# Meherrin Agronomy Label Book

## AGRONOMY PRODUCTS

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## N-P-K Products

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Directions for Commercial Use:
System-Advance SR™ is intended for foliar use. Foliar: Apply 1 to 6 pints per acre with sufficient water for thorough coverage. Apply to wet – avoid over-wetting leaves and run-off. If sufficient canopy exists, System-Advance SR™ can be applied via center pivot irrigation using a fast lap. System-Advance SR™ can be applied at any time during the growing season at 7-14 day intervals for a maximum of 5 times during the growing season. However, applications are most effective when applied early to mid-season when plant demand for key micronutrients is highest. Consult System-Advance Tech Sheet for specific crop recommendations. General application timings on annual crops begin as early as 3-4 leaf stage and continue through early bloom depending on the crop. System-Advance SR™ is compatible with glyphosate and most pesticides and can be applied together if compatible. For maximum efficacy on glyphosate tolerant crops apply System-Advance SR 7-10 days after glyphosate.

APPLICATION PRECAUTIONS:
System-Advance SR™ is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-Advance SR™ to any mixture. Never mix System-Advance SR™ in a concentrated form with other fertilizers or pesticides.

Guaranteed Analysis:
- Total Nitrogen (N): 5.0%
- Sulfur (S): 1.25%
- Boron (B): 0.10%
- Manganese (Mn): 2.0%
- 2.0% Water Soluble Manganese
- Molybdenum (Mo): 0.01%
- Zinc (Zn): 4.0%

Derived from
- Urea Phosphite, Boric Acid, Ammonium Molybdate, Manganese Carbonate, Zinc Oxide and Zinc Sulfate

Net Wgt 28.25 lbs / 2.5 gal

Science-Driven NutritionSM

Do not mix System-Advance SR™ with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/acre or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qt/acre or 1.0%, whichever is less. Do not apply System-Advance SR™ with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS – 19% PHOSPHOROUS ACID

WARRANTY
1. The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2. Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE
US patents pending
Sysstem-Advance SR™ is a foliar fertilizer combining nitrogen, sulfur, zinc, manganese, boron and molybdenum in a phosphite form. It is designed for use on a variety of row crops to meet peak nutrient demand for micronutrients between V4 and R1. Meeting peak demand for micronutrients is key to maximizing yield potential. Applying Sysstem-Advance SR™ early season on conventional and/or glyphosate tolerant crops at critical development stages will prevent and/or correct a variety of micronutrient deficiencies, ensuring maximum yield potential.

Sysstem-Advance SR™, due to its systemic activity, enhances nutrient uptake and mobility within the plant. Demand for zinc, manganese and boron increases dramatically between V4 & V6 when spring soils are cold and wet, often limiting nutrient availability and hindering root development. Because Sysstem-Advance SR™ is phloem active, it provides nutrients in a form that not only satisfies specific nutritional demands, but also promotes strong root and leaf development while encouraging increased moisture and soil nutrient uptake. Sysstem-Advance SR™ is compatible with glyphosate and most fungicides, making it easy to integrate into spray programs without additional field trips. It is easy to integrate into spray programs due to its Science-Driven NutritionSM technology.

Guaranteed Analysis:

- Total Nitrogen (N): 5.0%
- Sulfur (S): 1.25%
- Boron (B): 0.10%
- Manganese (Mn): 2.0%
- Molybdenum (Mo): 0.01%
- Zinc (Zn): 4.0%
- Derived from Urea Phosphite, Boric Acid, Ammonium Molybdate, Manganese Carbonate, Zinc Oxide and Zinc Sulfate

Directions For Use:

- Apply 1 to 6 pints per acre with sufficient water for thorough coverage. Apply to wet leaves and avoid over-wetting leaves or run-off. Apply at any time during the growing season, but apply before development of new flush begins.
- Apply 2.5 gallons per acre for best results. For maximum yield potential, apply before development of new flush begins.
- Apply with or without a surfactant, but always follow label instructions.

Availability:

- 2.5 gallon container

Science-Driven NutritionSM is a registered trademark of Agro-K Corporation. Sysstem-Advance SR™ is a Science-Driven NutritionSM fertilizer system.
**Suggested Uses**

**Corn**
(Field Corn, Popcorn and Sweet Corn).
Apply 2 to 4 pints per application, from v4 thru v12. If growing glyphosate tolerant corn, System-Advance SR can be applied with glyphosate or preferably applied separately 7-10 days after glyphosate application. If applying on conventional corn in combination with other fertilizers or pesticides, a compatibility jar test is recommended before tank mixing. If sufficient canopy is available applications can be made via overhead irrigation preferably utilizing a “fast lap”. Make 1 to 3 applications per growing season. Do not apply more frequently than 7 day intervals.

**Soybeans**
Apply 1 to 3 pints per application. First application should be made at the second to third trifoliate. If growing glyphosate tolerant soybeans, System-Advance SR can be applied with glyphosate or preferably applied separately 7-10 days after glyphosate application. If applying on conventional beans in combination with other fertilizers or pesticides, a compatibility jar test is recommended before tank mixing. If sufficient canopy is available System-Advance SR can also be applied through overhead irrigation preferably utilizing a “fast lap”.

**Sugar Beets**
Apply 1 to 4 pints per application. If applying with fungicide or herbicide in a narrow band, use 1 pint per acre. System Advance SR can be applied with each herbicide application or chemigated via overhead irrigation with sufficient leaf canopy. If growing glyphosate tolerant beets, System-Advance SR can be applied with glyphosate or preferably applied separately 7-10 days after glyphosate application. Do not apply more frequently than 7 day intervals.

**Dry Beans, String Beans and Peas**
Apply 1 to 2 quarts per application. Apply anytime from 1st trifoliate through bloom. System Advance SR can be applied with fungicides and insecticides. If applying with herbicides, a jar test is recommended.

**Alfalfa**
Apply 1-2 quarts per application. Make first application when regrowth is 2 to 3 inches tall or when applying herbicides, fungicides or insecticides. A compatibility check is recommended. Additional applications can be made after each cutting at 3 to 4 inches of regrowth. If applying via overhead irrigation, apply on the second revolution.

**Spring Seeded Small Grains**
(INCLUDING CORN, SOYBEANS, BARLEY, MORTON, WINTER WHEAT, RYE)
Apply 1-3 pints per acre with herbicide, or just prior to strong foliar growth, and/or at flag leaf formation. A compatibility jar test is recommended especially if applying with amine formulations.

**Winter Wheat**
Apply 1 to 4 pints/acre with spring fertilizer or herbicide application or through overhead irrigation. A second application can be made from flag leaf formulation through head fill. System-Advance SR can be applied with fungicides or insecticides. A compatibility jar test is recommended.

