

PERFECT BLEND BIOTIC FERTILIZERS



Fertility Programs

Why Turf Experts Choose Perfect Blend Biotic Fertilizers

Turf experts who choose Perfect Blend biotic fertilizers appreciate the value of natural fertility. Perfect Blend biotic fertilizers are designed to mimic nature and efficiently accelerate the build of natural fertility in topsoil. Perfect Blend biotic fertilizers are at least 30 times more efficient than nature itself, with the ability to grow turf to its full genetic potential while sustaining and amending the topsoil.

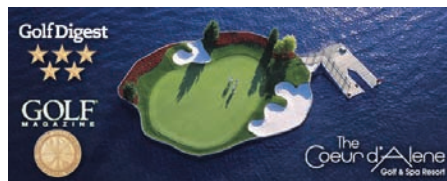
Naturally fertile soils grow stronger, healthier and greener turf without as much water as conventionally fertilized grass. Grass grown in these soils remains green longer in the fall and greens up faster in the spring. Due to its more robust topsoil mineral values, turf grass grown in naturally fertile soil is less susceptible to disease, insect attack and fungus. Turf experts who use Perfect Blend realize that in order to grow superior turf they must actually grow two different crops. The first is healthy soil microbes, while the second is the actual turf grass. Soil microbes are the basis of all natural fertility. This knowledge – and knowing how to tune a fertilizer to work in a biotic manner – is what enabled Perfect Blend to seek United States Patent protection for its innovations. Perfect Blend is the global leader in the development and manufacture of biotic fertilizers, developing the first patents in biotic fertility.

Every bag of Perfect Blend biotic fertilizer delivers the optimum nutrition levels for healthy topsoils that are rich in natural fertility. During manufacturing, Perfect Blend is carefully formulated to provide soil microbes with a full range of primary, secondary and trace minerals at the most advantageous pH level. Perfect Blend contains high levels of ionic forms of chelated minerals. As a result, the nutritional components of Perfect Blend biotic fertilizers are delivered in a form that is immediately usable by both plants and microbes. These unique features make

Perfect Blend a breakthrough concept in soil fertility.

Perfect Blend biotic fertilizers have an amazing ability to accelerate the reproduction of topsoil microbes. Our fertilizers provide topsoil microbes with nutrition formulated to build very large microbial populations through protein synthesis. After only a brief life span, topsoil microorganisms die and leave their remains in the soil in the form of soil acids, which are stable forms of nutrients that give the soil its dark color. Topsoil microorganisms are mostly protein, and they contain about 14% nitrogen and a full range of the nutrients needed to grow healthy turf. Perfect Blend biotic fertilizers bring Mother Nature's best fertility to you – in a way that's even more efficient than nature.

Testimonial



Coeur d'Alene Resort Golf Course was elected as a Gold Medal Resort by Golf Magazine in 2008 as one of only 25 resorts to receive this distinguished honor. Also, they received a 5-Star designation from Golf Digest – one of only 16 out of 6,200 courses rated to receive the top designation.

"We have used Perfect Blend the past two years, their product line has become the cornerstone of our fertility program."

*Kevin Hicks, Superintendent
Coeur d'Alene Resort Golf Course*

New England Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN100	BENEFIT
March	0.5 lb. N	3.5	10-3-7	Dependable release, Fast recovery from winter months
April (aeration times)	1.0 lb. N	11	8-4-5	100% Organic Base with dependable release, Mycorrhizal
May	0.5 lb. N	5.5	8-4-5	Outstanding color, Soluble humic and fulvic, No stress
June	0.5 lb. N	5.5	8-4-5	Outstanding color, Soluble humic and fulvic, No stress
July	0.5 lb. N	5.5	8-4-5	Outstanding color, Soluble humic and fulvic, No stress
August	0.5 lb. N	5.5	8-4-5	Outstanding color, Soluble humic and fulvic, No stress
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Outstanding color, Soluble humic and fulvic, No stress
October	0.5 lb. N	3.5	10-3-7	100% Organic Base with dependable release, mycorrhizal dependable release, Solid dormant fertility
Nov. (dormant)	0.75 lb. N	8.25	8-4-5	100% Organic Base minors, Solid dormant fertility
Totals	4.75 lbs. N 1.00 lbs. N	52.25 7	8-4-5 10-3-7	Greens Programs
	6.0 lbs. N	50	10-3-7	Tees Programs

Expectations: Perfect Blend's Greens and Tees analysis are a ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal that provides a fast green up and color for spring. The solubility of both Perfect Blend's analysis provides an important production of humic and fulvic acids that not only feeds the turf, but increases the microbial population while increasing rooting and avoiding summer stress. Excellent at aeration times.

