

MINNESOTA GROWN SOYBEAN MEAL FERTILIZER BLENDS FOR LAWN AND GARDEN

How did this project start?

- > Minnesota Soybean Research and Promotion Council (MSR&PC) contracted with AURI to explore fertilizer uses for soybean meal in lawn and garden markets.
- > Three different versions of soybean meal fertilizers have been formulated with AminOrganix out of Bloomington, Minnesota (MN).
- > Two of the formulations include 50 percent soybean meal, and a third contains 25 percent soybean meal.

Proven, highly effective, and safe

- > AminOrganix products have been available since the early 1990s in Minnesota.
- > AminOrganix products are presently in 200 golf courses in Florida of which six are in the top ten.
- > AminOrganix products have been successfully used in the Southeast on peanuts, strawberries, corn, squash, and cucumbers.
- > All current AminOrganix products are made with natural feed-grade ingredients in a feed-grade certified manufacturing facility (Form-A-Feed, Inc.) in Minnesota.
- > People and animals can work and play immediately after application.

Soybean meal as a soil amendment and fertilizer for lawn & garden applications*

- > Soybean meal (SBM) is used by home gardeners as both a soil amendment and fertilizer.
- > SBM is available for purchase from a variety of retailers and online.
- > SBM is considered a natural fertilizer because it contains no synthetic nitrogen, phosphorus, or potassium.
- > One of the benefits of SBM is that it is very high in nitrogen (7%) for an organic fertilizer and is naturally a slow-release fertilizer.
- > SBM contains a variety of amino acids which act as growth stimulants for both roots and leaves.

AMINORGANIX®
SUSTAINABLE SOLUTIONS FOR GROWTH

7-1-7

Organic Fertilizer
No manures, made to FDA feed grade standards
Soybean Meal content 50%

Guaranteed Analysis	Derived from:
Total Nitrogen(N)	7.00%
7.00% Water Insoluble Nitrogen*	Soybean meal, hydrolyzed poultry feather meal, sulphate of potash, potassium chloride, calcium carbonate, elemental sulfur, cobalt sulfate, iron sulfate, magnesium oxide, manganese sulfate, zinc sulfate, sodium molybdate.
Available Phosphate (P ₂ O ₅)	1.00%
Soluble Potash (K ₂ O)	7.00%
Calcium (Ca)	2.80%
Magnesium (Mg)	0.30%
0.18% Water Soluble Magnesium Sulfur (S)	1.90%
1.60% Combined Sulfur(S)	
0.30% Free Sulfur(S)	
Cobalt (Co)	0.0005%
Magnesium (Mg)	0.30%
Iron (Fe)	0.70%
0.70% Water Soluble Iron	
Manganese (Mn)	0.25%
0.08% Water Soluble Manganese	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.10%
0.10% Water Soluble Zinc	

Garden and Lawn Starter Fertilizer Project
supported by:
MINNESOTA SOYBEAN RESEARCH AND PROMOTION COUNCIL CHECKOFF

AMINORGANIX®
SUSTAINABLE SOLUTIONS FOR GROWTH

16-0-8

Natural Based Fertilizer
No manures, made to FDA feed grade standards
Soybean Meal content 50%

Guaranteed Analysis	Derived from:
Total Nitrogen(N)	16.00%
12.00% Urea Nitrogen	Urea, soybean meal, hydrolyzed poultry feather meal, sulphate of potash, potassium chloride, calcium carbonate, elemental sulfur, cobalt sulfate, iron sulfate, magnesium oxide, manganese sulfate, zinc sulfate, sodium molybdate.
4.00% Water Insoluble Nitrogen*	
Available Phosphate (P ₂ O ₅)	0.00%
Soluble Potash (K ₂ O)	8.00%
Calcium (Ca)	0.80%
Magnesium (Mg)	0.30%
0.18% Water Soluble Magnesium Sulfur (S)	1.90%
1.60% Combined Sulfur(S)	
0.30% Free Sulfur(S)	
Cobalt (Co)	0.0005%
Iron (Fe)	0.70%
0.70% Water Soluble Iron	
Manganese (Mn)	0.25%
0.08% Water Soluble Manganese	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.10%
0.10% Water Soluble Zinc	

Lawn Fertilizer Project
supported by:
MINNESOTA SOYBEAN RESEARCH AND PROMOTION COUNCIL CHECKOFF

SATISFACTION GUARANTEED

AMINORGANIX®
SUSTAINABLE SOLUTIONS FOR GROWTH

24-0-8

Natural Based Fertilizer
No manures, made to FDA feed grade standards
Soybean Meal content 25%

Guaranteed Analysis	Derived from:
Total Nitrogen(N)	24.00%
21.00% Urea Nitrogen	Urea, soybean meal, hydrolyzed poultry feather meal, sulphate of potash, potassium chloride, calcium carbonate, cobalt sulfate, iron sulfate, magnesium oxide, manganese sulfate, zinc sulfate, sodium molybdate.
3.00% Water Insoluble Nitrogen*	
Available Phosphate (P ₂ O ₅)	0.00%
Soluble Potash (K ₂ O)	8.00%
Calcium (Ca)	0.80%
Magnesium (Mg)	0.50%
0.18% Water Soluble Magnesium Sulfur (S)	1.90%
1.60% Combined Sulfur(S)	
0.30% Free Sulfur(S)	
Cobalt (Co)	0.0005%
Iron (Fe)	0.70%
0.70% Water Soluble Iron	
Manganese (Mn)	0.50%
0.08% Water Soluble Manganese	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.10%
0.10% Water Soluble Zinc	

Lawn and Garden Fertilizer Project
supported by:
MINNESOTA SOYBEAN RESEARCH AND PROMOTION COUNCIL CHECKOFF

SATISFACTION GUARANTEED



AMINORGANIX®
SUSTAINABLE SOLUTIONS FOR GROWTH

*This is a competitive product with other products in the same class.

MN grown, MN manufactured, and MN benefits to the lawn and garden sectors
Funded by the Minnesota Soybean Research & Promotion Council (MSR&PC)
in cooperation with the Agricultural Utilization Research Institute

Listen to the SBM Fertilizer
podcast episode at
auri.org/ag-innovation-news-podcast/