**Cotton**
Apply 1 to 4 pints per application. If growing glyphosate tolerant cotton, System-Advance SR can be applied with glyphosate or preferably applied separately 7-10 days after glyphosate application. Do not apply more frequently than 7 day intervals.
Directions for Commercial Use:

- System-CAL is intended for foliar use. Foliar: Apply 1 to 4 quarts per acre with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 8 times during the growing season. Avoid applications when temperatures are extreme (above 85°F). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product.

APPLICATION PRECAUTIONS:

- System-CAL is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-CAL to any mixture. Never mix System-CAL in a concentrated form with other fertilizers or pesticides.
- Do not mix System-CAL with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/acre or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qt/acre or 1.0%, whichever is less.
- Do not apply System-CAL with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.
- **ALSO CONTAINS NON-PLANT FOOD INGREDIENTS – 12% PHOSPHOROUS ACID**

Guaranteed Analysis:

- Calcium (Ca) 4.0%
- Copper (Cu) 0.25%

Derived from

- Calcium Carbonate, Copper Carbonate

Net Wgt. 25 lbs. /2.5 gal

**Warranty**

1. The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2. Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

**SHAKE WELL BEFORE USE**

**WARNING**

KEEP OUT OF REACH OF CHILDREN

**Science-Driven Nutrition SM**

Information regarding the contents and levels of metals in this product is available on the internet at [http://www.aapfco.org/metals.htm](http://www.aapfco.org/metals.htm).
Syssystem™-Cal, a calcium and copper foliar fertilizer designed to improve fruit quality and firmness. Soil available calcium does not move easily within plants, and most plants’ roots take up calcium through their roots. Foliar application of calcium can help increase calcium levels and help improve fruit quality. Calcium is a key component of cell wall development. Increased calcium levels lead to thicker, firmer cell walls, which improves overall fruit integrity, firmness, and storage life. Calcium is also important for calcium uptake and mobility in plants, which can be affected by low pH solutions. Syssystem™-Cal links calcium to a unique trans-locating mobility-ion that greatly improves calcium uptake and mobility.

**Guaranteed Analysis**
- Calcium (Ca) - 4.0%
- Copper (Cu) - 0.25%

**Derived From**
- Calcium derived from Calcium Carbonate
- Copper derived from Copper Carbonate

**Directions For Use**
- 2.5 and 250 gallon
- Foliar: Apply 1 to 5 quarts per acre (2.5 to 10 liters per hectare) with a suitable water spray. Apply 1 to 2 days before other products. Syssystem-Cal should not be mixed with pesticides or other products that are sensitive to low pH solutions. Syssystem-Cal is not recommended before mixing with other products unless recommended by a Syssystem-Cal specialist.
- Syssystem-Cal is compatible with many fertilizer and pesticide programs, but compatible mixtures are recommended before mixing. Syssystem-Cal is compatible with many fertilizer and pesticide programs. When not applying Syssystem-Cal, mix other products before applying Syssystem-Cal with other products. If you have any questions regarding mixing or application, please contact Agro-K before using this product.

**Availability**
- 2.5 and 250 gallon

**Science-Driven NutritionSM**
Tomatoes, Peppers, Cucumbers
Apply 1 to 4 quarts per acre per application. Apply the first application immediately prior to harvest. Apply the final application at the last harvest.

Lettuce, Spinach and Other Leafy Vegetables as well as Broccoli, Cauliflower and Other Brassica Varieties
Apply 1 to 4 quarts per acre per application. Apply the first application 7 days after transplanting, thinning, or at second true leaf stage. Apply two to three subsequent applications at 10 day intervals.

Corn, Beans and Peas
Apply 1 to 4 quarts per acre per application. A first application can be ground applied with starter fertilizers if carefully mixed in a dilute solution (contact Agro-K for more information). Otherwise, apply the first application at the second or third leaf. Apply one to two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

Strawberries
Apply 1 to 4 quarts per acre per application. Apply the first application immediately after harvest. Apply two to three subsequent applications at 10 to 14 day intervals.

Potatoes, Onions and Other Vegetable Root, Bulb or Tuber Crops
Apply 1 to 5 quarts per acre per application. Apply the first application at 10 days pre-harvest. Apply three subsequent applications at 10 to 14 day intervals.

Nut Crops
Apply 1 to 4 quarts per acre per application. Apply first application pre-bloom. Apply subsequent applications at petal fall and 10-14 days later.

Plums, Peaches, Cherries and Other Stone Fruits
Apply 1 to 4 quarts per acre per application. Apply first application at pink to first bloom. Apply subsequent applications at 10-14 day intervals up to pit hardening.

Apples, Peers and Other Pome Fruits
Apply 1 to 4 quarts per acre per application. Apply first application at pink to first bloom. Apply subsequent applications at petal fall and 10-14 days later.

Citrus and Avocados
Apply 1 to 4 quarts per acre per application. Apply first application pre-bloom. Apply subsequent applications at 30 day intervals up to harvest or as needed to supplement nutritional requirements.

Grapes
Apply 1 to 4 quarts per acre per application. Apply first application two weeks prior to bloom. Apply subsequent applications at bloom and at shatter.

Blueberries
Apply 1 to 4 quarts per acre per application. Apply the first application at bloom. Apply two to three subsequent applications at 10 day intervals.

Raspberries, Blackberries and Other Caneberries
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Cherries and Other Stone Fruits
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Lettuce, Spinach and Other Leafy Vegetables
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Raspberries, Blackberries and Other Caneberries
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Other Fruits and Berries
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Blueberries
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Tomatoes, Peppers, Cucumbers
Apply 1 to 4 quarts per acre per application. Apply the first application immediately before harvest. Apply two to three subsequent applications at 10 day intervals.

Suggested Uses

System-Cal Tech Sheet
Agro-K Corporation    8030 Main Street, NE    Minneapolis, MN 55432
Phone: 763-780-4116    Toll Free: 800-328-2418    Fax: 763-780-4316
www.agro-k.com    info@agro-k.com
Directions for Commercial Use:
Sysstem-K is for soil or foliar use. Foliar: Apply 1 to 5 quarts per acre (2.5 to 12.5 liters per hectare) with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F/32°C). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. Soil Use: Apply 2 to 5 quarts per acre (2.5 to 12.5 liters/hectare). Product can be injected in to irrigation systems or band sprayed at the base of crop row. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product. Sysstem-K is compatible with many fertilizers and pesticides, but a compatibility check is recommended.