Application: During aeration, harvest cores, apply Perfect Blend, top-dress then drag into aeration holes. For the summer applications, apply a total of 0.5 lb. N monthly. Can apply at a 0.25 lb. N every two weeks.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
April	0.75 lb. N	4.4	16-3-7	Fast color & green up, Soluble humic and fulvic acids
June	0.75 lb. N	4.4	16-3-7	Outstanding color, Predictable fertility release, Soluble humic and fulvic soil acids to avoid summer stress
July	0.75 lb. N	4.4	16-3-7	
August	0.75 lb. N	4.4	16-3-7	
Oct. (dormant feed)	0.75 lb. N	4.4	16-3-7	Solid dormant fertility, 100% Organic Base fertilizer
Totals	3.75 lbs. N	22	16-3-7	

Expectations: If a true organic program is desired apply Perfect Blend's 4-4-4 that contains the same ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal a chelated minor element package providing the desired color, reliable release fertility that avoids summer stress while producing soluble humic and fulvic acids for increased rooting and density.

Eastern Midwest & Northeast Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 100	BENEFIT
March thru April	0.5 lb. N	4	10-3-7	Outstanding color response, Full minors
May (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting, Mycorrhizal included
June	0.5 lb. N	5.5	8-4-5	Outstanding color, Full minors, Soluble humic and fulvic
July	0.5 lb. N	5.5	8-4-5	Outstanding color, Full minors, Soluble humic and fulvic
August	0.5 lb. N	5.5	8-4-5	Outstanding color, Full minors, Soluble humic and fulvic
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Fast Recovery, Increased rooting, Mycorrhizal included
Nov. (dormant)	1.0 lb. N	11	8-4-5	Dependable dormant fertility for spring growth
Totals	4.5 lbs. N	49.5	8-4-5	Greens Programs
	0.5 lbs N	4	10-3-7	
	5.0 lbs. N	45	10-3-7	

Expectations: Perfect Blend's analysis of either 8-4-5 and 10-3-7 are ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal to ensure rooting with a early spring application. For aeration application, the solubility of Perfect Blend's fertilizer creates a fast recovery.

Application: During aeration, harvest cores, apply Perfect Blend, top-dress, drag into aeration holes. For summer applications of 0.5 lb. to 0.75 lb. N rates, irrigate lightly, allow to dry completely; than run a full evening irrigation cycle. The next morning, mow without baskets.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
May	1.00 lb. N	4	16-3-7	Outstanding color, Dependable release fertility
August	1.00 lb. N	4	16-3-7	
November	1.00 lb. N	4	16-3-7	
Totals	3.00 lbs. N	17.4	16-3-7	

Expectations: Perfect Blends fairway programs ensures uniform and dependable release of both the 16-3-7 base combined with UFLEX. The 100 % organic base produces a increase in the required humic and fulvic soil acids that provides a stress free summer and increased rooting.

Deep South States Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 100	BENEFIT
March thru May	0.25 - 0.50 lb. N	5	8-4-5 or 4-4-4	Outstanding color, Assured growth, Dependable Release
June thru Sept.	0.25 - 0.50 lb. N	5	8-4-5 or 4-4-4	Avoidance of summer stress conditions, Thatch reduction, Provides soluble humic fulvic acids
Oct. thru Sept.	0.25 - 0.50 lb. N	5	8-4-5 or 4-4-4	Safe and Dependable dormant or semi- dor- mant feeding for late and early spring months
Dec. thru Feb.	0.25 - 0.50 lb. N	5	8-4-5 or 4-4-4	Outstanding color, Predictable growth. Safe, Dependable & Even feeding overseeding
Totals	1.0 - 3.0 lbs. N	30 - 75	8-4-5 or 4-4-4	For Greens

Tees and Collars: Choose either 4-4-4 100% Organic or the 8-4-5 Organic-Based. Tee applications should be made at 0.8 to 1 lb. N per 1,000 sf monthly through the growing season.

