73049-1

19/2012

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

APR 192012

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Maria Pilar Herrero Regulatory Affairs Manager Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048

 Subject: ProGibb 40% Plant Growth Regulator Water Soluble Granule EPA Registration No. 73049-1 Label Amendment to add new uses for melons, Italian prunes and soybeans Decision #: 458670 Application Dated: December 08, 2011

Dear Ms. Herrero:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is acceptable provided that you:

- 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit three (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(b). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

Should you have any questions, you may contact Ms. Menyon Adams directly at 703.347.8496 or via email at <u>adams.menyon@epa.gov</u>.

Sincerely,

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MASTER LABEL

Primary Product name: ProGibb 40% Plant Growth Regulator, Water Soluble Granule.

Sublabel I: ProGibb 40%, Plant Growth Regulator, Water Soluble Granule; For agricultural use on artichoke, banana, blueberry, carrot, celery, cherries, citrus, coffee, collard greens, cotton, cucumber, grapes, dry bean, hops, Italian prune, lettuce for seed, melon, mustard greens, pecan, pepper, pineapple, rhubarb, rice, soybean, spinach, stone fruit, strawberry, turnip greens, watercress and wheat.

Sublabel II: RyzUp Smartgrass, Plant Growth Regulator; For agricultural use on pastures and forage crops.

For Organic Production

Active Ingredient	
Gibberellin A ₃	40.0% w/w
Other Ingredients	
Total	

Contains a total of 128 g of Gibberellic Acid in 320 g of product.

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration No. 73049-1 EPA Establishment No.

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, IL 60048

Net Contents: 2.5g satchets, 80 or 320 g bottles This container will treat __acre at the maximum use rate, as directed for use on ______

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ACCEPTED

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 73049-

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SUB-LABEL I

ProGibb 40% Page 2-10-11

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ProGibb[®] 40% Plant Growth Regulator

Water Soluble Granule

For agricultural use on artichoke, banana, blueberry, carrot, celery, cherries, citrus, coffee, collard greens, cotton, cucumber, grapes, dry bean, hops, Italian prune, lettuce for seed, melon, mustard greens, pecan, pepper, pineapple, rhubarb, rice, soybean, spinach, stone fruit, strawberry, turnip greens, watercress and wheat.

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PROGIBB[®] 40% Plant Growth Regulator Water Soluble Granule

For Organic Production

Active Ingredient		
Gibberellin A3	······	40.0% w/w
	· · · · · · · · · · · · · · · · · · ·	60.0% w/w
Total		00.0% w/w
•	······	

Contains a total of 128 g of Gibberellic Acid in 320 g of product.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside booklet for Precautionary Statements.

EPA Registration No. 73049-1 EPA Establishment No.

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, IL 60048 1-847-968-4700

Net Contents: 2.5g, 80 g and 320 g (0.09, 2.8 and 11.3 oz.) This container will treat __acre at the maximum use rate, as directed for use on _____

	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.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
	HOT LINE NUMBER
for treatment. You may a	r or label with you when calling a poison control center or doctor, or going lso call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment y information. For all other information, call 1-800-6-Valent.

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PROGIBB[®] 40% Plant Growth Regulator Water Soluble Granule

For Organic Production

Gibberellin A ₃	Active Ingredient	
•	Gibberellin A ₃	40.0% w/w
T (1 100 00((Other Ingredients.	60.0% w/w
1 otal	Total	100.0% w/w

Contains a total of 128 g of Gibberellic Acid in 320 g of product.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside booklet for Precautionary Statements.

EPA Registration No. 73049-1 EPA Establishment No.

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, IL 60048 1-847-968-4700

Net Contents: 2.5 g

Please see Box or Pamphlet for Precautionany Statements and Directions For Use

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

Caution: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

Follow the 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.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly-and-put on clean-clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning or disposing of equipment washwaters or rinsate.

Do not use treated seed for food, feed, or oil purposes. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

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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 Tribe agency responsible for pesticide regulation.

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 $\underline{4}$ hours unless wearing appropriate PPE.

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

- Coveralls.
- Waterproof glöves.
- Shoes plus socks.

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GENERAL DIRECTIONS FOR USE

Application Instructions:

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Keep out of reach of children.

• ProGibb 40% water soluble granule 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. results in undesirable effects. Always consult the local Valent representative in your area for the spray regimen best suited to your conditions. and the second • Do not apply to plants under pest, nutritional, or water stress. • When a range of rates is indicated, use the concentration and spray volume indicated by the local Valent representative. the states of the states • and the second • For optimum effectiveness, thorough spray coverage of the target area must be achieved. 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 most efficacious results, the use water with a pH of 4.0 to 8.5. Use buffer for water with pH above or below this range. • Applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will increase absorption of the active ingredient with the second by the plant, thus optimizing effectiveness. Night-time applications are encouraged when day-time conditions are not conducive to slow drying conditions. • Rain fastness: Re-apply if significant rain occurs within 2 hours of application.

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• Compatibility: When considering tank mixing with other products, use the following compatibility jar test before mixing a whole tank.

Start with a clear glass or plastic quart jar. Add water from the same water source that will be used for the larger tank mix. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Heat, separation, gelling, are all signs of incompatibility. Before using any mixes that pass the jar tests for compatibility, it is imperative to test the mixture on a designated area as it may result either in phytotoxicity or ineffectiveness. For further information, consult your local Valent representative.

• For aerial applications spray volumes must be greater than 2 gallons per acre (10 gallons per acre for tree crops).

• No preharvest interval is required for this product.

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

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

Container Disposal: (80 or 320 g bottles) Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill container ¼ full with water and recap. Shake 10 seconds. Pour rinsate into application equipment or mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two moretimes. Then offer for recycling or dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. If burned, stay out of smoke.

(2.5 g sachets)

Nonrefillable container. Do not reuse or refill this container. Offer for reconditioning if appropriate or dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. If burned, stay out of smoke.

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SPRAY GUIDELINES FOR GRAPE

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For all grapes, application by ground sprayer gives the most efficacious coverage. Apply as a concentrate or dilute spray in sufficient water volume to ensure complete coverage of all flower clusters or berries. For cultivar specific spray rates and timings, see accompanying tables. $\mathcal{F}_{\mathcal{A}} = \mathcal{F}_{\mathcal{A}} = \mathcal{F}_{\mathcal{A}}$

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SEEDLESS TABLE GRAPE

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YS – SEEDLESS TABLE GRA	PE
APPLICATION TIM	ING
Make one to three applications b	efore bloom
when flower clusters are 2 to 7 i	nches long.
an a	
	**
GRAMS AL/Acre	Ounces
Product/Acre	Product/Acre
8 - 24 20 - 60	0.7 – 2.2 oz
8 - 24	0.7 – 2.2 oz
8 - 24 20 - 60	0.72.2 oz
8 - 24 20 - 60	0.72.2 oz
No indications are available a	it this time.
	A.I./Acre Grams 8 - 24 20 - 60 8 - 24 20 - 60 8 - 24 20 - 60

BERRY THINNING SPRA	YS - SEEDLESS	TABLE GRA	PE]
OBJECTIVE/BENEFIT		CATION TIM		· · · · · · · · · · · · · · · · · · ·
For decreased berry set, reduced hand-	Make one to four	applications du	ring bloom.	
thinning costs, and hastened maturity.	Make only 1-2 ap			
	Grapes." When the			
i i i i i i i i i i i i i i i i i i i	subsequent spray	s are to be made	1 to 7 days	
1 Alter and a decision	after the first app	lication	1 the gal at	
CROP/ CULTIVAR	GRAMS	Grams		
	A.I./Acre	Product/Acre	Product/Acre	
Flame Seedless	3 - 16	7.5 - 40	0:3 - 1.4.oz -	
Thompson Seedless	8 - 20	20 - 50		a Arrost - Sta
Raisin	3 - 12	7.5 – 30	0.3 - 1.1 oz	
Other Seedless Grapes	0.5 - 12	1.3 - 30	0.1 - 1.1 oz	

NOTE: At the high end of the prescribed range of rates and number of applications, expect significantly more thinning in young vines or vines with high vigor. For "Other Seedless Grapes" use caution as some of the new cultivars are very responsive and overthin easily. Consult the Valent representative or local specialist before thinning cultivars with which there is no familiarity.

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BUMP SPRAY – SE	EDLESS TAB	LE GRAPE	
OBJECTIVE/BENEFIT	APPLICATI	ON TIMING	الجائل المراجع
To help initiate the beginning of the berry growth period.		lication during a st thinning spra	
CROP/ CULTIVAR	GRAMS A.I./Acre	Grams Product/Acre	Ounces Product/Acre
Thompson Seedless	16 - 24	40 - 60	1.4 - 2.2 oz
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BERI	RY SIZING SPR	AYS - SEEDLESS	TABLE GRAP	E
OBJECTIVE/BEN		APPLICATION T		
For larger berries an when used in conjur established girdling practices.	d larger clusters	Make one to four a average berry size below). Timing of dictated by experien- temperatures occur made after 15-20 da are less effective.	reaches "target" the subsequent s nce in the vineya ring between spi	diameter (See prays will be ard and ays. Sprays
CROP/ CULTIVAR	TARGET BERRY DIAMETER*	GRAMS A.I./Acre	Grams Product/Acre	Ounces Product/Acre
Perlette Seedless	4-5 mm -	32 - 128	80 - 320	2.9 – 11.5.oz
Flame Seedless	6-9 mm	20 - 128	50 - 320	1.8 – 11.5 oz
Thompson Seedless	3-5 mm	32 - 128		2.8 -11.5 oz
Raisin	3-5 mm	4 = 20	10 - 50	0.4 – 1.8 <u>oz</u>
Other Seedless Grapes	3-14 mm	8 - 60	20 - 150	0.7 – 5.4 oz
*Target average ber	ry diamèter for th	e first application.		• • • • • • • • • • • • • • • • • • •

NOTE: In some growing regions and for some cultivars, the higher amounts of gibberellic acid indicated will reduce fruitfulness (cluster counts) the following year. At the high end of the prescribed range of rates and number of applications, a delay in berry skin color development, sugar accumulation and overall maturation has been observed. Consult the Valent representative or local specialist before sizing cultivars with which there is no familiarity. 21, 21 *x).

