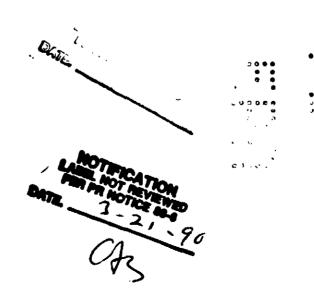
	Plant Growth Regula	ator.
D	JOHID	70%
No.	Solution	
	Active Ingredient Gibberel ic Acid Active Ingredients Inert Ingredients	40 s w w 95 C s w w 1
	KEEP OUT OF REACH OF CHILDREN CAUTION See to be to the first that the best and the first that th	
The state of the s	Net Contents: 1 Gallon (3.7851)	EPA Reg. No. 275-61 List No. 5016-04-01

EPA. Est. No. Lot No.



SPRAYING GUIDE

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZAROS TO HUMANS (AND DOMESTIC ANIMALS)

May cause eye irritation and is harmful if swallowed or if vapors are breathed for prolonged periods. In case of contact with eyes, flush thoroughly with water,

PHYSICAL OF CHEMICAL HAZAROS

FLAMMABLE! Keep away from heat and open flame.

Do not apply directly to water or wetlands. Do not contaminate water when disp-ing of equipment washwaters.

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 through any type of irrigation system. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STORAGE AND DISPOSAL

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

STORAGE

Keep containers tightly closed when not in use. Keep away from heat and open flame. 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

Do not reuse empty containers. Triple rinse (or equivalent). 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,

water. If there is any irritation in eyes after washing, get.
When oral warnings are given, warnings shall be given in a lange
by workers. Oral warnings must be given if there is reason to be
cannot be understood by workers. Written warnings must includ
Area treated with Pro-Gibb on (date of application). Do no
protective clothing until sprays have dried. In case of acc
plerty of water. If there is any irritation in eyes after was
NOTE

NOTE Gibberellic Acid is an extremely potent plant growth regulato directions for use thoroughly. Consult your local experiment station Abbott agricultural specialist in your area for the spray schedule be

GENERAL DIRECTIONS FOR USE

Discard any unused spray material at the end of each day. Prepare mixing the required amount of product with water only in a clea Use only as directed. The label should be read thoroughly and applications. Effectiveness requires that all parts of plant or crop n result will not occur, so spray thoroughly. When a range of concentration and spray volume recommended locally.

Data concerning the compatibility of Pro-Gibb with other agricultu

2X is not available.

SPRAY GUIDELINES FOR GRAPES

For all grapes, application is recommended by ground sprayer. Use spray according to foliage density, or 30 t 80 gallons as a concent otherwise. Do not exceed maximum rates. It is important to wet

Thompson Seedless Grapes

- For cluster elongation ("Stretch"), looser cluster forms, and red used in conjunction with established girdling and thinning pra Guide: Apply 8 to 16 grams*/A before bloom when flower clus
- *Refers to actual Gibberellic Acid See Conversion Table to convert to Gibb needed.

girdling and thinning practices.

Guide: Apply 32 to 80 grams*/A per application in 1 to 3 applications beginning when average berry size is 4 to 5mm in diameter. Applications should be applied within a 14 day period. Timing of the second and third spray will be dictated by experience in the vineyard to be sprayed and temperatures occurring during the interim between sprays. Potential effect will be reduced if the second and/or third spray occurs more than two weeks after the first application.

NOTE: Do not apply more than 208 grams '/A per growing season for all uses.

Thompson Seedless Grapes for Raisins

- For cluster elongation ("Stretch") and looser cluster forms, allowing better air circulation to aid in the control of bunch rot and increase light penetration aiding in sugar development.
 Guide: Apply 8 to 16 grams*/A before bloom when flower clusters are 3 to 5 inches long.
- For decreasing berry set, (thinning) with increased raisin quality, and hastened maturity.
 Guide: Apply 0.75 to 6 grams*/A when most bunches are in 60% to 80°. bloom.

