

DIRECTIONS FOR USE

Application: Apply the recommended rates when insects first appear unless otherwise noted, continue application at 3-7 day intervals or as needed. Use sufficient water to obtain thorough, uniform coverage. For aerial, use a minimum of 5 gallons per acre (gpa) except: 0.53 gpa (2 1/2 gal) for cotton and soybeans; 2 gpa for beans (including black-eyed peas and cowpeas), cucumber, melons (including cantaloupe and watermelon), peanuts and sorghum; 3 gpa for alfalfa, cabbage, corn, lettuce, onions, peas, spinach, and sugarbeets; 10 gpa for grapes, nectarines, and strawberries; 15 gpa for oranges and lemons. Apply the low rates on small plants, small insects, and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

NOTE: Be certain the following conditions are met before using "Lannate" LV as a low-volume aerial spray:

- equipment is capable of delivering small spray droplets to insure thorough coverage.
- equipment is adjusted to distribute spray uniform over the spray swath.
- wind conditions and other factors such as temperature and humidity are such that the spray is delivered to the target area.
- local regulations do not prohibit low-volume aerial sprays.

Crops	Insects	RATES	LAST APPLICATION—DAYS	
		LANNATE® LV Pints per Acre	Harvest	To Livestock Grazing/ Feeding
Alfalfa (Do not apply to dormant or semi-dormant alfalfa when min daily temp. is 50°F. or lower.)	Pine Aphid, Lygus Bugs, Blotch Leafminer, Aphids, Egyptian Alfalfa Weevil Larvae	1 1/2 - 3		
	Fall Armyworm	1 1/2		
	Alfalfa Weevil Larvae	3		7
	Loopers, Yellow-striped Armyworm, Western Yellow-striped Armyworm, Armyworm	3/4 - 1 1/2		
	Variegated Cutworm, Beet Armyworm	3/4 - 3		
	Alfalfa Caterpillar	1 - 1 1/2		
Asparagus	Cabbage Looper	3	7	
	Beet Armyworm	1 1/2 - 3		
Apple (Do not use on Early McIntosh & Wealthy varieties)	Apple Aphid	2 1/2 - 1 1/2 / 100 gals.; up to 400 gals. per acre		
	Rosy Apple Aphid, Tufted Apple Budmoth, Green Fruitworm, Tornished Plant Bug	2 1/2 - 1 1/2 / 100 gals.; up to 400 gals. per acre		
	Codling Moth (10-12 day intervals)			10
	Leafrollers (Fruitree, Obliquebanded, Red banded, Variegated), Lesser Appleworm, White Apple Leafhopper, Tentiform Leafminer	1 1/2 / 100 gals.; up to 400 gals. per acre		
	Cutworm	1 1/2 / 100 gals.		
Asparagus	Beet Armyworm, Western Yellow-striped Armyworm, Asparagus Beetle, Spotted Asparagus Beetle, White Cutworm, Red-backed Cutworm	1 1/2 - 3		
	Variegated Cutworm	1 1/2		
Avocado	Avocado Looper, Avocado Leafroller, Omnivorous Leafroller	1 1/2 - 3	1	10
Barley	Armyworms, carnal leaf beetle, aphids	3/4 - 1 1/2	7	10
Beans (Includes Black-eyed Peas & Cowpeas)	Leafhopper, Mexican Bean Beetle	3/4 - 3		
	Fall Armyworm, Variegated Cutworm	1 1/2		
	Beet Armyworm, Loopers, Corn Earworm, Saltmarsh Caterpillar, Yellow-striped Armyworm, Western Yellow-striped Armyworm, Lygus Bugs, Thrips, Aphids	1 1/2 - 3		
	European Corn Borer — initiate when moth flights first appear and continue preventive treatments at 3-4 day intervals to control eggs and larvae			
	Spotted Cucumber Beetle	3/4 - 1 1/2		

*Add wetting agent
**All registrations for aerial and ground use unless marked G for ground use only
***Ground and low-volume aerial

