

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

Winfield Solutions LLC P.O. Box 64589 St. Paul, MN 55164-0589

SEP 2 3 2008

Subject:

Updated Spray Drift Language for Pyrethroid

Agricultural Use Product as per EPA letter dated February 21, 2008

Dear Glenda Haage:

The Agency is in receipt of your Applications for Pesticide Notification dated July 22, 2008 for the following products:
Tundra EC EPA Reg. No. (1381-196)
Grizzly Z Insecticide EPA Reg. No. (1381-211)
Mystic Z Insecticide EPA Reg. No. (1381-210)
Tundra CA EPA Reg. No. (1381-214)

Registration Division (RD) has conducted a review of this request for it applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The labels submitted with the applications has been stamped "Notification" and will be placed in our records.

Note under Buffer Zones the correct webmail address is: www.in-nrcs.usda-gov/technical-/agronomy/newconbuf.pdf. Also reinstate the buffer strip paragraph for the State of New York and note "streams" should read "permanent streams and "ponds" should read "natural ponds".

Please read instructions on reverse before company of form. Form Approved. Of Jo. 2070-0060. Approval expires 11-30-93				
	United States	□ Registrat	ion OPP	Identifier Number
EDA	Environmental Protection		1	
EPA		-		
	Washington, DC 20460	□ Other	·	
·	Application	for Pesticide -Section	 	
Company/Product Number 1381-196		EPA Product Manager La Rocca	3. Proposed Classifica	ation
1,301-190	·	La Hocca	□ None □ F	Restricted
Company/Product (Name) Tundra EC	· .	PM#		;
Name and Address of Applic Winfield Solutions LLC	ant (Include ZIP Code)	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in the section 3(c)(3)(b)(i), my		
P.O. Box 64589 St: Paul, MN 55164-0589		EPA Reg. No.:		
☐ Check if this is a new add	dress	Product Name:	SEP 2 3 2008	
		ection I I		
		☐ Final printed labels in res	ponse to Agency letter da	ated
☐ Resubmission in response	to Agency letter dated	☐ "Me Too" Application		
☐ Notification - Explain below	v .	☐ Other - explain below		·
Explanation: Use additional page	ge(s) if necessary. (For Section I and S	ection II).	·····	
Amendment in response to Age the EPA's letter of February 21,	ncy letter dated February 21, 2008. I ce 2008.	ertify that the only changes made o	n the label are those nec	essary to comply with
	Se	ection III		,
Material This Product Will B	Be Packaged In:			
Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container	
□ Yes* ⊮ No	☐ Yes X No	Yes X No	☐ Metal ♣ Plastic	
*Certification must be	If "Yes," No. Per	If "Yes," No. Per Package Wt. Container	☐ Glass ☐ Paper ☐ Other (Specify)	
submitted.	Unit Package Wt. Container	Package Wt. Container	Other (Specify) _	
3. Location of Net Contents Info	rmation	4. Size(s) of Retail Container	5. Location of Label Directions	
	r .	2 ½ and bulk ☐ On Label		ompanying product
6. Manner In Which Label Is Aff	ixed To Product ☐ Lithograph☐ Paper Glued☐ Stenciled	X Other (adhesiv	9)
Section I V				
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)				
Name Glenda Haage		Title Registration Manager	Telephone No. (Include Area, Code) 712-548-5213	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both country (Stamped)				
2. Signature		Title Registration Manager	1,2 t	
Typed Name Glenda Haage		5. Date August 22, 2008		. ; . (. ; . (.) . (

August 22, 2008

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
Attn: George LaRocca

Subject:

Tundra EC (1381-196)

Response to Agency letter dated February 21, 2008

Dear Mr. LaRocca:

Winfield Solutions is responding to the subject letter by adding the spray drift language to the subject label.

Enclosed please find five (5) copies of revised labeling with the changes highlighted. Also, per your email, I have struck through any old spray drift language.

Should you have any questions during your review, please contact me at ghbconsulting@frontiernet.net or 712-548-5213.

Sincerely,

Glenda Haage

Registration Manager

July Hrage



RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms. For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.



NOTIFICATION

SEP 2 3 2008

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Agricultural Insecticide

*Cis isomers 97% minimum, trans isomers 3% maximum. **Contains xylene range aromatic solvents This product contains 2 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

This label must be in the possession of the user at the time of application.

If swallowed Immediately Call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor.
Do not give any liquid to the person.
Do not give anything by mouth to an unconscious person.
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 inhaled • Move person to fresh air.
 If person is not breathing, call 911 or an ambulance, then give artificial respiration,
preferably by mouth-to-mouth, if possible.
Call a poison control center or doctor for further treatment advice.
If on skin or • Take off contaminated clothing.
clothing • Rinse skin immediately with plenty of water for 15-20 minutes.
Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Medical Emergency Assistance Call 1-877-424-7452.

EPA Reg. No. 1381-196

EPA Est. No. 5905-GA-1 Net Contents 2.5 Gals. (9.46 Liters) PROP 8-22-08

Manufactured for: Winfield Solutions P.O. Box 64589 St. Paul, MN 55164-0589

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

WARNING AVISO

WARNING. May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber or Viton
- Shoes plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are present 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 immediately if drenched or if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

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 agency responsible for pesticide regulation.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control in your area.

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 restricted-entry interval (REI) of 12 hours.

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; chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or Viton; and shoes plus socks.

STORAGE AND DISPOSAL

Pesticide Storage

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.: Do not freeze or store below 40°F. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids.

Spills

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package and used absorbent material in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or environmental control agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal

Metal or Plastic Container: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

U-Turn Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

Application Instructions

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

For LEPA irrigation a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluent, 1 to 2 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service

specialists, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure 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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Tundra insecticide should be applied continuously for the duration of the water application. Tundra insecticide should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing Bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA

NRCS. 2000 Fort Worth, Texas. 21 pp.

http://www.in.csusda/v/technical/agronom/newconbuf.pdf

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds)

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to eh application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Spray Drift Precautions

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS; MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

Do not apply by ground equipment within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cotton. Use of ultra low volume (ULV) application on corn and hops is prohibited.

