# N-LARGE PREMIER<sup>™</sup>

# **Plant Growth Regulator Solution**



ACTIVE INGREDIENT: Gibberellic acid (GA3	)6.26%
OTHER INGREDIENTS:	93.74%
Total:	100.00%
This product contains approximately 2.0 grams	s active ingredier
per fluid ounce (30 mL)	

EPA Reg. No. 57538-20 EPA Est. No. 57538-TX-2 EPA Est. No. 57538-IA-1

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#### **NET CONTENT**

□ 2.50 gal (9.46 L)

□ 5 gal (18.92 L)

# CAUTION

#### **FIRST AID**

If in eyes	•	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	•	Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.
	•	Call a poison control center or doctor for treatment advice.

#### **HOTLINE NUMBER**

- Have the product container or label with you when calling a poison control center or doctor or are going for treatment.
- For general information on product use, call the National Pesticide Information Center at 1-800-858-7378.
- For emergencies, call the Poison Control Network at 1-800-222-1222.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC at 1-800-424-9300.

#### 2.0 PRECAUTIONARY STATEMENTS

#### 2.1 Hazards To Humans And Domestic Animals

**CAUTION.** Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

#### 2.2 Personal Protective Equipment

Applicators, mixers, loaders, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### 2.3 User Safety Recommendations

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothes.

#### 2.4 Environmental Hazards

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

#### 3.0 DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide application.

#### 4.0 AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides.

It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours unless wearing appropriate PPE.

Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves anything that has been treated such as plants, soil, or water is: Coveralls and shoes plus socks.

# 5.0 NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter without appropriate protective clothing until sprays have dried.

#### 6.0 GENERAL INSTRUCTIONS FOR USE

Use only as directed. The label should be read thoroughly and understood before making applications. Do not apply this product through any type of sprinkler irrigation system.

#### **6.1 Application Instructions**

N-LARGE™ PREMIER contains gibberellic acid, which is an extremely potent plant growth regulator. When applying plant growth regulators, deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, will result in undesirable effects. Always consult the State Extension Service Specialist in your area for the spray regimen best suited to your conditions.

- Do not apply to plants under pest, nutritional or water stress.
- When a range of rates is indicated, use the concentration and spray volume recommended locally by the State Extension Service Specialist.
- For optimum effectiveness, thorough spray coverage must be achieved. All parts of the plant or crop must receive the spray or desired results will not occur.
   Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank. Discard any unused spray material at the end of each day following local, state or Federal Law.
- For best results, the water pH must be around neutral and always below 8.5.
- N-LARGE<sup>TM</sup> PREMIER applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity and no wind) will increase absorption by the plant, thus optimizing effectiveness. Nighttime applications are encouraged when daytime conditions are not conducive to slow drying conditions.
- Product persistence: N-LARGE™ PREMIER must be reapplied if significant rain occurs within 2 hours of application.

- Compatibility: Refer to the spray guidelines for ingredients known to be compatible with this product. If the tank mix combination has not been used previously, contact a Stoller representative or conduct a jar test to test for compatibility. Use a small jar and mix a small amount of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop; do not use this mixture for spraying. Indications of incompatibility usually will appear within 5 to 15 minutes after mixing. To ensure maximum crop safety and product performance, follow all precautions and
- limitations on this label and labels of products used in the tank mixture with N-LARGE<sup>TM</sup> PREMIER.
- DO NOT apply using ULV application methods. For aerial applications, spray volumes must be greater than 2 gallons per acre (20 I/ha), 10 gallons per acre for tree crops (100 I/ha).
- No harvest interval is required for this product. Observe the 4-hr. REI.

#### 7.0 SPRAY GUIDELINES FOR GRAPES

For all grapes, application shall be by ground sprayer. Apply as a concentrate or dilute spray in sufficient water volume to ensure thorough wetting. It is important to wet all flower clusters or berries thoroughly. For cultivar specific spray rates and timings, see accompanying tables.

#### 7.1 Seedless Table Grapes

#### CLUSTER STRETCH SPRAYS

Objective/Benefit	Application Timing/Instructions
For cluster elongation and looser cluster forms. To reduce costs of thinning, allow better air circulation to aid in the control of bunch rot, and increase light penetration to aid in sugar development.	Make one to three applications before bloom when flower clusters are 2 to 7 inches long.
Perlette Seedless Flame Seedless	8-24
Thompson Seedless	
Raisin	
Other Seedless Grapes	Not applicable

#### **BERRY THINNING SPRAYS**

Objective/Benefit	Application Timing/Instructions
For decreased berry set, reduced hand-thinning costs, and hastened maturity.	Make one to four applications during bloom. Only 1-2 applications for "Other Seedless Grapes." When the bloom
Hasierica maiomy.	period is extended, subsequent sprays are to be made 1 to
	7 days after the first application.
Crop/Cultivar	Rate (grams a.i./acre)
Perlette Seedless	Not applicable
Flame Seedless	3-16
Thompson Seedless	8-20
Raisin	3-12
Other Seedless Grapes	0.5-12

**NOTE**: Higher amounts or multiple applications will cause an excess of shot berries or overthinning, especially in young vines or vines with high vigor.

For "Other Seedless Grapes" use caution as some of the new cultivars are very responsive and will over-thin easily. A grower shall consult the local specialist before thinning cultivars with which he has no familiarity.

#### **BUMP SPRAY – For Thompson Seedless**

Objective/Benefit	Application Timing/Instructions
To help initiate the beginning of the berry growth period.	Make one application of 16-24 grams a.i. per acre during the period between the last thinning spray and the first
	sizing spray.

#### **BERRY SIZING SPRAYS**

Objective/Benefit	Application Timing/Instructions
For larger berries and larger clusters when used in conjunction with established girdling and thinning practices.	Make one to four applications beginning when the average berry size reaches "target" diameter (see below). Timing of the subsequent sprays will be dictated by experience in the vineyard and temperatures occurring between sprays. Sprays made after 15-20 days from the first sizing spray are less effective.

