

STOCK PARASITES GAINING GROUND

Cattle Industry Endangered—Loss Annually Totals Large Sum

WASHINGTON (AP)—Despite the expenditure of large sums for scientific investigation, Dr. J. R. Mohler, chief of the bureau of animal industry declares, workers appear to be losing ground to livestock parasites yearly, with a resulting loss of hundreds of thousands of dollars to livestock men.

"We are controlling a handful of parasites, including the Texas fever organism, the Texas fever tick, the mango and scab mites, four or five tapeworms, the large, round worms of swine and trichina. On the other hand," he says, "we are losing ground to the organisms of coccidiosis affecting various kinds of livestock, blackhead of turkeys and anaplasmosis of cattle; liver flukes are widening their range in the Pacific states, the Rocky Mountain states and southern states; most of the tapeworms hold their territory undisturbed; swine kidney worms and nodular worms of sheep and other animals are spreading from the south into the middle west, and such pests as lungworms, hookworms, insects and ticks in general flourish with only local and minor setbacks."

Dr. Mohler asserts there are several basic reasons of grave significance why parasite diseases are becoming more prevalent and deadly in this country.

"One is the fact that while man can control many of his parasites by refinements of sanitation in connection with the cooking of food and the provision of very safe water and food supplies, it is out of the question to apply any such refinements to livestock. For the most part they must eat from the pasture and must drink water from streams, pools and other contaminated sources. Manure is the carrier of parasite eggs and larvae by which infection is spread from one animal to another. The hairy or woolly hide is the finest kind of a home and hiding place for insects and ticks, and the human habits of frequent bathing and shaving are inapplicable.

"Another basic fact is that the history of the livestock industry everywhere, including our own, is a history of gradual transition from a range industry to farm conditions with fenced inclosures. On the wide open range animals

England's Tribute to a Great Soldier



Pictured here is the cortege which followed the body of Earl Haig, world war hero, to Westminster Abbey in London for Britain's official tribute to the great commander. The caisson on which the flag-draped casket reposes is the same one which was used for the burial of England's unknown soldier. Among the pall bearers seen walking beside the caisson are Marshal Poeh, Admiral Earl Jellicoe, Viscount Byng, Marshal Petain, and Admiral Earl Beatty. Just behind the caisson is Earl Haig's rideless horse. In the background is Parliament Tower.

spread their parasites over a wide area and returned seldom and at long intervals to the fenced areas. Such conditions have disappeared over most of the United States and farm conditions have come in. Under such conditions animals are more densely stocked on limited areas with a concomitant concentration from infective material from which livestock has no escape. Sanitary provision is made for water, by irrigation, if necessary, and the less time before the country will be confronted with problems involving hundreds of thousands of parasites.

"What this portends for the food supply of the country is evident today," he says, "and will be more evident within the next decade."

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Father's Right To Whip To Be Tried

SALT LAKE (AP)—The right of a father to chastise his 13-year-old daughter when he objects to the company she keeps and refused to tell him to whom she telephoned will be determined in court March 22, when John Kennison, 59, will be tried on an assault and battery charge brought by his daughter, Cora, 13.

Kennison was arrested and placed in jail following the issuance of a complaint. He pleaded not guilty and his bond was set at \$100. His daughter charged that when she refused to divulge the name of a person to whom she telephoned, that her father struck her in the face. The father denied the charge, declaring that it was his daughter who did the striking.

A three-month note seems to reach maturity in no time at all.

Knights' Armor Was "Poor Stuff"

Microscope Reveals to Scientist

By John L. Cooley
(Associated Press Science Editor)
NEW YORK (AP)—New honors must be awarded—posthumously—to the ancient knight errant. His heart was stouter than his armor when he sallied forth to win a lady fair.

In fact, his helmet, greaves, cuirass, thigh plates and elbow caps were generally of such poor stuff, metallurgically speaking, that even the most unscrupulous war profiteer would hardly attempt to pass it off on a government today.

Dr. William Campbell, professor of metallurgy at the Columbia university school of mines, has examined with the critical eye of the scientist the defensive equipment of the old adventures and soldiers. He has found that their

metal suits, so bright and shining in the story books, were often made of miserable materials.

Microscopic examination of tiny samples cut from armor exhibited in museums disclosed that the cumbersome uniforms worn in the time of the Crusades should hardly excite the envy of the twentieth century steel maker. On the other hand, Dr. Campbell points out that the skill of the old armorers was admirable, for they succeeded in producing such truly intricate pieces of military wearing apparel from very poor quality iron and steel. The modern metal worker, Dr. Campbell asserts, would have a hard time reproducing these pieces even with the best of modern steels.

What metallurgists call "grain growth" and "ghosts"—serious defects in the structure and arrangement of the crystals in the metal—are present in the armor inspected by the Columbia expert. Under the microscope the pieces also give evidence of stout blows received by the valiant owners centuries ago.

The weapons owned by these heroes would hardly come up to modern standards, either. In fact, the famous Damascus steel, from which the sword of every socially prominent knight was forged, had many faults. Far less fortunate, however, were the sturdy warriors who battled with blades of iron. The sagas tell of hand to hand combats that were politely halted while one of the parties straightened his sword.

Information on the processes used by metal workers at the time of the Norman conquest of England has come down in the writings of Theophilus, an eleventh century monk who compiled "An Essay Upon Various Arts." He tells, for example, the mode of tempering files and pointing out that the same process could be followed with all articles of steel. "Burn the horn of an ox," wrote Theophilus, "scrape it and mix with a third part of salt, and grind. Put the file in the fire when it glows, sprinkle this preparation over it, cover it with hot coals and blow quickly upon the whole . . . and quickly withdrawing it, extinguish it equally in water and taking it out dry, slightly over the fire.

"Smaller files are made from soft iron. Anoint them with the grease of an old hog and bind them with straps cut from the skin of the buck-roast and tie them with flaxen thread. Cover them one by one with beaten clay, leaving the handles bare. When they are dry, place them in the fire and blow strongly and the skin is burned; and quickly taking them from the fire, extinguish them equally in tells, for example, the mode of water."

FINAL WIND-UP

of La Grande's Finest Exclusive Shoe Store in the Gigantic

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Two Big Tasks



Wilbur M. Brucker, at 33 the attorney general of the state of Michigan, faces two big tasks—continuation of the state's suit to dissolve the House of David cult at Benton Harbor, and fighting Michigan's share of the battle to stop Chicago from diverting water from Lake Michigan. Brucker, whose home is at Saginaw, is one of the youngest men ever to hold that office in Michigan.

Three Candidates Are Former Iowans

DES MOINES, Iowa (AP)—Iowa, which in common with every other state west of the Mississippi river has never produced a president, has a claim upon three men who are candidates this year for major party nominations.

Herbert Hoover was born at West Branch, Iowa; Frank O. Lowden, a native of Sumner City, Minn., lived in the state and was educated at the University of Iowa; and James A. Reed, born in Ohio, lived near Cedar Rapids from boyhood until he was 26. Ohio, however, the native state of six presidents since the Civil war, has three native sons in the 1928 presidential arena: Senator Reed, Senator George Norris of Nebraska, and its own Senator Frank B. Willis.