








Insecticide Impregnated Ear Tags for Cattle

One of the most important and prevalent insects affecting the beef cattle industry are horn flies, *Haematobia irritans*. These small but persistent blood sucking insects bite the cattle 30 – 40 times a day in order to acquire a blood meal. Both male and female horn flies feed on blood and never leave

the backs of cattle except when depositing egg batches into fresh manure. An effective means of managing horn fly densities consists of utilizing insecticide impregnated ear tags. Currently there are fourteen different ear tag products on the market.

Organophosphates	Patriot™ 	Contains 40% diazinon as the active ingredient. Labeled to control horn flies for up to 5 month with 2 tags / animal. Also controls ear ticks and aids in the control of face flies, lice, stable flies and house flies. Can use 1 or 2 tags / animal; greater control achieved with 2 tags / animal. A product of KMG.
	Terminator II 	Contains 20% diazinon as the active ingredient. Labeled to control horn flies for up to 5 months with 2 tags / animal. Also controls Gulf Coast & spinose ear ticks and aids in the control of face flies, lice, stable flies and house flies. Can use 1 or 2 tags / animal; greater control achieved with 2 tags / animal. Effective on pyrethroid resistance horn flies. A product of KMG.
	Warrior 	Contains 30% diazinon as the active ingredient for killing flies and 10% chlorpyrifos for lice and tick control. Provides greater potency with the two chemicals then when administered alone. Labeled to control horn flies for up to 5 months with 2 tags / animal. Aids in the control of face flies, stable flies and house flies. Can use 1 or 2 tags / animal; 3-4 months control and up to 5 months control, respectively. No withdrawal time required. A product of Y-Tex.
	Optimizer 	Contains 21% diazinon as the active ingredient. Labeled to control horn flies for up to 5 months with 2 tags / animal. Also controls lice, Gulf Coast ticks & spinose ear ticks and aids in the control of face flies. Use 2 tags / animal. Use during the winter to control for lice. No withdrawal time required. A product of Y-Tex.
	Dominator® 	Contains the exclusive OP chemistry, 20% pirimophos as the active ingredient. Labeled to control horn flies for up to 5 months with 2 tags / animal. Aids in the control of face fly. Can use on calves. A product of Intervet Schering-Plough.
	X-Terminator 	Contains 20% diazinon as the active ingredient. Labeled to control horn flies for up to 4 months with 2 tags / animal. Also controls Gulf Coast & spinose ear ticks and aids in the control of face flies, lice, stable flies and house flies. Contains coated studs with Infecta-Guard to prevent from infection. A product of Fearing.
	Pyrethroids	PYthon 

	<p>PYthon Magnum</p> 	<p>Contains 10% zeta-cypermethrin as the active ingredient and 20% synergist. Labeled to control horn flies for 3-5 months with 1 tag / animal. Also controls biting lice and aids in the control of face flies, stable flies, houses flies and sucking lice. Only 1 tag / animal. Larger size than PYthon and greater effectiveness. Can be used on calves > 3 months of age. No withdrawal time required. A product of Y-Tex.</p>
	<p>Gardstar® Plus</p> 	<p>Contains 10% permethrin as the active ingredient. Labeled to control horn flies. Also controls face flies, Gulf Coast & spinose ear ticks and aids in the control of lice, stable flies and house flies. Controls pyrethroid-susceptible ectoparasites. Approved for use on baby calves. Reduces spraying and has no required withdrawal time. A product of Y-Tex.</p>
	<p>CyLence Ultra®</p> 	<p>Contains 8% beta-cyfluthrin as the active ingredient and 20% synergist. Labeled to control horn flies for up to 5 months with 1 tag / animal. Also controls face flies, Gulf Coast and spinose ear ticks. Can use 1 or 2 tags / animal; 2 tags are needed to get efficient control of face flies, Gulf Coast and spinose ear ticks. A product of Bayer.</p>
	<p>Saber™ Extra</p> 	<p>Contains 10% lambda-cyhalothrin as the active ingredient and 13% synergist. Labeled to control horn flies for up to 5 months with 2 tags / animal. Also controls face flies. Can be used on all ages of cattle (even 1 day old). A product of Intervet Schering-Plough.</p>
	<p>Super Deckem</p> 	<p>Contains 8% fenvalerate as the active ingredient. Labeled to control horn flies for up to 5 months with 2 tags / animal. Also controls face flies and Gulf Coast ticks. Aids in the control of lice, stable flies and house flies. Can be used on beef cattle and calves > 3 months of age. A product of Fearing.</p>
<p>Organochlorine</p> <p>NEW</p>	<p>Avenger™</p> 	<p>Contains 30% endosulfan as the active ingredient. This is a new chemistry class and mode of action insecticide for animal health use. Labeled to control horn flies for up to 5 months. Effective on pyrethroid-resistant horn flies and no resistance or cross-resistance thus far. Does not affect milk production. A product of KMG.</p>
<p>Macrocyclic Lactone</p> <p>NEW</p>	<p>XP 820™</p> 	<p>Contains 8% abamectin as the active ingredient and 20% synergist. First every abamectin ear tag, patent pending. Labeled for horn fly control for up to 5 months with 2 tags / animal. Also controls Gulf Coast & spinose ear ticks and aids in the control of face flies, American dog ticks, cattle fever ticks and Lone star ticks. Can use 1 tag / animal for 3 months control of horn flies. With 2 tags / animals get up to 5 months control of horn flies, 4 months control of Gulf Coast & Spinose ear ticks; 3 months control of American dog ticks, 2 months control of cattle fever & Lone star ticks and a reduction in face fly numbers. A product of Y-Tex.</p>

Ear Tag Guidelines

- ❖ Tag after 100 horn flies
- ❖ Wait until March to tag; more effective
- ❖ Remove at recommended time
- ❖ Rotate classes of insecticides each year
- ❖ Don't use combination tags-Double Barrel™ VP
- ❖ Mid-season treatment recommended