Target Berry Diameter*	Rate (grams a.i./acre)
4-5 mm	32-128
6-9 mm	20-128
3-5 mm	32-128
3-5 mm	4-20
3-14 mm	8-60
	4-5 mm 6-9 mm 3-5 mm 3-5 mm

<sup>\*</sup>Target average berry diameter for the first application.

**NOTE**: In some growing regions and for some cultivars, high amounts of gibberellic acid will reduce fruitfulness (cluster counts) the following year.

High amounts of gibberellic acid will also delay berry skin color development, sugars accumulation and overall maturation.

A grower shall consult the local specialist before sizing cultivars with which he has no familiarity.

#### 7.2 Seeded Grapes

#### **BERRY SIZING SPRAYS**

Objective/Benefit	Application Timing/Instructions
To increase berry size in listed cultivars; and also to	Make one application during the indicated berry diameter
reduce berry shrivel in Emperor.	range.
	Application is made as a whole vine spray or as a spray or dip
	directly to the cluster.

Crop/Cultivar	Berry Diameter (mm)*	Whole vine spray. Rate in grams a.i./acre	Direct Spray to the cluster only or dip the clusters. Rate in ppm's of a.i.
Emperor	12-16		
Red Globe	12-18		
Calmeria	12-16	20	40-50
Christmas Rose	12-16		
Rogue	12-16		
Queens	12-15		

<sup>\*</sup>Predominant average berry diameter for this application.

**NOTE**: The whole vine application will reduce fruitfulness (cluster counts) the following year.

High amounts of gibberellic acid will also delay berry skin color development, sugars accumulation and overall maturation. A grower shall consult the Stoller representative or local specialist before sizing cultivars with which he has no

familiarity.

Objective/Benefit	Application Timing/Instructions
To increase berry size.	Make one application 3-5 days after full bloom, but before shatter begins.
Crop/Cultivar	Rate (grams a.i./acre)
Black Corinth (Zante Currant)	1-12

#### **8.0 SPRAY GUIDELINES FOR CITRUS**

For citrus, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. In most cases, this application will cause some drop of older mature leaves; this drop of older leaves is inconsequential. However, application to trees of low vigor or under stress (pest, nutritional, or water, etc.) will cause severe leaf and/or fruit drop. Do not apply in white wash sprays in which lime or other caustic material has produced a high pH in the spray tank. Applications of copper fungicides and/or oils within three weeks (before or after) the N-LARGE<sup>TM</sup> PREMIER application will result in significant leaf drop and fruit drop.

#### 8.1 Citrus: Field Applications

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Navel Orange	To delay rind aging, reduce physiological disorders (e.g., rind staining, water spotting, sticky or tacky surface, puffy rind and rupture under pressure), and produce a more orderly harvesting pattern.	16-48	Make one or two applications as a concentrate or dilute spray.  1.) Early application: spray approximately 2 weeks prior to color break (typically August-November). This timing causes the greatest delay in rind aging and produces the firmest rind possible.  AND/OR  2.) Late spray: one application after marketable color (typically October-December). Late sprays cause regreening.
Valencia Orange (For California and Arizona use only)	To reduce rind creasing and to delay rind aging and softening.	40-80	Make a single application as a concentrate or dilute spray in August to October to target crop of young fruit.

**NOTE**: Do not apply the early spray to groves that may be harvested early, as fruit coloring will be delayed. Do not apply from January through July, as production will be reduced the following year. Slower color development and increased re-greening of mature fruit is to be expected in the target crop. After marketable color is achieved, treatment effects will be reduced the longer treated fruit remain on the tree.

All round Oranges (For Florida use only)	To delay aging and softening of the rind, and to reduce creasing and puffiness.	20-60	Make a single application in August to October to trees with a target crop of young fruit. The addition of pure organo-silicone type surfactant at 0.05% (6 fl. oz. in 100 gallons) is beneficial.
Lemon/Lime	To decrease the amount of small ripe fruit and produce a more desirable production pattern relative to market demand.	10-32	Make a single application when target crop is 1/2 to 3/4 full size, but still green.

NOTE: When applied two years in a row, an even larger difference in harvest pattern and maturity will occur.

ring causes variation in rin To delay disorders associated with rind aging (e.g., puffiness, softening, and orange coloration) prevent preharvest drop of mature fruit, increase peel strength, reduce water loss during storage, and produce a more orderly harvesting pattern. ves that may be harvested the tree for extended perio	d color development.  16-48  d early since fruit coloring will	Make one spray application two weeks prior to color break. Apply as a dilute spray.  Dre-harvest rind staining may occur.  Make one or two dilute spray applications in sufficient volume to ensure coverage. Do not exceed 20-ppm a.i. in spray solution.  EARLY: Make application two weeks prior to color break. Apply as a dilute spray (Aug-Sept).  AND/OR  LATE: Make application after marketable color has developed (Oct Dec).  be delayed. Treated fruit will re-green if
associated with rind aging, puffiness, and softening, and to increase peel strength of tangerine hybrids. The property of tangerine hybrids. The property of tangerine hybrids or tangerine hybrids. The property of tangerine hybrids or tangerine hybrids. The property of tangerine hybrids or tangerine hybrids of tangerine hyb	not apply after coloring as p d color development. 16-48	weeks prior to color break. Apply as a dilute spray.  Dre-harvest rind staining may occur.  Make one or two dilute spray applications in sufficient volume to ensure coverage. Do not exceed 20-ppm a.i. in spray solution.  EARLY: Make application two weeks prior to color break. Apply as a dilute spray (Aug-Sept).  AND/OR  LATE: Make application after marketable color has developed (Oct Dec).  be delayed. Treated fruit will re-green if
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nental conditions. The dela	t use concentrate sprays. Res ay in rind aging is greatest wh	December, or when trees begin to break sults will vary from season to season nen spray is applied before color change.
es the firmest rind possible  To reduce early-season small fruit drop of Star Ruby Variety thereby increasing yields.	25-35	Make a single dilute application during the bloom period.
om season to season depe g program.	ending on environmental co	nditions. Maintain a well-balanced
To increase fruit set and yield.	1-8	Make one or two applications from 50% petal fall up to 3 weeks after peta fall. Use a dilute spray with sufficient spray volume e for adequate coverage of tree canopy.
olications, higher rates, an	d climatic conditions more fo	avorable to set. Differences in the crop
To increase fruit set and yield. The number of applications depends on desired fruit set.	8-30	Make one to two applications during the bloom period. Apply as a dilute spray.
sr R in or y	mall fruit drop of Star uby Variety thereby acreasing yields.  m season to season dependence of the season desired fruit set.	mall fruit drop of Star uby Variety thereby ncreasing yields.  m season to season depending on environmental co- program.  o increase fruit set and rield.  Dilications depends upon amount of desired fruit set. Or ications, higher rates, and climatic conditions more for the above factors to affect the degree of fruit set of size fruit set.  o increase fruit set and ield.  the number of applications depends