APPLICATION PRECAUTIONS:
Sysstem-K is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-K to any mixture. Never mix Sysstem-K in a concentrated form with other fertilizers or pesticides.
Do not mix Sysstem-K with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1qt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qt/ac or 1.0%, whichever is less.
Do not apply Sysstem-K with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Guaranteed Analysis:
Soluble Potash (K2O) 20%

Derived from
Potassium Phosphite

Net Wgt. 31.25 lbs. /2.5 gal

Warranty
1.-The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.

2.-Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE
WARNING
KEEP OUT OF REACH OF CHILDREN

Also Contains Non-Plant Food Ingredients –
30% Phosphorous Acid

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm.
Directions for Commercial Use:
System-MG is intended for foliar use. Foliar: Apply 1 to 2 quarts per acre (2.5 to 5 liters per hectare) with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F/32°C). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product.

APPLICATION PRECAUTIONS:
System-MG is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-MG to any mixture. Never mix System-MG in a concentrated form with other fertilizers or pesticides.

Do not mix System-MG with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.

Do not apply System-MG with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Also contains Non-Plant Food Ingredients – 35% Phosphorous Acid

Guaranteed Analysis:
Magnesium (Mg) 5.0%

Derived from
Magnesium Carbonate

Net Wgt. 29 lbs. /2.5 gal

System Series 5173

Science-Driven NutritionSM

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SHAKE WELL BEFORE USE
WARNING
KEEP OUT OF REACH OF CHILDREN

US patents pending
Agro-K Corporation    8030 Main Street, NE    Minneapolis, MN 55432
Phone: 763-780-4116    Fax: 763-780-4316
www.agro-k.com    info@agro-k.com
Toll Free: 800-328-2418    Toll Free: 800-328-2418

Foliar Nutrients

Sysstem™-MG is a foliar magnesium fertilizer which can be used at all plant growth stages to correct magnesium deficiencies but is particularly effective early season. Proper nutrient balance is critical to maintaining overall plant health and for proper physiological development. As the central element in chlorophyll, magnesium is critical in effective chlorophyll development and photosynthesis. Peak demand timing for magnesium is early season to help establish the plant factory that is necessary in any crop to support a successful growing season and to deliver quality fruit at harvest.

Sysstem™-MG is part of Agro-K’s Sysstem™ line. Sysstem™ products are designed to work together to maximize crop quality. They are compatible with most pesticides, making it easy to integrate into spray programs. Sysstem™-MG is designed to work with pesticides. Pest control and systemic fungicides are recommended before using Sysstem™-MG in structures that are covered with pesticides. It is recommended to apply the two products together. The combination of these nutrients and the correct amount of water allowed for thorough coverage is critical to delivering optimal results. Do not apply early in the morning or late afternoon. Do not apply to crops that are sensitive to magnesium. The application window is limited to any time of day when the temperature is above 65°F. Apply for best results.

Directions For Use
2.5 and 250 gallon

Availability
Magnesium derived from Magnesium Carbonate

Derived From
Magnesium (Mg) - 5%

Guaranteed Analysis

Guaranteed Analysis

Fertilizer Tech Sheet

Science-Driven Nutrition

Sysstem™-MG

Sysstem™-MG
Suggested Uses

**Tomatoes, Peppers, Cucumbers**
Apply 1 to 2 quarts per acre per application. Apply the first application 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 10-14 day intervals as needed to correct deficiencies or supplement nutritional requirements.

**Lettuce, Spinach and Other Leafy Vegetables as well as Broccoli, Cauliflower and Other Brassica Varieties**
Apply 1 to 2 quarts per acre per application. Apply the first application 7 days after transplanting, thinning, or at second true leaf stage. Apply one or two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

**Com, Beans and Peas**
Apply 1 to 2 quarts per acre per application. A first application can be ground applied with starter fertilizers if carefully mixed in a dilute solution (contact Agro-K for more information). Otherwise, apply the first application at the second or third leaf. Apply one to two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

**Strawberries**
Apply 1 to 2 quarts per acre per application. Apply the first application 7-10 days after transplanting. Reapply at 7-14 day intervals through first bloom. System™-MG is compatible with System™-ZN and can be applied together. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Potatoes, Onions and Other Vegetable Root, Bulb or Tuber Crops**
Apply 1 to 5 quarts per acre per application. Apply the first application 2-3 weeks post emergence. Apply a subsequent application at hooking, plus two more applications at 14 day intervals.

**Nut Crops**
Apply 1 to 4 quarts per acre per application. Apply first application at bud break. Apply a subsequent application pre-bloom. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Citrus and Avocados**
Apply 1 to 4 quarts per acre per application. Apply first application post-bloom. Apply subsequent applications post-harvest.

**Grapes**
Apply 1 to 2 quarts per acre per application. Apply first application between budbreak and 6” of shoot growth. Apply 1-2 subsequent applications between early shoot development and bloom. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Plums, Peaches, Cherries and Other Stone Fruits**
Apply 1 to 3 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply 1 or 2 subsequent applications as needed. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Blueberries**
Apply 1 to 4 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply a subsequent application pre-bloom. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Blueberries**
Apply 1 to 3 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply 1 or 2 subsequent applications as needed. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Raspberries, Blackberries and Other Caneberries**
Apply 1 to 2 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply 1 or 2 subsequent applications as needed. Reapply System™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. System™-MG is compatible with System™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Apples, Pears and Other Pome Fruits**
Apply 1 to 4 quarts per acre per application. Apply first application at green tip or bud break. Apply 1 to 2 subsequent applications pre-bloom.
Directions for Commercial Use:
Sysstem-MN is intended for foliar use. Foliar: Apply 1 to 4 pints per acre with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F/32°C). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product.

APPLICATION PRECAUTIONS:
Sysstem-MN is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-MN to any mixture. Never mix Sysstem-MN in a concentrated form with other fertilizers or pesticides.

Do not mix Sysstem-MN with pesticides that are sensitive to low pH solutions, including copper-based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.

Do not apply Sysstem-MN with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm.

Warranty
1.-The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.

2.-Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE
WARNING
KEEP OUT OF REACH OF CHILDREN
Sysstem®-MN is a foliar manganese fertilizer. Sysstem®-MN can be used at all plant growth stages to correct manganese deficiencies. Proper nutrient balance is critical to maintaining overall plant health and for proper fruit and vegetable production. Sysstem®-MN improves color in green fruits, such as Granny Smith apples.

Sysstem®-MN is part of Agro-K’s Sysstem foliar line. The elemental manganese in Sysstem®-MN is linked to a unique trans-locating mobility-ion that enhances the nutrient uptake and mobility within the plant. Sysstem®-MN’s special form makes it significantly more effective than standard foliar manganese products that have limited uptake and plant availability.