Flame Seedless Grapes

- For decreased berry set ("Thinning") and reducing hand-thinning costs.
 Guide: Apply 3 to 7.5 grams*/A during bloom. Higher amounts may cause an excess of shot berries or overthinning.
- For larger berries ("Sizing") and larger clusters when used in conjunction with established girdling and thinning practices.
 - Guide Apply 20 to 48 grams*/A per application in 1 to 3 applications beginning when average berry size is 6 to 8mm in diameter. Applications should be applied within a 14 day period. Timing of the second and third spray will be dictated by experience in the vineyard to be sprayed and temperatures occurring during the interim between sprays. Potential effect will be reduced if the second and/or third spray occurs more than two weeks after the first application.

NOTE: Do not apply more than 103.5 grams '/A per growing season for all uses

Periette Grapes

 For larger berries ("Sizing") and larger clusters when used in conjunction with established girdling and thinning practices.

Guide: Apply 32 to 80 grams*/A per application in 1 to 3 applications beginning when average berry size is 4 to 5 .um in diameter. Applications should be applied within a 14

umer scources wrape varieties such as scources locally, imeriation, Lakemont, Exist, Surion Red. Glenora, Himrod. Reliance and Vanessa.

 For larger berries and larger clusters when used in conjunction with established girdling and thinning practices.

Guide: Apply 8 to 48 grams*/A as one application at or just after shatter (usually 2 to 3 days later) or as two applications of equal amounts not to exceed a total of 48 grams*/A, with the first made at or just after shatter, followed during the next two weeks by the second application. Timing of the second spray with split application will be dictated by experience in the vineyard to be sprayed and temperatures occurring during the interim between sprays. Potential effect will be reduced if the second spray occurs more than two weeks after the first application.

Emperor Graces

For reducing berry shrivel. This use can also increase berry size.

Guide: Apply 20 grams*/A as one application in 200 to 250 gallons/A approximately two weeks after completion of shatter following bloom. This timing should correspond to a period when the predominant berry diameter ranges from 10 to 15mm.

Black Corinth (Zante Current) Grapes

For improving berry size.

Guide: Apply spray containing 1 to 8 grams*/A 3 to 5 days after ft. 1 bloom, but before shatter begins.

SPRAY EUIDELINES FOR CITRUS Navel Oranges (Califernia)

- To delay aging of the rind and reduce rind disorders (e.g., rind staining, water spotting, sticky
 or tacky surface, puffy rind and rupture under pressure) and to produce a more orderly
 harvesting pattern.
 - EARLY SPRAY (Before color change).
- The delay in rind aging is greatest when the early spray is applied before a color change. This
 spray timing produces the firmest rind possible.
 - Guide: Apply one spray approximately two weeks prior to color break, which normally occur; August through November. Apply 10 to 40 grams*/A as a concentrate or dilute spray in sufficient gallonage to insure thorough wetting

NOTE: Do not apply to groves that may be harvested early as a reduction in grade may result due to the delayed coloring. Do not apply in white wash sprays in which lime or our or caustic material has produced a high pH in the spray tank.

LATE SPRAY (After color break)

Guide: Apply one spray after marketable color has developed which is normally from October through December. Apply 16 to 48 gram...* A sea concentrate or dilute spray in sufficient gallonage to insure thorough wetting.

NOTE: Do not spray Navel orange trees from January through July. Sprays applied in January/ February may cause reduced production the following year. Do not apply within 10 days of harvest.

NOTE: A slight increase in mature leaf drop may occur in trees under stress.

Valencia Oranges

- To reduce rind creasing and to delay aging and softening of the rind.

Guide: Apply a single spray in August or September to trees with a target crop of young fruit.

Apply 40 to 80 grams*/A as a concentrate or dilute spray in sufficient gallonage to insure thorough wetting.

NOTE: Slower color development should be expected in the target crop. Increased regreening of mature f uit, if present, may occur. After marketable color is achieved, treatment effects may be educed the longer treated fruit remains on the tree.

Lement

 To decrease the amount of small tree ripe fruit and to produce a more desirable production pattern in relation to market demand (Except desert valleys in California).

Guide: Apply one spray when target crop is ½ to ½ full size, but still green. Use 10 20 grams*/acre as a concentrate or dilute spray in sufficient gallonage to insure thorough wetting

When applied two years in a row, an even larger difference in harvest pattern and maturity occurs.