Navel and Valencia Orange (For Florida use only)	To enhance fruit set and yield.	15-25	Make a single application in Dec-Jan. Apply in 125- 175 gallons of water per acre with a pure organo- silicone type surfactant at 0.05% (6 fl. oz./100 gallons).
Amber-Sweet Orange (For Florida use only).	To enhance fruit set and yield.	15-25	Make a single application in January. Apply in 125-175 gallons of water per acre with a pure organosilicone type surfactant at 0.05% (6 fl. Oz/100 gallons).
Grapefruit (All states except CA)	To enhance fruit set and yield.	15-25	Make a single application in Dec-Jan. Apply in 125-175 gallons of water per acre with a pure organo- silicone type surfactant at 0.05% (6 fl. oz./100 gallons).

# 8.2 Citrus: Postharvest Applications

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Lemon (All states except CA)	To delay fruit senescence and prolong storage life. The delay in senescence will reduce the incidence of infection by sour rot (Geotrichum candidum).	50-100	Add 1 to 2 fluid ounces of product (2 to 4 grams of a.i.) in 10 gallons of storage wax, which has been diluted as per wax label instructions.
Yellow lemons and other mature citrus fruit (All states except CA)	To delay aspects of rind senescence and color changes	50-100	Add 1 to 2 fluid ounces of product (2 to 4 grams of a.i.) in 10 gallons of storage wax, which has been diluted as per wax label instructions.

## 9.0 SPRAY GUIDELINES FOR FRUIT CROPS

#### **FRUIT CROPS**

Crop/Cultivar	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Banana	To stimulate plant growth and to overcome the effects of stress caused by insect, disease or adverse weather. These applications will also improve fruit size and quality and overall yield.	1-6	Apply by air or ground equipment once every 30 to 90 days throughout the year. Use sufficient water volume to achieve good coverage of the foliage. Make more frequent applications (monthly) during the 6 months prior to anticipated weather stress periods.
Banana	To extend storage life.	1-2	Mix 1 to 2 grams/liter of water and spray directly on the banana fingers from 30 days before harvest until harvest. One to two applications are to be used.

Blueberry (All states except CA) Highbush: Coville, Jersey, Stanley, Earliblue, Weymouth, Walcott, Berkeley, Blueray, Bluecrop, 1316A,	To improve fruit set.	40-80	Make a single application of 80 grams a.i. in 40 to 100 gallons of water/acre. The application shall be made at full bloom (when 75% of the flowers are fully open).  OR  Make two applications at 40 grams at 100 grallons of water.
Concord, and others.			a.i./acre in 40 to 100 gallons of water.  Make the first application at full bloom, and the second one within 10-14 days of the first one. For Weymouth, application shall be delayed up to two weeks after bloom to increase size of "shot" berries.
Blueberry (All states except CA) Rabbiteye: Aliceblue, Beckyblue, Bonita, Brightwell, Climax, Delite, Tifblue, Woodward, and others	To improve fruit set.	40-80	Make a single application of 40 to 80 grams a.i./acre in 40 to 100 gallons of water per acre when most of the flowers are elongated but not yet open (bloom stage 5).  OR  Make two to four applications 10 to 14 days apart starting at bloom Stage 5.  Spray 20 to 40 grams a.i./acre in 40 to 100 gallons of water per application.
Sweet Cherry	To produce larger, brighter colored, firmer fruit.	16-48	Apply a single spray when the fruit is translucent green to straw colored. Use sufficient water volume to ensure thorough wetting.
NOTE: Color developm	nent and harvest date will be	e slightly delayed.	
Red Tart Cherry (All states except CA)	To maintain and extend high fruiting capacity of tart cherry trees and reduce the occurrence of "blind" nodes.  Treatment will cause bud differentiation, which is apparent the year after application.  Therefore, changes in shoot, spur, and flower production will not be evident until two or three years after program initiation.  Applications must be applied annually to ensure vegetative development and subsequent yield improvement year after year.	4-18	Apply one spray 14 to 28 days after bloom. Optimum timing is defined as that stage when 3 to 5 terminal leaves have fully expanded, or, at least 1 to 3 inches of terminal shoot extension has occurred. Use 4 to 18 grams a.i./acre, depending on tree age and vigor (See Table below). Apply as a concentrate or dilute spray in sufficient water volume to ensure thorough wetting.

**NOTE**: Rates are based on expected normal tree vigor at various ages. Adjust rate according to tree vigor. If trees are vigorous, use lowest rates. Lowest rates must also be used on trees that have been heavily pruned or hedged. Use higher rates for trees low in vigor and weak in shoot and spur production. Excessive application rates will increase vegetative growth at the expense of fruit production the following year. Applications will not improve growth of trees under stress conditions, such as nutritional, moisture, or pest. Best results will be obtained when combined with good cultural practices.

Application Rates (Grams a.i./acre) for Tart Cherry Trees by Age			
Tree Age (Years) Rate (grams a.i/acre)			
6-10	4-6		
11-15	8-10		
16-20	10-14		
20 + years	14-18		

#### **STONE FRUITS**

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
		16-32	Apply as a single spray one to four weeks prior to the beginning of the harvest period. Use sufficient water to achieve complete coverage of fruits and foliage.  e application, particularly if it is made
during the months of $\Lambda$	May through July.		
Italian Prune (All states except CA)	To reduce internal browning, improve quality, and increase size.	16-48	Make a single application four to five weeks before expected harvest. Apply in sufficient water volume to ensure thorough wetting.
NOTE: Color developm	nent and harvest will be sligl	htly delayed. Will reduce bloon	n the following season.