Expectations: Perfect Blends high solubility produces vital humic and fulvic soil acids that will ensure quick rooting, predictable growth while feeding the soil microorganism system. Either the 4-4-4 100% Organic or the 8-4-5 Organic-Based both are ph balanced 6.1-6.2 homogeneous chelated prills that contains a full minor element package with mycorrhizal providing the color desired.

Aeration Applications: Harvest the cores, apply Perfect Blend, top-dress drag into aeration holes. For summer applications of .25 -.50 lb. N rates, irrigate lightly, allow to dry completely - that evening irrigate a with normal irrigation cycles. The next morning, mow without baskets.

Fairways Program: Perfect Blend offers both the 8-4-5 with and 4-4-4 100% Organic that provides a safe, dependable slow release feeding program. The 4-4-4 and 8-4-5 have mycorrhizal biologicals added to ensure quicker and dependable rooting.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
April thru May	0.25 - 0.50 lb. N	4.5	8-4-5 or 16-3-7	Outstanding color and dependable release feeding
June thru July	0.25 - 0.50 lb. N	4.5	8-4-5 or 16-3-7	
Aug. thru Sept.	0.25 - 0.50 lb. N	4.5	8-4-5 or 16-3-7	
Nov. thru Dec.	0.25 - 0.50 lb. N	4.5	8-4-5 or 16-3-7	
Totals	1.0 - 3.0 lbs. N	18	8-4-5 or 4-4-4	

Results: The fairway programs described showcases three Perfect Blend's SGN 150 products. The 8-4-5 and 10-3-7 are a ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal. The 16-3-7 is a blended product containing Uflexx built from the 10-3-7 base.

Mid South & Southwest States Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 100	BENEFIT
March	0.5 lb. N	5.5	8-4-5	Outstanding color response in the spring
April	0.5 lb. N	5.5	8-4-5	Dependable released feeding results
May (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting
June	0.5 lb. N	5.5	8-4-5	Color, Dependable release feeding, Minors
July	0.5 lb. N	5.5	8-4-5	Color, Dependable release feeding, Minors
August	0.5 lb. N	5.5	8-4-5	Color, Dependable release feeding, Minors
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting
October	0.5 lb. N	5.5	8-4-5	Dependable dormant feed for fast spring coloring
Totals	5.0 lbs. N	55	8-4-5	For Greens
	5.0 lbs. N	45	10-3-7	For Tees

Results and Expectations: Perfect Blend programs are different than other organic and organic based fertility programs because of the solubility and NO ODOR once water is applied. Perfect Blends solubility produces humic and fulvic acids rapidly resulting in increased rooting while feeding and increasing the population or count of the soil microorganisms.

Application: For aeration times, harvest cores, apply Perfect Blend, top-dress and drag into aeration holes. For summer month's applications of 0.5 lb. N rates, irrigate lightly, allow to dry completely; that evening run a normal irrigation cycle. The next day, mow without baskets.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
April thru May	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
June thru July	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
Aug. thru Sept.	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
Nov. & Dec.	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
Totals	3.0 lbs. N	18	16-3-7	

Results: The fairway program described showcases Perfect Blend's blended 16-3-7 SGN150 with UFLFEXX. The 16-3-7 is blended with UFLFEXX providing a dependable slow release fertility program with chelated minor elements. The 16-3-7 is cost effective compared to other competitive products. Other alternatives are the Perfect Blend 10-3-7 and 8-4-5 ph balanced 6.1-6.2 slightly acidic homogeneous chelated prill that contains a full minor element package and a healthy dose of mycorrhizal spores for increase color and rooting.

