PAGE SIX

Five Kinds of Worms Make TOM KAY CONTENDS Internal Troubles of Our WOOL IS VELVET Sheep and Goats in Valley

The Oregon State Agricultural College Experts Have Made Investigations and Issued a Bulletin; They Have Found Ways to Control the Trouble

John C. Burtner of the depart- average about two-thirds of an ment of industrial journalism of inch long and about half that the Oregon State Agricultural col- wide. They are of a somewhat lege furnishes the following very brownish color. The mature important information for sheep flukes are found in the gall bladand goat breeders in the Willam- ders and bile ducts of the livers ette valley, for this annual sheep of infested animals. Slogan number of The Statesman: "Their life histories are very

With the rapid growth in num- complex. Each fluke contains bers of farm flocks of sheep in both male and female organs, and mill in Salem for 29 years, and he western Oregon which have been consequently is capable of layproving highly profitable in re- ing eggs. It has been claimed cent years, one of the major prob- that a single fluke can produce directly and indirectly in the prolems developing is that of control up to 50,000 eggs. These eggs duction of wool. of internal parasites. So serious pass into the intestine along with has this trouble become that ex- the bile and then escape from the tensive work was undertaken by bowels with the dung. the department of veterinary med- "Eggs which are kept in water icine at the Oregon State college may hatch in from two to sixteen hogs: that sheep come to market experimental station, where con- weeks, or possibly even longer, here in the Willamette valley siderable original research work The young embryos, upon escap- without feeding, while hogs come has been carried out with marked ing from the eggs, swim very rapidly. They die in a few hours in the feed they must have to success.

While the studies are not yet unless they find a suitable snall complete, so much valuable in- to attack. In Oregon the only formation was accumulated that snail so far found to be attacked breeder in sheep for mutton than it has recently been published as by these embryos is a small one station circular No. 93, entitled up to one-third of an inch long, of the sheep is all "velvet," con-"Scours in Sheep and Goats in which lives in sluggish streams, sidered for the purpose of this small bodies of still water, and Oregon," by Dr. J. N. Shaw.

The most serious of the intes- damp marshy places. After entertinal worms which cause scours ing a suitable snail the young in Oregon sheep and goats can be fluks changes its form several killed through proper treatment, times befre it omes ut. Thus the experiment station workers an embryo entering a snail may found, and methods were devised result in a thousand young which make control of losses from flukes leaving it. The young scours both practicable and eco- flukes have long tails when they nomical.

Due to Parasites *

scours in sheep and goats which the tails are lost and the parasites "Every serious outbreak of has been observed by the depart-ment of veterinary medicine of ject such as a grass leaf. These the Oregon agricultural experiment station has been caused by When they are taken in with parasites of some type," says Dr. food or water the flukes escape. Shaw in the circular.

"There are found in the diges- wall, crawl around in the abdomtive organs of sheep and goats in inal cavity until they reach the Oregon a large number of differ- liver, and then pass into this orent kinds of worms. At least five gan by penetrating the capsule. groups of these seem to cause They wander around in the liver scours. Four of these groups are tissue for five or six weeks, gradflatworm

"Usually the first symptom of the bile ducts where they remain to 11 pounds; though the Cotsinfestation with threadworms is for several months, producing a loss of flesh. . Regardless of the large number of eggs. type of feed, infested lambs and kids fail to make proper growth.

Keep Still More Sheep

FLOCK of sheep on every farm and a registered ram A at the head of every flock," is a worthy slogan for this valley.

Henry Porter, veteran breeder of Aumsville, says you can make more than 100 per cent on sheep, under certain Thinks Our Farmers Should conditions, here in the Willamette valley. How many other

lines promise as much? Keep on Keeping More

and More Sheep

keeping more and more sheep.

ing before commercial bodies and

with half their value consumed

render them marketable. There

is therefore more profit to the

in hogs for pork. And the wool

State Treasurer Kay says sheep are more profitable here than hogs, not counting the wool, which is velvet.

We have 140 weeds in Oregon; sheep will eat 120 of If Hon. T. B. Kay were in them, and turn them into cast. Sheep and goats will kill Salem instead of on his home- Canada thistle.

ward way from a trip to Europe. Karl Steiwer says it is cheaper to rent land in this valhe would tell the Slogan man to ley for sheep than to pay the high herding costs in eastern advise our farmers to keep on Oregon.

He would be good authority. Sheep breeding will not be overdone in the Salem dis-He commenced working in his trict as long as the United States imports over half her wool; father's woolen mill when he was as long as our people eat only about six pounds of mutton per nine: he has been connected with capita annually, while they eat 60 to 70 pounds of pork and the industry ever since. He has been in charge of the Kay woolen beef. We might keep 100 sheep here in the Willamette valley, on our well cultivated farms and our slacker and idle has bought a mountain of wool in acres, for every one we now have, and still not be doing more that time, and has/been interested than our share towards making the United States self sufficient in wool and mutton. Mr. Kay has said often in talk-

ing before commercial bodies and in interviews with newspaper writers that sheep are better than SHEEP BREEDING erage farmer in western Oregon.' He says \$100. \$150, and even \$200 an acre land can be made to pay here with sheep as a basis. He is able to make his own farm GOOD FOR VAL of 375_acres in Polk county pay, with sheep the major operation, where he could not make it pay with ordinary farming without Nnmerous Successful Farmsheep. Ivan Stewart, farm expert, says

ers Testify to Its Value most farming operations here, to be successful, must have sheep to the District in the picture, and many of them should also have goats. Goats

and sheep can be so handled as to kill the Canadian thistle. This list might be extended, to include hundreds of successful Salem district farmers, who speak from experience rather than the-