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BERRY SIZIN	G CLUSTER DIP	- SEEDLESS TABLI	EGRAPE
OBJECTIVE/BENEFIT	A	PPLICATION TIMI	NG
To increase berry size.	Apply 20 - 50 ppn the cluster when b	n GA3 solution as a dip erries reach 12-15 mm	o or direct spray to
······································	Rate Pe	r 5 Gallons Treatmen	it Solution
CROP/ CULTIVAR	PPM AI	Grams Product	Ounces Product
Seedless Grapes	20 - 50	1-2.5	0.1 - 0.25
Note: To prepare dip soluti	on, add $1 - 2.5$ gran	n ProGibb 40% for eve	ery 5 gallons of
solution needed. Consult t	he Valent represent		
cultivars with which there	s no familiarity.		

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OBJECTIVE			PLICATION TIM	
To increase berry s			ation during the in	dicated berry
cultivars; and also		diameter range t	o the entire vine.	gara i
shrivel in Emperor.	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	<u>a ka sa ƙasar a</u> ƙa	
	BERRY		Rate	
CROP/	DIAMETER	GRAMS	Ounces	
CULTIVAR	(mm)*	A.I./Acre	. Grams Product / Acre	Product /
	<u> </u>	r		Acre
Emperor	12-16		ny en ryz	
Red Globe	12-18		•	
Calmeria 12-16		20	50	1.8
Christmas Rose	12-16			1.0
Rogue	12-16			
Queens	12-15			
*Predominant aver				
NOTE: Whole vin				
the following year.	Consult the Vale	ent representative	or local specialist b	before sizing
cultivars with whic	h there is no fam	iliarity.	-	
BERRY	SIZING CLUS	STER DIPS - SE	ένεν ταρί ε γι	DADE
	and the stand of the			
OBJECTIVE			PLICATION TIM	
OBJECTIVE	BENEFIT	API	PLICATION TIM	IING
OBJECTIVE To increase berry s	BENEFIT	API Make one 20 - 5	PLICATION TIM	UNG during the
OBJECTIVE To increase berry s cultivars; and also t	BENEFIT	API Make one 20 - 5 indicted berry di	PLICATION TIM 0 ppm application ameter range. Mak	ING during the e the application
OBJECTIVE To increase berry s	BENEFIT ize in listed to reduce berry	API Make one 20 - 5 indicted berry di as a direct spray	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste	ING during the e the application r.
OBJECTIVE To increase berry s cultivars; and also t	BENEFIT ize in listed to reduce berry BERRY	API Make one 20 - 5 indicted berry di as a direct spray	PLICATION TIM 0 ppm application ameter range. Mak	ING during the e the application r.
OBJECTIVE To increase berry s cultivars; and also t shrivel in Emperor.	BENEFIT ize in listed to reduce berry BERRY DIAMETER	API Make one 20 - 5 indicted berry di as a direct spray	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste	ING during the e the application r.
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)*	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE, To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor	BENEFIT ize in listed o reduce berry BERRY DIAMETER (mm)* 12 - 16	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 18	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 18 12 - 16	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 18 12 - 16 12 - 16 12 - 16	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme	ING during the e the application r. nt Solution
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens Other Seeded	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom or when	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom or when shatter is	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens Other Seeded Grapes	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 18 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom or when shatter is completed	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI 20 - 50	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product 1-2.5	ING during the e the application r. nt Solution Ounces Product
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens Other Seeded Grapes	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom or when shatter is completed age berry diameter	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI 20 - 50 er for this applicat	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product 1 – 2.5	ING during the e the application r. nt Solution Ounces Product 0.1 – 0.25
OBJECTIVE/ To increase berry s cultivars; and also t shrivel in Emperor. CROP/ CULTIVAR Emperor Red Globe Calmeria Christmas Rose Rogue Queens Other Seeded	BENEFIT ize in listed to reduce berry BERRY DIAMETER (mm)* 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 16 12 - 15 2-3 weeks after bloom or when shatter is completed age berry diameted a 50 ppm GA3 s	API Make one 20 - 5 indicted berry di as a direct spray Rate Per 5 PPM AI 20 - 50 er for this applicat solution, add 1 gra	PLICATION TIM 0 ppm application ameter range. Mak or dip to the cluste Gallons Treatme Grams Product 1-2.5 ion. m A.I. for every 5	ING during the e the application r. nt Solution Ounces Product 0.1 – 0.25 gallons of dip

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cultivars with which there is no familiarity.

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BERRY SIZING SPRAYS – BLACK CORINTH				
OBJECTIVE/BENEFIT	APPLICATION TIMING			
To increase berry size.	Make one application 3-5 days after full bloom, but before shatter begins.	se s si s Sas s		
CROP/ CULTIVAR	GRAMS A.I./Acre Grams Ounces Product / Product / Acre Acre			
Black Corinth (Zante Currant)	1 - 12 2.5 - 30 0.1 - 1.1	17 - 17 		

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SPRAY GUIDELINES FOR CITRUS

For citrus, apply in sprays of sufficient water volume to ensure thorough fruit wetting. In most cases, this application will cause some drop of oldest (most mature) leaves; this drop of older leaves is inconsequential. However, application to trees of low vigor or under stress (pest, nutritional, or water, etc) causes 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 ProGibb 40% application often results in significant leaf drop and fruit drop.

CITRUS: FIELD APPLICATIONS

	CITRUS – INCREASE FRUIT SET					
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE / ACRE	APPLICATION TIMING			
Valencia,						
Navel and	To enhance fruit set	15-25 GRAMS A.I	Make a single dilute spray			
Ambersweet	and yield.		between mid December			
Orange*		37.5 – 62.5 grams	and late January using			
U U		product	sufficient spray volume for			
*(Not for use		•	adequate coverage of tree			
in California)		1.4 - 2.3 ounces	canopy			
,		product				

NOTE: Many blocks of Ambersweet and Navel orange in Florida tend to flower very heavily, yet set poor crops. In these blocks, it appears that tree resources are wasted by heavy flowering, compromising the trees' ability to set fruit, support early fruit growth, and carry fruit to harvest. Productivity of heavily blooming blocks is often increased by reducing flower formation.

Mandarin and yield a.i. per 100 gallons of applications from early		1		
spray volumebloom up to 4 weeks after2.5 - 100 gramsproductproductminimum of three days0.9 - 3.6 ouncesbetween sprays. Use adilute spray with sufficientspray volume for adequatecoverage of treecanopybetween sprays.	Clementine Mandarin	1	a.i. per 100 gallons of spray volume 2.5 – 100 grams product 0.9 – 3.6 ounces	applications from early bloom up to 4 weeks after petal fall. Allow a minimum of three days between sprays. Use a dilute spray with sufficient spray volume for adequate coverage of tree

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		1914	The second
Tangerines	To increase fruit set	8 - 30 GRAMS A.I	Make one to two
and -	and yield.		applications during the
Mandarin	35111	20-75 grams product	bloom period. Apply as a
Hybrids			dilute spray.
		0.7 - 2.7 ounces	11, 11, 11
(Not for use		product	
in California)	- :	The second second	n na haran a
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	
Grapefruit	To enhance fruit set,	8 - 30 GRAMS A.I	Make a single application
	size and yield	(in December - January.
(Not for use		20 – 75 grams product	Use a dilute spray with
in California)			sufficient spray volume for
		0.7 - 2.7 ounces	adequate coverage of tree
		product	canopy. Typically 125-
			175 gallons of water per
			acre has been sufficient.

Deleted: 1

NOTE: The rate and number of applications depends upon amount of desired fruit set. Generally, more fruit will be set by 2 applications, earlier applications, higher rates, and climactic conditions more favorable to set. Differential responses to the PGR across citrus cultivars also interact with the above factors to affect the degree of fruit set achieved. Reductions in final fruit size are known to occur as a result of excessive fruit set. Increases in mature leaf drop occur in trees under stress.

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an an State State and State an

Star Ruby GrapefruitTo reduce early- season small fruit drop of Star25 – 35 GRAMS A.IMake a single dilute application during the bloom period.(Not for use in California)Ruby Variety increasing yields.62.5 – 87.5 grams productMake a single dilute application during the bloom period.NOTE: Results vary from season to season depending on environmental conditions.70 reduce early- season small grams product	CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE / ACRE	APPLICATION TIMING
Grapefruitseason small fruit drop of Star62.5 - 87.5 grams productapplication during the bloom period.(Not for use inRuby Variety thereby increasing 	Star Ruby	To reduce early-	25 – 35 GRAMS A I	Make a single dilute
(Not for use in California)fruit drop of Star Ruby Variety thereby increasing yields.62.5 - 87.5 grams product 2.3 - 3.2 ounces product	•			
(Not for use inRuby Variety thereby increasing yields.product2.3 - 3.2 ounces product	- ·		62.5 – 87.5 grams	period.
in thereby increasing 2.3 – 3.2 ounces yields.	(Not for use	Ruby Variety		
yields.	in	thereby		
yields.	California)	increasing	2.3 - 3.2 ounces	
NOTE: Double user from access to access depending on any incompontal conditions		vields.	product	n and a second
INCITE: Results vary from season to season depending on environmental conditions.	NOTE: Resu	lts vary from season	to season depending on	environmental conditions.