North Midwest Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 100	BENEFIT
March thru April	0.5 lb. N	4	10-3-7	Outstanding early color, Response in the spring
May (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting, Mycorrhizal addition
June	0.5lb. N	5.5	8-4-5	Balanced fertility to avoid summer stress and outstanding color
July	0.5 lb. N	5.5	8-4-5	Balanced fertility to avoid summer stress and outstanding color
August	0.5 lb. N	5.5	8-4-5	Fast recovery, Increased rooting, High humic and fulvic
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Balanced fertility, Avoid summer stress and color
Nov. (dormant)	1.0 lb. N	11	8-4-5	Dependable dormant feeding for early spring color
Totals	lbs. N	49.5 4	8-4-5 10-3-7	Greens Programs
	lbs. N	45	10-3-7	Tees Programs

Expectations: Perfect Blend's analysis of either 8-4-5 and 10-3-7 are a ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal includes a full complement that will insure rooting for early spring application. For aeration applications the solubility of Perfect Blend's fertilizer provides for fast recovery and rooting.

Application: During aeration, harvest cores, apply Perfect Blend, top-dress drag into aeration holes. For summer applications of 0.5 lb. to 0.75 lb. N rates, irrigate lightly, allow to dry completely; that evening run a full irrigation cycles. The next morning, mow without baskets.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
May Spring Time	0.69 lb. N	4	16-3-7	Outstanding color , Dependable release fertility
June	0.69 lb. N	4	16-3-7	Outstanding color , Dependable release fertility
August	0.69 lb. N	4	16-3-7	Outstanding color, Increase rooting soluble humic and fulvic acid applications
Sept. thru Oct.	0.69 lb. N	17	16-3-7	Dependable dormant fertility for spring growth
Totals	2.93 lbs. N	18	16-3-7	

Expectations: Perfect Blend's fairway programs ensure even dependable release of the 8-4-5. 10-3-7 and 16-3-7 (UFLEXX Blend). The ph balanced homogeneous chelated prill produces healthy humic and fulvic soil acids while increasing the microbial population that will provide a stress free summer and increased rooting.

Southern Midwest States Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN100	BENEFIT
March	0.5 lb. N	5.5	8-4-5	Outstanding color fast for the spring growth
April	0.5 lb. N	5.5	8-4-5	Dependable released, 100% Organic Base fertility
May (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting, Soluble humic & fulvic acids
June	0.5 lb. N	5.5	8-4-5	Outstanding color, 100% Organic Base, Avoid summer stress
July	0.5 lb. N	5.5	8-4-5	Outstanding color, 100% Organic Base, Avoid summer stress
August	0.5 lb. N	5.5	8-4-5	Excellent stress tolerance and color
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting, Mycorrhizal application
October	0.5 lb. N	5.5	8-4-5	Solid dormant feed, Additional humic and fulvic acids
Totals	5.0 lbs. N	55	8-4-5	For Greens
	5.0 lbs. N	45	10-3-7	For Tees

Expectations: The 8-4-5 and 10-3-7 are a ph balanced homogeneous chelated prill that contains a full a full minor element package with mycorrhizal biological package in each bag that provides a fast start for rooting, color, while producing humic and fulvic acids. Wanting a 100% Organic program the 4-4-4 analysis with highly soluble humic and fulvic acids will jump start the turf grass in early spring.

Application: During aeration, harvest cores, apply Perfect Blend, top-dress then drag into aeration holes. For summer applications of 0.5 lb. N rates, irrigate lightly, allow to dry completely; that evening run a full irrigation cycle. The next morning, mow without baskets.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN150	BENEFIT
April thru May	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
June thru July	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
Aug. thru Sept.	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
November	0.75 lb. N	4.5	16-3-7	Outstanding color & dependable release feeding
Totals	3.0 lbs. N	18	16-3-7	

Expectations: Perfect Blend's 16-3-7 is a blended product containing Uflexx built from a 4-4-4 organic base and 10-3-7 base. The 16-3-7 is a very effective slow and uniform release program.

