

## **2001 PESTICIDE GUIDELINES FOR DAIRY AND BEEF CATTLE IN NEW YORK**

Every effort has been made to provide correct, complete, and up-to-date pesticide information for New York State in this publication, which was released for printing in April 2001. Changes in pesticide registrations, regulations, and guidelines that occur after publication are regularly available in county Cornell Cooperative Extension offices and from the Pesticide Management Education Program web site, <http://www.pmep.cce.cornell.edu>. A revision of the printed document is issued annually.

**These guidelines are not a substitute for pesticide labeling. Read the label before applying any pesticide.**

### **Use Pesticides Safely**

All pesticides are regulated by state and federal laws to protect the user and consumer. Read labels carefully. Follow instructions.

Most pesticides are poisonous to humans and animals, but when properly used, they are not harmful. Handle them with care. Store them in closed, plainly labeled original containers, out of the reach of children and animals. Keep pesticides in locked storage facilities.

When handling, do not allow pesticides to come in contact with the skin. Do not apply on a windy day. Do not smoke while handling pesticides. Do not inhale dusts, sprays, or vapors. After handling pesticides, wash hands and face before eating or smoking.

**Dispose of empty containers so that children cannot play with them.**

Please refer to New York State Department of Environmental Conservation circular 865, part 325, *Rules and Regulations Relating to the Application of Pesticides*, for further information relating to the use of pesticides in New York State.

### **Pesticide Control Legislation**

In accordance with New York State legislation, pesticides that are highly toxic or that are persistent and accumulative are placed on a restricted-use list and may be sold to and used only by certified applicators. Restricted-use pesticides recommended in this publication are identified by an asterisk (\*). The list is subject to annual review; consult your Cornell Cooperative Extension agent if you have questions about the status of a pesticide.

Vapona (dichlorvos, DDVP) formulations containing 1% or less, and pest strips are exempted.

Lindane

Lysoff (fenthion) all concentrations above 5%.

Warbex (famphur)

Tempo (cyfluthrin).

Care must be exercised with the materials recommended for cattle facility treatment such as baits, space sprays, aerosols, sprays, and dusts for cattle to prevent direct or indirect contamination of feed and water. Remember that improper practices can lead to illegal residues even when correct materials are used. Read the label carefully, apply only as directed, do not overdose or treat too often and follow all precautions exactly. It is illegal to use an insecticide in any manner inconsistent with the label.

**CERTIFICATION:** Commercial applicators of pesticides as well as private applicators who use restricted-use pesticides must be certified. Certification exams and recertification credits are given throughout the state; consult your Cornell Cooperative Extension agent or regional pesticide specialist if you have questions concerning certification.

### **Pesticide Recordkeeping/Reporting for New York State**

**Manufacturers and importers.** Requires annual reports from manufacturers and importers of all sales within the state of each restricted-use pesticide product, including EPA registration number; container size; and number of containers sold to New York purchasers. Records would have to be maintained for at least three years.

**Commercial applicators.** Requires annual reports from commercial applicators of pesticide use, including EPA registration number; product name; quantity of pesticide used; date applied; and location of application by address, including 5-digit zip code. Records would be maintained for at least three years and would also include the dosage rates, methods of application and target organisms.

**Reporting at point of sale.** Requires every person who sells or offers for sale restricted-use pesticides to private applicators to report annually each sale of a restricted-use pesticide or general-use pesticide used in agricultural crop production to such applicator, including EPA registration number; product name of pesticide purchased; quantity purchased; date purchased; and location of intended application by address, including 5digit zip code, or if address is unavailable, by township and 5digit zip code.

**Recordkeeping by private applicators.** Requires private applicators to maintain, for a minimum of three years, restricted-use pesticide records, including pesticide purchased; crop treated; method and date of application.

For more information, contact the NYS Department of Environmental Conservation (518-457-3542).