NOT... Do not apply within one month of harvest. Do not apply in spring or summer.

Tangerine Hybri (Florida)

 To increase fruit set and yields on tangerine hybrids with pollination problems such as the Orlando, Robinson, Minneola and Sunburst.

Guide: Apply spray during full bloom. Be sure to wet the leaves sufficiently.

Fruits are generally seedless. Use 8 to 30 grams* in 400 to 500 gallons/A on large mature trues.

NOTE: A slight increase in mature leaf drop occurs at concentrations above 25 ppm. Fruit sizes may be reduced and color development slightly retarded.

(California)

 To delay disorders associated with rind aging of the Minneola tangelo; e.g., puffiness and softening, and to increase peel strength.
 Guide: Apply 20 to 40 grams*/A as a dilute spray in sufficient gallonage to insure thorough

wetting.

NOTE: Do not apply if early harvest is planned. Do not apply after coloring as pre-harvest rind staining may occur. Application during coloring may cause variation in rind color development.

Grapefruit (Florida and Texas)

To delay disorders associated with rind aging, e.g., puffiness, softening, and orange coloration, to prevent preharvest drop of mature fruit, and to increase peel strength and reduce water loss during storage.

Guide: Apply a single spray to fully colored fruit during the November through a nuary period. Use 20 to 56 grams* in 500 to 700 gallons/A containing a suitable non-ionic surfactant at the manufacturer's recommended rate. It is advisable to spot pick heavy crops to aid early marketing and to avoid reduction of yields which generally follow late held crops.

NOTE: Application made after January or when trees begin to break dormancy may adversely affect new crop. Do not use concentrate sprays. Results may vary season to season depending on environmental conditions.

Grapetruit, Star Ruby Variety (Texas)

— To reduce early-season drop of small fruit of Star Ruby Variety thereby increasing yields. Guide: Apply a single spray during the bloom period. Use Pro-Gibb 4% Liquid Concentrate. Use 25 Guid ounces (1½ 20-ounce bottles) (25 grams*) in 250 gallons water final spray mix-ure per acre. A suitable surfactant may be used to enhance efficacy.

NOTE: Do not tank-mix with other chemicals. Do not apply concentrated solution. Results may vary season to season depending on environmental conditions.

Maintain a well-balanced fertilization and watering program.

^{*}Refers to actual Gibberellic Acid. See Conversion Table to convert to amount of formulated Pro-Gibb needed.

Mucherries

For improving fruit set. For set problems due to insufficient natural honeybee pollination on

varieties such as Coville, Jersey, Stanley, Earliblue, Weymouth and others. Guide: Make a single foliage spray application at full bloom (when over 75 percent of all flowers are fully open). For Weymouth, application can be delayed up to two weeks after full bloom to affect sizing of shot berries.

Use Pro-Gibb 4% Liquid Concentrate. Mix 80 fluid ounces in 100 gallons of water. Use of a spreader-sticker is recommended. Apply to the point of run-off, thoroughly wetting all parts of the plant. Total gallonage will depend on size and density of the

NOTE: Do not exceed 300 gallons/A. Although some varieties bloom closer to harvest than others—in no case should application be made closer than 40 days before harvest. Do not apply to plants in a low state of vigor.

Sweet Cherries

To delay harvesting, to produce a brighter colored, firmer fruit, and to increase size. Guide: Apply spray when the fruit is light green to straw colored. Apply spray to thoroughly wet the entire tree. Use 16 to 48 grams* in 400 to 600 gallons/A on large mature trees. NOTE: Do not apply within one week of harvest.

Red Tart Cherries (Alt states except California)

To maintain and extend high fruiting capacity of bearing tart cherry trees and reduce the occurrence of "blind" nodes by stimulating lateral vegetative buds to develop a more productive balance of lateral shoots and spurs. Pro Gibb must be applied annually to insure vegetative development and subsequent yield improvement year after year.