Pacific Northwest States Fertility Program

GREENS AND TEES PROGRAMS

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN100	BENEFIT
March thru April	0.5 lb. N	4	8-4-5	Outstanding color response for spring growth
May (aeration times)	1.0 lb. N	11	8-4-5	Fast recovery, Increased rooting, High humic and fulvic, Mycorrhizal
June	0.5 lb. N	5.5	8-4-5	Fast recovery, Increased rooting, High humic and fulvic, Mycorrhizal
July	0.5 lb. N	5.5	8-4-5	Fast recovery, Increased rooting, High humic and fulvic, Mycorrhizal
August	0.5 lb. N	5.5	8-4-5	Fast recovery, Increased rooting, High humic and fulvic
Sept. (aeration times)	1.0 lb. N	11	8-4-5	Outstanding color, Minor element package mycorrhizals
November (dormant feeding)	1.0 lb. N	11	8-4-5	Dependable dormant or semi-dormant feeding ensures spring growth
Totals	4.5 lbs. N	49.5	8-4-5	Greens Programs
	0.5 lbs. N	4	10-3-7	
	5.0 lbs. N	45	10-3-7	Tees Programs

Expectations: Perfect Blend's Greens and Tees analysis are a ph balanced homogeneous chelated prill that contains a full minor element package with mycorrhizal that provides a fast green up and color for spring. The solubility of both Perfect Blend's analysis provides an important production of humic and fulvic acids that not only feeds the turf, but increases the microbial population while increasing rooting and avoiding summer stress. Excellent at aeration times.

Application: During aeration, harvest cores, apply Perfect Blend, top-dress and drag into aeration holes. For summer time applications of 0.5 lb. to 0.75 lb. N rates, irrigate lightly, allow to dry completely; that evening run a full irrigation cycle. The next mowing, mow without baskets.

FAIRWAY PROGRAM

TIMING	RATE	BAGS/ ACRE	PRODUCT SGN 150	BENEFIT
May Early Spring	0.69 lb. N	4	16-3-7	Outstanding color, Safe & dependable feeding
June	0.69 lb. N	4	16-3-7	Outstanding color, Predictable, Dependable & Safe Fertilizer
August	0.69 lb. N	4	16-3-7	Safe and Dependable for fertility and management stress
Sept. thru Oct.	0.69 lb. N	17	16-3-7	Dependable dormant fertility for spring growth
Totals	2.93 lbs. N	14 to 18	16-3-7	

Expectations: Perfect Blend's fairway programs ensure uniform dependable release of the 8-4-5, 10-3-7 and 16-3-7 (UFLEXX Blend). The ph balanced homogeneous chelated prill produces healthy humic and fulvic soil acids while increasing the microbial population that will provide a stress free summer and increased rooting.

Perfect Blend Outperforms Nature Safe in University of Florida Trials

TURFGRASS RESPONSES TO ORGANIC FERTILIZERS

RESEARCH REPORT:

April 26, 2005

PRINCIPAL INVESTIGATOR:

Dr. John Cisar

OBJECTIVE:

To determine the efficacy of several organic fertilizers on greens height bermudagrass in south Florida.

TREATMENTS:

- 1. Perfect Blend 4-4-4 at 2.0lb N/1000 ft²
- 2. Nature Safe 5-6-6 at 2.0lb N/1000 ft²

MATERIALS AND METHODS:

The above treatments were applied to a Tifdwarf USGA spec green on January 27, 2005. A second treatment application was made on March 14, 2005. The experiment was set up as a randomized complete block with four replications of 3ft x 6ft plots. Treatments were applied once for this 2 month study and were watered in immediately after application with 0.25 inches irrigation. For the duration of the study, quality and color ratings (scale of 1-10 with 10=dark green turf, 1=dead/brown turf, and 6=minimally acceptable) were taken and clipping samples for tissue dry weight were taken throughout the experiment. All data was subject to statistical analysis and significant means were identified.

RESULTS AND DISCUSSION:

Turfgrass quality and color were improved by increasing N rate (Tables 1a and 1b and 2a-2b). On one date (3/26), the 4-4-4 product had better turf quality and turf color than the 5-6-6 product following a second application of products (Tables 1b and 2b). On most dates, the lower N rate was near or below acceptable turf quality d color Turfgrass clipping dry weights were improved by N rate (Table 3).