For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Spray should be released at the lowest height consistent with pest control and flight-safety. Applications more than 10 feet above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Do not cultivate within 10 feet of the aquatic areas so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make aerial or ground applications during temperature inversions. Do not make aerial or ground applications to corn if heavy rainfall is imminent. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Rotational Crops

Crops for which bifenthrin tolerances exist, may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

Tank-Mixtures

Tundra insecticide may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

INDEX TO CROPS LISTED ON THIS LABEL CROP

PAGE

artichokes

brassica crops

caneberries

canola, crambe, rapeseed

citrus (not for this use in Florida)

cotton

field corn (grain and silage), popcorn, field corn grown for seed (at plant use)

field corn (grain and silage), popcorn, field corn grown for seed (pre & PPI)

field corn (grain and silage), popcorn, field corn grown for seed (foliar use) sweet corn (grain and silage), sweet corn grown for seed (at plant use)

sweet corn (grain and silage), sweet corn grown for seed (foliar use)

cucurbits

eggplant

grapes

hops

lettuce, head

pears

peppers, bell and non-bell

spinach

succulent peas and beans

tomatoes

Tuberous and corm vegetables

.Tobacco

Leafy brassicas

Dried beans and peas

Cilantro, coriander

Okra

ARTICHOKES

Apply as directed in the following table at a rate of 6.4 fl. oz. per acre (0.1 lb ai per acre).

PEST	REMARKS AND RESTRICTIONS
artichoke plume moth, cribrate weevil	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15 day intervals. Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre. Application by air: Apply specified rate in a minimum of 10 gallons per acre. Do not exceed 0.5 lb ai per acre per season. A 5-day preharvest interval must be observed.

BRASSICA CROPS

Apply as directed in the following table at rates indicated

CROP	RATE/ PEST	REMARKS AND RESTRICTIONS
head and stem brassica vegetables including: broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, Chinese broccoli (gai lon, white flowering broccoli, Chinese cabbage (napa), Chinese mustard cabbage (gai choy) kohlrabi	Pests: aphids, armyworms, corn earworm, crickets, cucumber beetles, cutworms, diamondback, moth, flea beetles, ground beetles, imported cabbageworm, leafhoppers, loopers, saltmarsh caterpillar, stink bugs, thrips, tobacco budworm, whitefly, wireworm (adults) Rate: 2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb ai per acre).	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.5 lb ai (1 quart) per acre per season. Do not make more than 5 applications after bloom. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.
	Pests: Banks-grass-mite, carmine mite, lygus bugs, Pacific spider mite, twospotted spider mite Rate: 5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb ai per acre).	

CANEBERRIES

Apply as directed in the following table at rates indicated.

REMARKS AND RESTRICTIONS
Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons per acre by air and 50 gallons per acre by ground). One application may be made pre-bloom and a second application may be made post bloom. Do not exceed 0.2 lb ai per acre per season. Do not apply within 3 days of harvest. For Crown Borer, apply 0.1 lb ai /a, post-harvest (fall) or pre-bloom (spring), as a drench application directed at the crown of plants in a minimum of 200 gallons water/acre. Greater efficacy is observed at higher water gallonages (up to 400 gallons/a) or in an application prior to a significant rainfall event. Do not make both pre-bloom foliar and pre-bloom drench applications.

CANOLA, CRAMBE, RAPESEED

Apply as directed in the following table at a rate of 2.1 to 2.6 fl. oz. per acre (0.033 to 0.04 lb ai per acre).

PEST	REMARKS AND RESTRICTIONS
aphids armyworms cutworms diamondback moth flea beetle flea hopper grasshopper _loopers	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.08 lb. a.i. (5.12 ounces formulated product) per acre per season. Do not make applications less than 14 days apart. Do not apply within 35 days of harvest.
other lepidopterous larvae plant bug seedpod weevil stink bugs thrips whitefly	

CITRUS (1 day phi)

D4	5.4	CITRUS (1 day phi)
Pest	Rate	REMARKS AND RESTRICTIONS
Diaprepes	16-32 fluid	Apply Tundra by ground equipment to bare soil beneath citrus trees. Tundra must be
Root Weevil	ounces (.255	uniformly applied from the trunk to the drip line of tree; apply in a minimum of 40
(Diaprepes	lb active) per	gallons of dilute spray per acre. Greater spray volume should insure greater uniformity
abbreviatus)	acre	of coverage. A pre- and post-application irrigation may aid in the uniformity of
		coverage as well. Tundra protects citrus tree roots from Diaprepes and other citrus root
Southern Blue		weevil feeding by forming a barrier which provides contact activity on newly hatched
Green Citrus		larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil
Root Weevil		surface beneath the tree and come in contact with Tundra as they attempt to burrow into
(Pachnaeus		the root zone. Disturbance of the soil beneath trees should be minimized. Timing of Tundra
litus)		applications is critical. Current information suggests that peak emergence of adult
		Diaprepes Weevil varies by citrus growing region and these emergence peaks can be
Blue Green		dramatically affected by environmental factors, such as soil moisture. Typically,
Citrus Root	}	two peaks are observed for Diaprepes, first in spring then late summer or early fall.
Weevil	-	Southern Blue-Green and Blue-Green Citrus Weevils and Fuller Rose Beetle and
(Pachnaeus		Little Leaf Notches typically exhibit a single emergence peak in the spring. Brown and
opalus)		Little Leaf Notches typically exhibit three emergence varies seasonally and by location,
	,	timing of Tundra application can be accurately forecast by observing adults. Adults are
Brown leaf		most active early morning and late afternoon; numbers can be estimated by trapping
Notcher		throughout spring and summer (emergence periods). Egg laying will occur
(Epicarus		for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil
mexicanus)		will begin 2-3 weeks following adult emergence. It is critical to heave the Tundra soil
Little Leaf		barrier in place prior to drop the neonates. Tundra is one of several effective tools in an
Notcher		integrated pest management program for Citrus Root Weevils. Application of Tundra
(Artipus		should be used in conjunction with good cultural practices, biological control of larvae and
floridanus)		foliar control of adults. Consult local university extension personnel for current information
Fireant	6.4-16 fluid	to protect citrus trees from Citrus Root Weevil and other pests.
(solenopsis	ounces (0.125	to protect clinds frees from Olinds Froot Weevin and other pesis.
spp.)	lb active) per	Apply to individual citrus resets, when not in solid planted rows, using hand-gun or
Asian	acre.	shielded sprayer. Peak emergence of Diaprepes root weevil generally occurs in the
Cockroach		spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil
(blattella		may also occur in the fall. If the citrus grove to be treated is in an area where
asahinae)	· ·	weather conditions are conducive to primary emergence occurring in the spring, 32 fluid
		ounces formulated product should be used to obtain the longest residual management
		of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather
		conditions will promote more than one peak of pest emergence, 16 fluid ounces
	1	formulated product can be applied early season and 16 fluid ounces formulated product
		can be applied later in the season.
		Do not apply through irrigation systems.
		Do not allow any application of Tundra to contact fruit or foliage.
		Do not apply more than a total of 32 fluid ounces of formulated product
		(0.5 lb. a.i.) per acre per year.
		Apply the specified dosage in a minimum of 40 gallons of finished spray
		per acre.
		Ground application only. Do not apply by air.
· ·	i	Do not apply within 1 day of harvest.
		·
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16/33