Guaranteed Analysis
Manganese (Mn) - 4.5%

System®-MN is compatible with many pesticides and most other products. System®-MN is designed to work alone or in combination with other products. Overall, System®-MN is more effective than other foliar manganese products.

Directions For Use
2.5 and 250 gallon

Availability
Manganese derived from Manganese Carbonate

Deerveed From
Manganese (Mn) - 4.5%

Guaranteed Analysis

Science-Driven NutritionSM
Sysstem®-MN FERTILIZER TECH SHEET
Suggested Uses

**Other Cabbage, Broccoli, Cauliflower and Other Cruciferous Vegetables**

Applications as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Corn, Beans and Peas**

Applications as needed to supplement nutritional requirements. Apply first application at or before the second true leaf stage. Apply subsequent applications at 10 to 14 day intervals up to harvest or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Citrus and Avocados**

Applications as needed to supplement nutritional requirements. Apply first application at or before bloom. Apply subsequent applications at 30 day intervals up to harvest or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Grapes**

Applications as needed to supplement nutritional requirements. Apply first application two weeks prior to bloom. Apply subsequent applications at 10 to 14 day intervals up to harvest or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Plums, Peaches, Cherries and Other Stone Fruits**

Applications as needed to supplement nutritional requirements. Apply first application at green tip on plums and at pink bud on nectarines and other stone fruit. Apply subsequent applications at 30 day intervals up to pit hardening or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Apples, Pears and Other Pome Fruits**

Applications as needed to supplement nutritional requirements. Apply first application at green tip or bud break. Apply subsequent applications at petal fall and post thinning as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Raspberries, Blackberries and Other Caneberries**

Applications as needed to supplement nutritional requirements. Apply first application pre-bloom. Apply subsequent applications at 7-14 day intervals as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Tomatoes, Peppers, Cucumbers**

Applications as needed to supplement nutritional requirements. Apply first application at 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 10 to 14 day intervals up to harvest or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Lettuce, Spinach and Other Leafy Vegetables as well as Broccoli, Cauliflower and Other Brassica Varieties**

Applications as needed to supplement nutritional requirements. Apply first application at 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 10 to 14 day intervals up to harvest or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Nut Crops**

Applications as needed to supplement nutritional requirements. Apply first application at bud break. Apply subsequent applications at petal fall or as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.

**Strawberries**

Applications as needed to supplement nutritional requirements. Apply first application 7-10 days after transplanting. Apply subsequent applications at 7-14 day intervals as needed to supplement nutritional requirements. Apply 1 to 2 quarts per acre per application.
Directions for Commercial Use:

Sysstem-Moly-Z is intended for foliar use. Foliar: Apply 1 to 2 quarts per acre (2.5 to 5 liters per hectare) with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. If a spreader/sticker is needed, pre-mix Sysstem-Moly-Z with SprayTech Oil at a rate of 1 pint/acre (1 liter per hectare). Spray in early morning or late afternoon. Do not apply during the “sunlight” hours when air temperature is above 85º F/30º C. Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product. Sysstem-Moly-Z is compatible with many fertilizers and pesticides, but a compatibility check is recommended. Do not mix Sysstem-Moly-Z with nicotine based insecticides or other products that require an alkaline solution.

APPLICATION PRECAUTIONS:

Sysstem-Moly-Z is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-Moly-Z to any mixture. Never mix Sysstem-Moly-Z in a concentrated form with other fertilizers or pesticides.

Do not mix Sysstem-Moly-Z with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.

Do not apply Sysstem-Moly-Z with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS - 25% PHOSPHOROUS ACID

Guaranteed Analysis:
Molybdenum (Mo) 0.4%
Zinc (Zn) 7.5%

Derived from
Zinc Carbonate and Ammonium Molybdate

Net Wgt 29 lbs / 2.5 gal

Warranty
1.-The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2.-Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE

WARNING
KEEP OUT OF REACH OF CHILDREN

The application of fertilizing materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.
Sysstem™-MolyZ is a foliar zinc and molybdenum fertilizer that is designed for early season use up through pre-bloom sprays on tree and vine crops and on legume crops. Sysstem™-MolyZ is particularly effective at early season & pre-bloom when zinc demand peaks. Molybdenum has been shown to be particularly effective in increasing fruit set. The elemental zinc and molybdenum in Sysstem™-MolyZ are linked to a unique translocating mobility-ion that enhances the nutrient uptake and mobility within the plant. Sysstem™-MolyZ's special form makes it significantly more effective than standard foliar products that have limited uptake and plant availability.

Zinc plays many important functions within the plant. It regulates various hormone functions that are necessary to ensure proper bud break, root and vascular development and optimal leaf size. Because zinc is critical in leaf development and size, field results show applying Sysstem™-MolyZ early season can dramatically increase leaf size, maximizing total photosynthesis surface area – a key factor in a plant's ability to support and size a heavy crop load.

Sysstem™-MolyZ is part of Agro-K’s revolutionary Sysstem™ foliar line. Sysstem products are designed to work together to maximize crop quality. They are compatible with each other and most pesticides, making them easy to integrate into spray programs.

**Guaranteed Analysis**
- Zinc (Zn) - 7.5%
- Molybdenum (Mo) - 0.4%

**Derived From**
Zinc Carbonate and Ammonium Molybdate

**Availability**
2.5 and 250 gallon

**Directions For Use**
Sysstem-MolyZ is intended for foliar use. Foliar: Apply 1 to 2 quarts per acre with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F/32°C). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact Agro-K before using this product.
**Suggested Uses**

**Almonds, Walnuts and Other Nut Crops**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Plums, Peaches, Cherries and Other Stone Fruits**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Apples, Pears and Other Pome Fruits**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Citrus and Avocados**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Grapes**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Blueberries**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Raspberries, Blackberries and Other Caneberries (and Other Stone Fruits)**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.

**Legume Crops**
Use of Sysstem-MolyZ can benefit legume crops by enhancing root mass, root nodulation and seed set. On alfalfa, apply 1-2 qts/ac when regrowth is between 2-4". Reapplications can be made after each cutting at the 2-4" stage. On legumes where increased seed set is desired, apply 1-2 qts/ac before bloom. On legumes where increased seed size is desired, apply 1-2 qts/ac after bloom. Seed size on legumes where increased seed size is desired can be increased after each cutting at the 2-4" stage. Reapplications are recommended at 2-4" regrowth. Application can be made up to 7-10 days pre-bloom and up to 5% bloom. Apply 1-2 qts/ac before bloom and 5% bloom.