	CITRUS	- DELAY RIND AC	SING	المربية المربية المربية المربية	ľ
CROP/	OBJECTIVE/	USE RATE /	APPLICA	TION TIMING	

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VARIETY	BENEFIT	ACRE	
······································	······		10
Navel and	To delay rind	16 - 48 GRAMS	Make one or two applications
other orange	aging, reduce	A.I	as a concentrate or dilute
cultivars	physiological		spray.
(except	disorders (e.g.,	40 – 120 grams	
Valencia)	rind staining,	product	Early application: spray
	water spotting,		approximately 2 weeks prior
	sticky or tacky	1.4 - 4.3 ounces	to color break (typically
	surface,	product	AUG. – NOV.). This timing
	oleocellosis),	Maria Cara Cara	causes the greatest delay in
	, and produce a		rind aging and produces the
	more orderly	an a	firmest rind possible.
	harvesting.	11. PL	· · · · · · · · · · · · · · · · · · ·
	pattern		AND/OR
	•		Late application: one
		and the second second	application after marketable
	L. The Arte BA		color (typically OCT. –
		the set of	DEC.). This late spray has
	+ , 1º		been known to cause re-
• .	le se test i terre .	an a	greening.
		• • •	
Valencia	To reduce rind	40 - 80 GRAMS	Make a single application as a
Orange	creasing and to	A.I	concentrate or dilute spray in
	delay rind aging		August to October to target
	and softening	100 – 300 grams product	crop of young fruit.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	and the second sec
	1211912	3.6 – 7.2 ounces	
		product	
NOTE:	21.717	and the second	
• Do not a	pply the early spray	to groves that will be	harvested early, as fruit
			ry through July, as production
	educed the following		
			target crop. Increased re-
			After marketable color is
			treated fruit remain on the tree.
	1. 13.4.1 3	- 税(していた)に おおいゆ 彼ら ひひ	ಸ್ಥಾನ ಕನ್ನಡ ಮುಖ್ಯ ಸಂಸ್ಥೆ ಮತ್ತು ಸಂಸ್ಥೆಯಿಂದ ಕನ್ನಡ ಸಂಸ್ಥೆ ಸಂಸ್ಥೆ ಸಂಸ್ಥೆ ಮತ್ತು ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಲ್ಲಿ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ್ಥೆಯಿಂದ ಸಂಸ
Tangerine	To delay	20 - 40 GRAMS	Make one spray application
Hybrids	disorders	A.I	two weeks prior to color
(Orlando,	associated with		break. Apply as a dilute spray.
Robinson,	rind aging,	50 – 100 grams	
Minneola,	puffiness, and	product	

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Sunburst, and	softening, and	· · · · · · · · · · · · · · · · · · ·		
others)	to increase peel	1.8 – 3.6 ounces		
001013/	strength, of	product	· · · · ·	
	tangerine	produce		
	hybrids			
	inybrius			
	·			
NOTE: Do not a	pply if early harve	est is planned. Do not	apply after coloring as pre-	
			occur. Application during	
		n in rind color develo		, iš
		· · · · · · · · · · · · · · · · · · ·		• ••
Grapefruit	To delay	16 - 48 GRAMS	Make one or two dilute spray	
•	disorders	A.I	applications in sufficient	
(Not for use in	associated		volume to ensure coverage. Do	
California)	with	40 - 120 grams	not exceed 20 ppm a.i. (8	
,	rind aging	product	grams a.i. /100 gallons) in	
	(e.g.,	मार्ग्सरुग २१ २	spray solution.	
	puffiness,	1.4 - 4.3 ounces	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	softening, and	product	EARLY: Make application two	
	orange	product	weeks prior to color break.	
	coloration),	an an an the state of the state	Apply as a dilute spray (AUG.	
	prevent	ų – į	- SEPT).	
	preharvest			•
	drop of	· ·	AND/OR	
	mature fruit,			
	increase peel		LATE: Make application after	
	strength,		marketable color has	
	reduce water			
			developed (OCT – DEC).	
	loss during			
	storage, and			
	produce a			
	more orderly			
	harvesting			
	pattern.		· · · · · · · · · · · · · · · · · · ·	
			as fruit coloring will be	
			on the tree for extended periods.	
			to season depending on	
			irmest and delay in rind aging,	
make application	s before color cha	nge.	· · · · · · · · · · · · · · · · · · ·	
			.	'
Lemon/ Lime	To decrease	10 - 32 GRAMS	Make a single application	
	rind aging,	A.I	when target crop is 1/2 to full	
	yellowing,		size, but still green.	'
	and the	25 – 80 grams		
	amount of	product	· · ·	
*	small ripe	•		
	Sillan noc		1	

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produce a	product	
more desirable production	1	•
pattern relative to		
market demand.		

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

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. .. ٠; **CITRUS - INCREASE JUICE YIELD** USE RATE / CROP/ **OBJECTIVE**/ **APPLICATION TIMING** VARIETY BENEFIT. ACRE To increase juice Processing 20 GRAMS A.I Make a single application at extraction yield fruit color break in sufficient oranges volume to ensure complete in late-harvested 50 grams product processing coverage of the fruits. 11.01 18 20 4 oranges. 1.8 ounces product

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SPRAY GUIDELINES FOR TEMPERATE FRUIT CROPS

For temperate fruit crops, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. Application to plants or trees of low vigor or under stress (pest, nutritional, or water, etc) causes severe leaf and/or fruit drop. Applications of copper fungicides and/or oils within three weeks (before or after) the

server, march

ProGibb 40% application often results in significant leaf drop and fruit drop.

TEMPERATE FRUIT CROPS: FIELD APPLICATIONS

[TEMPERATE	FRUIT CROPS - F	RUITSET
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/	APPLICATION TIMING
Highbush Blueberry : Coville, Jersey, Stanley, Earliblue, Weymouth, Walcott, Berkeley, Blueray, Bluecrop, 1316A, Concord, and others (Not for use in California)	To improve fruit set.	40 – 80 GRAMS A.I 100 – 200 grams product 3.6 – 7.2 ounces product	Make a single application of 80 grams a.i. per acre in 40 to 100 gallons of water. The application should be made at full bloom (when 75% of the flowers are fully open). OR Make two applications of 40 grams a.i. per acre in 40 to 100 gallons of water. Make the first application at full bloom, and the second application within 10-14 days of the first spray. For Weymouth, application can be delayed up to two weeks after bloom to increase size of "shot" berries.
Rabbiteye Blueberry: Aliceblue, Beckyblue, Bonita, Brightwell, Climax, Delite,	To improve fruit set.	40 – 80 GRAMS A.I 100 – 200 grams product 3.6 – 7.2 ounces product	Make a single application of 40 to 80 grams a.i. in 40 -to- 100 gallons of water per acre when most of the flowers are elongated but not yet open (Bloom Stage 5).

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Tifblue, Woodward and others. Make two to four applications. Id-to-14 days apart starting at bloom Stage 5. Spray 20 to 90 water per acre per application. Melon To stimulate fruit set during periods of cool california) 1 - 4 GRAMS A.1 2.5'+10 grams 0.1 - 0.4 ounces Make application just prior to bloom. For cantalogues and application should be made at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces 0.1 - 0.4 ounces * For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces	Woodward and others. Make type to four applications. 10-to-14 days apart starting at bloom. Stage 5. Spray 20 to 40 grams in 40 to 100 gallons of water per acre per application. Melon To stimulate fruit of cool of cool california) 1 - 4 GRAMIS A1 Make application just prior to bloom. For cantaloupes and watermichar to additional at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces • For maximum benefits, vines must be in god condition, except for reduced rate of growth due to cool temperatures. • Aver a 40 av		Ć	().		
Woodward and others. Make type to four applications. 10-to-14 days part starting at blom. Stage 5. Spray 20 to 40 grams in 40 to 100 gallons of water per acce per application. Melon To stimulate fruit set during periods of cool. 1-4 CRANIS A.I. grouter Make application just prior to blom. For cansimulate fruit set during periods of cool. 2.5-10 grams product NOTE: 0.1-0.4 ounces • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for four benefits at the	Woodward and others. Make type to four applications. (Not for use in California) To stimulate fruit set during periods of cool. 1 - 4 GRAMIS AI 2.5 - 10 grams product Make application just prior to bloom. For canalional outpes and water per acre per application bloom. For canalional outpes and water per acre per application applications should be made at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces • For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.					·
Woodward and others. Make type to four applications. 10-to-14 days part starting at blom. Stage 5. Spray 20 to 40 grams in 40 to 100 gallons of water per acce per application. Melon To stimulate fruit set during periods of cool. 1-4 CRANIS A.I. grouter Make application just prior to blom. For cansimulate fruit set during periods of cool. 2.5-10 grams product NOTE: 0.1-0.4 ounces • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for reduced rate of growth due to cool temperatures. • For maximum benefits, virus must be in good condition, except for four benefits at the	Woodward and others. Make type to four applications. (Not for use in California) To stimulate fruit set during periods of cool. 1 - 4 GRAMIS AI 2.5 - 10 grams product Make application just prior to bloom. For canalional outpes and water per acre per application bloom. For canalional outpes and water per acre per application applications should be made at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces • For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.	Tiftblue,	· · · · · · · · · · · · · · · · · · ·]	
(Not for use in California) To stimulate fruit st during periods of cool california) 1 - 4 GRAMIS A1 2.5 - 10 grams product Make application just prior to bloom. For cantaloupes and watering for two skill the made at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces * For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Source and state and the state an	Not for use in California) To stimulate fruit of cool 1 - 4 GRANIS A.1 2.5 = 10 grains product Make application just prior to bloom. For cantaloupes and watern blook to do	Woodward and		10-to-14 days apart starting at		
Melon (Not for use in California) To stimulate fruit of cool temperatures 1 - 4 GRAMS A1 2.5 - 10 grams product Make application just prior to bloom. For cantaloupes and waterneligible made- at intervals of 10-to-14 days NOTE: 0.1 - 0.4 ounces applications should be made- at intervals of 10-to-14 days + For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. applications 4 - 0.0 temperatures application applications 4 - 0.0 temperatures application applications 9 - 0.0 temperatures application application 9 - 0.0 temperatures application application 4 - 0.0 temperatures application application 4 - 0.0 temperatures application application 5 - 0.0 temperatures application application	Melon To stimulate fruit of cool station of cool of cool 1 - 4 GRANIS A1 2.5 - 10 grams product Make application just prior to blocm. For cantal open and watermichor antal open and applications should be made at intervals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces application should be made at intervals of 10-to-14 days. * For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. be a state of the state of t		the second s	grams in 40 to 100 gallons of		
Melon (Not for use in California) To stimulate fruit set during periods of cool temperatures 1 - 4 GRAMS A1 2.5 = 10 grams Make application just prior to bloom. For cantalouppes and watermelons two additional arithmetals of 10-to-14 days. NOTE: 0.1 - 0.4 ounces 0.1 - 0.4 ounces * For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures. 0.1 - 0.4 ounces * Set maximum benefits, vines must be in good condition in growth due to tho the tho tho tho the tho tho tho the tho tho the tho	Melon (Not for use in California) To stimulate fruit set during periods of cool temperatures 1 - 4 GRAMS A1 2.5 = 10 grams product Make application just prior to bloom. For cantaloupses and waternel/one two additional at intervals of 10-to-844 days. NOTE: 0.1 - 0.4 ounces 0.1 - 0.4 ounces • For maximum benefits, Vines must be in good condition, except for reduced rate of growth due to cool temperatures. M4 Make application should be made at intervals of 10-to-844 days. • For maximum benefits, Vines must be in good condition, except for reduced rate of growth due to cool temperatures. M4 Make application should be made at intervals of 10-to-844 days. • For maximum benefits, Vines must be in good condition, except for reduced rate of growth due to cool temperatures. M4 Make application should be made at intervals of 10-to-844 days. • For maximum benefits, Vines must be in good condition, except for reduced rate of growth due to cool temperatures. M4 Make application should be made at intervals of a for a fo	Cumomaj				
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	TEMPERATE FRUIT		
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ ACRE	APPLICATION TIMING
Sour Cherry (Not for use in California)	To maintain and extend high fruiting capacity of sour cherry trees by promoting spur formation and reducing the occurrence of "blind" nodes. Spur formation 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.	4 - 18 GRAMS A.I 10 - 45 grams product 0.4 - 1.6 ounces product	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 $4 - 18$ grams a.i. per acre, depending on tree age and vigor (See Table below). Apply as a dilute spray in sufficient water to ensure thorough wetting, or as a concentrate spray ensuring uniform coverage.
subsequ	tions must be applied an ent yield improvement y re based on expected nor	year after year.	