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Crops	Insects	RATES	LAST APPLICATION—DAYS	
		LANNATE® LV Pints per acre	To Harvest	To Livestock Feeding/ Feeding
Beets (Table)	Imported Cabbageworm, Beet Armyworm, Cabbage looper, Diamondback moth	1 1/2 - 3	8-Roots 14-Top	
	Cucumber Beetle, Variegated Cutworm	1 1/2		
Bermudagrass	Fall Armyworm	3/4 - 3		7 Forage 3 Dehydrated Hay
Blueberries	Blueberry Leafhopper, Aphids, Tussock Moth, Weevil, Sharp-Nosed Leafhopper	1 1/2	3	
	Cranberry Fruitworm, Cherry Fruitworm	1 1/2 - 3		
	Flea Beetle (larvae), Sawfly (larvae), Blueberry Leafroller	3		
	Blueberry Maggot	3/4 - 1 1/2		
Broccoli	Loopers, Imp Cabbageworm, Diamondback Moth	3/4 - 3	3	
Brussels Sprouts	Loopers, Imp Cabbageworm, Diamondback Moth	1 1/2 - 3	3	
	Variegated Cutworm	1 1/2		
Cabbage	Loopers, Imp Cabbageworm, Diamondback Moth	3/4 - 3	1	
	Fall Armyworm, Variegated Cutworm	1 1/2		
Carrot	Beet Armyworm	1 - 3	1	
	Aster Leafhopper	1 1/2 - 3		
	Armyworms	1 1/2		
	Variegated Cutworm	3/4 - 1 1/2		
Cauliflower	Imp Cabbageworm, Loopers, Diamondback Moth	3/4 - 3	3	
	Variegated Cutworm	1 1/2		
Celery	Beet Armyworm, Aster Leafhopper	1 1/2 - 3	7	
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 1 1/2		
Chicory	Beet Armyworm, Variegated Cutworm, Leafhoppers	1 1/2 - 3	80	
Chinese Cabbage	Loopers, Beet Armyworm	1 1/2 - 3	10	
Collards (Fresh market only— do not apply when temp. is less than 50°F. Do not apply when crop is less than 10" tall.)	Loopers, Diamondback Moth, Variegated Cutworm	1 1/2	10	
	Imported Cabbageworm, Beet Armyworm	1 1/2 - 3		

*Add mixing agent
**All registrations for aerial and ground use unless marked G for ground use only

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Crops	Insects	RATES		EAST APPLICATION - DAYS	
		Amount/Lb Fruit per acre	Amount	Harvest	to Sweetest Growth/ Feeding
Corn (Sweet) Note: Corn - Hybrid Resistant to 1st & 2nd year corn earworm. If not susceptible to corn earworm, use such as, to determine crop injury, before planting.	European Corn Borer - (as needed)	1-1 1/2			
	European Corn Borer - (as needed)	3-1 1/2		0-100	3-4 days
	European Corn Borer - (as needed)	1 1/2			
	European Corn Borer - (as needed)	2-1 1/2			
Soybean & Peas	European Corn Borer - (as needed)	1 1/2			
	European Corn Borer - (as needed)	1 1/2			
Cotton (Use many insecticides if association or alternate with other insecticides.)	Ovicide/Larvicide Nollworm, Tobacco Budworm (Initiate schedule when significant numbers of eggs are present. Continue at 5 to 7-day intervals while eggs present and larval control adequate. If significant larvae survive, use higher rates below).	2/5 - 3/4 (See instructions)			
	Larvicide for Worms Nollworm, Tobacco Budworm, Beet Armyworm, Cotton Leaf- perforator, Fall Armyworm Lygus Bugs (use as occasional spray in regular schedule but not more often than every 10 days).	1 1/2	15		Do not graze on feed.
	Nollworm, Tobacco Budworm, Fall Armyworm, Cotton Leaf- perforator, Fall Armyworm, Lygus Bugs (up to 3 appli- cations at 3-5 day intervals after desired boll load set on plants).	1 1/2 - 2 1/4			
	Ovicide/Larvicide Nollworm, Tobacco Budworm (see above)	3/4			
West of Rockies only	Larvicide for Worms Nollworm, Tobacco Budworm, Fall Armyworm (at 5-7 day intervals).	1 1/2 - 2 1/4			
	Beet Armyworm (as needed)	7/8 - 1 1/2			
	Cotton Leafperforator (as needed)	7/8 - 2 1/4			
Southwest only	Cotton Fleahopper (as needed)	2/5 - 3/4			
U.S.	Bollworm (5-7 day intervals on light to moderate infestations)	3/4			
	Cotton Leafworm (as needed)	3/4 - 1 1/2			
	Thrips (apply when cotton comes to a stand repeat treatment, if needed one week later.)	3/4			
	Aphids (Apply when insects appear in damaging numbers and repeat as needed to main- tain control)	3/4			
Beans	European Corn Borer, Beet Armyworm, Tobacco Budworm, European Corn Borer, Fall Armyworm, Cotton Leafperforator, Cotton Flea, European Fleahopper	1 1/2			
	Fall Armyworm, European Corn Borer	1 1/2			
Eggplant	European Corn Borer	1 1/2			
	European Corn Borer	1 1/2			