**Other Stone Fruits, Plums, Peaches, Cherries and Other Caneberries (and Other Stone Fruits)**
Apply 1 to 2 quarts per acre per application. Apply first application approximately 30 days pre-bloom and repeat 7-10 days pre-bloom.
Directions for Commercial Use:

System-Ready™ is intended for foliar use. Foliar: Apply 1 to 8 pints per acre with sufficient water for thorough coverage. Apply to wet – avoid over-wetting leaves and run-off. Do not apply to wet fruit and leaves in slow drying conditions. System-Ready™ can be applied at any time during the growing season at 5-14 day intervals for a maximum of 5 times during the growing season. Applications are most effective when applied early in the growing season when plant demand for zinc and manganese is highest. Recommended timings on annual crops begin as early as 2-3 leaf stage and continue through early bloom depending on the crop. System-Ready™ is compatible with glyphosate and most pesticides and can be applied together. Recommended timings on perennial tree fruit, nut, vine and berries crops: Apply in appropriate environmental conditions during rapid shoot and leaf development. Apply at any time during the growing season when zinc and/or manganese deficiencies are present. Apply at hull split on nut crops. Apply post-harvest, while leaves are still in good condition, on tree fruit, nut and vine crops.

APPLICATION PRECAUTIONS:

System-Ready™ is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-Ready™ to any mixture. Never mix System-Ready™ in a concentrated form with other fertilizers or pesticides.

Guaranteed Analysis:

Manganese (Mn) 2.75%
Zinc (Zn) 4.25%

Derived from
Manganese Carbonate and Zinc Carbonate

Net Wgt 28.25 lbs / 2.5 gal

Do not mix System-Ready™ with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less. Do not apply System-Ready™ with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

WARRANTY

1. The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2. Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE

US patents pending
Sysstem-Ready™ is a foliar fertility combining zinc and manganese phosphite. Sysstem-Ready™ is designed for early season use in a wide variety of row crops to meet peak nutritional demands and to prevent and/or correct micronutrient deficiencies ensuring that maximum yield and/or glyphosate tolerant crops will prevent and/or correct micronutrient deficiencies ensuring that maximum yield.

Sysstem-Ready™, due to its unique mobility

Guaranteed Analysis
Manganese (Mn) - 2.75%
Zinc (Zn) - 4.25%

Derived From
Manganese Carbonate and Zinc Carbonate

Availability
2.5 and 250 gallon

Directions For Use
Sysstem-Ready™ is intended for foliar use. Foliar: Apply 1 to 5 pints per acre with sufficient water for thorough coverage. Apply: Apply 1 to 5 pints per acre with sufficient water for thorough coverage.

2.5 and 250 gallon
Corn
Apply 1 to 2 quarts per acre per application. Apply first application at v-4 to v-6. If growing glyphosate tolerant corn, product can be applied with glyphosate or applied separately 8-10 days after glyphosate. If a second glyphosate application is made System-Ready can also be applied with the second weed control spray.

Soybeans
Apply 1 to 2 quarts per acre. The most effective application of System-Ready is made 2 days after the glyphosate application. System-Ready can be combined with most fungicide applications but a compatibility check is recommended. If growing glyphosate tolerant soybeans, product can be applied with glyphosate or applied separately 8-10 days after glyphosate.

Sugar Beets
Apply 1 to 2 quarts per acre. Apply the first application at the first leaf stage followed by a second application 14-21 days later. Application can be combined with most fungicide applications, but a compatibility check is recommended. If growing glyphosate tolerant sugar beets, product can be applied with glyphosate or applied separately 8-10 days after glyphosate.

Dry Beans, String Beans and Peas
Apply 1 to 2 quarts per acre. Application should be made 2 to 3 days after the previous application of System-Ready. A minimum of 1 inch of water applied to the soil after the previous application is recommended. A minimum of 1 inch of water applied to the soil after the previous application is recommended. A minimum of 1 inch of water applied to the soil after the previous application is recommended.

Lettuce, Spinach, Endive and Other Leafy Vegetables
Apply 1 to 2 quarts per acre. Application should be made 2 to 3 days after the previous application of System-Ready. A minimum of 1 inch of water applied to the soil after the previous application is recommended. A minimum of 1 inch of water applied to the soil after the previous application is recommended.

Alfalfa and Hay Crops
Apply 1-2 quarts per application. First application can be made in the spring prior to strong foliar growth. Additional applications can be made 7-10 days after the previous application. Applications can be made via center pivot irrigation as long as sufficient foliage canopy is available. Minimize the amount of water applied to no more than ¼ inch and run center pivot at fast speed.

Potatoes, Onions and Other Vegetable Root, Bulb or Tuber Crops
Apply 1 to 5 quarts per acre. Application should be made 2 to 3 days after the previous application of System-Ready. A minimum of 1 inch of water applied to the soil after the previous application is recommended. A minimum of 1 inch of water applied to the soil after the previous application is recommended.
Directions for Commercial Use:
Sysstem-Pecan is designed for foliar use. Foliar: Apply 1 to 4 quarts per acre with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product.

APPLICATION PRECAUTIONS:
Sysstem-Pecan is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-Pecan to any mixture. Never mix Sysstem-Pecan in a concentrated form with other fertilizers or pesticides.

Do not mix Sysstem-Pecan with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.

Do not apply Sysstem-Pecan with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Also Contains Non-Plant Food Ingredients - 35% Phosphorus Acid

Guaranteed Analysis:
- Nickel (Ni) 0.8%
- Zinc (Zn) 8.0%

Derived from
Nickel Carbonate, Zinc Carbonate

Net Wgt 28.25 lbs / 2.5 gal

Warranty
1. The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.

2. Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE

WARNING
KEEP OUT OF REACH OF CHILDREN
Sysstem®-Pecan is a foliar fertilizer combining zinc and nickel phosphite. Sysstem®-Pecan is designed for early season use in pecans and other crops requiring zinc and nickel to meet peak nutrient demand timing for zinc and nickel. Proper nutrition early in a crop’s cycle, including peak nutrient demand of the tree, also helps establish a strong root and leaf development to promote strong fruit yield and eventual yield. Proper nutrition during peak demand of the tree also helps ensure maximum nut yield.

Sysstem®-Pecan, due to its unique phosphite base, enhances nutrient uptake and mobility within the plant. Early season is peak demand for zinc to maximize leaf and root development. Nickel is also a critical micronutrient on pecans. Nickel deficiencies can result in “mouse ear”. Because Sysstem®-Pecan is phloem active, it provides zinc and nickel in a form that not only satisfies the nutrient needs of the tree, but also promotes strong root and leaf development while encouraging increased nutrient uptake and mobility within the plant. Early season application of Sysstem®-Pecan will prevent and/or correct micronutrient deficiencies, ensuring peak production and fruit quality.