COTTON

Apply as directed in the following table at rates indicated.

PEST	RATE	REMARKS AND RESTRICTIONS
European corn borer	1.3 to 6.4 fl. oz.	Tundra may be applied in water or refined vegetable oil
soybean (banded) thrips	(0.02 to 0.1 lb	(soybean/cottonseed).
tobacco thrips	ai) per acre	Application in Water: Apply in a minimum of 5 gallons
boll weevil	2.6-6.4 fl. oz.	per acre with ground equipment or 1 gallon per acre by
bollworm	(0.04 to 0.1 lb	aircraft. When applying by air, 1 quart of emulsified oil
cabbage looper	ai) per acre	may be substituted for one quart of water in the finished
cotton aphid		spray.
cotton fleahopper	1	ULV Application: Apply the recommended rate of
cotton leaf perforator		Tundra in refined vegetable oil in a minimum of 1 quart of
cutworms		finished spray per acre with aircraft calibrated to give
fall armyworm		adequate coverage.
plant bugs		To Control Boll Weevil: Apply Tundra at an interval of 3
saltmarsh caterpillar		to 4 days until pest numbers are reduced to acceptable
southern garden leafhopper	,	levels.
stink bugs		To Control Mites and Aphids: Apply when pests first
tobacco budworm		appear. Repeat as necessary to maintain control. Higher
whitefly	,	rates will be required once a damaging threshold is
yellow striped armyworm		established.
beet armyworm	3.8-6.4 fl. oz.	Do not apply more than 0.5 lb. ai per acre per season.
carmine spider mite	(0.06 to 0.1 lb	Do not make more than 10 synthetic pyrethroid
lygus Spp.	ai) per acre	applications (of one product or combination of products) to
pink bollworm		a cotton crop in one growing season. Synthetic pyrethroid
twospotted spider mite		products include Ambush [®] , Ammo [®] , Asana [®] XL,
		Baythroid [®] , Capture [®] , Danitol [®] , Karate [®] , Mustang [®] , and
	·	Scout X-TRA®.
	· .	Do not graze livestock in treated areas or cut treated
		crops for feed.
		Do not apply within 14 days of harvest.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANT USE)

Row spacing (inches)	40	38	36	-30
Tundra (pounds ai per acre)	.06	.064	.069	.08
Tundra (formulated ounces per acre)	3.9	4.1	4.4	5.12

PEST	RATE	REMARKS AND RESTRICTIONS
corn rootworm	0.30 fluid	Apply as a 5 to 7 inch T-band treatment over an open
larvae (northern,	ounces (0.0046	seed furrow. Position the spray nozzle behind the
southern, western)	lb ai) per 1,000	planter shoe in front of the press wheel centered over
	linear feet of row	the row. Use the table above to determine the Tundra
army cutworm,	0.15 to 0.30 fluid	needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. (3 gallons per acre is
other cutworm	ounces (0.0023	approximately 0.2 gallons per 1000 linear feet of row at
species,	to 0.0046 lb.	36 inch spacing).
grubs,	a.i.) per 1,000	· · · · · · · · · · · · · · · · · · ·
seed corn beetle,	linear feet of row	Mix Tundra with water or fertilizer in the following
seed corn maggot,	:	manner. Fill the spray tank approximately one-half full
true armyworm,	,	with water or liquid fertilizer, add the proper amount of
other armyworm		Tundra, then add the rest of the water or fertilizer.
species,		Provide sufficient agitation during mixing and
wireworm		application to maintain a uniform spray mixture.
		Applications of Tundra alone or in recommended tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Tundra and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.
	`	Do not apply to soil where there is greater than 30% cover of crop residue remaining.
,		Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
		Do not apply more than 0.1 lb. ai (6.4 fl. oz) per acre per
		season as an at plant application.
L	<u> </u>	Do not apply within 30 days of harvest.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED Preplant Incorporated (PPI) & Preemergence (PRE)

PEST	RATE	REMARKS AND RESTRICTIONS
armyworm spp. black cutworm seedcorn maggot stalkborer white grubs wireworm	3 – 4 fl. oz. per acre PPI (0.047 to 0.062 lb ai / acre)	The 3-4oz/A rate must be applied as PPI and can be tankmixed and applied with PPI herbicides. Incorporation of Tundra should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.
armyworm spp. black cutworm stalkborer	2.56 fl. oz. per acre (0.04 lb ai / acre) PRE	The 2.56 oz/A rate may be applied PRE and can be tankmixed and applied with PRE herbicides.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (Foliar use)