Not using spray
 and spraying for control and control on crop, control 6 to 10 days only

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Crops	Insects	DATES	LAST APPLICATION—DAYS	
		LANNATE® LV Pints per Acre	Harvest	To Livestock Grazing/ Feeding
Forest Woodlots, Plantations and Nurseries PV G	Spruce Budworm (treat when larvae are feeding on buds, retreat after 3-4 days if needed)	$\frac{3}{4}$ -1 $\frac{1}{2}$		
	Forest Tent Caterpillar, Western Tent Caterpillar	$\frac{1}{2}$ -3		
Corn	Beet Armyworm	1 $\frac{1}{2}$	7	
Grapefruit CA & AZ only U.S. FL only	Thrips, Fruit Tree Leafhopper, Orange Sooty Scale, Western Yellowjacket, Black Fly, Beet Armyworm	$\frac{1}{2}$ -3	1	10
	Spiraea Aphid			
	Whiteflies	3		
Grapes East of Rockies only U.S. West of Rockies only Chenopods Horse radish	Grape Berry Moth (apply pre- & post-bloom & repeat at 10-14 day intervals or as needed), Leafhoppers	$\frac{1}{2}$ -3		
	Ornithoglossus Leafhopper, Grape Leafhopper, Orange Tortrix	3		
	Saltmarsh Caterpillar	$\frac{1}{2}$ -3		
	Leafhoppers	$\frac{1}{2}$ -3		
	Climbing Cutworm (treat infestation and repeat at 7-14 day intervals as needed)	3		
	GRASS LEAF SHEETWORM, Thrips	$\frac{1}{2}$ -3		
	Aphids, Thrips	$\frac{1}{2}$	65	

Leafy Green Vegetables: Beet (Tops) Bendish Kale Mustard Greens Parsley Swiss Chard Turnip Greens	Beet Armyworm, Cabbage Looper, Diamondback Moth, Imported Cabbageworm	$\frac{1}{2}$ -3	10	
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Lemon CA & AZ only U.S. FL only	Thrips	$\frac{1}{2}$ -3		
	Beet Armyworm		1	10
	Spiraea Aphid			
Lentils	Whiteflies	3		
	Western Yellowstriped Armyworm	$\frac{1}{2}$ -3	21	
	Beet Armyworm, Looper	$\frac{3}{4}$ -3		
Lettuce (head varieties in U.S. and leaf varieties in CA and AZ)	Thrips, Aphids, Corn Earworm, Acker Leafhopper	$\frac{1}{2}$ -3		
	Variiegated Cutworm	$\frac{1}{2}$		
Melons	Loopers, Tobacco Budworm, Beet Armyworm, Yellowstriped Armyworm, Granulate Cutworm, Flea Beetles, Cucumber Beetles, Melon Aphid, Melonworm, Pickworm	$\frac{1}{2}$ -3		
	Fall Armyworm, Variiegated Cutworm	$\frac{1}{2}$ -3		
Mint	Variiegated Cutworm, Acker Looper	3		
	Flea Beetles	$\frac{2}{4}$ -3	14	
Nectarine CA & AZ only	Thrips (up to 3 applications)	$\frac{1}{2}$ -3	1	10
Oats	Armyworms, cereal leaf beetle, aphids	$\frac{3}{4}$ -1 $\frac{1}{2}$	7	10

