

EPA REG. NO. 275-11
EPA REG. NO. 275-61
EPA REG. NO. 275-62

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275-61
10-22

PRO-GIBB
(Gibberellic Acid)

SPRAYING GUIDE

KEEP OUT OF REACH OF CHILDREN

CAUTION

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

ACCEPTED

DEC 1 1989

LIQUID FORMULATION

CAUTION

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.

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.

PHYSICAL OR CHEMICAL HAZARDS
FLAMMABLE! Keep away from heat and open flame.

**SOLUBLE POWDER FORMULATION
and
TECHNICAL POWDER**

CAUTION

Powder causes eye irritation. In case of contact with eyes flush thoroughly with water.

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.

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ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.

DIRECTION FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

See container label.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must include the following information:

Inform workers of area or fields that must not be entered without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash with plenty of water. If there is any irritation in eyes after washing, get medical attention.

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

Area treated with Pro-Gibb on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash with plenty of water. If there is any irritation in eyes after washing, get medical attention.

NOTE

Gibberellic Acid is an extremely potent plant growth regulator. For best results, read all directions for use thoroughly. Consult your local experiment station specialist, distributor, or the Abbott agricultural specialist in your area for the spray schedule best suited to your conditions.

GENERAL DIRECTIONS FOR USE

Discard any unused spray material at the end of each day. Prepare solution concentrations by mixing the required amount of product with water only in a clean, empty spray tank.

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Use only as directed. The label should be read thoroughly and understood before making applications. Effectiveness requires that all parts of plant or crop must receive spray or desired result will not occur, so spray thoroughly. When a range of rates is indicated, use the concentration and spray volume recommended locally.

Data concerning the compatibility of Pro-Gibb with other agricultural compounds except Dipel 2X is not available.

SPRAY GUIDELINES FOR GRAPES

For all grapes, application is recommended by ground sprayer. Use 100 to 500 gallons as a dilute spray according to foliage density, or 30 to 80 gallons as a concentrate spray, unless specified otherwise. Do not exceed maximum rates. It is important to wet all berries thoroughly.

Thompson Seedless Grapes

- For cluster elongation ("Stretch"), looser cluster forms, and reducing cost of thinning when used in conjunction with established girdling and thinning practices.

Guide: Apply 8 to 16 grams*/A before bloom when flower clusters are 3 to 5 inches long.

- For decreased berry set (Thinning"), reducing hand-thinning costs, and hastened maturity.

Guide: Apply 8 to 16 grams*/A per application during bloom as one application or as two applications of equal amounts when the bloom period is extended with the second made 3 to 7 days after the first application.

- 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 5mm in diameter. Applications should be applied within a 1¹/₂ 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.

Perlette 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 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 160 grams*/A per growing season for all uses.

Other Seedless Grape Varieties such as Seedless Tokay, Interlaken, Lakemont, Einset, Suffolk Red, Glenora, Himrod, Reliance and Vanessa.

- 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 Grapes

- 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 Currant) Grapes

- For improving berry size.

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

Concord Grapes

(Arkansas, Michigan, New York, Ohio and Pennsylvania)

- For cluster elongation ("Stretch"), looser cluster forms, increased berry size, reduced numbers of green berries, increased soluble solids content, and increased yields, when used in conjunction with established girdling and thinning practices and a first-bloom application of daminazide (Alar-85) to increase berry set.

Guide: Apply 40-80 grams*/A in a postbloom spray at the berry shatter stage. Grape vines should have received a first bloom application of daminozide (Alar -85) at the recommended rate of 1 lb./A Alar -85. See current Alar -85 label for precautionary statements and other specific recommendations.

Applications should not be made to vines considered to be in low vigor.

Apply in sufficient water to give uniform and complete coverage.

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SPRAY GUIDELINES FOR CITRUS

**NAVEL ORANGES
(California)**

- 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 occurs 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 other 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 grams*/A as a 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
(California)

- 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 fruit, if present, may occur. After marketable color is achieved, treatment effects may be reduced the longer treated fruit remain on the tree.

LEMONS
(California except desert valleys)

- To decrease the amount of small tree ripe fruit and to produce a more desirable production pattern in relation to market demand.

Guide: Apply one spray when target crop is 1/2 to 3/4 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.

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

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**TANGERINE HYBRIDS
(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 trees.

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 January 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.

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**GRAPEFRUIT, 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 fluid ounces (1-1/4 20-ounce bottles) (25 grams*) in 250 gallons water final spray mixture 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.

**SPRAY GUIDELINES FOR
FRUIT CROPS**

BLUEBERRIES

- 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 plants.

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

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**SPRAY GUIDELINES FOR
FRUIT CROPS**

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.

**SPRAY GUIDELINES FOR
FRUIT CROPS**

**RED TART CHERRIES
(All 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.

Timing: Apply a single foliar spray between 14 to 28 days after bloom. Research and commercial experience has determined 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.

Concentration: 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.