	T	(Foliar use)
PEST	RATE	REMARKS AND RESTRICTIONS
aphids,	2.1 to 6.4 fl. oz.	Apply in a minimum of 2-5 gallons of finished spray
army cutworm,	per acre (0.033	per acre by aircraft or in a minimum of 10 gallons per
beet armyworm,	to 0.1 lb. ai /	acre with ground equipment. To improve control by
cereal leaf beetle,	acre)	aircraft, use 5 gallons of finished spray per acre
chinch bug,		particularly when initial populations are heavier than
common stalk borer,	·	normal. When applying by air, 1-2 quarts of emulsified
corn earworm,		oil may be substituted for 1-2 quarts of water in the
corn rootworm		finished spray. Thorough coverage is essential to
adults,		achieve control.
cucumber beetle		
adults,		To control ear-attacking pests: Apply Tundra just
cutworm species,		before silking and repeat as necessary to maintain
European corn		control.
borer,		
fall armyworm,		Southwestern corn borer, European corn borer:
flea beetle,		Make application for corn borer control with initial
grasshoppers,		application at or shortly before egg hatch.
greenbug,		, , , , , , , , , , , , , , , , , , , ,
Japanese beetle		For control of other insect pests: Apply when pests
adult,		first appear and repeat as necessary.
sap beetle,		
southern armyworm,	,	
southern corn leaf		
beetle,		
southwestern corn		
borer,		
stinkbugs,		
tarnished plant bug,		·
true armyworm or		
armyworm species,		,
webworms, .		
western bean		
cutworm,		·
yellowstriped		
armyworm		
Banks grass mite	5.12 to 6.4 fl. oz	Apply for Banks grass mite control when colonies
carmine mite	per acre (0.08 to	first form prior to leaf damage or discoloration and
twospotted spider	0.1 lb ai / acre)	before dispersal above the bottom third of the plant.
mite		For twospotted spider mite and carmine mite
		control: Apply when colonies first form prior to leaf
		damage or discoloration and before wide-spread mite
		dispersal throughout the canopy.
		Higher rates will be necessary for heavier initial
		populations and corn under heat or drought stress.
		Field experience with dimethoate at 0.5 lb. a.i. per
		acre in tank mixture has demonstrated good control
		under these conditions.
	r	For mite control in Texas, New Mexico, Oklahoma,
		and Arizona, apply in a minimum of 5 gallons of
		finished spray per acre by aircraft or in a minimum of
		10 gallons per acre with ground equipment.

Do not apply more than 0.3 lb. ai per acre per season including PRE & PPI, at plant plus foliar applications.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

Use of Tundra on corn is prohibited in all coastal counties.

Do not apply within 30 days of harvest.

SWEET CORN (GRAIN AND SILAGE) SWEET CORN GROWN FOR SEED (At plant use)

Apply as directed in the following table at rates indicated. To calculate the amount of Tundra to use per acre based on row spacing refer to the conversion chart below.

Row Spacing (inches)	40	38	36	30
Tundra (pounds ai per acre)	.06	.064	.069	.08
Tundra (formulated ounces per acre)	3.9	4.1	4.4	5.12

PEST	RATE	REMARKS AND RESTRICTIONS
corn rootworm larvae (northern, southern, western) army cutworm, cutworm species, grubs, seed corn beetle, seed corn maggot,	0.3 fl. oz per 1000 linear feet of row (0.0046 lb ai per 1000 linear feet of row) 0.15 to 0.3 fl. oz per 1000 linear feet of row (0.0023 to 0.0046 lb ai per	Apply as a 5 to 7 inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table above to determine the Tundra needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix Tundra with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of Tundra, then add the rest of the water or fertilizer.
true armyworm or armyworm species, wireworm	1000 linear feet of row)	Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of Tundra alone or in recommended tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Tundra and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.

Do not apply to soil where there is greater than 30% cover of crop residue remaining.

Do not apply within 30 days of harvest.

Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.

Do not apply more than 0.1 lb. active per acre per season as an at plant application.

SWEET CORN (GRAIN AND SILAGE) SWEET CORN GROWN FOR SEED

(Foliar use)

PEST	RATE	(Foliar use) REMARKS AND RESTRICTIONS
aphids	2.1 to 6.4 fl. oz	Apply in a minimum of 2 gallons of finished spray per
army cutworm	per acre (0.033	acre by air or in a minimum of 10 gallons per acre with
beet armyworm	to 0.1 lb ai per	ground equipment. When applying by air, 1-2 quarts of
cereal leaf beetle	acre)	emulsified oil may be substituted for 1-2 quarts of water
chinch bug		in the finished spray. Thorough coverage is essential
common stalk borer		to achieve control.
corn earworm		
corn rootworm adults		To control ear-attacking pests: Apply Tundra when
cucumber beetle		silking begins and repeat as necessary to maintain
adult		control.
cutworm species		<i>'</i>
European corn borer		Southwestern corn borer, European corn borer:
fall armyworm	•	Make 2 applications for corn borer control with the
flea beetle		initial application at or shortly before egg hatch.
grasshoppers		
greenbug		For control of other insect pests: Apply when pests
Japanese beetle		first appear and repeat as necessary.
adult		·
sap beetle		
southern armyworm		·
southern corn leaf		·
beetle		·
southwestern corn		
borer		
stinkbugs		· .
tarnished plant bug true armyworm or		
armyworm species		
webworms		
western bean		
cutworm		
yellowstriped		
armyworm		
Banks grass mite	5.12 to 6.4 fl.	Apply for Banks grass mites control when colonies
carmine mite	oz per acre	first form from prior to leaf damage or discoloration and
twospotted spider	(0.08 to 0.1 lb	before dispersal above the bottom third of the plant.
mite	ai per acre)	For twospotted spider mite and carmine mite
·		control: Apply when colonies first form prior to leaf
	•	damage or discoloration and before widespread mite
		dispersal throughout the canopy.
		Higher rates will be necessary for heavier initial
		populations and corn under heat or drought stress.

Do not apply more than 0.2 lb. a.i. (12.8 ounces formulated) per acre per season.

Do not graze livestock in treated areas of cut treated crops for feed within 1 day of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

Use of Tundra on corn is prohibited in all coastal counties.

Do not apply within 1 day of harvest.

