



# HG 2-4-3

Organic Fertilizer + 

Healthy Grow<sup>®</sup> 2-4-3 with Holganix<sup>®</sup> is a premium, all-organic fertilizer containing beneficial non-plant food ingredients that is naturally high in calcium, an essential nutrient that promotes strong, healthy turf and plants.

Healthy Grow with Holganix is Aerobically Composted Chicken Manure (ACCM) infused with a biological meta-catalyst that promotes beneficial microbial activity in and around the soil and plants. It's an all-natural, slow-release, non-burning organic blend rich in humates, carbohydrates and trace minerals, which naturally enhances any soil type and promotes turf and plant quality.

Proven through university research and on some of the finest golf courses throughout the US, Healthy Grow with Holganix ACCM fertilizers improve the plant's ability to take up and efficiently utilize available nutrients.

The added organic matter improves soil tilth, reduces compaction, and enhances water availability.

Healthy Grow with Holganix contains no heavy metals or human bio solids. And because it's fully composted, you don't get the odor problems normally associated with manure-based composts.

## Benefits

- » Combination of Healthy Grow + Holganix delivers diverse soil biology and sustainable nutrition
- » High levels of indigenous beneficial bacteria and fungi
- » Low odor - indicative of complete composting process, no ammonia smell
- » Homogeneous pellet - 90 SGN, 180 SGN
- » Versatility - broadcast applications on turf, incorporate at aerification, apply to landscape planting beds, underlay sod, seedbed preparation

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## The Pearl Valley Organix story



It all began with a science project when first grade teacher, Dave Thompson, wanted his class to watch chicks hatch from eggs. Thirty years later, Dave, his wife Terry, and son Ben are running the successful family businesses of Pearl Valley Eggs and Pearl Valley Organix. Dave always had a strong belief in protecting the environment and doing things right, and this shows in all aspects of the business. Pearl Valley's egg-producing chickens thrive on a high-quality, calcium-enriched diet produced in their own feed mill. Ground wheat straw, grown on site, aids in the composting process. So not only does Pearl Valley sell environmentally sound solutions, they live them every day.

## Processing over 40 tons of chicken manure a day

Chicken manure is transported on underground conveyors to covered buildings and blended with a carbon source. The mixture is then turned daily until fully composted in 45-60 days. Unlike competitive products, no artificial heat is used, so the microbial population is preserved. Finished compost is screened, then pelletized and dried to create a ready-to-use, homogenous, low-odor fertilizer.



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# HG 2-4-3 Organic Fertilizer + Holganix®

## Supporting Healthy Soil

Healthy Grow fertilizers add organic matter to the soil and encourage microbial growth to help balance your soil as nature intended.

Available in SGN sizes of 90 and 180, the easy-to-spread granules are extremely low dust, distribute easily, and move into the turf canopy with irrigation.

Backed by years of university research on golf courses, Healthy Grow Organic Fertilizers have consistently outperformed conventional synthetic fertilizers and other organic alternatives.

Organism Biomass Data (Expected Range)	Dry Weight (.45 – .85)	Active Bacteria (15 -25)	Total Bacteria (100-3000)	Active Fungal (15-25)	Total Fungal (100-300)
COMPETITOR A	.92	0	287	0	30.2
COMPETITOR B	.97	0	560	0	15.3
COMPETITOR C	.91	0	230	0	19.4
COMPETITOR D	.89	0	393	0	2.15
<b>HG 2-4-3</b>	<b>.74</b>	<b>45.0</b>	<b>888</b>	<b>14.4</b>	<b>467</b>

When analyzed against other competitive fertilizers, results show that Healthy Grow contains higher levels of beneficial active bacteria and fungi, which promotes soil health, root development and nutrient uptake.

## Naturally High in Calcium

An essential plant nutrient that plays a critical role in root and cell wall development, calcium improves the plant's ability to photosynthesize and more efficiently take up nitrogen and other minerals.

**Result: a stronger, healthier plant.**

## Guaranteed Analysis

Available in bulk, bulk bags, and 50 lb bags.

Total Nitrogen	(N)	2.0%
0.3% Ammoniacal Nitrogen		
1.7% Organic Nitrogen		
Available Phosphoric Acid	(P <sub>2</sub> O <sub>5</sub> )	4.0%
Soluble Potash	(K <sub>2</sub> O)	3.0%
Calcium	(Ca)	8.0%
Sulfur	(S)	0.5%

**Derived From:** Aerobically Composted Chicken Manure ACCM

Also contains non-plant food ingredients from Holganix	
Molasses & High Fructose Corn Syrup	1.38%
Brewer's Yeast	.48%
Yucca Extract	0.01%
Endo Mycorrhizae	0.014%
Ecto Mycorrhizae	0.014%

PEARL VALLEY ORGANIX has years of experience refining the chicken manure composting process and combining it with superior additives to produce the best-performing, organic-based fertilizers on the market.

Pearl Valley Organix, Inc. • 968 South Kent Road • Pearl City, IL 61062  
(815) 443-2170 • [healthygrowpro.com](http://healthygrowpro.com)

## Application Rates

### GREENS, TEES, & OTHER FINE TURF

» Apply 5 to 10 lb of product per 1,000 sq ft to deliver 0.1 to 0.2 lb of N per 1,000 sq ft

### FAIRWAYS, ROUGHS, & RESIDENTIAL LAWNS

» Apply 218 to 436 lb of product per acre to deliver 0.1 to 0.2 lb of N per 1,000 sq ft

*Use recommended rates above to apply 3.5 to 7 oz equivalent of Holganix per 1,000 sq ft. Apply up to 50 lb per 1,000 sq ft to deliver 1 lb of N per 1,000 sq ft.*

#### USE PRECAUTIONS

*Apply to dry turf. Always calibrate spreader to ensure proper application. Irrigate to move product down into the turf canopy before mowing.*

#### DIRECTIONS FOR USE

*Use during the active growing season to achieve soil test goals and/or desired aesthetic results.*



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