Guaranteed Analysis

- Nickel (Ni) - 0.8%

Availability

Nickel Carbonate and Zinc Carbonate

Directions For Use

2.5

For foliar use, jets contact your Agro-K dealer before using the product. Some fungicides and insecticides may interfere with the effectiveness of System®-Pecan. Contact your Agro-K dealer if you have any questions regarding mixing or application.

Instructions for application are: Apply 1 to 4 quarts per acre with sufficient water for thorough coverage. The product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Apply System®-Pecan early in the growing season. Product is designed for foliar use. The System®-Pecan Tech Sheet should be referred to for more detailed application information.

If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product.
Apply 1 to 4 quarts per acre per application. Apply first application after bud break during early leaf expansion. Make subsequent applications on 7-21 day intervals as indicated by the crop. Apply no more than one to four quarts per acre per application. Apply first application after bud break during early leaf expansion.

Apply system-Pecan in a minimum of 40 gallons of water per acre. Apply with air-blast type sprayers in a minimum of 40 gallons of water per acre. Apply between bud break and bloom, and during leaf expansion.

System-Pecan is compatible with many fertilizers and pesticides, but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-Pecan to any mixture. Never mix System-Pecan in a concentrated form with other fertilizers or pesticides. Do not mix System-Pecan with pesticide that are sensitive to low pH solutions, including copper-based products.

Contact your crop advisor for more information.
Directions for Commercial Use:
System Sea-Cal is designed for foliar use on fruit and nut crops to maximize cell division and to build strong, durable cell walls. System Sea-Cal is most effective beginning at first bloom and continuing through the end of cell division. The recommended application rate is 1 to 4 quarts per acre. System Sea-Cal can be applied 2 - 3 times @ 7 – 10 day intervals between first bloom and the end of cell division. On annual crops that bloom continuously, System Sea-Cal can also be used during the growing season to prior to periods of intense heat to minimize heat stress on all plants.

APPLICATION PRECAUTIONS:
System Sea-Cal is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System Sea-Cal to any mixture. Never mix System Sea-Cal in a concentrated form with other fertilizers or pesticides.
Do not mix System Sea-Cal with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1 pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2 qts/ac or 1.0%, whichever is less.
Do not apply System Sea-Cal with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Guaranteed Analysis:
Calcium (Ca) 4.0%
Derived from Calcium Carbonate and Ascophyllum Nodosum

Warranty
1.- The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2.- Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.
Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE
KEEP OUT OF REACH OF CHILDREN

System Series 5233

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(800) 328-2418 • (763) 780-4116
www.agro-k.com
Item# 5233
Sysstem™-SeaCal, combines two powerful foliar materials, Sysstem-Cal® and Symspray® into one convenient package. Agro-K’s calcium phosphite fertilizer, Sysstem-Cal, is designed to improve fruit quality and firmness leading to higher packouts. Agro-K’s foliar seaweed, Symspray, is designed to enhance a variety of physiological stages such as flowering, fruit/nut set, fruit/nut retention and fruit/nut size. Combined into one package these two foliar materials can be instrumental in helping growers maximize fruit quality, yield and profitability.

Many soils can be short in available calcium. In addition, calcium does not move easily in the soil or within plant tissue. It is translocated through the xylem - moving generally to the leaves - where it gets bound into cell wall structures. Calcium is a key component of cell wall development; increased fruit/nut calcium levels lead to thicker, firmer cell walls which improve overall fruit integrity, firmness, weight and shelf life. Sysstem™-SeaCal addresses the limited mobility of calcium by supplying it directly to the fruit and surrounding foliage in a phosphite formulation which greatly improves uptake and mobility.

Peak demand timing for calcium is during fruit/nut cell division which begins immediately at fruit set and continues through nut cell division. These critical stages are when fruit/nut calcium levels are most effective. Calcium is also critical in the developing fruit where it influences calcium translocation and uptake in the young fruit. Calcium deficiency can be a common issue in many fruit crops. Calcium deficiency can be corrected by increasing calcium availability through the use of foliar calcium fertilizers. Calcium can be applied directly to the fruit, surrounding foliage and soil through foliar calcium sprays or in soil or tank mix fertilizer applications.

**Guaranteed Analysis**
- Total Phosphoric Acid (P₂O₅) - 14.0%
- Calcium (Ca) - 4.0%
- Derived From: Phosphorous Acid, Calcium Carbonate and Ascophyllum Nodosum

**Available in**
- 2.5 gallon

**Directions For Use**
Sysstem Sea-Cal is designed for foliar use on fruit and nut crops to maximize cell division and to build strong, durable cell walls. Sysstem Sea-Cal is most effective beginning at first bloom and peaking with full bloom. It can be applied 2-3 times a week to optimize effect. Use 4-6 gallons per acre.

**Science-Driven NutritionSM**
Suggested Uses

Tomatoes, Peppers, Cucumbers
Apply 1-4 pints per acre per application. Apply first application at 1-2 weeks post bloom. Apply second or subsequent applications at 2-3 week intervals to cover the entire growing season. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Melon Crops
Apply 2-4 pints per acre. Apply first application beginning at bloom. Apply second or subsequent applications at 10-14 day intervals to ensure maximum fruit set, size, and firmness for the entire growing season. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Apples, Pears and Other Pomace Crops
Apply 2-4 pints per acre per application. Apply first application at 2 weeks post bloom. Apply second or subsequent applications at 10-14 day intervals through the growing season. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Citrus and Avocados
Apply 1-4 quarts per acre per application. Apply first application at bloom. Apply second or subsequent applications at 10-14 day intervals through the growing season. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Plums, Peaches, Cherries and Other Stone Fruits
Apply 2-4 quarts per acre per application. Apply first application at pink to first bloom. Apply second or subsequent applications at 10-14 day intervals through the growing season. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Grapes
Apply 2-4 pints per acre beginning pre-bloom and continuing through pea-sized berries. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Blueberries
Apply 2-4 pints per acre beginning at bloom. Apply second or subsequent applications at 10-14 day intervals. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Beans and Peas
Apply 2-4 pints per acre. Apply first application at 1-2 weeks post bloom. Apply second or subsequent applications at 10-14 day intervals. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Other Brassica Crops, Green Beans, and Broccoli
Apply 2-4 pints per acre. Apply first application at 1-2 weeks post bloom. Apply second or subsequent applications at 10-14 day intervals. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Lettuce, Spinach, and Other Leafy Vegetables
Apply 1-4 pints per acre. Apply first application at transplanting, thinning, or at second true leaf stage. Apply second or subsequent applications at 10-14 day intervals. Do not apply immediately prior to extreme heat.

Onions
Apply first application at bulb initiation. Apply at a rate of 2-4 pints. If larger bulbs are desired use 4 pints. Apply second application 10-14 days later.