CUCURBITS

CROP	PEST	RATE
chayote (fruit)	aphids	2.6 to 6.4 fl. oz per
Chinese waxgourd (Chinese preserving melon)	armyworms	acre (0.04 to 0.1 lb
citron melon	cabbage looper	ai per acre)
cucumber	corn earworm	
gherkin	cucumber beetles	
gourd, edible (includes hyloan, cucuzza),	cutworm	
(luffa spp.) (includes hechima, Chinese okra),	grasshopper	
(Momordica spp.) (includes balsam apple,	leafhoppers	
balsam pear, bitter melon, Chinese cucumber)	melonworm	
muskmelon (hybrids and/or cultivars of	pickleworm	
Cucumis melo, includes:	plant bug	
true cantaloupe,	rindworm	
cantaloupe,	squash bugs	
casaba,	squash vine borer	
Crenshaw melon,	stink bugs	
golden pershaw melon,	tobacco budworm	,
honeydew melon,	Carmine mite	5.12 to 6.4 fl. oz per
honey balls,	Banks grass mite	acre (0.08 to 0.1 lb
mango melon,	lygus Spp.	ai per acre
Persian melon,	twospotted spider mites	·
pineapple melon,	whitefly	,
Santa Claus melon,		·
snake melon)		1
pumpkin (cucurbita Spp.)		
squash, summer	-	
includes:		
crookneck squash,		ļ.
scallop squash,	'	
straightneck squash,		
vegetable marrow,		
zucchini)		
squash, winter		
includes;		
butternut squash,		,
calabaza,		
Hubbard squash(C. mixta; C. pepo)includes	*	
acorn squash,		
spaghetti squash)		
watermelon		
(includes hybrids and or varieties		
of Citrullis spp.) Apply in a minimum of 5 gallons of finished enray	nau ana hu air au ir a a-i-	in the of OO college

Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

Do not apply more than .3 lb ai (19.2 ounces formulated) per acre per season.

Do not make more than two applications after bloom.

Do not make applications less than 7 days apart.

Do not apply within 3 days of harvest.

EGGPLANT

EGGFLANI			
PEST	RATE	REMARKS AND RESTRICTIONS	
armyworms	2.1 to 6.4 fl. oz	Apply in a minimum of 2 gallons of finished spray	
Colorado potato beetle	per acre (0.033	per acre by air or in a minimum of 10 gallons per	
corn earworm .	to 0.1 lb ai per	acre with ground equipment. When applying by	
cucumber beetle	acre)	air, 1-2 quarts of emulsified oil may be substituted	
European corn borer		for 1-2 quarts of water in the finished spray.	
flea beetle		Thorough coverage is essential to achieve control.	
cabbage looper			
plant bug		Do not make applications less than 7 days apart.	
stink bug	}	·	
thrips		Do not apply more than 0.2 lb. ai (12.8 ounces	
tomato pinworm	•	formulated product) per acre per season.	
tomato hornworm			
vegetable leafminer		Do not apply within 7 days of harvest.	
whitefly			
Banks grass mite	5.12 to 6.4 fl. oz		
carmine mite	per acre (0.08 to		
lygus bugs	0.1 lb ai per	. •	
Pacific spider mite	acre)		
twospotted spider mite	<u> </u>	<u> </u>	

GRAPES

GRAPES			
PEST	RATE	REMARKS AND RESTRICTIONS	
cutworms	3.2 to 6.4 fl. oz	Apply in a minimum of 10 gallons of finished spray	
eastern grape	per acre (0.05 to	by air or in a minimum of 25 gallons of finished	
leafhopper,	0.1 lb ai / acre)	spray with ground equipment.	
Grape berry moth		When applying by air, 1 to 2 quarts of emulsified	
Japanese beetles adults		oil may be substituted for 1 to 2 quarts of water in	
variegated leafhopper,		the finished spray.	
western grape			
leafhopper,		·	
black vine weevil,	6.4 fl. oz/ acre	Thorough coverage is essential to achieve control.	
glassywinged	(0.1 lb ai per	When pest pressure is moderate to severe, use	
sharpshooter,	acre)	higher rate.	
twospotted spider mite	,	Do not apply more than 0.10 lb. ai per acre per	
		season.	
		Do not apply within 30 days of harvest.	

HOPS

nors			
PEST	RATE	REMARKS AND RESTRICTIONS	
Aphids, armyworms cutworms	3.8-6.4 fl. oz per acre (0.06-0.1 lb	Do not exceed .1 lb ai per application. Do not exceed .3 lb ai per acre per season.	
Leafrollers, loopers	ai / acre)		
Loanoners, loopers	ai / dore)	A spray interval of 21 days between applications must be maintained.	
root weevils	3.2-6.4 fl. oz per acre (0.05 to 0.1	A 14 day pre-harvest interval must be observed.	
twospotted spider mite	lb ai / acre) 6.4 fl. oz per acre (0.1 lb ai /acre)	Application by ground: For best results, full coverage is essential. In early season use 100-150 gallons of spray per acre. In late season use 200-250 gallons of spray per acre.	
		For root weevil control, make a directed spray to the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the plant.	
		Application by air for late season control of twospotted spider mites: Apply no less than 6.4 oz (0.1 lb ai) per application in a minimum of 10 gallons per acre.	
		Use of ultra low volume (ULV) application on hops is prohibited.	

LETTUCE, HEAD

LETTUCE, HEAD			
PEST	RATE	REMARKS AND RESTRICTIONS	
aphids,	2.1 to 6.4 fl. oz	Apply in water as necessary for insect control	
armyworms,	per acre	using a minimum of 15 gallons of finished	
corn earworm,	(0.033-0.10 lb	spray per acre with ground equipment and 5	
cucumber beetles,	ai per acre)	gallons per acre by air. When applying by air,	
cutworms,	,	1-2 quarts of emulsified oil may be	
diamondback moth,		substituted for 1-2 quarts of water in the	
flea beetles,		finished spray. Thorough coverage is	
imported		essential to achieve control.	
cabbageworm,			
leafhoppers,		Do not make applications less than 7 days	
loopers,	,	apart.	
salt marsh caterpillar,			
stink bug,		A maximum of 0.5 lb. ai may be applied per	
tobacco budworm,		acre per season.	
whitefly,			
carmine mite	5.12 to 6.4 fl.	Do not apply within 7 days of harvest.	
lygus Spp.	oz per acre		
twospotted spider mite	(0.08 to 0.10 lb		
The second secon	ai per acre)		
<u> </u>			

