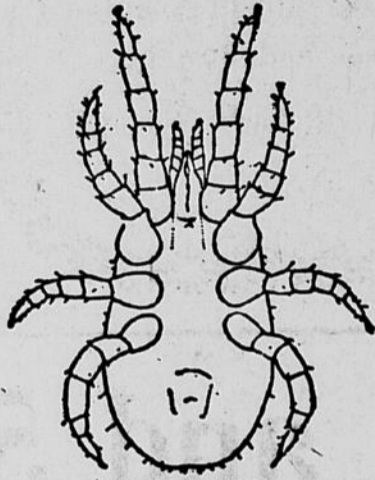


POULTRY AND BEES

WORST OF CHICKEN PESTS.

Known as Poultry Mite or Tick and Endowed with Vicious and Destructive Habits.

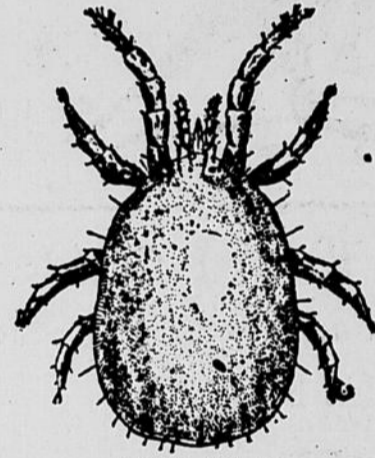
One of the worst pests with which the poultry raiser has to contend is the mite, which has the power of increasing marvellously fast, and is as vicious in its attacks as a blood-sucker. The sitting hen and the newly hatched chicks suffer most from this pest, and call for great vigilance on the part of the poultry raiser to protect them from its attacks. It is not difficult to keep the pens and chicks free from mites if proper attention is given, and litter is not allowed to ac-



YOUNG MITE. (Ventral View. Magnified 70 Diameters.)

cumulate in the houses and yards. Then, by spraying everything now and then with a good insecticide, the mite will find it hard work living and finally give it up.

The chicken mite is commonly considered a form of insect life, although it is not, properly speaking, an insect. It is sometimes called the chicken tick or poultry tick. It would probably be better to apply the term tick to this parasite and reserve the word mite for the true tick mite of chickens, the Sarcopites mutans Robin and Lanquettin. The mite has an average length of one-twenty-fifth of an inch and its width is about four-fifths of its length. It has eight legs, by means of which it can move very rapidly from place to place. In color it is light gray, with small dark spots showing through the



ADULT MALE. (Dorsal View. Magnified 50 Diameters.)

skin. About one in 50 or 100 shows a distinctly red color, varying from a light to a dark red. This red color is due to engorgement with blood. The common white louse of the hen, Menopon pallium Nitsch, is longer than the mite and of a yellowish-white color. By the aid of figures 1 and 2 one can easily identify the chicken mite, even with the naked eye. Much aid will be given, however, by a hand magnifier.

The mites are of peculiar and stealthy habits of life, rather unlike that which one naturally expects from a parasite. Indeed, they are only semi-parasitic, and, as a rule, remain upon the fowls only long enough to secure a meal. They are very active in their movements and seem to be ever on the lookout for a victim. On account of their vigorous and vicious habits they may be styled the wolves of the insect parasites of fowls. The mites hide in crevices and under objects in the hen house during the day time, while the chickens are outside, and lie in wait for their return. They lay their eggs and the young are hatched in these hiding places. A barrel affords an excellent hiding and breeding place, as the mites lodge between the staves and under the hoops. In the nest they are to be found under the straw or other nesting material. It is a noteworthy fact that a place which shows only a few mites on the surface may contain vast numbers in the crevices or under objects. Often they become so plentiful that they overflow the hiding places and appear in hordes upon the exposed surfaces. The description and figures of the mites are taken from a bulletin of the veterinary department of the Iowa Agricultural college.—Detroit Free Press.