Almonds, Walnuts, and Other Nut Crops
Apply 1 or 2 applications at 1 to 4 quarts per acre beginning at pre-bloom or at the start of bloom. System-SeaCal can be mixed with most fungicide and insecticide applications, except copper based fungicides. If applying copper based fungicides, switch to Vigor-Cal for this application.

Plums, Peaches, Cherries and Other Stone Fruits
Apply 2 to 4 quarts per acre per application. Apply first application at pink to first bloom. Apply subsequent applications at 10-14 day intervals up to pit hardening. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Apples, Pears and Other Pomace Crops
Apply 2 to 6 quarts per acre per application. Apply first application at pink to first bloom. Apply subsequent applications at 7-10 day intervals through the end of fruit cell division. Switch to Vigor-Cal after that and continue on a 7-10 day schedule through harvest.

Citrus and Avocados
Apply 1 to 4 quarts per acre per application. Apply first application just prior to bloom. Apply subsequent applications at 30 day intervals up to harvest or as needed to supplement nutritional requirements. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Grapes
Apply 2-4 pints per acre beginning pre-bloom and continuing through pea-sized berries. Make applications on a 10-14 day schedule depending on environmental conditions. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.

Blueberries
Apply 2-4 pints per acre beginning at bloom. Apply second or subsequent applications at 10-14 day intervals. Apply fresh or canned fruits. System-SeaCal can also be applied on a 10-14 day schedule with Vigor-Cal™.
Directions for Commercial Use:
Sysstem-VT™ is designed to supply key to nutrients to a variety of row crops as they transition from the vegetative to reproductive phase – such as tasseling in corn – to improve seed fill and maximize yield. Sysstem-VT™ is intended for foliar use. Apply 2 to 8 pints per acre with sufficient water for thorough coverage. Sysstem-VT™ can be applied via ground sprayer, air application or chemigated through pivots (minimizing the amount of water applied).

APPLICATION PRECAUTIONS:
Sysstem-VT™ is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-VT™ to any mixture. Never mix Sysstem-VT™ in a concentrated form with other fertilizers or pesticides.

Do not mix Sysstem-VT™ with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.

Do not apply Sysstem-VT™ with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Also contains non-plant food ingredients - 23% Phosphorous Acid

Guaranteed Analysis:
- Soluble Potash (K2O) 10%
- Calcium (Ca) 1.0%
- Magnesium (Mg) 0.7%
- 0.7% Water Soluble Magnesium
- Boron (B) 0.15%

Derived from
Potassium Hydroxide, Calcium Carbonate, Magnesium Carbonate and Boric Acid

Warranty
1. The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2. Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE
WARNING
KEEP OUT OF REACH OF CHILDREN
Sysstem-VT™ is a foliar fertilizer containing potassium, calcium and magnesium phosphite and boron. Sysstem-VT™ is designed for corn and other row crops and is particularly suited for application immediately pre-tassel on corn and pre and early bloom on other crops to meet peak nutrient demand timing and to encourage maximum seed set. Proper nutrient balance is critical to maintaining overall plant health, proper physiologically development and maximizing yield.

Sysstem-VT™, due to its unique ability to enhance uptake and mobility within the plant makes it a good tank mix partner with other crop management tools. In addition to applying key nutrients at an important physiological time, the transition from the vegetative to reproductive phase, Sysstem-VT™ encourages “root flushing”, which improves nutrient uptake from the soil to help enhance the efficiency of a growers soil fertility program and maximize yield.

### Guaranteed Analysis

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble Potash (K2O)</td>
<td>10%</td>
</tr>
<tr>
<td>Calcium (Ca)</td>
<td>1.0%</td>
</tr>
<tr>
<td>Magnesium (Mg)</td>
<td>0.7%</td>
</tr>
<tr>
<td>Boron (B)</td>
<td>0.15%</td>
</tr>
</tbody>
</table>

### Derived From

Potassium Hydroxide, Calcium Carbonate, Magnesium Carbonate and Boric Acid

### Availability

2.5 gallon

### Directions For Use

Sysstem-VT is designed to supply key to nutrients to a variety of row crops as they transition from the vegetative to reproductive phase – such as tasseling in corn – to improve seed set and maximize yield. Sysstem-VT™ is intended for foliar use. Apply 2 to 8 pints per acre with sufficient water for thorough coverage. Sysstem-VT™ can be applied via ground sprayer, air application or chemigated through pivots (minimizing the amount of water applied).
Fertilizer Tech Sheet

Suggested uses

Corn
Applying 2 to 6 pints per acre per application. Apply from V-10 to green silk.

Soybeans, Dry Beans, String Beans, Peas
First application should be made pre-bloom to 5% bloom. A second application can be applied to 10% bloom during this time.
Apply 2 to 6 pints per application. First application, Apply from V-10 to green silk.
**System Series**

**5243**

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**Directions for Commercial Use:**

System-ZMag is intended for foliar use. Foliar: Apply 1 to 5 quarts per acre with sufficient water for thorough coverage. Product can be applied at 1 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F/32°C). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact Agro-K before using this product.

**APPLICATION PRECAUTIONS:**

System-ZMag is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding System-ZMag to any mixture. Never mix System-ZMag in a concentrated form with other fertilizers or pesticides.

Do not mix System-ZMag with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

**Derived from**

Magnesium Carbonate and Zinc Carbonate

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**Guaranteed Analysis:**

- Magnesium (Mg) 1.75%
- Zinc (Zn) 5.0%

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**Net Wgt.** 28.75 lbs / 2.5 gal

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**Science-Driven Nutrition™**

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**Warranty**

1. - The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.

2. - Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy.

Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized or valid unless expressed in writing and signed by Agro-K Corporation.

**SHAKE WELL BEFORE USE**

**WARNING**

KEEP OUT OF REACH OF CHILDREN

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** ALSO CONTAINS NON-PLANT FOOD INGREDIENTS – 35% PHOSPHOROUS ACID **

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**US patents pending**
Sysstem®-ZMag is a foliar zinc and magnesium fertilizer that can be used at all plant growth stages to correct zinc and/or magnesium deficiencies. Sysstem®-ZMag is particularly effective at bud-break, pre-bloom, and post-harvest when plant demand for zinc and magnesium peaks. The elemental zinc and magnesium in Sysstem®-ZMag are linked to a phosphite ion that enhances the nutrient uptake and mobility within the plant.

Zinc plays many important functions within the plant, such as regulating various hormone functions that are necessary for proper bud break, root and vascular development, and the development of young tissue. Zinc is critical in the development of new tissue and the phosphorus required for cell division and growth. Zinc is also necessary for the proper functioning of the plant's immune system.