### **EPA Worker Protection Standard (WPS) for Agricultural Pesticides**

The Worker Protection Standard contains requirements designed to reduce the risks of illness or injury resulting from occupational exposures to pesticide handlers and agricultural workers. Accidental exposure of agricultural workers and other persons to pesticides used in the production of agricultural plants on farms, nurseries, greenhouses, and forests are included under these regulations. They include the following:

- Restricted-entry intervals (REIs) for most pesticides
- Personal protective equipment (PPE) for handlers and early-entry workers
- Decontamination supplies and emergency assistance
- Pesticide safety training and posting
- Revised labeling that includes specific WPS instructions

For more complete information on reentry and farmworker protection standards, please contact your local Cornell Cooperative Extension office or the Pesticide Management Education Program, 5123 Comstock Hall, Cornell University, Ithaca, NY 14853, 607-255-1866, web site: <http://pmep.cce.cornell.edu>.

### **FIFRA 2(ee) Recommendations**

Certain limited variations from the use directions specified on pesticide labels are authorized under FIFRA Section 2(ee). These "2(ee) recommendations" allow

1. Use at any dosage, concentration, or frequency less than specified on the labeling.
2. Use against any target pest not specified on the labeling.
3. Methods of application not prohibited on the labeling.
4. Mixtures with fertilizer, unless prohibited on the labeling.

In New York State, all 2(ee) recommendations must be approved in writing by the New York State Department of Environmental Conservation with the exception of those pesticides applied for agricultural purposes at less than label rate and mixtures with fertilizer (item 4 above).

No fee is required for a request for a 2(ee) recommendation.

Requirements:

1. Anyone receiving approval of a 2(ee) recommendation is responsible for distributing the recommendation to **all users of the product pursuant to the approved recommendation.**

2. Any user must have the 2(ee) recommendation in his or her possession at the time of application, e.g., "Cornell Guidelines."

Information required for submission of 2(ee) recommendations:

1. Requests for approval of 2(ee) recommendations must be made in writing by recognized research institutions, certified crop advisers, manufacturers (registrants), or organizations representing individual users. Individual users may **not** request approval of 2(ee) recommendations.

2. Requests must be accompanied by data demonstrating that the use will be effective.

Trade names used herein are for convenience only. No endorsement of products is intended, nor is criticism of unnamed products implied.

**Table 1. Control of flies in and around livestock barns (house and stable flies).<sup>1</sup>**

Method of Application	Active Ingredient	Examples of Trade Names <sup>2,3</sup>
Space spray	synergized pyrethrins synergized pyrethrins + permethrin synergized permethrin *synergized pyrethrins + dichlorvos	Several formulations Several formulations Several formulations Py-Vona Stock Fly Spray (1386-418) Several formulations
Residual premise	permethrin  *synergized pyrethrins + dichlorvos synergized resmethrin (remove animals from building) *cyfluthrin (remove animals from building) chlorpyrifos (remove animals from building) naled dimethoate (remove animals from building)	Atroban 42.5% (773-60) #Ectiban EC (59-214-12281) Several formulations. Py-Vona Stock Fly Spray (1386-418) Syn-Tech 2.5+10% Insecticide (59906-4)  Countdown EC (11556-112) Several formulations MEC chlorpyrifos livestock premise spray concentrate (10350-22) #Dibrom 8 (59639-15) Cygon. Several formulations
Animal treatment	permethrin	Atroban 42.5% (773-60) #Ectiban EC (59-214-12281) Several formulations
Bait	methomyl	Blue Streak (270-255), Golden Malrin (2724-274), Musca-Cide fly bait (270-255)
Larvicide (Manure treatment)	tetrachlorvinphos	Rabon. Several formulations
Larvicide (Feed additive)	tetrachlorvinphos methoprene	Rabon. Several formulations Altosid Cattle Custom Blending Premix(2724-473)

<sup>1</sup> Read and follow product labels carefully for target pest information, compatibility of treatment with other animal management practices, and for precautions to avoid contamination of feed and water.

<sup>2</sup> Trade names are cited for convenience only. No endorsement by Cornell Cooperative Extension is implied, nor is discrimination of similar products that are not cited.

<sup>3</sup> Number within parentheses is the EPA Registration Number.

\* Restricted use pesticide; may be purchased and used only by certified applicators.