# 10.0 SPRAY GUIDELINES FOR NON-BEARING FRUIT TREES AND OTHER CROPS

Crop/Variety	Objective/Benefit	Rate	Application Timing/Instructions
		(grams a.i./acre)	
Non-Bearing Stone	To reduce flowering	20-80	Make a single application during the
Fruit (All states	and fruiting in young		period of flower bud initiation for the
except CA)	stone fruit trees in order		following year. Consult with the local
	to minimize the		horticulturist for timings and rates for
	competitive effect of		specific cultivars in your area. Use
	early fruiting on tree		sufficient water to achieve good
	development.		coverage of the canopy.
again in the third sease physiological condition	on if flower reduction and f	ruiting is desired in the fourth se	n of flowering in the third season, and asson. Treat only trees that are in good
Strawberry	To increase runner	15-25	Make a single application to mother
·	production of mother		plants 10-30 days after planting. Plants
	plants.		must have 1-6 leaves at spraying.
			Apply 100 gallons spray/acre to point of run-off.
		I not be effective on plantings	
Response varies with c	ultivar and location. Consu	It local horticulturist for specific	instructions.
Cranberry (All states	To reduce or	10-50	Make a single application at early
except CA).	completely eliminate		bloom (2-5% scatter bloom). Use
	the crop in the year of		sufficient water to ensure thorough
	application.		coverage.
			creased fruit set (opposite effect). specialist for specific information.
Pineapple	To shape fruit	120 grams a.i./acre	Make 1 to 2 applications per crop cycle of 14 to 18 months

## 11.0 SPRAY GUIDELINES FOR VEGETABLE CROPS

To accelerate maturity and shift harvest to an earlier date.		(grams a.i./acre	For perennials: Apply 1 to 3
maturity and shift harvest to an earlier		10-20	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
			applications at bud initiation stage. For annuals: Apply 1 to 4 applications at 2-week intervals, beginning at the fourth true leaf. Use sufficient water volume to ensure thorough wetting of the entire plant (leaves, stems and buds).
To delay leaf senescence.  Maintaining vigorous foliage will reduce the incidence of infection by Alternaria dauci.	increase the risk of	1-6	Make the first application 4-6 weeks after emergence using commercial ground or aerial equipment with spray concentrations of 20-30 ppm. In severe disease situations or cool weather, a second spray 14 days later will be required to achieve the desired amount of foliar recovery. Do not apply more than twice per crop.
and yield and to overcome stress due cold weather condi or saline soils, and	e to itions	we ga ap pe in 0 if a	ake a single application one to four eeks prior to harvest. Use 25 to 50 allons of water per acre by ground application or 5 to 10 gallons of water or acre for aerial application (except California). Use lower concentrations applying 3 to 4 weeks before harvest a higher concentrations within 1 to 2
by air in California Do r	ot apply parlier than		eeks before harvest.
To stimulate fruit set		1-4 Mc foll ap da rec for	west as bolting will occur.  ake one application prior to bloom lowed by two additional oplications at intervals of 10 to 14 bys. Up to four applications are quired. Use sufficient water volume of thorough coverage of exposed tiage.
	senescence.  Maintaining vigorous foliage will reduce the incidence of infection by Alternaria dauci.  To increase plant he and yield and to overcome stress due cold weather condi or saline soils, and obtain earlier matur  by air in California. Do rational transperiods of contemperatures.	senescence.  Maintaining vigorous foliage will reduce the incidence of infection by Alternaria dauci.  To increase plant height and yield and to overcome stress due to cold weather conditions or saline soils, and obtain earlier maturity.  by air in California. Do not apply earlier than to stimulate fruit set during periods of cool temperatures.	senescence.  Maintaining vigorous foliage will reduce the incidence of infection by Alternaria dauci.  To increase plant height and yield and to overcome stress due to cold weather conditions or saline soils, and obtain earlier maturity.  To stimulate fruit set during periods of cool temperatures.  Maintaining vigorous foliage will reduce the risk of excessive top growth and yield and to we overcome stress due to cold weather conditions or saline soils, and obtain earlier maturity.  To stimulate fruit set during periods of cool temperatures.