Apply a single foliar spray between 14 to 28 days after bloom. Research and commercial experience has "etermined 21 days after full bloom to be optimum. Best timing is further defined as that stage when 3.5 terminal leaves have fully expanded, or, at least 1-3 inches of terminal shoot extension has occurred.

tration: 10 to 25 ppm. The most commonly used rate is 15 ppm. However, higher or lower rates may be used, depending upon the response you desire.

of Application: Best results have been achieved with high volume sprays of 100 gallons or more of finished spray per acre. However, lower volume sprays can be equally effective, but extreme care must be exercised to avoid an overdose as spray volume is decreased.

HIGH VOLUME SPRAY GUIDE (100 or more gallons per acre)

NOTE: Each ounce of Pro-Gibb 4% contains approximately one grain of the active ingredient, gibberellic acid.

Tree Age	6 10 Yrs.	10 15 Yrs.	16/20 Yrs.	20 + Yrs.
Concentration (PPM	1) 10 PPM	15 PPM	20 PPM	25 PPM
Grams Active Ingredient Per 100 Gal.	4 Grams	6 Grams	8 Grams	10 Grams
Recommended Water Volume (Gallons/Acre)	150	150	150	150
Grams Active Ingredient Per Acre	6 Grams	9 Grains	12 Grams	15 Grams

LOW YOLUME SPRAY GUIDE (58-108 gallens per acre)

GRAMS OF ACTIVE INGREDIENT PER ACRE

Approximate Tree Age	Normal Vigor	Low Vigor
6-10 Yrs.	4	
10-15 Yrs.	8	10
15-20 Yrs.	10	14
20 + Yrs.	14	18

MOTE: Use a minimum of 50 gallons/acre for a low volume spray application and obtain uniform coverage of the whole tree. Rates of Pro-Gibb in the above chart are based on expected tree vigor at various ages in a normal orchard. Each orchard presents a different situation. Adjust Pro-Gibb rate to complement vigor of trees. If trees are vigorous, use lowest recommended rates. Use higher rate for trees low in vigor and weak in shoot and spur production. Excessive application rates on any tree will increase vegetative growth at the expense of fruit production the following

NOTE: Lowest rates of Pro Gibb should be used on trees that have been heavily pruned or hedged. The use of additional wetting or spreading agents is not recommended Pro-Gibb will not improve growth of trees under stress (nutritional, moisture, winter injury) or other factors inhibiting normal growth and development resulting from physical damage or unsound orchard practices. Best results from Pro-Gibb will be obtained when combined with good cultural practices.

^{*}Refers to actual Gibberellic Acid-See Conversion Table to convert to amount of formulated Pro Gibb needed

SPRAY GUIDELINES FOR NON-BEARING FRUIT TREES Young Tart and Sweet Cherry Trees (All states except California)

 To reduce flowering and fruiting in young tart and sweet cherry trees to minimize the competitive effect of early fruiting on tree development.

Guide: Apply Pro-Gibb Liquid Concentrate two to four weeks after bloom. Mix 20 to 40 ounces of Pro-Gibb 4% Liquid Concentrate in 100 gallons of water. Apply a foliar spray of 25 to 50 gallons per acre, assuming a tree density of 100 trees per acre equivalent, or apply about one quart of spray volume per tree. Under conditions of low vigor, two applications are recommended. If two spray applications are made, allow at least a seven-day interval between sprays.

NOTE: DO NOT SPRAY TREES IN THE FIRST YEAR. Treat in the second season for reduction of flowering in the third season, and again in the third season if reduction of flowering and fruiting is desir d in the fourth season.

Non-bearing Peaches (North Carolina, South Carolina, Georgia, Florida, Alahama, Tonnessae, Mississioni)

 To reduce flowering and fruiting in young non-bearing peaches to minimize the competitive effect of early fruiting on tree development.

Guide: Apply a single spray in the fall after flower buds have been initiated. This corresponds to the period immediately before and at the onset of early leaf drop, typically late September to early October. Apply Pro-Gibb at the rate of 200-400 PPM in 10-50 gallons of water per acre. Best results are obtained when applied with a handgun and tree canopy is wetted thoroughly to the point of run off. The addition of a non-ionic surfactant will improve efficacy. Refer to the table for mixing instructions.