# Registered - Discontinued status: pesticides that have a 'registered - discontinued' status can still be sold, distributed, and used in NYS until they are 'suspended' and/or 'canceled'. The 'registered - discontinued' status allows a registrant/distributor a chance to get the product out of the channel of trade and off the shelves in a reasonable amount of time. It also allows the end-user to continue to use the product legally.

**Table 2. Control of flies on pastured cattle.<sup>1</sup>**

Method of Application	Active Ingredient	Examples of Trade Names <sup>2,3</sup>
<b>FOR USE ON LACTATING DAIRY CATTLE (ALSO BEEF AND NON-LACTATING DAIRY CATTLE)</b>		
Ear tag	permethrin fenvalerate	Several formulations Super Deckem (Several formulations)
	synergized cypermethrin synergized chlorpyrifos + cypermethrin cyfluthrin	Python (39039-4) Max-Con (39039-2)  Cutter Gold (11556-106) Several formulations
Dust	permethrin tetrachlorvinphos	Several formulations Rabon (Several formulations)
Oil solution in backrubber	permethrin	Several formulations
Animal spray	permethrin	Atroban 42.5% (773-60) #Ectiban EC (59-214-12281) Several formulations
	*synergized pyrethrins + dichlorvos coumaphos (horn fly) naled tetrachlorvinphos	Py-Vona Stock Fly Spray (1386-418)  #Co-Ral 25% WP (11556-21) #Dibrom 8 (59639-15) Rabon (Several formulations)
Pour-on	permethrin synergized permethrin	Several formulations Ultra Boss (773-84), DeLice (773-72) Several formulations
	cyfluthrin eprinomectin	Several formulations Eprinex (Registered by FDA)
Feed additive (larvicide)	tetrachlorvinphos	Rabon (Several formulations)
	methoprene	Altosid Cattle Custom Blending Premix (2724-473)

Cont.

**Table 2. Control of flies on pastured cattle. (Cont'd.)**

Method of Application	Active Ingredient	Examples of Trade Names <sup>2,3</sup>
<b>FOR USE ON BEEF AND DAIRY YOUNG STOCK</b>		
Ear tag	synergized cyhalothrin cyhalothrin + pirimiphos-methyl diazinon  diazinon + chlorpyrifos	Saber Extra (773-75) Double Barrel VP (773-81) X-Terminator (4691-142) Optimizer (39039-3) Warrior (39039-6) Diaphos (39039-6)
Dust	malathion	#High Yield 5% Malathion Dust (7401-267)
Oil solution in backrubber	phosmet	Del-Phos (773-76) Several formulations
Animal spray	methoxychlor	Several formulations
Pour-on	*fenthion  lamda cyhalothrin	Lysoff (11556-48) Several formulations Saber (773-74) Several formulations
Larvicide Pour-on	ivermectin	Dectomax, Ivomec (Registered by FDA)
Injectable (larvicide)	ivermectin	Ivomec, Dectomax (Registered by FDA)

<sup>1</sup> Read and follow product labels carefully for target pest information, compatibility of treatment with other animal management practices, and for precautions to avoid contamination of feed and water.

<sup>2</sup> Trade names are cited for convenience only. No endorsement by Cornell Cooperative Extension is implied, nor is discrimination of similar products that are not cited.

<sup>3</sup> Number within parentheses is the EPA Registration Number.

\* Restricted use pesticide; may be purchased and used only by certified applicators.

# Registered - Discontinued status: pesticides that have a 'registered - discontinued' status can still be sold, distributed, and used in NYS until they are 'suspended' and/or 'canceled'. The 'registered - discontinued' status allows a registrant/distributor a chance to get the product out of the channel of trade and off the shelves in a reasonable amount of time. It also allows the end-user to continue to use the product legally.