during periods of cool temperatures.  NOTE: For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.  Pepper (All states except CA)  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  Pepper (All states except CA)  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  Pepper (All states except CA)  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  Pepper (All states except CA)  NOTE: The high rate is for acres and/or varieties with pollination and/or fruit set problems.  Pepper (All states except CA)  NOTE: Use the highest rate for plants with heavy fruit loads.  Potato Seed  To stimulate uniform sproudition, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.	Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
bolling and increase seed production.  Melon  To stimulate fruit set during periods of cool temperatures.  NOTE: For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.  NOTE: For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  NOTE: This use is for acres and/or varieties with pollination and/or fruit set problems.  NOTE: The light rate is for acres and/or varieties with pollination and/or fruit set problems.  NOTE: Use the highest rate for plants with heavy fruit loads.  NOTE: Use the highest rate for plants with heavy fruit loads.  NOTE: Use the highest rate for plants with heavy fruit loads.  NOTE: Use the high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces in a solution containing 0.2 to 0.4 grams a.i. in 10 gallons of water proint to planting and to increase marketable yield of forced rhubarb.  NOTE: Use process for a plant search by the minimum concentration for dormant seed. Do not treat rested seed pieces.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not freat rested seed pieces.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not freat rested seed pieces.  NOTE: When the rest period is broken by cold weather, apply 2 fluid ounces (80 mil) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.				
during periods of cool temperatures.    Collowed by two additional applications at intervals of 10 to 14 days on cantaloupes and watermetons.   NOTE: For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.   Pepper (All states except CA)	Lettuce for Seed	bolting and increase	1-4	week intervals, beginning at the fourth true leaf. Use sufficient water volume
Pepper (All states except CA)  To promote plant growth.  To increase fruit set and promote fruit size.  Pepper (All states except CA)  To increase fruit set and promote fruit growth.  To increase fruit size.  Pepper (All states except CA)  To increase fruit set and promote fruit growth.  To increase fruit size.  Pepper (All states except CA)  To increase fruit size.  To increase fruit size.  To increase fruit size.  Pepper (All states except CA)  To increase fruit size.  To increase fruit size.  Pepper (All states except CA)  To increase fruit size.  To increase fruit size.  To increase fruit size.  To increase fruit size.  Pepper (All states except CA)  To increase fruit size.  To simulate uniform growth.  To increase fruit size.  To increase f	Melon	during periods of cool	1-4	Make one application prior to bloom followed by two additional applications at intervals of 10 to 14 days on cantaloupes and
except CA)  growth,  gallons of water per acre at two-week intervals. Begin sprays 2 weeks after transplanting.  NOTE: This use is for acres with short growing season, or when low temperatures slow plant growth.  Pepper (All states except CA)  NOTE: The high rate is for areas and/or varieties with pollination and/or fruit set problems.  Pepper (All states except CA)  NOTE: Use the highest rate for plants with heavy fruit loads.  Potato Seed  To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  Rhubarb  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  NOTE: Weep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	<b>NOTE</b> : For maximum l temperatures.	benefits, vines must be in god	od condition, except for reduc	eed rate of growth due to cool
Pepper (All states except CA)  Promote fruit set and promote fruit set and promote fruit set and promote fruit growth.  NOTE: The high rate is for areas and/or varieties with pollination and/or fruit set problems.  Pepper (All states except CA)  To increase fruit size.  To simulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving	Pepper (All states except CA)	1	1-3	gallons of water per acre at two-week intervals. Begin sprays 2 weeks after
except CA) promote fruit growth. gallons of water per acre at weekly intervals during the flowering period.  NOTE: The high rate is for areas and/or varieties with pollination and/or fruit set problems.  Pepper (All states except CA) To increase fruit size. 1-3 Apply in 25 to 50 gallons of water per acre at the beginning of the picking period.  NOTE: Use the highest rate for plants with heavy fruit loads.  Potato Seed To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  Rhubarb To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  To break dormancy on glands of forced rhubarb.  To break dormancy on glands of forced rhubarb.  To break dormancy on glands of water per acre at weekly intervals during the flowering period.  Apply in 25 to 50 gallons of water per acre at weekly intervals during the flowering period.  Dip whole or cut seed pieces in a solution containing 0.2 to 0.4 grams a.i. in 100 gallons of water per acre at weekly intervals during the flowering period.  Note: Under high soil. temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  1) When the rest period is not completely broken; make a single application of 2 fluid ounces (80 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	<b>NOTE</b> : This use is for a	cres with short growing seasc	on, or when low temperatures	slow plant growth.
Pepper (All states except CA)  To increase fruit size.  1-3  Apply in 25 to 50 gallons of water per acre at the beginning of the picking period.  NOTE: Use the highest rate for plants with heavy fruit loads.  Potato Seed  To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  Rhubarb  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  To completely broken; make a single application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	Pepper (All states except CA)	1	1-3	gallons of water per acre at weekly
NOTE: Use the highest rate for plants with heavy fruit loads.  Potato Seed  To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	<b>NOTE</b> : The high rate is	s for areas and/or varieties w	ith pollination and/or fruit set p	problems.
Potato Seed  To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  Rhubarb  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	Pepper (All states except CA)	To increase fruit size.	1-3	acre at the beginning of the picking
sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.  NOTE: Under high soil, temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.  Rhubarb  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  (grams in 10 gallons)  10-20 (grams in 10 gallons)  (grams in 10 gallons)  1) When the rest period is not completely broken; make a single application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	NOTE: Use the highes	t rate for plants with heavy fr	ruit loads.	
Rhubarb  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  To break dormancy on plants receiving (grams in 10 gallons)  (grams in 10 gallons)  To break dormancy on plants receiving (grams in 10 gallons)  (grams in 10 gallons)  To break dormancy on plants receiving (grams in 10 gallons)  To break dormancy on plants receiving (grams in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving in 10 gallons)  To break dormancy on plants receiving application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  To break dormancy on plants receiving application of 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.  To break dormancy on plants receiving application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.	Potato Seed	sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.	(grams in 100 gallons)	solution containing 0.2 to 0.4 grams a.i. in 100 gallons of water prior to planting.
plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.  (grams in 10 gallons)  (grams in 10 gallons)  completely broken; make a single application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.  NOTE: Keep forcing house temperatures at 40°F-50°F for 24 hours after application. If house is warmer than 50°F, crowns	NOTE: Under high soil	, temperatures use the minim	num concentration for dormar	nt seed. Do not treat rested seed pieces.
	Rhubarb	plants receiving insufficient chilling and to increase marketable yield of forced rhubarb.	(grams in 10 gallons)	completely broken; make a single application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown.  2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.
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Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Spinach (All states except CA)	To facilitate harvest, increase yield and improve quality of fall and over-winter spinach.	6-10	Apply in a single spray 10 to 18 days before each anticipated harvest on fall or over-winter spinach, ideally when daytime temperatures are 40°F to 70°F and during early morning hours when dew is present on crop. Make applications in 10 to 50 gallons of water per acre by ground sprayer or in a minimum of 5 to 10 gallons of water per acre by air. When applied to promote growth of second cutting, wait until some regrowth has started before spraying. Maximum benefit is obtained when below normal temperatures predominate following application and growth would be otherwise slowed in untreated spinach.

**NOTE**: Since the promotion of bolting will occur, do not apply after the midwinter period or if temperatures are expected to exceed 75°F within several days of application. Do not apply on spring planting.

#### 12.0 SPRAY GUIDELINES FOR OTHER CROPS

#### COTTON, CORN, SOYBEANS, HOPS, AND RICE

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Cotton, Corn, Soybeans (All states except CA)	To promote early plant growth and increase seedling vigor.	1-6	Apply as an in-furrow application to seed or as a foliar application from the cotyledon leaf stage through the 7 leaf/node stage. Up to three applications are to be made as needed. To mix, fill the treatment tank with half the final tank mix volume. Add the required amount of N-LARGETM PREMIER and mix thoroughly while adding water to the desired final volume. Compatibility information regarding tank mixtures of N-LARGETM PREMIER with herbicides is not available. Aerial application: Use a spray system capable of producing a uniform spray pattern of medium to fine spray droplets at 10 gallons per acre (GPA). Apply no less than 3 GPA of total spray volume. Ground application: For low pressure ground sprayers equipped with boom and flat fan nozzles, apply 10 to 15 GPA spray volume. Dispose of unused spray mixture according to the label
		7505	directions at the end of the day.

