

General Agriculture Application Information

For

**CEREALS (SMALL GRAINS):
BARLEY, OATS, RYE, WHEAT**
Soil, Foliar and Seed Applications

Products:

The Bio-N-Liven Answer®

The Carbon Answer®

The Mineral Electrolyte Answer®

Note: Application rates are “general.”
They have been compiled over the previous 15 years
from field tests and long-term usage by growers.

Such tests are ongoing and this table will



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THE ANSWER® 2005 PRODUCT APPLICATION RATES

CEREALS (SMALL GRAINS): BARLEY, OATS, RYE, WHEAT

Application Area	The Answer® Products	Application Rate	Application Time	Dilution Rate	Method of Application	Field Observations
Soil	Bio-N-Liven Answer®	Fertile Soil: (12 fl. Oz./acre) Moderate Soil: (16 oz./acre) Problem Soil: (24 fl. Oz./acre)	Preplanting	Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Banded: Ground. Spray diluted product evenly in furrows. After application, incorporate product into soil. Rain or irrigation after application will improve product performance.	INCREASED: Soil fertility, organic matter content, water holding capacity, drainage, soil aeration
Soil	Mineral Electrolyte Answer®	Fertile Soil: (3 fl. Oz./acre) Moderate Soil: (4 fl. Oz./acre) Problem Soil: (6 fl. Oz./acre)	Preplanting	Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Banded: Ground. Spray diluted product evenly in furrows. After application, incorporate product into soil. Rain or irrigation after application will improve product performance.	INCREASED: Soil fertility, organic matter content, water holding capacity, drainage, soil aeration
Soil	Carbon Answer®	Fertile Soil: (1-2 fl. Oz./acre) Moderate Soil: (1-2 fl. Oz./acre) Problem Soil: (2-3 fl. Oz./acre)	Preplanting	Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Banded: Ground. Spray diluted product evenly in furrows. After application, incorporate product into soil. Rain or irrigation after application will improve product performance.	INCREASED: Soil fertility, organic matter content, water holding capacity, drainage, soil aeration

APPLICATION COLOR GUIDE

SOIL
 SEED
 FOLIAR



THE ANSWER® 2005 PRODUCT APPLICATION RATES

CEREALS (SMALL GRAINS): BARLEY, OATS, RYE, WHEAT

Application Area	The Answer® Products	Application Rate	Application Time	Dilution Rate	Method of Application	Field Observations
Seed	Bio-N-Liven Answer®	(2 fl. Oz./110 lbs. Seeds)	At planting	1:4	Spray diluted product in a fine mist to thoroughly coat seeds. Use any conventional sprayer. Mix seeds until dry and they do not stick together. Do not keep seeds in direct sunlight. Plant seeds as usual.	IMPROVED: Plant emergence, vigor of seedlings, root development, resistance of seedlings to stress (low temperature, drought, disease, etc.)
Seed	Mineral Electrolyte Answer®	(.5 fl. Oz./110 lbs. Seeds)	At planting	1:4	Spray diluted product in a fine mist to thoroughly coat seeds. Use any conventional sprayer. Mix seeds until dry and they do not stick together. Do not keep seeds in direct sunlight. Plant seeds as usual.	IMPROVED: Plant emergence, vigor of seedlings, root development, resistance of seedlings to stress (low temperature, drought, disease, etc.)
Foliar	Bio-N-Liven Answer®	(12 fl. Oz./acre)	Winter varieties: First growth in Spring Spring varieties: at 6-8 leaf stage	Aerial - 1:20, 1:50 Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Spray diluted product evenly on foliage using conventional spray equipment. For best uptake, apply in evening or early morning. Heavy rain or aerial irrigation within 24 hours of application will diminish product effectiveness.	IMPROVED: Maturation time, yield, protein content

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Application Area	The Answer® Products	Application Rate	Application Time	Dilution Rate	Method of Application	Field Observations
Foliar	Mineral Electrolyte Answer®	(3 fl. Oz./acre)	Winter varieties: First growth in Spring Spring varieties: at 6-8 leaf stage	Aerial - 1:20, 1:50 Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Spray diluted product evenly on foliage using conventional spray equipment. For best uptake, apply in evening or early morning. Heavy rain or aerial irrigation within 24 hours of application will diminish product effectiveness.	IMPROVED: Maturation time, yield, protein content
Foliar	Carbon Answer®	(1 oz./acre)	Winter varieties: First growth in Spring Spring varieties: at 6-8 leaf stage	Aerial - 1:20, 1:50 Ground - at least 1:100 Dilution rate may vary depending on spray equipment used.	Spray diluted product evenly on foliage using conventional spray equipment. For best uptake, apply in evening or early morning. Heavy rain or aerial irrigation within 24 hours of application will diminish product effectiveness.	IMPROVED: Maturation time, yield, protein content

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be updated as more information
is made available.



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