



Vet Gun for Horn Fly Control- Result Demo

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Disclaimer



- ▶ Prairie View A&M University - Cooperative Extension Program is using the VetGun as a research tool and is not endorsing the use of this piece of equipment.
 - ▶ Ensure you know alternative options for horn fly control on your operation
- ▶ Information provided is based on:
 - ▶ The manufacturers recommended use
 - ▶ Information gathered from Agents and producers who have used the VetGun for horn fly control in association with our research.
 - ▶ Published Research



Why do we need to control horn flies?

- ▶ Horn fly management and control is one of the biggest challenges facing the cattle industry.
 - ▶ Horn flies cost the US cattle industry nearly \$1 billion per year.
 - ▶ Horn flies interrupt cattle from grazing; create stress and cause up to one pint blood loss per day and up to 30% less weight gain in 80 days
 - ▶ adults flies consume between 30 – 40 blood meals per day each
 - ▶ Resistance and inadequate control efficacy of ear tags has been documented leading many producers to look for alternative control options
 - ▶ Parasites can build up resistance to chemical treatments, especially if the same chemical class or active ingredient is used continuously.
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Why use the VetGun

▶ Manufacturer Claims:

▶ VetGun™

- ▶ Provides precise dosing
- ▶ Remote treatment in the field with a simple pull of a trigger
- ▶ Apply a proven topical insecticide for effective control of horn flies
- ▶ Treat from a safe distance of 15 to 30 feet
- ▶ no confining
- ▶ no handling
- ▶ no stress

▶ Withdrawal Time:

- ▶ There is no withdrawal period for AiM-L VetCaps
- ▶ There is a 42 day withdrawal period for AiM-A Abamectin VetCaps.

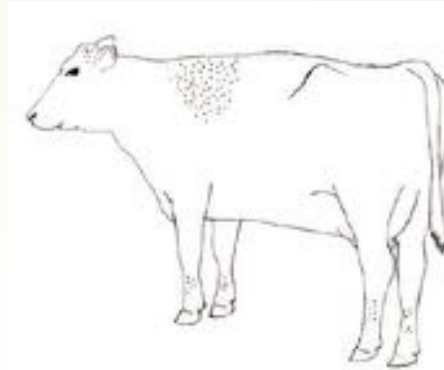


Figure 4b. Illustration of a cow with 100 horn flies.

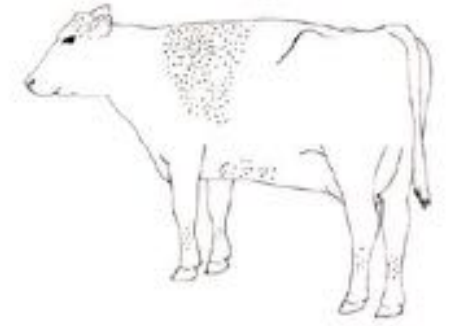
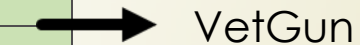


Figure 4c. Illustration of a cow with 200 horn flies.