200 PPM	8 oz. of Pro-Gibb in 10 gal. of water	40 oz. of Pro-Gibb in 50 gal. of water
400 PPM	16 oz. of Pro Gibb in 10 gal, of water	80 oz. of Pro Gibb in 50 gal. of water

NOTE: Treat only trees that are in good physiological condition. Trees should have completed their first leaf before commencing treatments. Discontinue treatment the year before desired harvest.

SPRAY QUIDELINES FOR OTHER FRUIT Olympus Strawberries

(N.W. U.S. ONLY; propagation stock)

— To increase runner production of mother plants of the Olympus cultivar. Guide: Apply a single spray to mother plants 10 to 30 days after planting. At the time of spraying, plants should have 1 to 6 leaves. Apply 100 gallons/A to thoroughly wet new foliage to the point of run-off. Use 20 grams*/A.

NOTE: Not for use on fruiting plants. Treatments may not be effective on plantings set out after mid May.

Forcing Rhubarh

 To increase yield of marketable forced rhubarb and to break dormancy on plants receiving insufficient chilling.

Guide: Apply 2 fluid ounces (60 ml) of a solution containing 20 grams* in 10 gallons to each cleaned crown, when the rest period is not completely broken. When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams* in 10 gallons.

NOTE: Keep forcing house temperatures at 40° to 50°F for 24 hours after application. If house is warmer than 50°F, the crowns should be covered with plastic. Temperatures in the forcing house above 50°F will result in lower yields and poor stalk color.

SPRAY GUIDELINES FOR VEGETABLE CROPS Artichetes (California)

— To accelerate maturity of artichokes and to shift the harvest to an earlier date Guide: Apply spray at bud initiation time, normally six weeks prior to anticipated harvest. Be sure the entire plant (leaves, stems and buds) are covered to point of run-off. Use 10 grams in 100-125 gallons/A.

NOTE: Do not apply within seven days of harvest.

Carrets (All states except California)

 To aid in mechanical harvesting of carrots by increasing top growth damaged by disease or environmental stress.

Guide: Apply spray of 1.2 grams*/A in a minimum of 5 gallons per acre by air or 10 gallons per acre by ground sprayer. A second application in 10.20 days may be required to obtain the desired amount of top growth required for harvesting. A spreader sticker, used as per the manufacturer's recommendation, is desired for thorough wetting of the leaf foliage.

NOTE: Applications should be made soon after carrot tops have been damaged by disease or environmental stress. Do not exceed the recommended rate or apply more than two

^{*}Refers to actual Gibberellic Acid. See Conversion Table to convert to amount of formulated Pro-Gibb needed.

applications per season since an undesirable amount of top growth may be obtained at the expense of root development. Do not apply within 7 days of harvest.

Colery

 To increase plant height and yield and overcome stress due to cold weather conditions, or saline soils and to obtain earlier maturity.

Guide: Apply spray one to four weeks prior to harvest. Lower concentrations are applied at the three to four-week interval. Higher concentrations at the one to two work interval. Use 2.5 to 10 grams* in 25 to 50 gallons/A.

NOTE: Do not apply earlier than four weeks before harvest as Gibberellic Acid may induce bolting (seed stalk formation).

Applications made less than one week preharvest may result in residues. Celery plants must be harvested when mature to ensure quality.

Lettuce for Seed

To obtain uniform bolting and increase seed production.

Guide: Apply the following spray schedule:

Growth Stage	ppm*	g*/A	Gal/Acre
4 leaf stage	10	0.4	10
8 leaf stage	10	1.6	40
12 leaf stage	10	4	100

NOTE: Do not feed crop wastes to livestock.

Seed Potatoes

 To stimulate uniform sprouting—for 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.

Guide: Dip freshly dug seed pieces in a solution containing 0.2 to 0.4 gram* in 100 gallons prior to planting.

NOTE: If soil temperature is very high, avoid treating rested seed and use the minimum concentration for dormant seed.

Spinse

(All states except California)

— To facilitate harvest, increase yield and improve quality of fall and over winter spinach Guide: Apply a single spray 10 to 14 days before each anticipated harvest on fall or over winter spinach ideally when daytime temperatures are 40° to 70°F and during early morning hours when dex is present on crop. Use Pro Gibb 4% Liquid Concentrate Mix 6 to 8 fluid ounces A (6 to 8 grains */A) in 10 to 50 gallons/A by ground sprayer or in a minimum of 5 to 10 gallons/A by air.