*Apply LANNATE® LV
*Apply LANNATE® LV to ground and ground and where marked E to ground only



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- Date: 10/10/2010
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Crops	Insects	RATES	LAST APPLICATION—DAYS	
		LANNATE® LV Pints per Acre	Harvest	To Livestock Grazing/ Feeding
Strawberry	Beet Armyworm, Thrips, Aphids	1½-3	3-Fresh 10-Processing Fruit	
	Lygus Bugs, Omnivorous Leaf Tars	3		
Strawberry (dormant)	Armyworms	2½-3	90	
Sugar Beet	Beet Webworm, Flea Beetles, Corrion Beetles, Beet Armyworm, Aphids, Western Yellowstriped Armyworm —Up to 4 applications	¾-3	7	30 Tops
	Variegated Cutworm	1½		
Summer Squash	Loopers, Tobacco Budworm, Beet Armyworm, Yellowstriped Armyworm, Granulate Cutworm, Flea Beetles, Cucumber Beetles, Melon Aphid, Melonworm, Picklenorm, Fall Armyworm	1½-3	1½ pts.-1 day over 1½ pts. 3 days	
Tangelo	CA & AZ only / Thrips Western tussock moth, US / Orange tortrix	1½-3	1	10
	FL only / Beet Armyworm			
	Spirea Aphid			
	Whiteflies			
Tangerine	CA & AZ only / Thrips Western tussock moth, US / Orange tortrix	1½-3	1	10
	FL only / Beet Armyworm			
	Spirea Aphid			
	Whiteflies			
Tobacco (Except shade)	Flea Beetle, Hornworm	2½-1½	5 Five cured 14 Air or fire cured	
	Loopers, Aphids, Tobacco Budworm, Fall Armyworm	1½		
Tomato	Tomato Fruitworm, Aphids, Hornworm, Loopers, Beet Armyworm, Southern Armyworm	1½-3	1	
	Pinworm			
	Fall Armyworm, Variegated Cutworm	1½		
	Armyworm	2½-1½		
Turf grass	Sod Webworm (after application, sprinkle urigate for 15 minutes)	3-6 1.125 (8 ozs per 1000 sq ft)		Do not graze or feed
Watercress etc	Beet Armyworm, Cabbage Looper, Diamondback Moth, Imported Cabbage- worm (Use in minimum of 30 gpa of water. Water should be turned off 24 hours prior to application.)	1½-3	10	
Wheat	Armyworms, cereal leaf beetle, aphids	¾-1½	7	10

*Add wetting agent
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AGRICULTURAL BULLETIN



LANNATE® LV
INSECTICIDE
COTTON

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

SUPPLEMENTAL LABELING
EPA REG. NO. 352-384

LANNATE® LV INSECTICIDE
FOR USE ON COTTON

Du Pont Lannate® LV Insecticide is recommended for use on cotton for the control of thrips and aphids.

HOW TO USE

Use 3/4 pt. "Lannate" LV per acre in sufficient water to obtain thorough coverage:

Thrips - apply when cotton comes to a stand; repeat treatment, if needed, one week later.

Aphids - apply when insects appear in damaging numbers and repeat, as needed, to maintain control.

NOTE: Do not apply within 15 days of harvest. Do not graze or feed treated forage to livestock.

Use of "Lannate" LV may redden cotton foliage. If reddening is excessive alternate with other insecticides or discontinue use.

IMPORTANT

BEFORE USING "LANNATE" LV, READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE PRODUCT LABEL.

This bulletin contains new or supplemental instructions for use of this product which may not appear on the package label. Follow the instructions carefully.

11/5/82 (revised 1/31/83)