HORN FLY TREATMENT PRODUCTS by CHEMICAL CLASS*

CHEMICAL CLASS	METHOD	PRODUCT	ACTIVE INGREDIENT
PYRETHROID	VetGun	AiM-L VetCaps	Lambda Cyhalothrin, piperonyl butoxide
	Pour-On	Atroban® 1% DeLice Brute® Pour-On Clean-Up™ (with IGR) CyLence® Durasect® II Ectiban® Delice 1% Fly-Ban Permethrin™ CDS Saber™ StandGuard® Synergized DeLice®	Permethrin, piperonyl butoxide Permethrin Permethrin, diflubenzuron Cyfluthrin Permethrin, piperonyl butoxide, pyrethrin Permethrin, piperonyl butoxide Permethrin Permethrin, piperonyl butoxide Lambda-cyhalothrin Gamma-cyhalothrin Permethrin, piperonyl butoxide
	Spray	Annihilator™ Premise Annihilator™ Polyzone® Atroban® 11% EC Bifen I/T Buzz Off™ Catron® IV Exile® CS Gardstar® 40% EC Grenade® ER Optimate® CS Permacap® CS	Deltamethrin Deltamethrin Permethrin Bifenthrin Permethrin, piperonyl butoxide Permethrin Lambda-cyhalothrin Permethrin Lambda-cyhalothrin Gamma-cyhalothrin Permethrin
	Ear Tags	CyLence Guard® CyLence Ultra® Double Barrel® VP Gardstar® Plus PYthon® Saber™	Beta-cyfluthrin Beta-cyfluthrin, piperonyl butoxide Lambda-cyhalothrin, pirimiphos-methyl Permethrin Piperonyl butoxide, zeta-cypermethrin Lambda-cyhalothrin, piperonyl butoxide
	Dusts	Permethrin™ Fly & Louse PYthon® Tempo® 1%	Permethrin Piperonyl butoxide, zeta-cypermethrin Cyfluthrin
MACROCYCLIC LACTONE	Pour On	Eprinex® Ivomec® Cydectin®	Eprinomectin Ivermectin Moxidectin
	Spray	Elector® PSP	Spinosad
	Ear Tags	XP820™	Abamectin, piperonyl butoxide
ORGANO-PHOSPHATE	Spray	Co-Ral® Fly & Tick Durashield® Starbar® Prolate/Lintox - HD™ Pyrophos Rabon™ 50 WP Ravap™ EC	Coumaphos Chlorpyrifos Phosmet Chlorpyrifos Tetrachlorvinphos Tetrachlorvinphos, dichlorvos Dichlorvos
	Ear Tags	Corathon® Dominator® Patriot™ Terminator™ II	Coumaphos, diazinon Pirimiphos-methyl Diazinon Diazinon
	Dusts	Beetle Shield™ 6 Coumaphos Livestock	Tetrachlorvinphos Coumaphos
	Larvicide	Rabon™ Oral	Tetrachlorvinphos

*Note: Table is for reference examples only and not intended to be indicative of all products available at time of composition. The brand names cited are proprietary to the animal health companies that market and/or own these products. Inclusion or exclusion of products do not imply endorsement of or discrimination against similar products not listed. Produced by SmartVet V1.2-Mar2015



VetGun
AiM-A
VetCaps
Abamectin

Treatments



- ▶ AiM-L (active ingredient: Lambda Cyhalothrin) is in the synthetic pyrethroid chemical class.
- ▶ AiM-A (active ingredient: Abamectin) is in the macrocyclic lactone chemical class.
 - ▶ Currently no Organo-Phosphate class capsule available
- ▶ AiM-L and AiM-A Abamectin are EPA labeled to only treat **beef cattle** of all ages provided they are greater than 600lbs.
 - ▶ AiM-A Abamectin is also labeled for non-lactating dairy cattle.
 - ▶ Calves can get residual effect from contact

Different Methods

- ▶ Spot Treatment in the field
- ▶ Herd Treatment at feeding
- ▶ In chute
- ▶ Whatever works for you!!



A decorative graphic on the left side of the slide. It features a solid orange arrow pointing to the right, positioned horizontally. Behind the arrow and extending upwards and to the right are several thin, curved lines in shades of green and grey, creating a sense of movement or growth.

Sample Application Methods



Application at Feeding



A decorative graphic on the left side of the slide. It features a solid orange arrow pointing to the right, positioned horizontally. Behind the arrow and extending upwards and to the right are several thin, curved green lines that resemble stylized grass or reeds. The background is a light beige color with a subtle gradient.

Chute Application





Producer Opinions

Pros

- ▶ Easy to use
- ▶ Great for spot treatments
- ▶ Saved time
- ▶ Long lasting fly control
- ▶ Low stress to animals
- ▶ Low stress to applicator
- ▶ 1-person job


Cons

- ▶ Human Error (Poor aim)
- ▶ CO₂ Cartridge leaks
- ▶ Rain seemed to affect efficacy
- ▶ Not ideal for my operation.
 - ▶ Easier to treat when they are brought up

Agent Ronnie Zamora Opinions about Vet Gun Use.



Summary

- ▶ VetGun can be another tool to use to control Horn fly populations in your herd.
 - ▶ Rotate classes of insecticides, not brands.
 - ▶ This can be an effective tool if used properly.
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THANK YOU FOR YOUR TIME!

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