Karl Steiwer, brother of Unit-POWDERED MILKS ed States Senator Fred Stelwer, is one of our principal breeders. He says all sheep are good. He has pure bred Oxfords. But he

ARE MIGHTY GOOD sheen a month, better than to pay high salaries for herding under Powdered skim milk and buteastern Oregon conditions. He believes there should be constant termilk are practical to feed to breeding up-that we should calves where the whole milk is keep better sheep, as well as more sold, says the O. A. C. experiment

of them. He says farmers should station, especially where lower not keep scrub lambs for breedgrade powder is available. Powding. Mr. Steiwer is also an ad- ered skim milk costs about half vocate of fewer and better dogs. as much per 100 pounds as mar-He is against the sheep killing ket whole milk, and powdered buttermilk is usually cheaper

S. E. Purvine, manager of the than powdered skim milk. These Clifford W. Brown estate wool products are mixed with water buying firm, Salem. says the and fed in the same way and in sheep industry "is absolutely the th esame amounts as ordinary best basis of business for the av- skim milk from day to day.



firestone TIRES Storage, Washing, Greasing and Wheel Aligning J.W. PARKER TIRE CO. 264 N. High Street - Phone 114

It's Surprising For How Little You Can

Protect Yourself Against Travel Accidents

Will Purchase Every Subscriber of The **Oregon Statesman Between the Ages**

\$1.00 A YEAR

X

Mr. Kay said a year ago that \$1350, and the wool will sell at emerge from the snail. They \$300 to \$350. So you have \$1650 swim very vigorously for a short to \$1700 gross for your invesment time. In a few hours, however, of 01200. "Can you beat that?" asks Mr. Kay.

He was for a long time intercysts are so small they can scarcely be seen with the naked eye. of sheep, and they paid more profit than all the rest of the proburrow through the intestinal ducts of the farm, year after year; more net profit. Wool was then selling at around \$5 cents a pound. It has often been higher since, and the lambs are higher han hey were then. from ordinary sheep here runs threadworms, while the fifth is a ually increasing in size. As they from eight to 10 pounds a head. approach maturity they pass into and from the Cotswold type to 10 kind.

> "Guinea pigs and rabbits, as well as sheep, have been experi-

Telephone 66

comparison. More Than Dollar for Dollar The Salem district is increasing in the sheep breeding induscould buy ewes for \$12 a head, try. This is well. There is room and most of them will produce for a great deal more growth; two lambs. Take 100 ewes, and and still better attention to the count the increase at 150 lambs, requirements of success in that selling at \$9 each, and you have line.

deals in many kinds, and keeps ested in a 400 acre farm north several other breeds. He says it

of Turner, and he had 100 head pays to rent land at 15 cents a The wool

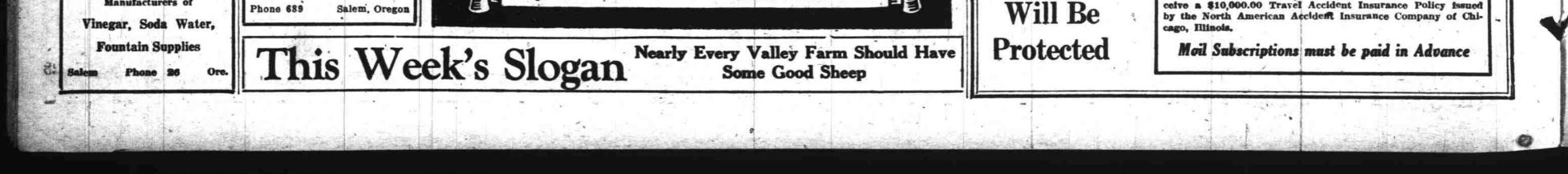
wold fleece brings about five cents less a pound than that from the Shropshire type, and the mutton of the Cotswold is not as good As the loss of flesh progresses the bowels are disturbed and scours them with material from snails

I am enclosing a payment of \$1.00 Policy fee. I am to receive a \$10,000.00 Travel Accident Insurance Policy issued by the North American Accident Insurance Company of Chi-

yards and barns with the droppings of sheep and goats contain. ing these worm eggs. This is done through treatment of the animals at regular intervals. The other method is to prevent any susceptible sheep or goat from becoming infested through using any infested pastures, corrals, and combination of these two. In should be repeated every week those animals which show symp-

ing symptims but running on infested pastures should be treated at least twice each fall-first about the time of the first fall rains, and second about a month later. If possible, some temporary pasture or cultivated ground should be provided, especially for lambs and kids. Pastures which are badly infested may be either lar treatment of all fluke.infested stock than sheep and goats. The manure from sheep and goat cor-

'Flatworms or liver-flukes are frequently spoken of as leeches. They are flat worms shaped somewhat like a cherry leaf. They **Gideon Stolz** Company Opposite I, O. O. F. Cemetery, Box 21 Manufacturers of Phone 689 Salem, Oregon



North Com'l at Center