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• Rates are based on expected normal tree vigor at various ages. Adjust rate according to tree vigor. If trees are vigorous, use lowest recommended rates. Lowest rates should 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.

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APPLICATION RAT				
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TREE AGE (YEARS)	GRAMS A.I./ACRE	GRAMS PRODUCT/ ACRE	OUNCES PRODUCT/ ACRE	•
6-10	<u>4 - 6</u>	10 + 15	0.4-0.5	
11-15	8-10	20 - 25	0.7 - 0.9	
16-20	10 - 14	25-35	0.9 - 1.3	
20 + years	14 = 18		1.3 - 1.6 9 (5.1.1)	
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ALIGNE **TEMPERATE FRUIT CROPS - FRUIT QUALITY** Formatted Table APTY CONTA CROP/ **OBJECTIVE**/ **USE RATE/** APPLICATION TIMING VARIETY BENEFIT ACRE 16-48 GRAMS Make 1-2 applications To produce larger. Sweet Cherry brighter colored, A.I depending on crop firmer fruit development. 40 – 120 grams product If crop development is dia tr uniform, make one 17 e mai la cen 1.4 - 4.3 ounces application when the fruit is product · translucent green to straw colored. If cultivars or conditions cause non-uniform crop 100 A 4211 1.8 development make two 0.4120 applications. When using 2 applications apply 1/3 to 1/2 E Sty. 1. 1.1 of the total desired amount 11 (F - 14) 1. jæl - - - - - -- E.S. - when the majority of the Section in fruit is translucent green. Deleted: Apply the remaining material 3-7 days later, Deleted: 1 Sec. A when the majority of the Sec. Sec. إلغه المراجع في الموصف Sec. Sec. fruit is straw colored. 4.5 water - start Use sufficient water volume Cale were the were started to ensure thorough wetting. NOTE: at la mi matter • Color development and harvest date is often slightly delayed. • Use higher rates with heavier crop loads. in the state of the state Apply as a single spray one Stone Fruit To increase fruit firmness and - - to 4 weeks prior to the Group A.I . . improve fruit. beginning of the harvest quality in the 40 - 80 grams period. Use sufficient water season of product to achieve complete coverage of fruits and application 20.99 1.4 - 2.9 ounces foliage. product NOTE: This application has been known to cause reduction in flower counts the year •

Salar and a stars

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through J	• •		 anteriore de la contra de Maria des Cardos.
Italian Prune (Not for use in California)	To reduce internal browning:	16-48	Make a single application four to five weeks before expected harvest. Apply in sufficient water volume to ensure thorough wetting.

NOTE:
 Color development and harvest have occasionally been slightly delayed. Observation of reduced bloom the following season is occasionally seen.

a je se statistic segunde en la seconda e Terrativa

	TEMPERATE FRUIT CROP	2 S —
CROP/ VARIETY	OBJECTIVE/ BENEFIT:	APPLICATION TIMING
Pecan	To extend leaf	Make 1-4 applications of 10
Not for use in	retention and the A.I	g a.i. beginning in July and
AR, CA, &	maintaingreen was a to be	continuing through October
NM	foliage. at you was a construction of the start of grams	as needed.
	is 25-100 grams	
	product.	Note: Use sufficient water
	0.9-3.6 ounces	to achieve complete
		coverage. In most cases 100
	trades are disc	gallons per acre has been
		shown to be effective.
	25661-194 11-18은 2014 - 2016 - 201	 Do not make more
		than one application
		of ProGibb in July.
	and the second sec	Using more than one
		application in July
		may result in
	STATE CONTRACTOR STREET	reduced return
	相相 相關 金属 网络金属 不正	bloom. Here heretare
	and the state of the second states and	ProGibb 40% may
•	and the filling of the second second	be tank mixed with
	AND A AND A AND A	Belay Insecticide or
	Carrow Stratter Bert Bart Stores	fungicides.
	t gest to a start.	

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CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ -ACRE	APPLICATION TIMING
Non Bearing Stone Fruit (Not for use in California)	To reduce flowering and fruiting in young stone fruit trees in order to minimize the competitive effect of early fruiting on tree	20 – 80 GRAMS A.I 50 – 200 grams product 1.8 – 7.2 ounces product	during the period of flower bud initiation for the following year. Use sufficient water to achieve good coverage of the
	development.	- 	
Non Bearing Blueberry (Not for use in California)	To reduce flowering and fruiting in young blueberry plants in order to minimize the competitive effect of early fruiting on plant development.	20 – 80 GRAMS A.I 50 – 200 grams product 1.8 – 7.2 ounces product	Make one to four applications during the period of flower bud initiation for the following year! Use sufficient water to achieve good coverage of the canopy.
flowering in the	third season, and aga	year. Treat in the seco in in the third season	and season for reduction of
physiological co with the Valent	ndition Discontinue	treatment the year bef Phorticulturist for tim	es that are in good consult of one desired harvest? Consult of ings and rates for specific
Strawberry (Not for use in California)	To increase runner production of mother plants	15 - 25 GRAMS À.I 37:5 - 62:5 grams product	Make a single application to mother plants 10 – 30 days after planting. Plants should have 1-6 leaves at spraying. Apply 100 gallons spray/acre to point of run- off.

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1 - 12 - 14 1 - 14 - 14 1 - 14 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1 - 14 1

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SPRAY GUIDELINES FOR TROPICAL FRUIT CROPS

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	TROPICAL	FRUIT CROPS – FII	ELD USES	
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE /	APPLICATION TIMING	
		anca an the		
Pineapple		125-250 GRAMS	Apply after flowering. Make 2	
(Not for use	size.		applications at 3-5 weeks	
in California)			intervals. Direct sprays to the	
		312.5 - 625 grams		
		product	achieve adequate coverage.	
		11.3 - 22.5 ounces	· ·	
		product		
		at in realized and a	the terms of the second of the	
		12-24 Grams a.i.	Make the first application a few	
	uniformity of fruit		days after planting when plants	
		30.÷.60 grams	are established. Repeat	· · · · · · · · · · · · · · · · · · ·
	enhance harvest		applications at 3-4 weeks intervals.	
	efficiency		miervais.	i e
		1.1 – 2.2 ounces		1
		product	·····································	
	·		2. <u> </u>	
CROP/	OBJECTIVE/	USE RATE /		
VARIETY			APPLICATION TIMING	. тар 19 л. т.
	BENEFIT		Sale the man say that the state	and the second
Coffee		10 to 40 Grams A		
(Not for use	bud break from as	I. S. M. & M. M. M. M. M.	volume to assure total	
in California)	latent dormancy	al contents and a sec	coverage of developing buds	
		25 to 100 grams	along all laterals (arrange	
	flowers and	product	nozzles for coverage from	
	cherry set		bottom up as well as top	
		0.9 – 3.6 oz product	down of laterals and leaves)	• • •
	a transmission and the	farr S. Spillar	Multiple applications at 3 to	.,
		, 1997, 1998, GA	7 day frequency may be,	
			to 14 days	
	, in s≇trij	and the second	Use a non-ionic surfactant at	
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	0.05% v/v.	
		<u> </u>	24 S	

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	TROPIC	AL CROPS - FIELD USES
CROP/	OBJECTIVE/	USE RATE / APPLICATION TIMING

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0.1-0.2 oz product

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stage to ration crop in at least 13 20 gal/A. Addition of non-ionic surfactant may increase activity 142 3 , e , e an saar 1-1-1 . ئ_{ول} - Ro - 1 ·. 1994 e regionente 1. 1. and solar and solar

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growth before harvest of cane in

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fields (>3 years)

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CROP /	OBJECTIVE 7	DOSE RATE	APPLICATION	
Variety	BENEFIT		TIMING	Formatted: Font color: Auto
· · · · · · · · · · · · · · · · · · ·	REAL AND A	a the start of the	ten and the second s	
Banana	ESTABLISHED	AERIAL FOLIAR	Make applications at 1	
	PLANTINGS:	SPRAY:	to 3 weeks frequency	
(Not for	To stimulate plant	Apply 6 to 20 grams a.i.	throughout the year.	ş
use in	growth and to	per acre per spray.	Use higher dose rates	
California)	reduce the effects	r	and shorter spray	
,	of stresses caused		frequency prior to and	
	by insect, disease or		during the periods of	
	adverse weather.		intense stress. Use	
	These applications		sufficient water volume	
	may help improve		to achieve adequate	
	fruit size, quality		canopy coverage. Tank	
	and overall yields.		mixing with the	
•			standard pesticide	
			treatments applied by	
			air is permissible.	
		,,,,,		
		GROUND FOLIAR	Direct applications to	
		SPRAY:	developing daughter	
		Apply 6 to 20 grams a.i.	plants and pre-bloomed	
		per acre per spray	mother plants. Make	
			applications every 1 to	
			3 weeks throughout the	
			year as needed. Use	
			higher dose rates and	
			shorter spray frequency	
			during periods of intense stress. Use	
			sufficient water volume	
	х.	•	to achieve adequate	
	,		canopy coverage Tank	
			mixing with standard	
			pesticides is	
			permissible.	
			r	
	NEW	FOLIAR PLANT	Make 2 to 3 foliar	· · ·
	PLANTINGS:	SPRAYS:	applications, beginning	
	To stimulate early	Add 1 gram a.i. per	with the 1 st application	
	growth in new	gallon of water	timing at 3-5 weeks	
	plantings, increase	equivalent.	after planting, followed	
	plant vigor and	-	by a 2^{nd} and 3^{rd}	· ·