PEARS

PEST	RATE	REMARKS AND RESTRICTIONS
aphids	2.6 to 12.8 fl.	Application by ground: Apply as a dilute
coddling moth	oz per acre	(minimum of 200 gallons of finished spray per
cutworms	(0.04 to 0.2 lb	acre) or concentrate (minimum of 50 gallons
green fruitworm	ai per acre)	of finished spray per acre) spray in sufficient
leafhoppers		water to provide thorough coverage.
leafminers		
leafrollers		Application by air: Apply the specified rate
lygus Spp.		in a minimum of 10 gallons per acre by air.
plant bugs		
plum curculio		Do not apply more than 0.5 lb. ai per acre per
San Jose scale		season with no more than 0.45 lb. active per
(crawlers)		acre applied after petal fall.
stink bugs		
tarnished plant bugs		Apply as necessary to maintain control using
twospotted spider mite	3.8 to 12.8 fl	a minimum of 30 day spray interval. Apply up
yellow mite	oz per acre	to 14 days prior to harvest.
	(0.06 to 0.2 lb	De and annual line to the description
	ai per acre)	Do not graze livestock in treated orchards or
	5 40 1 10 0 11	cut treated cover crops for feed.
European red mite	5.12 to 12.8 fl.	
·	oz per acre	
	(0.08 to 0.2 lb	·
	ai per acre)	

PEPPERS, BELL AND NON-BELL

PEPPERS, BELL AND NON-BELL			
PEST	RATE	REMARKS AND RESTRICTIONS	
armyworms	2.1 to 6.4 fl. oz	Apply using sufficient water to obtain uniform	
corn earworm	per acre (0.033	coverage. Apply as needed. Apply with	
cucumber beetles cutworms European corn borer flea beetles leafminers loopers pepper weevil thrips whitefly	to 0.1 lb ai per acre)	ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft. Do not make applications less than 7 days apart. Do not apply more than 0.20 lb. a.i. per acre per season.	
broad mite carmine mite lygus bugs. twospotted spider mite	5.12 to 6.4 fl. oz per acre (0.8 to 0.10 lb ai per acre)	Do not apply within 7 days of harvest.	

SPINACH

PESTS	RATE	REMARKS AND RESTRICTIONS
armyworms	2.1 to 6.4 fl. oz	For control of whiteflies apply foliar
Colorado potato beetle	(0.033 to 0.10	treatments of Tundra by ground or air at rates
corn earworm	lb. ai per acre	of up to 0.4 pt. (0.1 lb. ai) per acre at
cucumber beetles		minimum 7-day intervals up to a maximum of
cutworms	· ·	4 applications.
European corn borer		
flea beetles		For control of fire ants apply Tundra EC to the
leafminers		soil (at planting) or as a foliar treatment by
loopers	·	ground or air at rates of up to 0.4 pt. (0.1 lb.
pepper weevil		active) per acre at minimum 7-day intervals
tomato pinworm		up to a maximum of 4 applications.
tomato hornworm		
thrips		Apply the specified dosage in 5-50 gallons of
whitefly		finished spray per acre by air or 10-50 gallons
broad mite	5.12 to 6.4 fl.	of finished spray per acre by ground.
Banks grass mite	oz (0.08 to	
carmine mite	0.10 lb. ai per	Do not make applications less than 7 days
fire ants	acre	apart.
lygus Spp.		Do not apply more than 0.4 lb. ai per acre per
twospotted spider mite		season.
Pacific spider mite	!	
		Do not apply within 40 days of harvest.

SUCCULENT PEAS AND BEANS

	PEST	RATE
peas (Pisum spp.): dwarf pea edible-pod English pea garden pea green pea snow pea sugar snap pigeon pea beans (Phaseolus spp.) including: broadbean (succulent) lima bean (green) runner bean snap bean wax bean bean (Vigna spp.) including: asparagus bean blackeyed pea Chinese longbean cowpeas moth bean southern pea yardlong bean jackbean soybean (immature seed) sword bean	flea beetle grasshoppers aster leafhopper leafhoppers alfalfa caterpillar aphids bean leaf beetle beet armyworm cloverworm corn earworm corn rootworm (adult) cucumber beetles cutworms European corn borer fall armyworm Japanese beetle (adult) loopers pea leaf weevil pea weevil plant bug sap beetle southern armyworm stink bugs tarnished plant bug thrips webworms western bean cutworm yellowstriped armyworm	1.6 to 6.4 fl. Oz per acre (0.025 to 0.10 lb ai per acre) 2.1 to 6.4 fl. Oz per acre (0.033 to 0.10 lb ai per acre)
	whitefly Banks grass mite carmine mite lygus spp. twospotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.10 lb ai per acre)

REMARKS AND RESTRICTIONS

Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

Do not apply more than 0.2 lb. a.i. (12.8 ounces formulated product) per acre per season.

Do not apply within 3 days of harvest.

TOMATOES

PEST	RATE	REMARKS AND RESTRICTIONS
aphids	2.1 to 5.2 fl.	Apply in water as necessary for insect
armyworms including:	oz per acre	control using a minimum of 15 gallons of
beet armyworm, fall	(0.033-0.08	finished spray per acre with ground
armyworm, southern	lb ai per	equipment.
yellowstriped armyworm	acre)	
bean leaf beetle		Thorough coverage is essential to
cabbageworm		achieve control.
carmine mite		
cloverworm		Do not make applications less than 10
corn earworm		days apart.
corn rootworm		
cucumber beetles		A maximum of 4 applications may be
cutworms		applied per season.
diamondback moth		
European corn borer		Do not apply within 1 day of harvest.
flea beetles		·
flea hopper		
grasshopper		
Japanese beetle (adult)		
leafhoppers		
loopers		·
lygus Spp.		
melonworm		· ·
pea weevil		·
pea leaf weevil		
pickleworm		·
plant bug		
rindworm		
salt marsh caterpillar		
sap beetle		
seedpod weevil		
squash bugs		·
stink bug spp.		
tobacco budworm		
tarnished plant bug		
thrips		
two spotted spider mite		
whitefly	}	

OKRA

PEST	R.A	REMARKS AND	
	LB/AI/A	FL OZ/A	RESRICTIONS
Armyworm	.033 to .10	2.1 to 6.4	Apply using sufficient water to
Corn earworm			obtain uniform coverage.
Cucumber beetles			Apply as needed. Apply with
Cutworms		·	ground equipment using a
European corn borer			minimum of 10 gallons of
Flea beeltes			finished spray per acre of a
Leafminers			minimum of 2 gallons per acre
Loopers			by aircraft.
Thrips			
Whitefly			Do not make applications less
Aphids			than 7 days apart.
Japanese beetle (adult)			
Stink bugs			Do not apply more than .20
Lygus Spp.	.08 to .10	5.12 to 6.4	pound active ingredient per
Broad Mite			acre per season.
Carmine mite			
Two spotted spider mite			Do not apply within 7 days of
			harvest.

