of rock mineral is added. Following the EarthWorks Carbon Pyramid approach, complex carbohydrates and humic acids are blended into the product, creating one of the most powerful soil and plant foods available today.

The **Replenish** products do much more than feed the plant, they feed the soil. As shown by the Carbon Pyramid, the rich carbohydrates provide a quick burst of energy to beneficial bacteria, the humic acid complex provides a sustainable food source for long term biological activity, and the minerals replenish the soil with the nutrients that are taken away during the season and need to be replaced to keep the soil healthy. Soil re-mineralization is an important focus of this product line. It is the minerals that truly make the Replenish products different. **The EarthWorks Formulated Organics replenish** these needed minerals and provide both the soil and the plant what it needs to stay healthy.

**EarthWorks™**  
Natural Organic Products

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Available in greens grade, standard grade

**FORMULATED  
DRY  
ORGANICS**

*Chicken  
Compost*

*Hard Rock  
Phosphate*

*Soft Rock  
Phosphate*

*Greensand*

*Complex  
Carbohydrates*

*Humic/Fulvic  
Acids*

*Sulfate of Potash*

# Replenish™ 5-4-5

**EarthWorks** is the only major manufacturer of Natural Organic fertilizers to use a truly agronomic approach to formulating products. For over twenty years we have been developing soil and plant focused products. **Replenish** 5-4-5 is a Formulated Organic. It is 60% composted material, while the rest of the formula is made up of the short and long chain carbons that define the EarthWorks Carbon Pyramid and a host of rock minerals. The carbon helps to stimulate soil microbes and the minerals **replenish** the soil from the loss taken by the constant uptake by plants. The mineral value of 5-4-5 is significant. Although these minerals are not all immediately soluble, they are sustainable and plants can use them when they need them most.

## Guaranteed Analysis

Total Nitrogen (N) .....	5.00%
1.30% Ammoniacal Nitrogen	
2.70% Water Insoluble Nitrogen *	
1.00% Other Water Soluble Nitrogen **	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	4.00%
Soluble Potash (K <sub>2</sub> O) .....	5.00%
Calcium (Ca).....	7.25%
Sulfur (S) .....	3.10%
3.10% Combined Sulfur (S)	

Derived From: Composted poultry manure, rock phosphate, sulfate of potash, ammonium sulfate, and methylene urea.

\* 1.45% Water Insoluble Nitrogen from composted poultry manure and 1.25% water insoluble nitrogen from methylene urea.

\*\* .70% Water Soluble Nitrogen from composted poultry manure and .30% water soluble nitrogen from methylene urea.

## APPLICATION RATES & PROGRAMS:

**Replenish 5-4-5** is ideal for use on all turf, ornamentals, gardens, trees and shrubs.

**Greens & Tees** – 10 lbs. per 1000 sq. ft. (1/2 lb. N) 2 - 4 times per year. Ideal times are at aerification and as a dormant feed. Increase rates on biologically weak and sand soils.

**Fairways** – 500 lbs. per acre two times per season. Ideal application times are late spring (aerification) and as a dormant feed.

**Sports Fields** – 10 lbs. per 1000 sq. ft. (1/2 lb. N) 2 - 4 times per year. Ideal times are at aerification and as a dormant feed. Increase rates on biologically weak soils and on sand based fields.

**Bedding Plants and Gardens** – Not less than 5 lbs. per 100 sq. ft. bed. Broadcast beds prior to planting and work product into the top 3 inches of soil. To maintain planting, sidedress 5-4-5 throughout the growing season at 2 lbs. per 100 sq. ft. and water in.

**Trees and Shrubs** – Apply 1 pound of 5-4-5 around the base of small trees and shrubs and water in. For larger trees, increase rates to 2-4 pounds per inch of trunk diameter applied evenly under the drip line and water in.

**5-4-5 is the perfect dormant feed and aerification product.**

*Replenish could be  
the healthiest thing  
you do for your soil.*

**EarthWorks™**  
Natural Organic Products