**NOTE**: Use higher rates when temperatures will likely average 75°F or less during the 14 days following the application. Do not apply more often than necessary to achieve the desired height, as over-dosage will result in excessive growth. Do not apply to plants under drought stress.

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Hops: Seeded and seedless Fuggle hops and similar varieties adapted to the Northwestern U.S.A.	To increase fruit set and yield	4-6	Make a single application in 100-150 gallons of water per acre when vine growth is 5-8 feet in length.
Rice Seed Treatment	For use as a seed treatment of both semi-dwarf and tall rice varieties to promote germination, emergence and final stand densities when planted at greater depths where soil moisture levels are more adequate for germination.	0.5-2.1	Use in 8 to 20 oz. water per 100 pounds of rice seed. N-LARGE <sup>TM</sup> PREMIER is to be applied to dry seed with standard mist-treating equipment. Best results are obtained using a higher treatment volume (12 to 20 fl. oz. per 100 pounds of seed) to ensure the seed is completely and uniformly covered with N-LARGE <sup>TM</sup> PREMIER. Fill the seed treatment tank with water to one-half the final tank mix volume. Add the required amount of N-LARGE <sup>TM</sup> PREMIER mixing thoroughly while adding water and other seed treatment products to the desired final volume.

**NOTE**: Apply only to rice seed intended for drill seeded or dry broadcast systems. Do not apply to rice used in a 24-hour presoak prior to broadcast or to water used for the presoak. Do not use more than 2.1 grams a.i. per 100 pounds of seed. DO NOT USE TREATED SEED FOR FOOD, FEED, OR OIL PURPOSES.

An approved dye must be added to distinguish treated seed and prevent inadvertent use of food, feed or oil purposes. Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the federal and state seed laws. N-LARGE<sup>TM</sup> PREMIER is compatible with most commonly used fungicide seed treatments such as VITAVAX® and DITHANE®, standard dyes and sticker-binding agents. When preparing tank mixes, the user must ensure adequate physical compatibility and mixing characteristics.

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Rice Post-Emergent	For use as a	1-3	Apply to rice between the 1 to 2-leaf
Seedling Treatment	postemergence		stage and the 4 to 5 leaf stage of
o .	seedling application on		growth. Timing and dosage is based
	rice grown in the United		on environmental conditions, tank mix
	States to promote more		combinations with herbicides and
	uniform and vigorous		method of permanent flood practice
	growth of rice prior to		in relation to rice leaf stage.
	permanent flood		
	establishment. This will		
	allow earlier (five to ten		
	days) flooding of drill or		
	dry broadcast seeded		
	varieties and is		
	particularly effective on		
	semi-dwarf varieties.		
	Early flooding will		
	reduce additional		
	flushing costs		
	associated with delay in		
	permanent flooding,		
	weed infestations and		
	the number of		
	herbicide applications		
	as well as promote		
	earlier and more		
	uniform grain maturity.		

NOTE: N-LARGE<sup>TM</sup> PREMIER application will result in a temporary lighter green foliage color due to accelerated growth rates. Do not apply when rice is subject to drought stress conditions. N-LARGE<sup>TM</sup> PREMIER may be tank mixed with most commonly used rice herbicides and fungicides. When N-LARGE<sup>TM</sup> PREMIER is applied in tank mixes with Arrosolo®, Riverside Propanil® 60 DF, Stam® 80 EDF or WHAM® EZ, plus an adjuvant, the use of a surfactant is not necessary. Do not apply N-LARGE<sup>TM</sup> PREMIER with products containing fenoxaprop-p-ethyl as the active ingredient. N-LARGE<sup>TM</sup> PREMIER applied between split-boot and 100% heading will increase panicle height of semi-dwarf rice. This will facilitate harvest efficiency in the field by allowing the rice grain to be cut above the leaf canopy at faster combine speeds and at reduced vegetative load. Grain quality and maturity will be advanced with the promotion of tiller panicle development. Heading applications to the first crop will also accelerate regrowth of second crop rice. This will result in earlier second crop maturity and maximize grain yield.

Hybrid Rice: Seed	Apply N-LARGE™	20-100	Make 1 to 5 applications at regular
Production (All states	PREMIER to facilitate		intervals during the heading period.
except CA)	main culm and tiller		
	panicle extension to		
	increase pollination and		
	harvest efficiency.		

# 13.0 SPRAY GUIDELINES FOR ORNAMENTALS, CUT FLOWERS, TURFGRASS, BEDDING PLANTS, ETC.

The following instructions are based on results with common cultivars. Differences in responsiveness will vary from one cultivar to another, or from one set of growing conditions to another, or from one cultural management system to another. Therefore, prior to widespread usage, test a small number of plants from each cultivar under a specific set of growing and cultural management conditions to verify desired efficiency.