What Organization Has Done.
To thorough organization among farmers are the splendid agricultural colleges, farmers' institutes, rural mail routes, farmers' telephones due. Some of these enterprises may have been started by a small group of men who foresaw their great importance, but it was not until the majority of farmers in a state or section united and demanded their rights that anything like satisfactory results were obtained. They have done much, but a great deal remains for their careful attention. They must never relax their vigilance, for if they do retrogression is sure.—Orange Judd Farmer.

MANAGEMENT OF POULTRY.

Easiest Way of Increasing Profit Is Reduction of Expenses by Sensible Methods.

Many farmers turn their hens out to forage, and give them no attention. Such a system is unprofitable, as the farmer loses some of the eggs, and also a large proportion of the chicks. When the farmer is too busy to attend to the fowls he will not find them profitable. Even if the flock has the run of an orchard, it must have shelter and protection at night, and lice must be kept down. It is claimed by some that it is more profitable not to confine the hens, because it is more difficult for a beginner to manage a flock in a yard than when the hens are at liberty, as he must supply all their wants and must understand how to avoid mistakes, especially those of overfeeding; but it is maintained, on the contrary, that if hens are on a range they will instinctively care for themselves, and in so doing save the beginner many annoyances. A large number of farmers keep their hens up to prevent depredation in the garden, although the hens do not damage the garden as much as may be supposed, but destroy many insects. If a hen with a brood of chicks secures an opportunity to scratch up a garden that has been newly planted, they will make sad havoc with the seeds and very young plants; but as soon as the garden is well under way it is as safe from the attacks of hens as a field crop would be, as the hens will busy themselves with insects, tender grass, germinating weed-seeds, worms, and other delicacies which they prefer. The proper mode of management depends upon the farm, the principal crops grown, the climate, the number of fowls and facilities for transportation to market. It is difficult to frame rules that are applicable to all conditions. There is almost a sure profit to be derived under nearly all circumstances, as a flock of hens is capable of saving certain portions of crops that cannot be sold to advantage, such as seeds, grass, vegetables, small potatoes, etc. There is at all times on the farm a lot of valuable refuse which cannot be saved except by the use of poultry. It is true that other animals are also serviceable in that respect, but the hens give more immediate returns, supplying eggs daily, and bringing in cash when there are no returns from other sources. In keeping a flock of fowls the object should be to feed nothing to them that can be sent to market, as long as there is something unsalable that will answer the purpose. Economy adds to the profit, and one of the chief purposes in keeping a flock is to utilize the waste products. It is the capacity of the hens to seek their food that reduces expenses and increases the profit.—Farm and Fireside.

REASONABLE BEE NOTES.

If you see clusters of bees hanging out in front of some of your hives, it may mean that these colonies will soon cast swarms. If not, it means that they need more super room, or a larger entrance.
Have a handy receptacle for all the bits of comb and wax which collect in the apiary. It will not take long to save a dollar in this way, for there is always a good demand for beeswax, and at a good price.
A frame of unsealed brood placed in a hive with a newly-hived swarm, will keep them from absconding, if anything will. If the weather is very hot, give shade and good ventilation to the hive for a few days.
Swarms can be taken from the bodies of trees, fence posts and other like places by dipping them off carefully with a tin dipper, dumping a few on the frames, and the remainder at the entrance to the hive.
Starters of foundations, fastened in the top of the section boxes, do much good, but full sheets are far better. The sections will be much better filled and the comb much better attached to the wood, where full sheets are used.—Farm Journal.

USEFUL LITTLE FOUNTAIN.

Where Little Chicks Are Kept in Large Numbers It Is Almost a Necessity.

The illustration shows a drinking fountain for little chicks that can be constructed by anyone who can drive nails and saw off a board square. Take a piece of inch board six inches square and one piece six by twelve inches and nail them together to form a right angle as shown. Fasten a bottle to the upright board with a strap, a, place the lid, b, of a baking powder can under the bottle with a nail, c, under the mouth. The nail is to allow a little water to escape from the bottle.—Farm and Home.