Method 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 gram of the active ingredient, gibberellic acid.

TREE AGE	6-10 YRS.	10-15 YRS.	16-20 YRS	20+ YRS.
CONCENTRATION (PPM)	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 GRAMS	12 GRAMS	15 GRAMS

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LOW VOLUME SPRAY GUIDE (50-100 gallons per acre)

GRAMS OF ACTIVE INGREDIENT PER ACRE

APPROXIMATE TREE AGE	NORMAL VIGOR	LOW VIGOR
6-10 YRS.	4	6
10-15 YRS.	8	10
15-20 YRS.	10	14
20 + YRS.	14	18

Note: 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 year.

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.

**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 cheery 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 desired in the fourth season.

NON-BEARING PEACHES

(North Carolina, South Carolina, Georgia, Florida, Alabama, Tennessee, Mississippi)

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 Sept. to early Oct.. Apply Progibb 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	8oz. of Progibb in 10 gal. of water	40oz. of Progibb in 50 gal. of water
400 PPM	16oz. of Progibb in 10 gal. of water	80oz. of Progibb 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 GUIDELINES FOR
OTHER FRUIT**

**OLYMPUS STRAWBERRIES
(N.W. US 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 RHUBARB

- 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**

**ARTICHOKES
(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.

CARROTS

- 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 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.

CELERY

- 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-week 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.

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LETTUCE FOR SEED

- To obtain uniform bolting and increase seed production.

Guide: Apply the following spray schedule:

<u>Growth Stage</u>	<u>ppm*</u>	<u>g*/A</u>	<u>Gal/Acre</u>
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.

SPINACH

(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 dew is present on crop. Use Pro-Gibb 4% Liquid Concentrate. Mix 6 to 8 fluid ounces/A (6 to 8 grams*/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.

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**SPRAY GUIDELINES FOR FLORICULTURE CROPS
POMPOM CHRYSANTHEMUMS
(Florida)**

- For elongating peduncles on pompom chry anthemums.

Guide: Apply a single spray 4 to 5 weeks after initiation of short day conditions. Use Pro-Gibb 4% Liquid Concentrate. Use 1/2 to 1 fluid ounce (1/2 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 an 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 GOLF TURF
(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 1/4 to 2/3 fluid ounce (1/4 to 2/3 gram*) in approximately 6 gallons appropriate for the spray equipment for application to 1,000 sq. ft. (10-1/2 to 26-1/2 fluid ounces/A equivalent to 10 to 25 grams*/A in 25 to 100 gallon/A.

NOTE: Do not exceed specified rates.
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.

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Three forms of Pro-Gibb brand Gibberellic Acid are now available to better serve the needs of individual growers.

PRO-GIBB PLUS 2X SOLUBLE POWDER

Active Ingredient:
Gibberellic Acid* 20% w/w
Equivalent to 32 grams* of Gibberellic Acid per bottle.
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PRO-GIBB 4% LIQUID CONCENTRATE

Active Ingredient:
Gibberellic Acid* 4% w/w
Equivalent to Approximately 1.0 gram* of Gibberellic Acid per fluid ounce of product.
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PRO-GIBB TECHNICAL POWDER

Active Ingredient:
Gibberellic Acid* 90% w/w
Equivalent to 16 grams* of Gibberellic Acid per bottle.
EPA Reg. No. 275-11

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.

Chemical & Agricultural Products Division
Abbott Laboratories
North Chicago, IL 60064

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

Alar is the trademark of a company other than Abbott Laboratories.

CONVERSION TABLE

**GRAMS OF ACTUAL
GIBBERELIC ACID
PER ACRE**

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**AMOUNT OF PRO-GIBB
FORMULATION
PER ACRE**

Desired Actual
Gibberellic Acid
Concentration (Grams*)
In Finished Spray
(per Acre)

Pro-Gibb
Technical Powder
Contains
9.0 Gram*/10 Grams
Product

Pro-Gibb Plus 2X
Soluble
Powder Contains
2.0 Gram*/10 Grams
Formulated Product

Pro
Liqui
1.0 G
Ounce
P

0.5	0.55 grams	2.5 grams	
1.0	1.1 grams	5 grams	
2.0	2.2 grams	10 grams	
4.0	4.4 grams (1/4 btl.)	20 grams (1/8 btl.)	
5.0	5.5 grams	25 grams	
8.0	8.8 grams (1/2 btl.)	40 grams (1/4 btl.)	
10.0	11.1 grams	50 grams	
12.0	13.3 grams	60 grams	
16.0	17.6 grams (1 btl.)	80 grams (1/2 btl.)	
20.0	22.2 grams	100 grams	
25.0	27.8 grams	125 grams	
32.0	35.2 grams (2 btl.)	160 grams (1 btl.)	
40.0	44.4 grams	200 grams	
48.0	53.3 grams (3 btl.)	240 grams (1-1/2 btl.)	
50.0	55.6 grams	250 grams	