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accelerate		application at 2 to 3
development to		week frequency. Use
flowering.		sufficient spray water
B		volume to achieve
		adequate canopy
1		coverage.
24 M.		
	<u> </u>	D AGENTIN , NORTH BERTARY STE
BUNCH SPRAYS:	FOLIAR BUNCH	Make applications
To stimulate bunch	SPRAY:	immediately after floral
fruit development,	Add 1 to 2 grams a.i. per	bunch emergence when
improving fruit size	gallon of water.	hands and fingers are
and quality and		exposed through bunch
overall yields.		bagging program. Use
	- L	sufficient water volume
	· • • •	to achieve adequate
		canopy coverage Tank
		mixing with standard
		pesticides is
		permissible. Add NP-7
	k 2 states and a state state state state state states and sta	
· · · · · · · · · · · · · · · · · · ·		surfactant at 0.05% v/v

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 		permissible. Add NP-7 surfactant at 0.05% v/v to enhance coverage and uptake.	
			1
	PSEUDOSTEM	Utilize a 5 ml volume	Ĺ
A	INJECTIONS :	per injection. Make 2 to	
	Add 2.0 to 5.0 grams a.i.	4 injections from the	
	per gallon of water.	14 th through 23 true	,
		leaves stage of plant	
		growth. Make the first	÷
1		injection beginning at	· ·
		the 14th to 15th true	
		leaves measured from	•
·		the 10 th Filiform leaf	
		development	
1	1		4

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CROP / CULTIVAR	OBJECTIVE /	DOSE RATE	APPLICATION TIMING	- من من من من 1 من من من 1 من من من من	Formatted: Font color: Auto
Plantain (Not for use in California	ESTABLISHED PLANTINGS: To stimulate plant growth and to reduce the effects of stresses caused by insect, disease or adverse weather. These applications may help improve fruit size, quality and overall yields.	GROUND FOLIAR SPRAY: Apply 6 to 20 grams a.i. per acresper spray.	Direct applications to developing daughter plants and pre-bloomed mother plants. Make applications every 1 to 3 weeks throughout the year as needed. Use higher dose rates and shorter spray frequency during periods of intense stress. Use sufficient water volume to achieve adequate canopy coverage Tank mixing with standard pesticides is		
	ی	а	permissible.		Formatted: Font color: Auto
	NEW PLANTINGS: To stimulate early. growth in new. plantings, increase plant vigor and accelerate development to flowering.	FOLIAR PLANT SPRAYS: Add 1 gram a.i. per gallon of water equivalent.	Make 2 to 3 foliar applications, beginning with the 1 st application timing at 3-5 weeks after planting, followed by a 2^{nd} and 3^{rd} application at 2 to 3 week frequency. Use sufficient spray water volume to achieve adequate canopy coverage.		

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SPRAY GUIDELINES FOR VEGETABLE CROPS Star and Star have been a second

For vegetable crops, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. Foliage of treated plants occasionally and temporarily appears lighter green in sector color due to accelerated growth rates following application. Application to plants of low vigor or under stress (pest, nutritional; or water, etc) causes severe leaf yellowing, poor performance and/ or undesirable effects. Tank-mixing with surfactants, fertilizers, and/or other pesticides should not be done unless compatibility and phytotoxicity testing is done 1 Marson Laise first using appropriate methods. 2.11.022 ية من والا^{عل}ات الجرب المطاولية (19

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A Map 1 .

		EGETABLE CROP	S
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ ACRE	APPLICATION TIMING
Artichoke	maturity and shift harvest to an earlier date	25 - 50 grams product	For perennials: apply one to three applications at bud initiation stage. For annuals: apply one to four applications at 2-week intervals, beginning at the fourth true leaf.
	i se fan fir de se General se	product	Use sufficient water volume to ensure thorough wetting of the entire plant (leaves, stems and buds).
Carrots	3 · 6 · 5	1-6 GRAMS A. I	Make the first application 4–6 weeks after emergence using
Fresh and Processing	Maintaining vigorous foliage	2.5 – 15 grams product	commercial ground or aerial equipment with spray concentrations of 20-30 ppm. In
*	has been shown	0.1 – 0.5 ounces product	severe disease situations or cool weather a second spray 14 days later is sometimes required to achieve the desired amount of
•	Alternaria Gauci.		foliar recovery. Do not apply more than twice per crop.

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Colori	To increase mlant	25 10 CDAMS	Molec e cincle emploation and to
Celery	To increase plant	2.5 - 10 GRAMS	Make a single application one to
		A.I	four weeks prior to harvest. Use
		alais an an Strang	25-to-50 gallons of water per
		6.3 + 25 grams	acre by ground application of S
	weather white starts	product	to-10 gallons of water per acre
	conditions or	0.2-0.9 ounces	for aerial application (except in
	obtain earlier	product	California). Use lower as the second se
	maturity.	product	4 weeks before harvest and
	maturity.		higher concentrations within 1-
			to-2 weeks before harvest.
			earlier than 4 weeks before.
harvest as bo	lting has been known	to occur	
~ -	1	· ··· · · · · · · · · · · · · ·	
Cucumber	To stimulate fruit	1 - 4 GRAMS A.I	Make one application prior to
01	set during periods	WERE AND	bloom followed by two
(Not for use	01 C001	2.5 – 10 grams	additional applications at
in California)	temperatures.	product	intervals of 10-to-14 days. It is
California)	All a second	01 04 200	acceptable to use up to four
	مريد وجاجزوج	0.1 - 0.4 ounces product	applications. Use sufficient water volume for thorough
	The set the	Ploquet -	coverage of exposed foliage.
NOTE: For	maximum benefits v	ines must be in good	condition, except for reduced rate
	e to cool temperature		
-	المحجو فأربعه والمتهد	الحمو المحالي مولوم ومراجع من المحالي	
Lettuce for		1 - 4 GRAMS A.I	Apply one to four applications
Seed	uniform bolting	an an train 1947 (Grind Again) Tha an train 1947 (Grind Again)	at two-week intervals,
	and increase seed	2.5 – 10 grams	beginning at the fourth true leaf.
	production	product	Use sufficient water volume to
		0.1 - 0.4 ounces	ensure thorough wetting.
	1.1		the second se
		product	
D	To increase fruit	1-3 GRAMS A.I	
Pepper		I-J GRAIVIS A.I	Apply one to two sprays of 25
Mot for use	set and promote	Contraction of the second	to 50 gallons per acre at weekly
(Not for use in	early season fruit	2.3 – 7.3 grams	intervals during the flowering
n California)	growth		C
camonna)	9-72-1	0.1-0.27 ounces product	n n n n n n n n n n n n n n n n n n n
	া পালচাই জানাই।	product	the state of the s
		product	and the state of the
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Pepper (Not for use in California)	To increase fruit size and yield	1 - 3 GRAMS A.I 2.5 - 7.5 grams product 0.1 - 0.27 ounces product	Apply in 25-to-50 gallons of water per acre at the beginning of the picking period.	• •
NOTE: The	high rate is best for	plants with heavy fruit	loads	-
Rhubarb	 	10 - 20 GRAMS A.I 25 – 50 grams product 0.9 – 1.8 ounces product	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.	
house is warn			for 24 hours after application. If emperatures above 50F lower	
Spinach, Mustard greens, Collard greens and Turnip greens.	To facilitate harvest, increase yield and improve quality of fall and over- winter crops.	 4 - 10 GRAMS A.I 10 - 25 grams product 0.4 - 0.9 ounces product 	Apply a single spray 10-to-18 days before each anticipated harvest on fall or over-winter crops, ideally when daytime temperatures are 40° F-to-70° F and during early morning hours when dew is present on crop.	
(Not for use in California)			When applied to promote growth of second cutting, wait until some regrowth has started before spraying. Maximum benefit is obtained when below normal	

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temperatures prevail following Sec. 2 application and growth would be otherwise slowed in 우리는 고객과는 글 문제 . . untreated crops. 1.1.4.3.1 . . NOTE: • Since the promotion of bolting has been known to occur, do not apply after the mid-winter period or if temperatures are expected to exceed 75 F within several days of application. Do not apply on spring plantings 学校 1273、广场、新学校 1318 34 34 ۰. 1.14 A set of the probability of the set of the a set of the a source to be a source 1 22 and a character والأركاف والمتقور والرقي وتتعرف an y he is though a statement S. S. M. HALLER B. T. Berther, and See Star Holl and The walk where on 199 . S erre, 140 de madate. ali in the s And the second s الا جاريكي الوماري ا بالاشمع أرزار المهادي المراب المشترك بالمتحصي يرار وكعائب فأناه بهرجا الت 6.10.0 and the last water and the Sec. Sec. 1.3.1 小动的 的现在分词 机放射器 化动力 and the state of the a fame to set at 1 See. 3 19 . · · · t the state to the second s 15 - 11 19 19 1 计计计数据公式部门指示 医胆酸白红发 g. i sterri the second se 1. 4 4 and the second second second a de transfer de la carde a An and the second states of the second se A. B. Barts Oak 2. Level of a Capit of the South

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OBJECTIVE/ CROP/ USE RATE/ APPLICATION TIMING VARIETY BENEFIT ACRE Rice To promote early 1-3 GRAMS A.I Make one to two applications season plant vigor at the 1-2 and/or 4-5 leaf and more uniform 2.5 - 7.5 grams stages of growth. seedling growth product · · · · · · prior to permanent flood 0.1 - 0.3 ounces establishment. product NOTE: Construction of the . بوت بايا سانه . 公会无利的 山上市 Early flooding reduces the additional flushing costs associated with a delay in • establishing the permanent flood, reduce weed infestations and the number of herbicide applications, and/or promote earlier and more uniform grain maturity. Do not apply prior to the 2-to-3 leaf stage if gibberellin seed treatment is used. Timing and dosage are to be based upon environmental conditions, tank mix combinations with herbicides, and preferred permanent flood practice in relation to rice leaf stage. And he some to have Do not apply when rice is subjected to drought stress conditions. • 3 - 8 GRAMS A.I Rice To promote main Make a single application between split-boot and 100% culm and tiller panicle extension 7.5 - 20 grams panicle heading. 新融盛石石一片。 resulting in the second product State Scharter 3.5 improved grain Heading applications to the 、「城山」で執い 0.3 ± 0.7 ounces 3 yield. first crop also has been · m = 1 product observed to accelerate regrowth of second crop rice and a · · · · · · · · · · · er, e e os HER GAR TH a trade an of