Table 1a. Turfgrass quality ratings for Perfect Blend Test						
PB=Perfect Blend , NS=Nature Safe / +,ns, and ** =P<0.10, P>0.10 and P<0.01 respectively.						
SOURCE	Lbs N/M	1/27	2/7	2/25	3/7	3/10
PB 4-4-4	2.0	6.4ab	6.6	6.6a	7.3a	7.4a
NS 5-6-6	2.0	6.1b	6.5	6.4a	6.9a	7.0ab
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Table 1b. Turfgrass quality ratings for Perfect Blend Test					
PB=Perfect Blend , NS=Nature Safe ** =P<0.01					
SOURCE	Lbs N/M	3/12	3/26	4/4	4/22
PB 4-4-4	2.0	7.6a	7.9a	6.6a	7.1a
NS 5-6-6	2.0	7.0a	6.8b	6.3a	6.9a
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Table 2a. Turfgrass quality ratings for Perfect Blend Test						
PB=Perfect Blend , NS=Nature Safe / ns and ** =P<0.10, P>0.10 respectively.						
SOURCE	Lbs N/M	1/27	2/7	2/25	3/7	3/10
PB 4-4-4	2.0	6.5b	7.3a	7.3a	7.6a	7.6
NS 5-6-6	2.0	7.0a	6.9a	6.9a	7.3a	7.3a
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Table 2b. Turfgrass quality ratings for Perfect Blend Test			
PB=Perfect Blend , NS=Nature Safe / * and ** =P<0.10, P>0.05 respectively.			
SOURCE	Lbs N/M	3/26	4/4
PB 4-4-4	2.0	7.6a	7.0
NS 5-6-6	2.0	6.9c	6.8a
SIGNIF	- - -	**	*

Table 3. Turfgrass quality ratings for Perfect Blend Test					
PB=Perfect Blend , NS=Nature Safe / ns, * and ** =P<0.10, P>0.05 and P<0.01 respectively.					
SOURCE	Lbs N/M	1/27	2/7	3/7	4/5
PB 4-4-4	2.0	4.5	8.3a	6.0a	3.7a
NS 5-6-6	2.0	5.2	7.5a	5.4a	3.5a
SIGNIF	- - -	ns	*	**	*

Turfgrass quality ratings based on a 1-10 scale with 10 = dense green turf, 1=dead turf and 6=minimally acceptable turf
Means with the same letter within a column are not significantly different according to Duncan's Multiple Range Test.

Perfect Blend vs. Other Organic Fertilizer

At Perfect Blend, our high-quality fertilizers are manufactured with careful attention to every aspect of the ingredients and process, toward the final goal of providing a complete, balanced formulation for use by soil microbes. We understand that the “mineralization” of organic fertilizers is in reality a transformation of nutrients from their original form into a form that is usable by the plant. A transformation must occur in the digestive system of the microbes, and in microbially induced biochemical reactions. All Perfect Blend formulations are oriented toward the goal of feeding soil microbes. Soil microbes always eat first.

A highly efficient organic fertilizer must provide complex nutrition and be carefully homogenized, hydrolyzed, pH-balanced and agglomerated into fully nutritional granules in order to become a “perfect food” for soil microbes. Not all organic fertilizers or materials efficiently convert into the fulvic and humic substances that soil microbes require. Some, such as blood meal and dehydrated manures, are labile forms that release too quickly. Feather meal- and bone meal-based products are stubborn release forms that release too slowly to provide plants with nutrients when required.

In order to provide a high efficiency organic fertilizer must be:

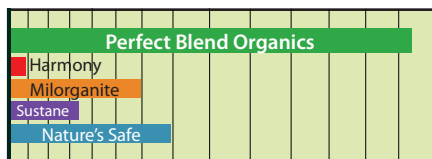
- **Fully nutritional** – In order for an organic fertilizer to be effective, it must enter the soil as a homogenized, uniform, soluble tea that contains all 15 nutritive elements plants require. Fertilizers that lack all the essential nutrients only provide weakened and incomplete fulvic and humic molecular structures.
- **Homogenized** – Soil mineral reactions require a homogenized mix of complete primary, secondary and trace nutrients in order to build the complex molecular structures of fulvic and humic acids. Without a homogenized food source, the fulvic/humic acid molecular builds are fragmented and lacking in critical elements.

