

Horses

stomach worms controlled

C. E. Howell

Internal parasites—such as stomach worms—in horses can be controlled with phenothiazine administered in repeated small dosages in a routine seasonal treatment program.

This control method does not require preliminary starvation of the animal and the phenothiazine powder can be given mixed in the grain ration.

Effective control of the parasites is an essential part of good management as it increases the disease resistance of the horse by lessening the worm infestation.

The treatment worked out at the University is suggested as a means of preventing a heavy worm infestation.

It is recommended that foals be wormed at weaning—and again when they are 11 to 14 months old—with small, repeated doses of phenothiazine.

Horses one to four years of age should be treated in July, December, and April. Horses five to 10 years of age should be treated twice a year—in July and January. Over 10 years of age, treatment once a year, preferably in July or August, is needed.

The dose of phenothiazine for an average mature horse weighing between 1,000 and 1,200 pounds is 25 to 30 grams—or about one ounce.

Small repeated doses of from one to five grams daily until the therapeutic dose has been given have proved a very desirable way of administering the anthelmintic—worm expeller.

Environmental conditions vary widely over the state and the times recommended for treatments are given only as a guide. Early or late rains or seasonal variations may vary the calendar schedule. Where horses are kept on irrigated pastures it may be necessary to give more frequent treatment.

Practically all horses are affected with internal parasites as they are continuously being exposed to infection.

When horses show clinical symptoms of the presence of the internal parasites they should be treated.

Some of the more common symptoms are: loss of flesh even on adequate rations, diarrhea, dull harsh coat of hair, and even anemia and emaciation. On close observation worms can be seen being passed in the manure. Under such conditions the treatment for parasites should start immediately. Although a routine schedule of treatment is most effective, this treatment can be started at any time of year.

C. E. Howell is Associate in Animal Husbandry and Animal Husbandman in the Experiment Station, Davis.

COLD DAMAGE

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lated as compared with a twenty-year average of 1,001 and a 1948 record of 918. In 1941 only 630 hours had accumulated at the same date.

On February 1, it appeared that if northern California experienced, during the balance of the season, its usual temperature accompanied by the beneficial foggy days which keep the thermometer in the low forties, the rest will be completely broken and there will be an unusually even bloom of all kinds of deciduous fruits and nuts. In other words, this cold winter has had a beneficial effect on the prospects for a full 1949 crop provided unseasonable warm days do not bring these trees into bloom before danger of spring frosts is past.

Warren P. Tufts is Professor of Pomology and Pomologist in the Experiment Station, Davis.

NEW PUBLICATIONS

A copy of the publications listed here may be obtained without charge from the local office of the Farm Advisor or by addressing a request to Publications Office, College of Agriculture, University of California, Berkeley 4, California.

CHEMICAL WEED-CONTROL EQUIPMENT, 1948, by Norman B. Akesson and W. A. Harvey, Cir. 389, December, 1948.

A SEPTIC TANK FOR FARM HOMES, 1949, by H. L. Belton and J. P. Fairbank, Cir. 82, Revised January, 1949.

BARN MOW HAYDRYING FOR CALIFORNIA, 1949, by John R. Dobie, Cir. 149, March, 1949.

DONATIONS FOR AGRICULTURAL RESEARCH

Gifts to the University of California for research by the College of Agriculture accepted in January, 1949

BERKELEY

American Potash Institute, Inc., Pacific Coast Office	.....	\$1,200.00
For investigations of California soils in respect to their power to supply sufficient potash. (First payment on grant of \$4,500 for 1949)		
Julius Hyman & Company	.....	25 lbs. of 2½% compound 118 118 dust batch W-4
Klauss-White	.....	1 gal. compound 118 emulsifiable concentrate 1 50-lb. bag 1% compound 118 dust 1 50-lb. bag 2½% " " " 1 25-lb. bag 2½% " " " Batch W-4
Merck & Company	.....	Experimental vitamin B12 mix
Dr. Cornelius B. Philip	.....	34 species of Tabanids for insect collection
U. S. Industrial Chemicals	.....	2 gals. rotenone emulsion concentrate T-271 1 gal. emulsifiable rotenone 4-r-368
R. T. Vanderbilt Company, Inc.	.....	1 lb. pyrax AAB; 1 lb. continental clay; 1 lb. cherokee clay; 2 oz. darvan
Yoder Brothers, Inc.	.....	600 chrysanthemum cuttings

DAVIS

American Potash Institute, Inc., Pacific Coast Office	.....	Potash fertilizers
Julius Hyman & Company	.....	\$1,250.00
For investigations of a new insecticide		
Lederle Laboratories Division American Cyanamid Company	.....	\$5,000.00
For investigation of sulfonamids and antibiotics		

RIVERSIDE

American Cyanamid Company	.....	One case Acrylon 12 37-ounce bottles
The Borden Company	.....	50 pounds DDT insecticide
California Spray Chemical Corporation	.....	35 pounds Isotox (high gamma BHC)
Carbide and Carbon Chemicals Corp.	.....	17 samples organic compounds
Colloidal Products Corporation	.....	90 pounds dust sticker CP
The Dow Chemical Company	.....	10 gallons ethylene dichloride; 10 gallons propylene dichloride; 950 pounds DN dust; 2½ pounds K-6451
E. I. DuPont de Nemours & Co., Inc.	.....	IN-4200 25% dispersible powder—30 lbs.; IN-4200 C (Technical)—6 gallons; 400 lbs. Marlite wettable insecticide powder
Geigy Company, Inc.	.....	100 lbs. high purity DDT; 125 lbs. ditolyl Trichloroethane
General Petroleum Corporation of California	.....	S/V experimental oil No. 1, 165 gallons No. 2, 165 gallons
Hercules Powder Company	.....	700 lbs. Toxaphene wettable insecticide powder 8 samples organic compounds
Julius Hyman & Company	.....	46 1-gallon samples of organic compounds
The Lubrizol Corporation	.....	OS 932B, 55 gals.; OS 932C, 145 gals.; OS 932D, 165 gals.; OS 932E, 165 gals.; OS 1550, 55 gals.
McLaughline Gormley King Company	.....	60 gals. Selocine concentrate
Pennsylvania Salt Mfg. Co.	.....	50 lbs. 12% wettable benzene hexachloride 50 lbs. 25%
Plant Products Corp.	.....	125 lbs. plantthion
Rhom & Haas Company	.....	Rhothane WP-50, 1,000 lbs.; Rhothane D-3 Technical, 450 lbs.; Triton B-1956, 5 gals.; 600 lbs. Cr-1639, 25% wettable; 10 gals. Cr. 1639 emulsifiable
Shell Chemical Company	.....	1 gal. benzene alkylate; 5 gals. toluene alkylate; 17 28-gal. drums of distillate fractions of petroleum spray oils
Stauffer Chemical Company	.....	Housefly pupae and rearing medium; 100 lbs. DDT (Technical Grade)
Van Dyk & Company, Inc.	.....	Escalol 106, 1 lb.; Escalol 114, 1 lb.