TEMPERATE FIELD CROPS – FIELD USES

the st 12 1 324 N 22 Rice (Hybrid To promote main **20-100 GRAMS** Make 1-5 applications at a series culm and tiller . A.I. regular intervals during the Production) panicle extension Yerd Caler heading period to promote resulting in 50 - 250 grams main culm and tiller panicle improved product extension. pollination and And the second seed yield. 1.8 - 9.0 ounces ne - productill and Harris states in all control and

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ProGibb 40% Page 35 of 58 2-10-11

Seed

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TETRI FLETINE AND

Rice	Promote yield	4 – 7 GRAMS A.I.	Apply to main crop rice post	- Formatted: Font: (Default) Times
	enhancement of		flowering through soft dough	New Roman
,	ratoon crop rice	10 – 17.5 grams	stage	
	by increasing	product		
	ratoon tiller	s M. A. Shard I		
	growth and aiding	0.4 – 0.6 ounces		- Formatted: Font: (Default) Times
	ratoon stand	product		New Roman
	establishment	ا چې کې دغه دغه	· · · · · · · · · · · · · · · · · · ·	
		. د . ¹ خون، المع <u>د مرده</u> ،		· · ·
Notes:	per de la com			
ProGibb ca		· · · · · · · · · · · · · · · · · · ·	applied during grain filling	
		main crop rice by $1 - 2$		
 Prodibb in 	ay delay maturity of	main crop rice by 1 – .	z uays	
	<u></u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Cotton	Promote early	1 - 6 GRAMS A.I	Apply 1 – 2 applications as a	
Cotton	season growth	1 - 0 GRAMS A.I	foliar broadcast spray during	
	and increase	2.5 – 15 grams	the 3 to 7 leaf/node stage. If	1.1.1.1
		2.5 = 15 grams	applying as a banded spray	
	Securing vigor:	product	reduce rates accordingly.	-
	1	0.1 - 0.5 ounces	Complete coverage of leaf	
		products	tissue is essential.	2 M
	and the second sec	products (
	eta , ta	the state of the second	Use higher rates when	1.1
			temperatures will likely	
		n land a star and a star	the 14 days following	
	and strategy by the		application(s).	
	the second second			
		্ৰেছ ইণ্ডিয়েন্দ্ৰৰ 👘 🖓	and the second	2
Dry Bean	Promotes early	1 - 6 GRAMS A.I	Apply $1-2$ applications as a	
	season growth;		foliar broadcast spray during	
		2.5 = 15 grams	the 3 to 7 leaf/node stage. If	
	seedling vigor;	product	applying as a banded spray	
	and increased		reduce rates accordingly.	
	plant height	0.1 - 0.5 ounces	Complete coverage of leaf	
	allowing for	products	tissue is essential.	
			the second s	
	harvesting		Use higher rates when the state	· · ·
	efficiency		temperatures will likely	•
•	1.1 122.1194,1977	State of the second second	average 75°F or less during	
			the 14 days following	
	<u> </u>		application(s).	
NOTE:			a a a a a a a a a a a a a a a a a a a	
 Do not 	apply plants that are	under drought stress. I	f plants are under continuous	

3

ProGibb 40% Page 36 of 58 2-10-11 ſ.

- Applying more often than necessary to achieve the desired height results in excessive vegetative growth.
- Avoid drift or accidental application to other crops.

	r · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	The second state in the second state	
		1		
Hops	To increase fruit	4 - 6 GRAMS A.I	Make a single application in	111
-	set and yield	State March 1999 . State	100-150 gallons of water per	×
Seeded and	State States	10 - 15 grams	acre when vine growth is 5-8	and the second
seedless			feet in length.	
Fuggle hops				
and similar		0.4 - 0.5 ounces	وي الحراف اليونة محرورة الأخراف المراقية وال	a the second sec
varieties		product		
adapted to				Zalen territeri de
the North-	1	r en station -	and the second states of the	
western	0.57.50	计 统计标准字子	a gigen an Alara sa a sa	and the second sec
states.	$=\frac{3}{2}\left[2^{\frac{1}{2}}\left[2^{\frac{1}{2}}\right]^{\frac{1}{2}}\right]$	MOLINE DE ESCLUSION	HAR I AN A HAR TO THE AND AND	an a
Note: Do not a	pply RyzUp to plants	s that are under drough	t stress. Applications during	
stem elongatio	n may increase lodgi	ng. Avoid drift or acc	idental application to other	A ANT AND A SHORE
crops.		the lease states of the	edine (Jer de graave a s	
		a system i a serie a se	19 July Proved Brids Preserver 19	an a 🐒 👘 👘 🖓 👘
	$(1+\delta_1+\delta_2)^{-1} \leq 2(3+\delta_1)^{-1}$	en des plantes de la serie	ender ander en der en der er der e	and the state of the
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Crop	Objective	Use rate/acre	Application Timing	
Soybean	To promote early	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Apply 1-2 applications as	rest in the
	season growth,	3 - 10 grams	a foliar broadcast spray	1
	seedling vigor and	A.I.	during growth stages V1-	en en fan e
	increased plant		V4 (1-2 sets of unfolded	
.]	height allowing for	8 - 25 grams	trifoliolate leaves). If 1	
	improved harvest	product	applying as a banded	
	efficiency.		spray, reduce rates	
	Patricia de carra de co	• 0.3 - 0.9 * * *	accordingly. Complete	1 + + + + + + + + + + + + + +
	and the second	ounces	coverage of leaf tissue is	Sec. Sec.
	1	product	essential. Make	
	1	and a solution	applications in 10-40 gal	an an there
			water/A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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SPRAY GUIDELINES FOR WATERCRESS:

DIRECTIONS FOR CHEMIGATION

Fill the supply tank with the desired amount of water. Then add the amount of ProGibb 40% required in order to achieve the final solution rate recommended for the specific crop to be treated. Agitate the mixture of ProGibb 4% frequently during the chemigation period to assure a uniform distribution throughout the system. Apply ProGibb 4% continuously for the duration of the water application but do not exceed recommended rates and volumes as outlined on the product label.

CHEMIGATION PRECAUTIONS

Apply this product only through the following systems: Overhead sprinklers such as impact, micro-sprinklers, or booms. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from nonuniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Prior to application ensure that the chemigation system meets the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and lowpressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

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- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve-located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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• Systems must use a metering pump, such as a positive displacement injection, pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system, interlock.

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In addition to the above use rates and recommendations, the following precautions <u>must</u> be observed when using this product in any type of irrigation system.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Watercress							
CROP/	OBJECTIVE/	USE RATE/	APPLICATION TIMING				
VARIETY	BENEFIT	ACRE					
Watercress	1) To enhance	15 - 25 GRAMS	Make one or two applications				
	growth in adverse	A.I	per acre per crop 3 to 7 days				
	weather	37.5 – 62.5 grams	before harvest. Use 50-100				
	conditions;	product	gallons of water per acre.				
	2) To help plants resume growth after insect and	1.4 – 2.3 ounces product					

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3) To increase root free stem length during low	a ata tana ay ing tang tang tang tang tang tang tang ta	7	· · · · · · · · · · · · · · · · · · ·	Nation (1997) Anna Anna Anna Anna Anna Anna Anna Anna	et i i Linto e	
light/short day	na station in the station of the sta		n 1910 - Kalensen	energi an grade	na na sana na sana na sana sana sana sa	s.,
a 12 i 1	ار از این از این از این از این از این			. 197 <u>1</u> .		. •

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PROGIBB 40% CONVERSIONS

ProGibb 40% contains 1.0 gram of active ingredient per 2.5 grams (0.09 oz) of product.

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- To convert from Gram's AI to Gram's Product Multiply gram's AI x 2.5 (i.e. 32 g a.i. x 2.5 = 80g ProGibb 40%)
- To convert from Grams AI to Dry Ounces Product Multiply grams AI x 0.09 (i.e. 32 g a.i. x 0.09 = 2.9 oz ProGibb 40%)

CONVERSION TABLE (for the 320 g size)

Grams of Active Ingredient	Grams of ProGibb 40%	Ounces of ProGibb 40%	
2	5	0.2	
4	10	0.4	
5 .	12.5	0.5	
6	15	0.6	
8	20	0.7	
10	25	0.9	
15	37.5	1.4	
20	50	1.8	
30	75	2.7	
40	100	3.6	
50	125	4.5	
60	150	5.4	
80	200	7.2	
100	250	9.0	
128	320	11.5	

Grams of ProGibb 40% WSG for given ppm's of Gibberellic Acid at Different Water Volumes.

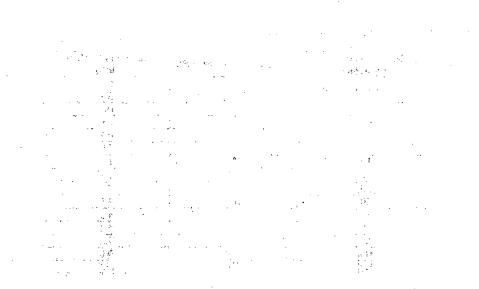
Gallons			Desir	ed parts	per millio	n (ppm) g	gibberelli	c acid		
of Water	4	5	6	8	10	15	20	30	40	50
75	1.5	3	4.5	6	7:5	.11	14	21	28	35
100	2	4	6	8	10	14	19	28	386	47
125	2.5	5	7.5	9	12	18	24	35	47	59
150	3	6.	9	11	14	21	28	43	ST 574 5	71
200	4	8	11	15	19	28	38	57	76	95
250	臺記59總。	3.10 ***	14.3	% 19 *	2.24	35	47	71%		118
300	5.5	11	17	23	28	43	57	85	113	142
400	7.5	15	23	30	38	57	76	113	151	189
500	9.5	19	28	38	47	71	95	142	189	236
600	11	23	34	45	57	85	113	170	227	284
750	14	28	43	57	71	106	142	213	284	

ProGibb 40% Page 41 of 58 2-10-11 Note: The numbers inside the table are the grams of ProGibb 40% WSG needed to obtain the desired ppm's for each gallonage.

