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POULTRY PARASITES.

The following is a synopsis of an address by Mrs. Ida E. Tison, of West Salem, Wis., who has been conducting a series of poultry institute meetings in Nova Scotia.
We may build a dry, sunny, warm hen house, feed well-balanced rations, and be kind faithful masters, yet defeat ourselves in poultry culture by allowing everything to pour through the fowls into nasty parasites around and on them.

Besides some minor pests there are two great classes of poultry parasites, lice and mites. The latter have no thorax, only a proboscis, head and abdomen. They belong to the arachnidæ or spider kind, and are nearly all blood suckers. Some of the lice, notably the large gray head-lice are blood suckers, but most of them are filth feeders. The blood sucking lice when killed by oil, usually die slowly and roll up themselves and proboscis. Killed more quickly in alcohol, the proboscis may sometimes be seen. There are about nine kinds of lice, and four kinds of mites, infesting poultry. The pests vary in size color and shape, but preventive and remedial measures do not differ so much.

While some lice breed in filth, others lay nits or eggs upon the birds. If possible the manure should be daily removed, and the perches scraped. This not only takes away breeding places for certain parasites but gives fowls a better air, and gets the fertilizer on the land or in a compost before its valuable ammonia has escaped, in the last particular fully realizing what Lord Palmerston said of dirt as only matter in the wrong place.

If a mellow dust box is provided, or a fresh spot of earth often spaded, fowl will clean and exercise themselves rather than exercise their owner. Wood ashes will discolor plumage and legs, a matter of consequence only to exhibitors. With a coarse sieve from the fanning, I sift any kind of ashes throwing charcoal or clinkers one side for the oddities to eat, but rest assured their bath of dust is more patronized when free from chunks, keep it in a sunny place, stir and renew often. A little sulphur or lime, not enough to cause sore eyes, I frequently add. If fowls are very infested, I have found I can clean 25 birds in 15 minutes, by a puff box or little bellows of Persian insect powder. I do not get personally acquainted with each individual parasite, but apply my powder to top of head, under beak, wings and vent. This is done in the evening when the fowls are drowsy, or when I set a hen, and several times during her incubating. Sifted coal ashes will answer as well. The Persian insect powder is volatile, and should be kept tightly covered when not used, and is of no use in nestboxes, unless mixed and held with oil. Tansy, wormwood, and elder leaves, cedar sprigs and onion skins are good discouragers in nests. I also often use a sawdust filling.

Mites hide in perches, walls and nest boxes by day, coming forth to feast on blood at night, hence our measures for destroying them, must be directed to the house itself. These creatures are just visible to the naked eye. They are more ruddy when they have had a good meal, and paler after fasting. A daytime examination frequently discloses them on sick or sitting fowls, the pests seeming to realize that the latter are not going to shake them off. Mites when very thick, will be found between nests and walls.

There is an important difference between lice and mites. I have done considerable work with the microscope, and am convinced that hen-lice do not breed on horses and cattle. The latter have their own kinds independently. Hen-lice will run over horses and cattle, causing great annoyance, but do not lay nits on them: while mites are cosmopolitan. They will bite all alike, even unto thy man servant and thy maid servant.

They do not bite the skin but puncture for blood. They multiply so fast, I have actually known two hen-houses to be burned when cleaning was thought hopeless. But from two sieges with them, I know they can be exterminated. Hot, thin whitewash (the lime newly slaked with hot water), kerosene emulsion, turpentine (singly or in combination), brine, hot tar paints and even hot water, have all to my knowledge been successfully used. The main thing is to repeat the application every day for about a week, in order catch every hatch, because the eggs are less susceptible to applications than are the adult creatures. On our farm, we found it necessary to clean some of the carriers, or cats and dogs, with pheno-chloro, etc.

It will be seen that a necessity to thorough cleaning is moveable furniture in the poultry house, or moveable nests and perches. Soap or cracker boxes hung to the wall by stout nails driven part in and tipped up like picture nails, then passing through corresponding holes in those boxes, make nests easily taken down for cleaning, and also adjustable to any size or height of fowls, since active breeds would better have nests out of reach of their prying mischief, and large breeds cannot, without injury, jump down from or fly to high nests. Perches must not be teeter-like, but whether they pull out of grooves or from under leather straps, will answer if moveable. Wider perches prevent crooked breast bones and are generally selected by modern heavy fowls given a choice.

As a pioneer retraces his steps by blazed trees, so, would that I could mine by a line of clean hen-houses with moveable furniture.

As a pioneer retraces his steps by blazed trees, so, would that I could mine by a line of clean hen-houses with moveable furniture.

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Notice to Creditors.
In the Surrogate Court of the County of Grey, in the matter of the Estate of Donald Smith, late of the Township of Holland, in the County of Grey, Farmer Deceased.
Notice is hereby given pursuant to R. S. O., 1897, Cap. 129, Sec. 38, and Amending Acts, that all persons having claims against the Estate of the said Donald Smith, who died on or about the 13th day of January A. D. 1903, are hereby required to send by post prepaid, or to deliver to J. P. Telford, of the Town of Durham, Solicitor for the Executors, on or before the 6th day of March, A. D., 1903 their names, addresses and descriptions, and a full statement of particulars of their claims, and the nature of the security (if any) held by them, duly certified, and that after the said day, the Executors will proceed to distribute the assets of the deceased among the parties entitled thereto having regard only to the claims of which they shall then have notice.
Dated this 11th day of February, A. D. 1903.
J. P. TELFORD,
Solicitor for the Executors of James L. Smith, M. D. William Smith

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Barley.....	40	45
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Lambs.....	8 25	8 50
Dressed Hogs, per cwt	7 00	7 10
Hogs, Live weight.....	5 60	5 60
Butter, fresh roll per lb	17	17
Butter, Tub.....	15	15
Eggs.....	15	15
Hives, per cwt.....	5 00	5 00
Calfskins, per lb.....	7	8
Sheepskins.....	25	40
Hav., per cwt.....	6 00	7 00
Beef, per cwt.....	6 00	7 00
Wood.....	2 00	2 50
Turkeys.....	10	12
Potatoes, per bag.....	90	1 00

Prices ranged from \$3.75 to \$4.25 for ewes \$3 to \$3.50 for bucks, and \$4.50 to \$5.60 for lambs.
Calves were steady at \$2 to \$10 each and 4 1/2 to 6c per lb.
The hog market was unchanged at \$6 for select and \$6.75 for lights and fats.

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