

## Horse External Parasites

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Research conducted in Virginia indicates that petroleum jelly applied in the ears of horses will provide up to 4 days protection from black flies.

**Table 2.30 - Oral**

<b>Pests</b>	<b>Insecticide Active Ingredient [Percent A.I. in Product] (Trade Name)</b>	<b>Mixing and Application Information</b>	<b>Precautions</b>
bots	Ivermectin [1.87%]	Administer paste with single oral syringe at the dose rate of 91 mcg/lb. Each weight marking on the plunger delivers enough paste to treat 250 lb.	Refrain from smoking or eating when handling. Avoid contact with the eyes. Wash hands thoroughly after administration. Do not contaminate ground water. Swelling and itching reactions sometimes occur with severe infections. Consult a veterinarian if condition does not improve.
	Ivermectin [10 mg]	For liquid, 10 mg will treat a 1,100 lb horse. Read label for step-by-step instructions.	

**Table 2.31 - Sprays and Wipe-ons**

<b>Pests</b>	<b>Insecticide Active Ingredient [Percent A.I. in Product] (Trade Name)</b>	<b>Mixing and Application Information</b>	<b>Precautions</b>
horn flies, lice, screwworms, ticks	Coumaphos [25%]	For horn flies and lice, mix 2 lb product in 100 gal water. To control ticks mix 4.0 lbs product in 100 gal water. To control screwworms mix 8.0 lbs product in 100 gal water.	Check label for precautions. Do not contaminate feed or water.
face flies, horn flies, house flies, stable flies	Fenvalerate [10%]	Mix 1.0 qt product in 25.0 gal water. Apply 8.0 oz as light spray with attention to head and legs. Repeat as necessary.	Do not treat animals intended for slaughter.
deer flies, horn flies, house flies, horse flies, mosquitoes	Tetrachlorvinphos [1%] + Pyrethrins [0.09%] + Piperonyl Butoxide [0.18%] + Repellent [0.8%]	No mixing is necessary. Available in ready-to-use form. Apply 1.0-2.0 oz/ animal as a wipe-on or spray to evenly cover the flanks, belly, and back of the horse or pony.	Do not allow product to come in contact with eyes. More frequent applications may be necessary if the legs are exposed to high grass and water. Do not treat slaughter animals. Repeat as necessary on perspiring animals.
face flies, house flies	Tetrachlorvinphos [1%] + Pyrethrins [0.09%] + Piperonyl Butoxide [0.18%] + Repellent [0.8%]	Apply 1.0-2.0 oz/animal as a wipe-on preferably to the head area. Pay particular attention to area around the nostrils and eyes.	Do not allow product to come in contact with eyes. Do not treat slaughter animals. Repeat as necessary on perspiring animals.

**Table 2.31 - Sprays and Wipe-ons (cont.)**

<b>Pests</b>	<b>Insecticide Active Ingredient [Percent A.I. in Product] (Trade Name)</b>	<b>Mixing and Application Information</b>	<b>Precautions</b>
stable flies	Tetrachlorvinphos [1%] + Pyrethrins [0.09%] + Piperonyl Butoxide [0.18%] + Repellent [0.8%]	Apply 1.0-2.0 oz/animal as a wipe-on or spray to the legs and flanks, leaving no unprotected area. More frequent application may be necessary if the legs are exposed to high grass or water. Repeat as necessary on perspiring animals.	Do not allow product to come in contact with eyes.
biting gnats	Tetrachlorvinphos [1%] + Pyrethrins [0.09%] + Piperonyl Butoxide [0.18%] + Repellent [0.8%]	Apply 1.0-2.0 oz/animal as a wipe-on preferably to the head, neck, belly, and forelegs. Be sure to apply to the inside surfaces of the ears.	Check label for details. Do not allow product to come in contact with eyes. Repeat as necessary on perspiring animals.
horse flies, house flies, stable flies, face flies, horn flies, deer flies, gnats, mosquitoes, lice, deer ticks	Cypermethrin [0.15%] + Pyrethrins [0.2%] + Piperonyl Butoxide [1.6%] + Butoxypoly-propylene glycol [5%]	Shake well before using. Shampoo and rinse dirty horses thoroughly. Wait until coat is dry before applying. For horse's face, always apply as a wipe. Use clean, absorbent cloth, towel or sponge. Spray or wipe entire body while brushing against the lay of the coat. Apply liberally. Reapply every 5-7 days initially, then every 10-14 days, and reapply each time animal is washed or exposed to heavy rain.	Wear rubber gloves or mittens when applying as a wipe. Avoid getting spray in horses eyes, nose or mouth.
lice, stable flies, horn flies, face flies, deer flies, eye gnats, ticks	Permethrin [7.4%] + Piperonyl Butoxide [7.4%]	Can be applied topically to horses and their premises. Check label for specific application instructions	Check label for precautions.

**Table 2.32 - Hand Dusting**

<b>Pests</b>	<b>Insecticide Active Ingredient [Percent A.I. in Product] (Trade Name)</b>	<b>Mixing and Application Information</b>	<b>Precautions</b>
horn flies, lice, ticks	Zeta-Cypermethrin [0.075%] + Piperonyl Butoxide [0.15%]	Check label for specific application instructions.	
horn flies, lice	Permethrin [0.25%] (horse lice duster)	Ready to use. Apply 2.0 oz dust per animal to the head, neck, shoulders, and back and tailhead.	Avoid getting dust in the animal's eyes. Wear face mask respirator when applying dust formulations.