Example:

To make 250 gallons of a 40 ppm gibberellic acid solution, dissolve 95 grams of ProGibb 40% WSG in 250 gallons of water (see shaded area).

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ProGibb 40% Page 42 of 58 2-10-11

CONVERSION TABLE (for the 80 g size) ProGibb 40% contains approximately 10 grams of active ingredient per 25 grams of product. Added over the thirt was

			网络拉丁尼亚 化无效的数 使超近的变形的
Grams of Active	Grams of ProGibb 40%	Ounces of ProGibb	1999 and a subscription of the sub- transformed and a subscription of the
2	the service of a distant		
4	10	0.4 concerts over	References and the second s
5	12.5	0.5	1996) - Estado de Constante da Serie 1999 - Serie El Constante da Serie da S 1999 - Serie da Serie
6	. 15	0.6	· .
8	20	0.7	
10	25	0.9	
15	37.5	1.4	
20	50	1.8	
30	75	2.7	
40	100	3.6	
50	125	4.5	
60	150	5.4	
80	200	7.2	

(Alternate for 80 g packaging)

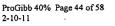
Gallons			part	ts per m	illion (p	pm) gib	berellic	acid		
of Water	4	5	6	8	10	15	20	30	40.2 	50
75	3.0	3.8	4.5	6.0	7.5	11.3	15.0	22.5	× 30.0	38
100	4.0	5.0	6.0	8.0	10.0	15.0	20.0	30.0	40.0 1	50
125	5.0	6.3	7.5	10.0	12.5	18.8	25.0	37.5	50.0+	63
150	6.0	7.5	9.0	12.0	15.0	22.5	30.0	45.0	600.	75
200	.8/0	10.0	12.0	16.0.4	20.0	30.0	40.0	60.0	1-180.0	

Note: The numbers inside the table are the grams of ProGibb 40% WSG needed to obtain the desired ppm's for each gallonage.

Example: To make 200 gallons of a 40 ppm gibberellic acid solution, dissolve 80 grams of ProGibb 40% WSG in 200 gallons of water (see shaded area).

To the fullest extent permitted by law, 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.

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SUB-LABEL II

RyzUp Smartgrass® PLANT GROWTH REGULATOR Water Soluble Granule

For agricultural use on Pastures, pasture and forage crops.

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ProGibb 40% Page 45 of 58 2-10-11

RyzUp Smartgrass® Plant Growth Regulator Water Soluble Granule 1949 y a ser a di

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For Organic Production

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Active Ingredient	
Gibberellin A ₃	40.0% w/w
Other Ingredients	
Total	

Contains a total of 128 g of Gibberellic Acid in 320 g of product.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside booklet for Precautionary Statements.

EPA Registration No. 73049-1 EPA Establishment No.

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, IL 60048 1-847-968-4700

Net Contents: 320 g This container will treat __acre at the maximum use rate, as directed for use on _

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. 				
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 				
	HOT LINE NUMBER				
for treatment. You may	er or label with you when calling a poison control center or doctor, or going also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment cy information. For all other information, call 1-800-6-Valent.				

ProGibb 40% Page 46 of 58 2-10-11

PRECAUTIONARY STATEMENTS

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HAZARDS TO HUMANS & DOMESTIC ANIMALS the two in all the an area to the the fact of a difference of a strength of the other of a

to we want to a the second state by being an of the filles of bandling through a and a second part of the construction of the second part of the second Caution: Causes moderate eye irritation. Harmful if absorbed through skinst Avoid through skinst Avoid through the second state of the second stat contact with skin, eves or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

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- Applicators and other handlers must wear the second s and water and the second shore in all a state of the water with the state of the same water
 - Long-sleeved shirt; and long parts. And the strength of the st
 - Waterproofgloves: a sale as the control of another end control as a forest of a side as a
 - Shoes plusisocks: for an in the second state of a darker water with down and the second state water water and the for Manifeld and the anterna a manual distance that the second second and

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

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User Safety Recommendations

Users should and show and an experimentary a generation over the set when an union of

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
 - Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning or disposing of equipment washwaters or rinsate.

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ProGibb 40% Page 47 of 58 2-10-11

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its sector 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 Tribe agency responsible for pesticide regulations are to the sector be an effective to the sector be

AGRICULTURAL USE REQUIREMENTS

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Use this product only in accordance with its labeling and with Standard, 40 CFR Part 170. This Standard contains requirem	ents for the protection of
agricultural workers on farms, forests, nurseries, and greenho	
agricultural pesticides. It contains requirements for training,	
and emergency assistance. It also contains specific instructio	
the statements on this label about personal protective equipme	ent (PPE), and restricted-entry
interval. The requirements in this box only apply to uses of the	his product that are covered by the second state of the second sta
the Worker Protection Standard in the first war to	the regulation of a share .
	计编辑环境 帮助 的复数人名法
Do not enter or allow worker entry into treated areas during the	he restricted entry interval
(REI) of $\underline{4}$ hours unless wearing appropriate \overline{PPE} .	n rannan an search ann ann an an an ann an an an an an an
PPE required for early entry to treated areas that is permitted	
Standard and that involves contact with anything that has bee	\mathbf{n} denotes an one can get obtain the set of the se
treated, such as plants, soil, or water is:	میں میں بین ہے۔ چین کے معالیٰ میں
Coveralls.	er annal casain a d'Alagna Alain - a cuirtean an an an an an Alainnean an an an Alainnean an Alainnean an Alain Alain Ar annaichte ann ann Alainne annsan an annsan an Alainnean an Alainnean an Alainnean an Alainnean Alainnea
Waterproof gloves	

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GENERAL DIRECTIONS FOR USE

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Keep out of reach of children:

Application Instructions: - มีขึ้นไป 16 การสาย และเป็นได้สาย เห็นได้สายไป การสายไป เกิดสายสาย โประเทศ และสาย การสายไป 16 การสายสายสายสายสายสายสายสายสายไป 16 การสายไป 16 การสายไป 16 การสายไป 16 การสายไป 16

• Ryzup Smartgrass water soluble granule 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, results in undesirable effects. Always consult the local Valent representative or crop specialist in your area for the spray regimen best suited to your conditions.

• Do not apply to plants under pest, nutritional, or water stress: A second state of the state o

• When a range of rates is indicated, use the concentration and spray volume indicated to accele to accele

For optimum effectiveness, thorough spray coverage of the target area must be achieved. Prepare solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentrations by mixing the required amount of product with the solution concentration by mixing the required amount of product with the solution concentration of the solution concentration by mixing the required amount of product with the solution concentration of the solution concentration concentration

• Applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will increase absorption of the active ingredient by the plant, thus optimizing effectiveness. Night-time applications are encouraged when day-time conditions are not conducive to slow drying conditions.

• Rainfastness: Re-apply if significant rain occurs within 2 hours of application.

• Compatibility: When considering tank mixing with other products, use the following compatibility jar test before mixing a whole tank.

Start with a clear glass or plastic quart jar. Add water from the same water source that will be used for the larger tank mix. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Heat, separation, gelling, are all signs of incompatibility. Before using any mixes that pass the jar tests for compatibility, it is imperative to test the mixture on a designated area as it may result either in phytotoxicity or ineffectiveness. For further information, consult your local Valent representative.

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a sugar a grade

• For aerial applications spray volumes must be greater than 2 gallons per acre/(10/12) to address of the second gallons per acre for tree crops).

• No preharvest interval is required for this product.

• Entry into treated areas is allowed after the restricted entry interval (REI) of 4 hours are the state of the before this time entry is prohibited unless wearing appropriate PPE (coveralls, waterproof

gloves, shoes plus socks). The and the and the addition of the second state of the second second second second

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

Pesticide Storage

Keep containers tightly closed when not in use assaults and the magnetic burg address and provide the magnetic set

Pesticide Disposal has sense to return a state to the transferred of the state of the sense of the sense of the sense of this product must be disposed of one site or at an approved of the sense waste disposal facility.

Container Disposal Container Donot reuse or refill this container. Triple rinse (or equivalent) Nonrefillable container. Donot reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into the second second seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling or dispose of in a sanitary landfill, or incineration if the second allowed by state and local authorities by burning. If burned, stay out of smoke.

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SPRAY GUIDELINES

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Apply in sprays of sufficient water volumes to ensure thorough wetting. Tank-mixing with surfactants, fertilizers, and/or other pesticides should not be done unless 2.12 compatibility and phytotoxicity testing is done first using appropriate methods. 1.1.1.1.1.1. the state of the second st · · · · · ·

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DIRECTIONS FOR CHEMIGATION

Fill the supply tank with the desired amount of water and begin agitation. Agitation should be maintained throughout the mixing and application process. Add the required amount of RyzUp SmartGrass to supply tank in order to achieve the final solution rate recommended for the specific crop to be treated. RyzUp SmartGrass should be applied at the end of water application (prior to last complete cycle in moving systems).