#### **ORNAMENTALS**

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Azalea (All states except CA)	As a partial replacement of cold treatment to break flower dormancy.	250-500 ppm	Apply three sprays at weekly intervals after three to four weeks of chilling.
representative spray s	nt when plants are at Stage chedule consists of applica	tions made at 3, 10 and 17 d	., style elongated and open). A lays after four weeks of chilling. Flowers will Is show color. To ensure uniform flowering,
Azalea (All states except CA)	To break dormancy on some cultivars (e.g., 'Gloria', 'Prize', and 'Redwing').	1000 ppm a.i.	Apply after three to four weeks of chilling.
Azalea (All states except CA)	As a complete substitution of cold treatment to break flower dormancy.	1000 ppm a.i.	Apply four to six sprays at weekly intervals. Plants must be at Stage 5 of floral development (style elongated and open) before first spray is applied.
	develop properly it applied uniform flowering, apply the	-	elopment. Do not apply after flower buds
Azalea (All states except CA) – Flower Bud Initiation	To inhibit flower bud initiation during vegetative growth.	100-750 ppm a.i.	Approximately 2 to 3 weeks after each pinch, apply a single foliar application After the first application, continue applying on a weekly basis for 1 to 2 weeks.
NOTE: Make a maximu	um of three applications.		
Calla Lily (All states except CA)	For increased flowering.	500 ppm a.i.	Prepare a solution and soak rhizome o tuber for 10 minutes prior to planting.
NOTE: Leaf or flower st	retching will be observed in	some cultivars. If this occurs	, reduce rates.
Camellia (All states except CA)	To substitute for chilling requirements and increase bloom size.	2% a.i. solution	Mix equal volumes of product and water. After removing the vegetative bud, found immediately adjacent to or below the floral bud, place a single drop of the prepared solution on the vegetative bud scar.
NOTE: Adding a depo	sition aid (e.g., carboxymet	hylcellulose) to thicken the se	olution will reduce runoff.
Cyclamen (All states except CA) – Bud Application	To promote uniform flowering.	0.25 fl. oz. 10 to 15 ppm a.i.	Apply a single application of 8 ml (0.25 fl. oz.) of a 10 to 15 ppm a.i. solution directly to the crown when buds are pinhead size in the leaf axils.
Cyclamen (All states except CA) – Foliar Application	To promote uniform flowering.	25 ppm a.i.	Thoroughly wet the crown by applying a single foliar application directly toward the crown and adjacent leaves when buds are pinhead size in the leaf axils.
	liar applications have bee ned flowers or weakened st	n shown to promote uniform ems.	the leaf axils.

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Fuchsia (All states except CA)	To produce tree forms of common fuchsia cultivars system elongation.	250 ppm a.i	Apply a foliar application beginning after the fuchsia plant has reached the desired size and continuing for four consecutive weeks. Spray plant to point of runoff.
NOTE: Staking will be re	equired after application. H	igher concentrated solutions	will cause long, spindly and weak stems.
Geranium (All states except CA) – Cuttings	To increase number and size of flowers.	1-5 ppm a.i. solution	Apply when inflorescence first begins to show color. Apply spray to the developing inflorescence
<b>NOTE</b> : Peduncle stretc concentrations in exce		lication is made prior to inflo	rescence showing color or if
Geranium (All states except CA) – Seedlings	To advance flowering.	5-15 ppm a.i.	Apply a single application when the first flower bud set is noted. Spray plant to point of run-off. Depending on type of geranium, flowering will be advance 10 to 21 days.
NOTE: Overuse or inco	rrect timing will cause long,	spindly and weak stems.	
Geranium (All states except CA) – Tree Forms	To produce tree forms of common geranium cultivars by stem elongation.	250 ppm a.i.	Apply a foliar application for four consecutive weeks spraying plant to point of runoff.
NOTE: Staking will be re	equired after application.		
Hydrangea (All states except CA)	To substitute for chilling requirements and break flower bud dormancy.	2-5 ppm a.i.	Apply a single foliar application for one to four consecutive weeks beginning at the start of forcing. Thoroughly apply solution to all growing points containing flower buds.
NOTE: Overuse or inco	rrect timing will cause long,	spindly and weak stems.	· •
Pompom Chrysanthemums (All states except CA)	For elongating peduncles on pompom chrysanthemums.	25-60 ppm a.i.	Apply a single spray four to five weeks after initiation of short day conditions. Apply spray towards the flower buds.
NOTE: Overuse or inco	rrect timing will cause long,	spindly and weak stems.	
Spathiphyllum (All states except CA)	To induce flowering of spathiphyllum	150-250 ppm a.i.	Apply single full coverage spray approximately nine to twelve weeks prior to sale. Spray plant to point of runoff, thoroughly wetting all growing points.
'Starlight', 'Tasson', an		ultivars, prior to application c	ear on some cultivars such as 'Petite', on a commercial basis, evaluate the

Aglaonema,	To accelerate bloom	250-500 ppm a.i.	Apply a single foliar application for	
Anthurium,	and increase flowering.		one to four consecutive weeks	
Dieffenbachia			beginning at the start of forcing.	
(Dumb Cane) (All				
states except CA)				
Syngonium (All states	To accelerate bloom	500-2000 ppm a.i.	Apply a single foliar application for	
except CA)	and increase flowering.		one to four consecutive weeks	
			beginning at the start of forcing.	
			Thoroughly apply solution to all	
			growing points containing flower buds.	
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**NOTE**: Applying N-LARGE<sup>TM</sup> PREMIER will increase flower yield and decrease time to flowering. To induce bloom, make 1 to 2 applications while plant is in the vegetative phase. For other Araceae cultivars, prior to application on a commercial basis, evaluate the effects of N-LARGE<sup>TM</sup> PREMIER on a small number of plants.

#### **Cut Flowers**

**NOTE**: Applying N-LARGE<sup>TM</sup> PREMIER to ornamental plants grown for cut flowers will aid in promoting longer stems and increased flower yield. Gibberellic Acid is a potent plant growth regulator and overuse will result in undesirable effects. Assess the effects of N-LARGE<sup>TM</sup> PREMIER on a small number of plants prior to making large-scale applications.

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Aster (All states except CA) – Monte Carlo type, Novi- type and Belgi-type	To aid in promoting longer stems and increased flower yield.	50-100 ppm a.i.	Apply 1 to 3 applications when plants are 2" to 6" tall. Make applications at 2 to 3 week intervals.
Baby's Breath (Gypsophila) (All states except CA)	To promote plant growth, increase flower yield and uniformity.	150-500 ppm a.i.	Make 3 to 4 applications of a solution at 4 weeks of growth (after pinching).  Make applications at 2-week intervals.
Bells of Ireland (Moluccella) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply when plants are 4" to 8" tall.  Make applications at 2 to 3 week intervals.
Buplureum (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Campanula (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Candy Tuft (Iberis) (All states except CA)	To promote plant growth and longer stems	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Column Stock (Matthiola) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Delphinium including D. belladonna, D. bellamosum, D. cardinale, D. elatum, D. grandiflorum, D. nudicale, and Delphinium hybrids (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.