Sysstem®-ZMag is part of Agro-K’s Sysstem® foliar line. Sysstem® products are designed to work together to maximize crop yield. Their formulations are specifically selected to work in combination with each other and work together to maximize crop yield.

Sysstem®-ZMag is a foliar fertilizer that can be used at all plant growth stages to correct zinc and magnesium deficiencies. Sysstem®-ZMag is particularly effective at bud-break, pre-bloom, and post-harvest when plant demand for zinc and magnesium peaks. The elemental zinc and magnesium in Sysstem®-ZMag are linked to a phosphite ion that enhances the nutrient uptake and mobility within the plant.

Directions For Use
2.5 gallon

Availability
Magnesium Carbonate and Zinc Carbonate

Derived From
Magnesium (Mg) 1.75%
Zinc (Zn) 5.0%

Guaranteed Analysis

Zinc (Zn) 5.0%
Magnesium (Mg) 1.75%

Science-Driven Nutrition™
Fertilizer Tech Sheet
Tomatoes, Peppers, Cucumbers

Apply 1 to 4 quarts per acre per application. Apply first application 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 14 day intervals or as needed to correct deficiencies or supplement nutritional requirements.

Strawberries

Apply 1 to 4 quarts per acre per application. Apply the first application 7-10 days after transplanting. Reapply at 7-14 day intervals through first bloom.

Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients together with can help with magnesium uptake and zinc deficiency. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

Plums, Peaches, Cherries

Apply 1 to 4 quarts per acre per application. Apply first application as initial leaves are rapidly developing and may reapply post bloom. Reapply System®-ZMag within 2-3 weeks post harvest to prepare tree and buds for next season. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

Raspberries, Blackberries and Other Caneberries

Apply 1 to 4 quarts per acre per application. Apply first application as initial leaves are rapidly developing and may reapply post bloom. Reapply System®-ZMag within 2-3 weeks post harvest to prepare canes and buds for next season. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

Apples, Pears and Other Stone Fruits

Apply 1 to 4 quarts per acre per application. Apply first application as first leaves are developing rapidly. Apply 1 to 2 subsequent applications pre-bloom. Reapply System®-ZMag within 2-3 weeks post harvest to prepare tree and buds for next season. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

Citrus and Avocados

Apply 1 to 4 quarts per acre per application. Apply first application pre-bloom. Apply subsequent applications post-harvest. Bloom. Apply System®-ZMag within 2-3 weeks post harvest to prepare tree and buds for next season. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

Grapes

Apply 1 to 4 quarts per acre per application. Apply first application between bud-break and 6" of shoot growth. Apply 1-2 subsequent applications between early shoot development and bloom. Reapply System®-ZMag within 2-3 weeks post harvest to prepare tree and buds for next season. Zinc and magnesium can be applied together with during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.
Directions for Commercial Use:
Sysstem-ZN can be used both foliar and soil applied. Foliar: Apply 1 to 4 quarts per acre with sufficient water for thorough coverage. Product can be applied at 7 to 14 day intervals for a maximum of 5 times during the growing season. Avoid applications when temperatures are extreme (above 90°F). Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact your Agro-K dealer before using this product. Soil: Apply 1 to 4 quarts per acre. Can be band sprayed or metered into irrigation system. Can also apply as a soil drench for trees.

APPLICATION PRECAUTIONS:
Sysstem-ZN is compatible with many fertilizers and pesticides but a compatibility check is recommended. Always ensure adequate dilution in the spray tank before adding Sysstem-ZN to any mixture. Never mix Sysstem-ZN in a concentrated form with other fertilizers or pesticides.
Do not mix Sysstem-ZN with pesticides that are sensitive to low pH solutions, including copper based pesticides. Do not apply in combination with citrus oils at more than 1pt/ac or 0.5%, whichever is less. Do not apply in combination with petroleum oils at more than 2qts/ac or 1.0%, whichever is less.
Do not apply Sysstem-ZN with a hand sprayer. Do not apply to wet leaf or fruit surfaces. Apply to dry plant surfaces to the point of wet. Do not over-apply to the point of run-off.

Guaranteed Analysis:
Zinc (Zn) 8.0%
Derived from Zinc Carbonate

Net Wt 28.25 lbs / 2.5 gal

WARNING
KEEP OUT OF REACH OF CHILDREN

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm.

Warranty
1.- The manufacturer guarantees and warrants that the content and the total net weight are as stated within lawful limits.
2.- Liability of Agro-K Corporation under this warranty or otherwise shall be limited to refund of the purchase price and such refund is expressly agreed by the buyer to be the exclusive remedy. Agro-K Corporation makes no other expressed or implied guarantee, warranty or representation, including warranties of merchantability and fitness for a purpose. Agro-K Corporation shall not be liable for direct consequential or incidental damages. No modifications of this warranty and the disclaimers herein are authorized unless expressed in writing and signed by Agro-K Corporation.

SHAKE WELL BEFORE USE

Also Contains Non-Plant Food Ingredients - 35% Phosphorous Acid

US patents pending
Sysstem™-ZN is a foliar zinc fertilizer that can be used at all plant growth stages to correct zinc deficiencies. Sysstem™-ZN is particularly effective at bud-break, which improves the plant’s overall health, quality, and yield. It can significantly improve the plant’s overall health, quality, and yield.

Zinc plays many important functions within the plant. It regulates various hormone functions that are necessary to ensure proper bud break, root and vascular growth, and fruit production. Zinc is also essential for the production of chlorophyll, which is necessary for photosynthesis.

**Guaranteed Analysis**

- **Zinc (Zn)** - 8%

**Derived From**

Zinc derived from Zinc Carbonate

**Availability**

2.5 and 250 gallon

**Directions For Use**

Sysstem-ZN is intended for foliar use only. For best results:

1. Underline
2. Apply 1 to 5 quarts per acre with sufficient water for thorough coverage. Spray in early morning or late afternoon. Do not apply during hot sun.
3. Apply 1 gallon per acre with sufficient water for thorough coverage. System-ZN is intended for foliar use only.

**System-NutrienteSTM**

Science-Driven NutritionSTM
Suggested Uses

Apples, Peppers, Tomatoes, Peppers, Cucumbers, Lettuce

Two more applications at 10 to 14 days intervals. 2-3 weeks post harvest. Apply a subsequent application at 10 to 14 days intervals. Apply a subsequent application of System™-ZN 1-2 weeks post harvest to prepare fruiting wood. Gap 1-2 weeks post harvest. Apply a subsequent application at 10 to 14 days intervals. Apply a subsequent application at 10 to 14 days intervals. Apply a subsequent application at 10 to 14 days intervals.