- **Hydrolyzed** – A highly efficient organic fertilizer must be hydrolyzed in order to stabilize the nutrients and pH and, on a molecular level, convert the nutrients into an efficient, stable, slow-release product. Hydrolyzed products are very efficient in converting to fulvic and humic acids.

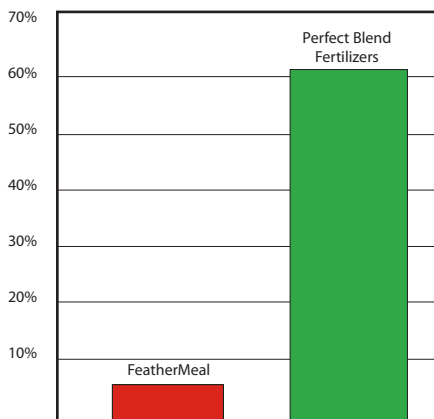
- **pH-balanced** – Soil microbes prefer slightly acidic foods in the 6.1 – 6.5 pH range. Organic plant foods within this pH range convert into usable forms more efficiently than higher or lower pH-range nutrients.

- **Agglomerated** – During the agglomeration process used by Perfect Blend, internal moisture is forced to the surface, where it can be easily removed with a minimum of heat.

AMINO ACIDS / UNITS OF PROTEIN



SOLUBILITY INDEX



- **Solubility** – The most important factor in the transformation of a solid organic fertilizer into stable soil nutrients. A higher solubility index indicates a faster entry into the soil by organic nutrients.



Growing Turf to its Full Genetic Potential

Primary Nutrients

Nitrogen
Phosphate
Potash

Secondary Nutrients

Calcium
Sulfur
Magnesium

Trace Minerals

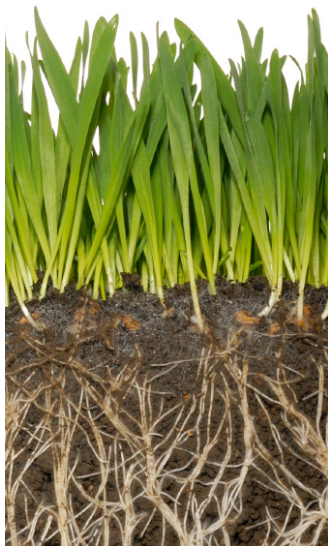
Boron
Chlorine
Cobalt
Copper
Iron
Manganese
Molybdenum
Sodium
Zinc

Amino Acids

Aspartic Acid
Threonine
Serine
Glutamic Acid
Proline
Glycine
Alanine
Cystine
Valine
Methionine
Isoleucine
Leucine
Tyrosine
Phenylalanine
Histidine
Lysine
Arginine
Tryptophan
Omega 3 oils

Vitamins

B-6
B-12
Biotin
Folic Acid
Niacin
Pantothenic Acid
Riboflavin
Thiamine
Vitamin E
Enzymes
Auxin Group
Zeatin



Biotic Fertilizer Advantages

- ✓ pH balance to 6.1 - 6.2 slightly acidic
- ✓ Low odor
- ✓ Low tracking
- ✓ Chelated - fully available to plants
- ✓ Homogenous (not blended)
- ✓ Full micro-nutrient package
- ✓ Mycorrhizal Biological Package
- ✓ Contains 7% calcium
- ✓ Contains the 14 essential nutrients required for a healthy plant
- ✓ Highly Soluble
- ✓ No leaching or volatilization
- ✓ Rebuilds organic matter in the soil
- ✓ Restores carbon to the soil
- ✓ Increases bacteria (micro-organisms) in the soil
 - o Micro-organism life span is 3-18 days
 - o Contain 96% protein
 - o Converts to 14% nitrogen
- ✓ 15-20 % less water consumption
- ✓ Safe for Kids & Pets

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