Incubator Is Indispensable.

With the aid of a good incubator, it is possible to bring forth a greater number of chicks with less worry than is required to look after perhaps a dozen or more setting hens. The advantages of using an incubator are many: It is ready to "set" whenever needed; not necessary to wait until it gets "broody." It will do the work of dozens of hens in hatching and isn't half the trouble. It starts the chicks off free from lice and consequently has advantage here over hatching with hens. The incubator is as indispensable to the poultryman as the mower or reaper to the farmer these days.—Midland Farmer.

GOLD BRICKS IN KLONDIKE.

One That Was Foisted by a Jap Caught the Miners for a Good Clean-Up.

"The average gold hunter in the Klondike is the most susceptible fellow on earth when you talk rich strikes to him," remarked Engineer W. H. Hicks, of the Bless military academy, according to the New York Sun. "He doesn't stop to reason."
"Along with six friends I made a trip to the Klondike in the summer of 1901, and after getting through the perilous common to a visit to that bleak region, I got a job at Dawson running a hoisting engine—\$1.25 an hour and board. I was satisfied with my wages for awhile, but the gold talk brought on the fever and I resigned to take up a claim."
"So I set off with a partner, and we staked out a claim over the divide, near Eureka creek. We struck dirt ten feet down that ran 37 cents to the pan. In a few weeks my share was 137 ounces, worth \$1,892. This looked all right and we began to forget the miseries of our journey up."
"We went down to Dawson to lay in more supplies. We found the town sputtering over a new strike, 600 miles up on Tanana creek, Yukon. A Jap had come down and brought along a handful of nuggets and was showing them around to the miners."
"He said that the gold up on Tanana creek ran from \$75 to \$100 to the pan. In comparison our little claims seemed too insignificant to fool with."
"No one thought of asking the Jap why he didn't stay up there and spike down the wonderful land of Monte Cristo for himself and his heirs. He looked so innocent and meek that the miners supposed he told it merely because of his obliging disposition."
"I reasoned that there was no apparent object for him to lie about it, and joined the 2,000 strong procession in the 600-mile tramp. After eight days of the hardest traveling I ever did in my life, during which I paid as high as five dollars for a second-class meal, we landed in the blessed country the Jap had told us about."
"At first the Jap pointed out several good places where an astonishing amount of gold was found. The miners staked out their claims and went to work with feverish haste."
"Our friend, the Jap, wisely anticipating our necessities, had stocked up an immense room with provisions, which he sold to us on the basis of men realizing from \$75 to \$100 a pan for their work. We soon bought out everything he had, and he bade us an affectionate farewell."
"After we had toiled through the earth for miles up and down the creek and found nothing better than three cents a pan, we would have quickly sent him, if we could have laid our hands on him, to a warmer climate."
"To be held up and swindled in any circumstances is bad enough, but to have the job attended to by a miserable, lamb-eyed, idol-worshipping heathen is rubbing it in."
"The rascal had salted enough places to keep the excitement up until he sold out his stock, and then moved."
"I retraced the trail back to my claim on Eureka creek, found it relocated by a miner who hadn't lost his head when everybody else was going crazy over the Jap's yarn, and gave up gold mining. I got back to Seattle in the fall with the same amount I had left with and a splendid cold."

NO DUST ON THE ROADS.

Coating of Tar Has Proved Successful in Abating a Crying Evil in France.