Didiscus (Trachyme) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make application at 2 to 3 week intervals.
Hydrangea (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Larkspur (Consolida ambigua C. orientalis, Delphinium ajacis) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Lisianthus (Eustoma) Eustoma grandiflora (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to8" tall. Make applications at 2 to 3 week intervals.
Phlox (Phlox paniculata and Drummondi hybrida) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Queen Anne's Lace (Ammi) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Safflower (Carthamus) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Solidaster (Solidago) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Statice (Limonium) (All states except CA)	To promote earlier flowering and to increase flower yield.	10 ml of a 400-500 ppm a.i.	Apply as a foliar spray when plants are more than 10 inches in diameter (approximately 90 to 110 days after normal seeding time).
photoperiod, adequa		ight temperature. Treatment w	ed flowering is influenced by extended ith Gibberellins lessens the requirement
Statice (Limonium)	To promote plant	50-100 ppm a.i.	Apply solution as a foliar spray when

Statice (Limonium) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Sunflower (Helianthus) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.
Sweet William (Dianthus) (All states except CA)	To promote plant growth and longer stems.	50-100 ppm a.i.	Apply solution as a foliar spray when plants are 4" to 8" tall. Make applications at 2 to 3 week intervals.

#### Bedding Plants, Annual and Perennial Potted Crops, Field Grown Ornamentals and Bulb Crops

Crop/Variety	Objective/Benefit	Rate (grams a.i./acre)	Application Timing/Instructions
Bedding Plants, Annual and Perennial Potted Crops, Field Grown Ornamentals and Bulb Crops (All states except CA)	To promote plant growth and/or overcome the effects of excessive use of a gibberellin inhibiting plant growth regulator.	1-25 ppm a.i.	Begin by applying a single foliar application of a 1 ppm a.i. solution unless experience dictates a higher rate is appropriate. If desired results are not achieved, a reapplication or increased rate will be necessary. Do not use more than 25 ppm a.i.

**NOTE**: Gibberellic Acid is a potent plant growth regulator and overuse will result in undesirable effects including stem elongation. Assess the effect of N-LARGE<sup>TM</sup> PREMIER on a small number of plants prior to making large-scale applications.

#### **Turfgrass**

Crop/Variety	Objective/Benefit	Rate	Application Timing/Instructions
		(grams a.i./acre)	
Bermudagrass	To initiate or maintain	10-25 grams a.i.	Apply 10 grams a.i. per acre weekly or
Tifdwarf, Tifgreen,	growth and prevent		25 grams a.i. per acre biweekly in 25 to
and other cultivars	color change during		100 gallons of water per acre.
(All states except	periods of cold stress		
CA)	and light frosts.		

**NOTE**: Application of N-LARGE™ PREMIER to Bermudagrass grown in golf courses, parks and turf farms has been shown to initiate or maintain growth and prevent color change during periods of cold stress.

Do not exceed specific rates. Maintain adequate moisture and proper fertilization programs as indicated for the local area. Discontinue treatments if thinning is observed. Do not apply the high rate more frequently than every two weeks. More frequent mowing will be necessary. Do not use on dormant turf.

Bermudagrass	To maintain or enhance	1-3 grams per acre	Apply weekly in 25 to 100 gallons of
Tifdwarf, Tifgreen	regrowth of golf course		water per acre.
(All states except	Bermudagrass during		
CA)	summer months.		

**NOTE**: Application of N-LARGE<sup>TM</sup> PREMIER to Bermudagrass grown in golf courses, parks and turf farms has been shown to initiate or maintain growth and prevent color change during periods of cold stress. Do not exceed specific rates. Maintain adequate moisture and proper fertilization programs as indicated for the local area. Discontinue treatments if thinning is observed. Do not apply the high rate more frequently than every two weeks. More frequent mowing will be necessary. Do not use on dormant turf.

### 14.0 CONVERSION TABLE (G/FL. OZ)

N-LARGE™ PREMIER contains approximately 2 grams of active ingredient per fluid ounce of product.

Grams of active ingredient	Fluid ounces of N-LARGE PREMIER
0.5	0.25 oz.
1.0	0.50 oz.
2.0.	1 oz.
4.0	2 oz.
5.0	2.5 oz.
8.0	4 oz.
10.0	5 oz.
12.0	6 oz.
16.0	8 oz.
20.0	10 oz.
25.0	12.5 oz.
32.0	16 oz.
40.0	20 oz.
48.0	24 oz.
50.0	25 oz.

## 15.0 CONVERSION TABLE (PPM)

Volume of N-LARGE™ PREMIER to use in water spray to provide the desired parts per million (ppm) spray.

Gibberellic Acid (GA3) ppm (parts per million)	N-LARGE PREMIER milliliters (mL) per liter of spray	N-LARGE PREMIER milliliter (mL) per gallon of spray	N-LARGE PREMIER fl. oz. per gallon of spray			
1	0.02	0.05	0.002			
5	0.08	0.30	0.01			
10	0.15	0.56	0.02			
25	0.37	1.40	0.04			
50	0.75	2.80	0.09			
100	1.50	5.60	0.20			
250	3.70	14.00	0.48			
500	7.40	28.00	0.95			
750	11.10	42.00	1.40			
1000	14.80	50.60	1.90			

#### 16.0 STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage**: Keep containers tightly closed when not in use. Store away from any heat source.

**Pesticide Disposal**: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal**: Use label language appropriate for container size and type.

**Nonrefillable Containers**: Do not reuse or refill this container. Clean container promptly after emptying.

Nonrefillable containers equal to or less than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable containers greater than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### 17.0 WARRANTY

To the fullest extent permitted by law, neither the manufacturers nor the seller makes any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use of this material when such use is contrary to label instructions. Read and follow the label directions carefully.

Arrosolo® is a registered trade name for Syngenta Crop Protection, Inc.

Dithane® is a registered trade name for Dow AgroSciences L.L.C.

Stam® is a registered trade name for Dow AgroSciences

Vitavax® is a registered trade name for Uniroyal Chemical Co., Inc.

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