CHEMIGATION PRECAUTIONS:

Apply this product only through the following systems: center pivot, lateral move, side/wheel roll, traveler, solid set, big gun or hand move which have overhead sprinklers. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Prior to application ensure that the chemigation system meets the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and lowpressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

ProGibb 40% Page 52 of 58 2-10-11 In addition to the above use rates and recommendations, the following precautions must be observed when using this product in any type of irrigation system.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS-

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) of the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional. normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down a supply tank when the irrigation system is either automatically or manually shut down The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no there is no water pump, when the water pressure decreases to the point where the pesticide a discussion of the distribution is adversely affected. statistical real statistical statistics and the

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

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	PAST	URES - FIELD USI	ÊS	
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ ACRE	APPLICATION TIMING	
Pasture Grass	To stimulate dry	3 - 11 GRAMS A.I	Apply 1 to 6 applications.	
	VARIETY BENEFIT ACRE APPEICATION TIMING asture Grass To stimulate dry matter productions when cool season soil conditions product 3 - 11 GRAMS A.I (Mathematical product) Apply 1 to 6 applications every 3 to 4 weeks from late autumn to early spring grazing before treating. Moisture levels and fertility must be adequate for grass growth prior to application. OTE:			
		DIOQUCE		
	limit natural	0.2 1 0 aimaaa	Allow at least $1-5$ days after	
	rates.	product.	Moisture levels and fertility	ing and the state of the
	Will over the fee	Stratt A. Brite	must be adequate for grass	
NOTE:	<u>وین ایک دیک میں .</u>	and in the second s	growin prior to application.	
• Do not	apply to pastures that	t are not at least 1 year	old	4
 When n 	atural pasture grass	growth is very rapid, g	rass may not respond with	a state of the second
additior	nal growth the set is	國政策的自己的主義	in a set which is a set of the only of the	
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Bermudagrass				
(Tifdwarf,				29 ¹⁰ - 11 - 11 - 11
		product		
		0.9 - 2.3 ounce	water/acre.	
cultivalsj				
<i></i>		F		1
Bermudagrass		1-3 GRAMS A.I		
Tifdwarf,				
Tifgreen		product	water/acre.	
		0.1 - 0.3 ounces		
		product		
NOTE:				
 Maintai 	n adequate moisture	and proper fertilization	n programs as required for the	

Maintain adequate moisture and proper fertilization programs as required for the local area.

Keep applications of the high rate at least two weeks apart. •

Do not use on dormant grass •

Discontinue treatments if thinning is observed. •

More frequent mowing is occasionally necessary. •

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CROP/ VARIETY	OBJECTIVE/ BENEFIT	ACKE	APPLICATION TIMING
On young	Promote growth	.3 to 6 GRAMS a.i.	As a foliar application during
wheat, barley	and stand		tillering but before stem
and oat plants	establishment	8 to 17 GRAMS of	tillering.but before stem- elongation.
(Not for use		product	Use higher rates (within the indicated range) when
in California)	· • • •		indicated range) when
		0.3 to 0.6 oz	temperatures will likely
		product	average 75°F or less during
		han ta <u>kan</u> Atoka salata k	the 14 days following
	· · ·		application

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CONVERSION TABLE (for the 320 g size)

Ryzup Smartgrass contains approximately 10 grams of active ingredient per 25 grams of product.

Grams of Active Ingredient	Grams of ProGibb 40%	Ounces of ProGibb 40%
2	5	0.2
. 4	10	0.4
5	12.5	0.5
6	15	0.6
8 .	20	0.7
10	25	0.9
15	37.5	1.4
20	50	1.8
30	75	2.7
40	100	3.6
50	125	4.5
60	150	5.4
80	200	7.2
100	250	9.0
128	320	11.5

Grams of ProGibb 40% WSG for given ppm's of Gibberellic Acid at Different Water Volumes.

Gallons			Desir	ed parts	per millio	n (ppm) g	ibberelli	c acid	
of Water	4	5	6	8	10	15	20	30	50

ProGibb 40% Page 55 of 58 2-10-11

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	75	1.5	3	4.5	6	7:5	11	- 14	21	28	35
	100	.2	4	6	. 8	10	14	19	28	38 😒	47
1	125	2.5	5	7.5	9	12	18	24	35	3.47	59
	150	3	6	9	11	14	21	28	43	ExSTPP)	71
	200	4	.8	11	.15	. 19	28	38	57	之 76	95
3	250.	国。5里总	10	314 N	2019三	建 论24 第	35	68.47 M	2271日26月	1.25	
	300	5.5	11	- 17 m	23	. 28.	43	57	* <u>8</u> 5	113.	142
	400	7.5	15	23	30	38	. 57	76	113	151 _{.8}	189
	- 500	. 95	19	28,	26.38	. 47	71	95	142	189	236
was an in the second	600	11	23*	34	45	57	85	113	170	227	284
	750	14	28	43	57	71	106	. 142	. 213	284	

Note: The numbers inside the table are the grams of RyzUp SmartgrassTM WSG needed to obtain the desired ppm's for each gallonage. <u>Example:</u>

Example: To make 250 gallons of a 40 ppm gibberêllic acid solution, dissolve 95 grams of RyzUp Smartgrass™ WSG in 250 gallons of water (see shaded area).

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ProGibb 40% Page 56 of 58 2-10-11

CONVERSION TABLE (for the 80 g size)

ProGibb 40% contains approximately 10 grams of active ingredient per 25 grams of product.

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Grams of Active Ingredient	Grams of ProGibb 40%	Ounces of ProGibb 40%	
2	5	0.2	
4	10	0.4	orana Satato (⊐so)
5	12.5	0.5	n e Si n jej
6	15	0.6	
8 .	20	0.7	
10	25	0.9	
15	37.5	1.4	
20	50	1.8	
30	75	2.7	
40	100	3.6	
50	125	4:5	
60	150	5.4	
80	200	7.2	

(Alternate for 80 g packaging)

Gallons			part	s per m	illion (p	pm) gib	berellic	acid		
of Water	4	5	6	8	10	15	20	30	40°* 1830	50
75	3.0	3.8	4.5	6.0	7.5	11.3	15.0	22.5	13002	38
100	4.0	5.0	6.0	8.0	10.0	15.0	20.0	30.0	1000	50
125	5.0	6.3	7.5	10.0	12.5	18.8	25.0	37.5	450.00	63
150	6.0	7.5	9.0	12.0	15.0	22.5	30.0	45.0	16010	75
2007	28/07c	1002	0120	8160 <i>0</i>	20.07	30:00	M40.0	260.02	128000	

Note: The numbers inside the table are the grams of RyzUp Smartgrass[™] WSG needed to obtain the desired ppm's for each gallonage.

Example:

To make 200 gallons of a 40 ppm gibberellic acid solution, dissolve 80 grams of RyzUp Smartgrass[™] WSG in 200 gallons of water (see shaded area).

WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, 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.

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Ryzup Smartgrass is a registered trademark of Valent BioSciences Corporation. Products That Work, From People Who Care is a trademark of Valent U.S.A. Corporation.

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ุรารารสราก ครับการสราชสรีแก่ สมกรัสสสสรีเราที่การใช้สรีสรีรรม การสรารเขาไป เกม เหล่ายุดารสรีเล่าไป การสารการสร้างการสะการการสรารขาไป แต่บระเป็นไปไป ไปไปไม่ได้ เป็น เกมาะแหน่ไปได้การสินสารคุม แข้มประการการสร้างเป็นแน่นไป ผู้สารใหญ่ไป ให้ผู้สารสินการในสารการ (ประการ เกมาะเป็นการการไก่ พบการ ไป เป็น แกะเป็นขึ้นการสร้างและส่วนแปลเห็นประกัญไปไม่ไป ไปส่วนสินคน

 $+ \mathcal{D} \Sigma_{ij} = 1 - \frac{1}{2} \mathcal{D} \Sigma_{ij} = 0$

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EPA Reg. No. 73049-1

(For Use In AK, AL, AR, CO, CT, DC, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV and WY Only)

RYZUP SMARTGRASS® PLANT GROWTH REGULATOR FOR USE ON PERENNIAL FORAGE GRASSES, ANNUAL FORAGE GRASSES, CEREAL GRAINS AND WINTER BRASSICAS

DIRECTIONS FOR USE

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

Supplemental Label

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *RYZUP SMARTGRASS* PLANT GROWTH REGULATOR BEFORE APPLYING. USE OF *RYZUP SMARTGRASS* PLANT GROWTH REGULATOR ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *RYZUP SMARTGRASS* PLANT GROWTH REGULATOR.

PASTURES & FORAGE – FIELD USES						
CROP/ VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ ACRE	APPLICATION TIMING			
Perennial Forage Grasses	To stimulate dry matter production for grazing, hay, green chop or silage when cool season conditions limit growth rates.	3 - 11 grams A.I 7.5 – 27.5 grams product	Spring Application: 1 to 3 applications every 3 to 4 weeks starting at green up after 1 to 2 inches of new shoot growth has emerged. Autumn Application: 1 to 3 applications every 3 to 4 weeks starting when forage growth has slowed			
		0.3 – 1.0 ounces product	due to cool temperatures. Best response occurs when average daily temperatures are between 40° F to 60° F and adequate moisture and nutrition are present.			
Annual Forage Grasses	To stimulate dry matter production for grazing, hay, green chop or silage	0.3 – 1.0 ounces	Apply 1 to 6 applications every 3 to 4 weeks from autumn to early spring during periods of suboptimal growth due to cool temperatures. If applying to over-seeded pasture or newly			
	when cool season conditions limit		established pasture, apply only after seedlings are well established.			
	growth rates.		Best response occurs when average daily temperatures are between 40° F to 60° F and adequate moisture and nutrition are present.			

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Cereal Grains (such as barley, corn, oats, rye, 	matter production	0.3 - 1.0 ounces	Spring Application: 1 to 3 applications every 3 to 4 weeks starting at green up after 1 to 2 inches of new shoot growth has emerged.			
		Autumn Application: 1 to 3 applications every 3 to 4 weeks starting when forage growth has slowed due to cool temperatures.				
		Application to cereal grains during stem elongation (jointing onwards) can result in lodging. Apply during early tillering growth stages prior to stem elongation to avoid lodging.				
			Best response occurs when average daily temperatures are between 40° F to 60° F and adequate moisture and nutrition are present.			
Winter Brassicas (such as turnip, kale, rape)	To stimulate dry matter production for grazing, hay, green chop or silage when cool season conditions limit growth rates.	0.3 – 1.0 ounces	Spring Application: 1 to 3 applications every 3 to 4 weeks starting at green up after 1 to 2 inches of new shoot growth has emerged.			
			Autumn Application: 1 to 3 applications every 3 to 4 weeks starting when forage growth has slowed due to cool temperatures.			
			Best response occurs when average daily temperatures are between 40° F to 60° F and adequate moisture and nutrition are present.			

NOTE:

• Foliage occasionally and temporarily appears lighter green in color due to accelerated growth rates following application. For best results, ensure fertility is adequate to sustain additional pasture growth.

- Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.
- Once plants are at their maximum growth rate under optimal temperatures application of RyzUp SmartGrass will not stimulate additional growth.
- Plants will not respond when the ground is frozen.
- Plants treated at maximum physiological size will not respond with additional growth.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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