**Table 3. Control of cattle grubs on beef and dairy cattle.<sup>1</sup>**

Method of Application	Active Ingredient	Examples of Trade Names <sup>2,3</sup>
<b>FOR USE ON LACTATING DAIRY CATTLE (ALSO BEEF AND NON-LACTATING DAIRY CATTLE)</b>		
Pour-On	moxidectin eprinomectin	Cydectin (Registered by FDA) Eprinex (Registered by FDA)
<b>FOR USE ON BEEF AND DAIRY YOUNG STOCK</b>		
Animal spray	coumaphos	#Co-Ral 25WP (11556-21)
Bolus	ivermectin	Ivomec Sustained-Release Bolus
Pour-on	avermectin coumaphos * famphur	Ivomec, Dectomax (Registered by FDA) Co-Ral (11556-21) Warbex (Registered by FDA)
Injectable	avermectin	Ivomec, Dectomax (Registered by FDA)

<sup>1</sup> Read and follow product labels carefully for target pest information, compatibility of treatment with other animal management practices, and for precautions to avoid contamination of feed and water.

<sup>2</sup> Trade names are cited for convenience only. No endorsement by Cornell Cooperative Extension is implied, nor is discrimination of similar products that are not cited.

<sup>3</sup> Number within parentheses is the EPA Registration Number.

\* Restricted use pesticide; may be purchased and used only by certified applicators.

# Registered - Discontinued status: pesticides that have a 'registered - discontinued' status can still be sold, distributed, and used in NYS until they are 'suspended' and/or 'canceled'. The 'registered - discontinued' status allows a registrant/distributor a chance to get the product out of the channel of trade and off the shelves in a reasonable amount of time. It also allows the end-user to continue to use the product legally.

**Table 4. Control of mites and lice on cattle.<sup>1</sup>**

Method of Application	Active Ingredient	Examples of Trade Names <sup>2,3</sup>
<b>FOR USE ON LACTATING DAIRY CATTLE (ALSO BEEF AND NON-LACTATING DAIRY CATTLE)</b>		
Dust	coumaphos permethrin (lice only) tetrachlorvinphos (lice only) cyfluthrin (lice only)	#Co-Ral (Several formulations) Several formulations Rabon (Several formulations) Several formulations
Animal spray	permethrin (lice only)  synergized pyrethrins coumaphos tetrachlorvinphos (lice only) amitraz (lice only)	Atroban 42.5% (773-60) #Ectiban EC (59-214) Several formulations Several formulations #Co-Ral 25% WP (11556-21) Rabon (Several formulations) Tactic (54382-3)
Pour-on	permethrin (lice only)  synergized permethrin (lice only) cyfluthrin (lice only) moxidectin eprinomectin	Boss (773-82) DeLice (773-66) (Several formulations) Ultra Boss (773-84), DeLice (773-72) Several formulations Several formulations Cydectin (Registered by FDA) Eprinex (Registered by FDA)
<b>FOR USE ON BEEF AND DAIRY YOUNG STOCK</b>		
Dust	malathion (lice only)	#High Yield 5% Malathion Dust (7401-267)
Animal spray	phosmet  malathion (lice only) methoxychlor (lice only)	Del-Phos, (773-76) Prolate, (2724-262) Several formulations Several formulations Several formulations
Bolus	ivermectin	Ivomec Sustained-Release Bolus (Registered by FDA)
Pour-on	* fenthion (lice only) avermectin * famphur (2 applications) lamda cyhalothrin (lice only) * lindane (lice only)	Lysoff (11556-48), (Several formulations) Ivomec, Dectomax (Registered by FDA) Warbex (Registered by FDA) Saber (773-74) (Several formulations) #Lindane 20 EC (8660-52)
Injectable	avermectin	Ivomec, Dectomax. (Registered by FDA)

Cont.

<sup>1</sup> Read and follow product labels carefully for target pest information, compatibility of treatment with other animal management practices, and for precautions to avoid contamination of feed and water.

<sup>2</sup> Trade names are cited for convenience only. No endorsement by Cornell Cooperative Extension is implied, nor is discrimination of similar products that are not cited.

<sup>3</sup> Number within parentheses is the EPA Registration Number.

\* Restricted use pesticide; may be purchased and used only by certified applicators.

# Registered - Discontinued status: pesticides that have a 'registered - discontinued' status can still be sold, distributed, and used in NYS until they are 'suspended' and/or 'canceled'. The 'registered - discontinued' status allows a registrant/distributor a chance to get the product out of the channel of trade and off the shelves in a reasonable amount of time. It also allows the end-user to continue to use the product legally.