PEST	RATE		REMARKS AND
	LB/AI/A	FL OZ/A	RESTRICIONS
Spotteded cucumber beetle Beef armyworm Cabbage looper Aphids Whitefly	.033 to .10	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed Apply with ground equipment using a minimum10 gallons of finished
Flea beetle			spray per acre or a minimum
Thrips Leafminer Cutworm Grasshoppers Saltmarsh caterpillar			of 2 gallons per acre by aircraft. Do not make applications less than 7 days apart. Do not apply more than .50
Two spotted spider mite	.08 to .10	5.12 to 6.4	pound active ingredient per acre per season. Do not apply within 3 days of harvest.

DRIED BEANS AND PEAS

CROP PEST DOSAGE Remarks Al RESRICTIO Dried cultivars of: Bean (Lupins) Bean (Lupins) Bean (Aster leafhopper (phaseolus) Field bean Kidney bean Lima bean(dry) Navy bean Pinto bean Tepary bean Bean (vigna) Adzuki bean Blackeyed pea Crowder pea Moth bean Moth bean Moth bean Moth bean Southern pea Urd bean Broad bean (dry) Chickpea Guar Flea beetle .025 to .1 1.6 to 6.4 Apply in a minim 2 gallons of finis spray per acre ground equipme When applying 1 1-2 quarts of emulsified oil m substituted for 1 quarts of water finished spray. Through covera essential to ach control. Do not apply mothan .2 lb. Active ingredien ounces formulat peas, or 0.3 act ingredient (19.2	num of shed by air of 10 e with ent. by air, ay be -2 in the ge is ieve
Bean (Lupins) Bean (phaseolus) Field bean Kidney bean Lima bean(dry) Navy bean Pinto bean Bean (vigna) Adzuki bean Blackeyed pea Cowpea Cowpea Corowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Broad bean (dry) Chickpea Grasshopper Aster leafhoppers leafhoppers leafhoppers leafhoppers leafhoppers 2 gallons of finis spray per acre to or in a minimum gallons per acre ground equipment When applying 1 1-2 quarts of emulsified oil man substituted for 1 quarts of water finished spray. Through covera essential to ach control. Do not apply mothan . 2.1 to 6.4 Active ingredien ounces formulat peas, or 0.3 active ingredien ounces formulated peas, or 0.3 active ingredien ou	shed by air of 10 e with ent. by air, ay be -2 in the ge is ieve
Lima bean(dry) Navy bean Pinto bean Tepary bean Bean (vigna) Adzuki bean Blackeyed pea Catjang Cowpea Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Broad bean (dry) Chickpea When applying 1 1-2 quarts of emulsified oil many substituted for 1 quarts of water finished spray. Through covera essential to ach control. Do not apply moth than .2 lb. Active ingredien ounces formulat peas, or 0.3 active ingredien ounces formulated peas.	by air, ay be -2 in the ge is ieve
Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Broad bean (dry) Chickpea Aphids Beef armyworm Fall armyworm Southern armyworm Yellowstripped Armyworm Bean leaf Beetle Do not apply moth than .2 lb. Active ingredien ounces formulat peas, or 0.3 active ingredien ounces formulated peas, or 0.3 active ingredien ounces formul	٠
Urd bean Armyworm Active ingredien ounces formulat peas, or 0.3 active ingredien ounces formulated peas, or 0.3 active ingredien ounces formulated peas, or 0.3 active ingredien ounces formulated peas.	
Lablab bean Lentil Pea (Piscum) Field pea Beetles Japanese beetle Adult sap beetle Plant bug Ounces formulat beans per acre season.	ted) to ive ted) to per
Pigeon pea Stink bugs Do not apply wit days of harvest.	
Alfalfa Caterpillar Cloverworm European corn Borer Cutworms Western bean Cutworm	s than
Corn earworm Loopers Corn rootworm Adult thrips Webworms Pea weevil	
Pea leaf weevil Whitefly Imported cabbageworm Saltmarsh caterpillar Tobacco budworm leafminer	
Banks grass Mite .08 to .1 5.12 to	

·			
	Twospotted spider	6.4	
	mite		•
	Spider mite		
	Carmine mite		·
	Lygus spp.		