Maximum benefit from Pro Gibb is obtained when below normal temperatures

predominate following application and growth would be otherwise slowed in untreated spinach.

NOTE: Since Gibberellic Acid can promote bolting, do not apply to spinach after the mid-winter period or if temperatures may be expected to exceed 75°F within several days of application. Do not apply on spring-planted spinach.

SPRAY GUIDELINES FOR FLORICULTURE CROPS Pempom Chrysanthemums (Florida)

For elongating peduncles on pompom chrysanthemums.

Guide: Apply a single spray 4 to 5 weeks after initiation of short day conditions.

Use Pro-Gibb 4% Liquid Concentrate. Use ½ to 1 fluid ounce (½ to 1 grams*) in 12

gallons for application to 1,000 sq. ft. of bed (20 to 40 fluid ounces equivalent to 20 to 40 grams*) in 500 gallons/A).

Apply with overhead nozzles directing the spray to the flower buds

NOTE: Overuse or incorrect timing may cause long, spindly, and weak stems.

Statice (Florida)

- To promote earlier flowering and to increase flower yield.

Guide: Apply a single drench spray when plants are more than 10 inches in diameter (approximately 90 to 110 days after normal seeding time). Use 40 to 50 grams* in 25 gallons to provide 10 ml (5 mg*) solution per plant

NOTE: Do not exceed specified rates. Do not apply repeated sprays. Accelerated flowering is influenced by extended photoperiod, adequate nutrition, and reduced night temperature. Treatment with gibberellins lessens the requirement for the cold requirement and/or the long photoperiod.

SPRAY GUIDELINES FOR ADDITIONAL CROPS Bermudagrass Gelf Terl (Florida)

 To initiate or maintain growth and prevent color change during periods of cold stress and light frosts on golf course Bermudagrass (e.g., Tifdwarf, Tifgreen, etc.)
 Guide: Apply 10 grams* weekly or 25 grams* biweekly in 25 to 100 gallons/A

Use Pro-Gibb 4% Liquid Concentrate Mix 1/3 to 1/4 fluid ounce (1/4 to 1/4 gram*) in approximately 6 gallons appropriate for the spray equipment for application to 1,000 sq. ft. (101/2) to 261/2 fluid ounces/A equivalent to 10 to 25 grams*/A in 25 to 100 gallon/A.

Do not apply during extended warm period where night temperatures exceed 65°F. Maintain adequate moisture and proper fertilization programs recommended in local areas.

Discontinue treatments if thinning is observed.

Do not apply the high rate more frequently than every two weeks. More frequent mowing may be necessary.

Do not use on dormant turf.

Hops

- For seeded and seedless Fuggle hops and similar varieties adapted to Oregon and the Northwest.
- To increase yield and pickability.
 Guide: Apply spray when vine growth is five to eight feet in length. Use 4 to 6 grams* in 100 to 150 gallons. A

NOTE: Do not apply within three weeks of harvest.

COMVERSION TABLE

CONTENSION INSEE		
GRAMS OF ACTUAL GREERELLIC ACIO PER ACRÉ Desired Actual Gibberellic Acid Concentration (Grams A.I.*) In Finished Spray (per Acre)	TO	AMOUNT OF PRO-GIOS FORMULATION PER ACRE Pro Gibb 4% Liquid Contains 1.0 Gram*/Fluid Ounce of Formulated Product
05		05 oz
1.0		1 oz.
2.0		2 02.
4.0		4 oz.
5.0		5 oz.
8.0		8 oz
10.0		10 oz.
12.0		12 oz.
16.0		16 oz
20.0		20 oz
25 0		25 oz
32.0		32 oz
40.0		40 oz
48.0		48 oz

NOTICE TO USER:

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.



50.0

c 1989 Abbott Laboratories Chemical and Agricultural Products Division North Chicago, IL 60064 USA

50 oz.

^{*}Refers to actual Gibberellic Acid. See Conversion Table to convert to amount of formulated Pro-Gibb needed.