

Quick Reference Chart: Methods and Products for Controlling Horn and Face Flies on Beef Cattle

Method	Timing	Active Ingredient	Trade Name	Duration	Directions
Insecticide Impregnated Ear tag or Ear strip (attaches to button side of ID tag– two formulations only) Effective against ear ticks and will reduce face fly numbers.	Apply when population is 200 horn flies or 10 face flies per animal. Best if application can be delayed until June 1.	<u>Organophosphate</u> Coumaphos & diazinon Diazinon Pirimiphos-methyl <u>Pyrethroid</u> Permethrin Beta-cyfluthrin & PBO Lambda-cyhalothrin & PBO Zeta-cypermethrin & PBO <u>Macrocyclic lactone</u> Abamectin & PBO <u>Combination</u> Zetacypermethrin, abamectin & PBO	Corathon Optimizer, Patriot, MAX 40 Dominator GardStar Plus Cylence Ulltra Saber Extra Python, Python Magnum XP 820 Tri-Zap	12-16 weeks, some product labels claim up to 20 weeks control If tags fail to provide control for less than 12 weeks, insecticide resistance may be an issue. Some insecticide ear tags also contain piperonyl butoxide, a synergist.	For optimal control use 2 tags per animal. Remove tags at end of fly season or when tags are no longer controlling the flies. Rotate insecticide class from year to year.
Backrubber Effective against face flies when Face Flyps are used.	Apply when population is 200 horn flies or 10 face flies per animal.	<u>Organophosphate</u> Coumaphos Tetrachlorvinphos & diclorvos Phosmet <u>Pyrethroid</u> Permethrin	Co-Ral Tick and Fly Spray Ravap EC Prolate/Lintox HD Permethrin II and others	Normally used throughout the fly season or to control populations when other methods fail. Recharge as necessary.	Forced use is more effective. Mix with mineral or fuel oil.
Dust Bag Some formulations will kill face flies when hung appropriately.	Apply when population is 200 horn flies or 10 face flies per animal.	<u>Organophosphate</u> Coumaphos Tetrachlorvinphos <u>Pyrethroid</u> Permethrin Zeta-cypermethrin	Co-Ral dust Rabon dust Permethrin dust and others Python dust	Normally used throughout the fly season or to control populations when other methods fail. Recharge as necessary.	Forced use is more effective. Best when used in pairs.
Spray Aids in control of face flies.	Apply when population is 200 horn flies or 10 face flies per animal.	<u>Organophosphate</u> Coumaphos Tetrachlorvinphos & diclorvos Tetrachlorvinphos Phosmet <u>Pyrethroid</u> Permethrin	Co-Ral Tick and Fly Spray Ravap EC Rabon Prolate/Lintox HD Permethrin II and others	Usually provides 2-4 weeks control, depending upon horn fly abundance. Reapply when horn flies return to 200/animal	For high volume spray, apply to point of runoff. Low pressure, low volume spray may require frequent re-application.
Pour-on Formulations that allow face application will control face flies.	Apply when population is 200 horn flies or 10 face flies per animal.	<u>Pyrethroid</u> Permethrin & PBO Cyfluthrin Lambda-cyhalothrin & PBO Gamma-cyhalothrin	Permethrin CDS, others Cylence Ultra Saber, Cyonara Plus StandGuard	Usually effective from 2 -4 weeks. Reapply when horn flies return to 150-200/animal.	Ready to use. Pour along backline. Some formulations allow application to face.
Oral Larvicides & Bolus Will also control face fly larvae in manure.	Begin when horn flies first appear or 2 weeks before first appearance - Mid-March-April.	<u>Insect Growth Regulators</u> Methoprene Diflubenzuron <u>Larvicides</u> Tetrachlorvinphos	Altosid, Altosid IGR XRB & others ClariFly or JustiFLY Rabon Oral Larvicide	Continue feeding throughout fly season to reduce overwintering population. Altosid IGR XRB is an extended-release bolus. Controls horn fly larvae for up to 6.5 months. Administer ½ bolus for a 300-65 lb BW animal; for 660-1400 lb BW animals, administer 1 bolus.	Animals must consume specified amount. Less effective if untreated herd is nearby.

For additional information contact your local Cooperative Extension Service agent. Prepared by Kelly Loftin, Professor/Extension Entomologist, University of Arkansas System Division of Agriculture, Research and Extension.

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