Bok choy Collards Tobacco budworm Kale Mizuna Mustard greens Mustard spinach Rape greens Corn earworm Tobacco budworm Saltmarsh caterpillar Leafhoppers Flea beetles Imported Cabbageworm Cucumber beetles Aphids Corn earworm 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2		LEAFY B	RASSICAS		
Broccoli raab Bok choy Collards Kale Mizuna Mustard greens Mustard spinach Rape greens Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Cutworms Corn earworm Tobacco budworm Saltmarsh caterpillar Leafhoppers Saltmarsh caterpillar Cadlopers Shieb abeetles Aphids When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Through coverage is essential to achieve control. Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less thar 7 days apart. mite Carmine mite Pacific spider mite Do not apply within 7 days of harvest.	CROP	PEST	DOS	AGE	REMARKS AND
Bok choy Collards Col	ł		LB/AI/A	FL OZ/A	RESTRICTIONS
Collards Kale Saltmarsh caterpillar Leafhoppers Mustard greens Mustard spinach Rape greens Cucumber beetles Aphids Vhitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted. Saltmarsh caterpillar Leafhoppers Flea beetles Imported Cucumber beetles Aphids When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less thar 7 days apart. Do not apply within 7 days of harvest.	Broccoli raab	Cutworms	.033 to .1	2.1 to 6.4	Apply in a minimum of
Kale Mizuna Mizuna Mustard greens Mustard spinach Rape greens Mustard spinach Rape greens Mite Cucumber beetles Aphids Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Mite Carmine mite Carmine mite Pacific spider mite Mustard greens Flea beetles Imported Interestination Interestination Int	Bok choy	Corn earworm			2 gallons of finished
Mizuna Mustard greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Mustard spinach Rape greens Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Mite Carmine mite Pacific spider mite Mustard greens gallons per acre with ground equipment. When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.	Collards	Tobacco budworm			spray per acre by air
Mustard greens Mustard spinach Rape greens Flea beetles Imported cabbageworm Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Flea beetles Imported Cabageworm Cucumber beetles Aphids Substituted for 1-2 quarts of water in the finished spray. Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. aphids Banks grass Alter and Alter applications less than 7 days apart. Do not apply within 7 days of harvest.	Kale	Saltmarsh caterpillar	Ì		or in a minimum of 10
Mustard spinach Rape greens Imported cabbageworm Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less thar 7 days apart. Do not apply within 7 days of harvest.	Mizuna	Leafhoppers	1		gallons per acre with
Rape greens Cabbageworm Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Mite Carmine mite Carmine mite Pacific spider mite Carmine m	Mustard greens	Flea beetles		·	
Cucumber beetles Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Carmine mite Pacific spider mite Minte Carmine mite Carmine mite Pacific spider mite Minte Carmine mite Carmine mite Pacific spider mite Minte Carmine mite Carmine mi	Mustard spinach	Imported			
Aphids Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Stink bugs Through coverage is essential to achieve control. Though coverage is essential to achieve control. Though coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.	Rape greens	cabbageworm			1-2 quarts of
Whitefly Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Mite Carmine mite Carmine mite Pacific spider mite Stink bugs Through coverage is essential to achieve control. Through coverage is essential to achieve indicate achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.		Cucumber beetles			emulsified oil may be
Armyworms Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Mite Carmine mite Carmine mite Pacific spider mite Stink bugs Through coverage is essential to achieve control. Through coverage is essential to achieve tontrol. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.		Aphids			substituted for 1-2
Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Through coverage is essential to achieve control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.		Whitefly			quarts of water in the
Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Carmine mite Carm		Armyworms	1		finished spray.
Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Carmine mite Carmine mite Ground beetles control. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.		Loopers			
Ground beetles Thrips Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider Carmine mite Carmine mite Pacific spider mite Wireworm (adults) Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.		Stink bugs			
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Wireworm (adults) Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply more than .4 lb. active ingredient per acre per season. Do not apply more than .4 lb. active ingredient per acre per season. Do not apply more than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart.		Ground beetles			control.
Diamondback moth Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Diamondback moth than .4 lb. active ingredient per acre per season. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.					
Japanese beetle (adult) aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Japanese beetle ingredient per acre per season. Do not make applications less thar 7 days apart. Do not apply within 7 days of harvest.			[·		
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aphids Banks grass Mite Twospotted spider mite Carmine mite Pacific spider mite Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.			}		
Banks grass .08 to .1 5.12 to Do not make applications less than Twospotted spider .7 days apart. mite Carmine mite		1 ' '			per season.
Mite Twospotted spider 7 days apart. mite Carmine mite Pacific spider mite 6.4 applications less than 7 days apart. Do not apply within 7 days of harvest.					
Twospotted spider 7 days apart. mite Carmine mite Do not apply within 7 Pacific spider mite days of harvest.		,	.08 to .1		
mite Carmine mite Do not apply within 7 Pacific spider mite days of harvest.				6.4	
Carmine mite Do not apply within 7 Pacific spider mite days of harvest.					/ days apart.
Pacific spider mite days of harvest.					Demonstrated 7
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Lygus spp.					days of narvest.
		Lygus spp.			
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TOBACCO

CROP	TOB <i>A</i> PEST		AGE	REMARKS AND
, Chur	FLOI			
tobacco	Cutworms ssp. Tobacco flea beetle (larvae) White grubs Wireworms Mile crickets Armyworm spp. stalkborders Aphid spp. Armyworm Flea beetle (adults) Chinch bugs Stink bugs Japanese beetles Grasshoppers Cutworm spp. Tarnished plant bugs Green bugs Thrips whiteflies Spider mites Lygus spp.	.0625 to .1 .04 to .1	2.56 to 6.4	RESTICTIONS Pre-transplant soil applications: Apply 0.0625- 0.1 lb ai/A in a minimum of 10 gal/A to control soil pests. Use of suitable equipment to incorporate into top 4 inches of soil is required to control below ground pests. At-transplant water treatment application: Apply 0.0625- 0.1lb ai/A in a water treatment application volume of 10-200 gal/A. Foliar applications: Apply 0.04- 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. Do not make more than 2 foliar applications per season.
				Do not apply more than .2 lb ai/A per season. Do not apply later than layby. May be tank mixed with Command, Spartan and other herbicides approved for tobacco use.

TUBEROUS AND CORM VEGETABLES

0=0=	TUBEROUS AND			DEMARKO AND
CROP	PEST	DOS LB/AI/A	FL OZ/A	REMARKS AND RESTRICTIONS
Potato Sweet potato Arracacha Arrowroot Chinese artichoke Jerusalem artichoke	Corn wireworm Tobacco wireworm	.3 (at-plant)	19.2 (at-plant)	Tundra may be applied as an in-furrow planting time treatment for the control of wireworms, rootworms and white grubs. Apply Tundra at the rate of .3
Edible canna Cassva (bitter and sweet) Chayote (root) Chula Dasheen (taro)	Southern potato wireworm Japanese beetle grubs June beetles	.05 (lay-by)	3.2 (lay-by)	pounds active per acre as an infurrow spray or T- band spray at planning time. Tundra may be applied as a lay-by treatment for the
Ginger Leren Tanier Turmer Yam bean True yam	Sweetpotatoe flea beetle Cucumber beetle Sweetpotatoe weevil Banded cucumber beetle Black flea beetle Whitefringed beetle Sugarcane beetle Rootworms	.033 to .1 (foliar	2.1 to 6.4 (foliar)	control of wireworms, rootworms and whitegrubs. Apply Tundra to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply Tundra as a banded spray over the row at a rate of .0515 lb. active per acre (3.2 to 9.6 ounces formulated) in 10 gallons per acre of spray. Tundra may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles(wireworms),
				cucumber beetles(rootworms), white fringed beetles and may/june beetles (white grubs). Apply Tundra at the rate of .1 lbs active per acre(6.4 ounces formulated) in 10 gallons of spray by ground and 3 gallons of spray by air.
				Do not make more than 2 foliar applications per season no sooner than 21 days apart. Do not apply more than .5 lb active ingredient per acre per season, including soil application. Do not apply within 21 days of harvest.

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