How to obtain dustless highways has long been a problem to which municipal supervisors in all parts of the world have been devoting a great deal of attention. An official report of the department of bridges and roads in France shows the continuance of the good results obtained in rendering roads free from dust by coating the surface with tar.
The engineer for the Seine and the Marne departments reports that after an unsuccessful trial of a mixture of oil and petroleum a coating of tar was in the summer of 1902 laid down on seven different lengths of road. After carefully observing these during a period of 12 months, he finds that dust and mud have wholly disappeared and the cost of maintenance of the roads has been considerably reduced. Further comparing the previous outlay on the roads with that of those with tarred surfaces, he says: "It appears that the tarring method requires no greater outlay, and, at the same time, very considerably improves the condition of the roadway. In La Cher two lengths of the Chaussee Nationales were coated with tar in June and August, of 1902. Both these experiments have been entirely successful, the road now being covered with an elastic skin, while the sound of foot passengers' tread is muffled and horses and draught oxen require only one-half the effort they put forth before. The noise and vibration caused by vehicular traffic is much reduced, and neither dust nor mud is former on the tarred surface."

Trick of Library Thief.

In addition to the book thieves there are the thieves of periodicals and the thieves who make a practice of stealing engravings from the rare old books. The engraving thief has a simple method which is known to every librarian. In his pocket he carries an innocent-looking string. When the attendant is not looking he wets the string in his mouth and places it between the pages where he wishes to take out the engraving. The weight of the covers presses the moistened string into the paper, cutting the page through along the line of the string.—Kansas City Journal.

PUT SUGAR IN THE SOUP.

Smith Thought It Was Tea; Then He Deliberately Lied Out of It.

There had been a glorious game of golf, followed by a jolly dinner at the club house, relates the Chicago Record-Herald. Sometimes it is not the correct thing to tell even a truthful story with real names, hence it happens that it was the Joneses who gave the spread and the person that happened in was Smith.
Smith is really a man of parts, wealthy, intelligent and genial and usually known as "what's what," but he is not given to swell affairs and is not dresy, withal.
A business call had taken Smith to the club house, and Jones, seeing him, called him "able" after the others had begun. Soon as he was seated, being preoccupied by salutations from other persons at the table that he knew, he was absentmindedly sweetening the cup at his elbow, when Jones, who was leaning to make the matter quite plain to this plain man, said, shruggingly:
"Ah—Mr. Smith—that is the soup."
"Yes, thank you," Smith nonchalantly replied. "Yes, I understand. But I always sweeten my bouillon with the slightest emphasis on 'bouillon.' But Smith was at that moment a prevaricator, to put it mildly. He really thought the cup was tea, and probably never tasted sweetened bouillon in his life."

Delightful Summer Tours to the East.

are made more delightful by taking advantage of the many inducements offered by the Nickel Plate Road. Recognized as the Low Rate Short Line between the West and East, tourists are assured of a quick and comfortable trip to the many beautiful Summer Resorts located along or within a short distance of the Nickel Plate Road. Close connections are made at Buffalo for all Eastern Points, Mount Airy, and other famous watering places. The train service of the Nickel Plate Road is up-to-date in every respect and passengers are shown the best of treatment by the efficient corps of attendants to be found on all Nickel Plate trains. Ladies traveling alone or accompanied by children are given special attention. It is in the splendid Dining Cars where the liberality of management is particularly apparent. No stated amount is required for a meal in these Dining Cars, but under the system of Individual Club Meals, carefully prepared menus are compiled into booklets containing suggestions for a breakfast, luncheon or supper that will not cost more than 35 cents, and on up to one dollar. Meals are also served a la carte. All trains of the Nickel Plate arrive at and depart from the Great La Salle Street Station, Chicago. When purchasing tickets say "Via the Nickel Plate Route."

Disappointment.

The young man with the swell suit, slender cane, and jaunty air, was conscious of being observed.
Out of the corner of his eye he saw that the people on the other side of the street were looking at him as he sauntered along.
A sign on a letter box, "Fresh Paint," attracted his attention.
He stopped and looked at it.
But he did not touch it.
He turned, instead, and looked at the people on the other side of the street through his monocle.
Then he resumed his sauntering.
Some men are too contrary to live.—Chicago Tribune.

If You Are Going to the World's Fair.

Remember that the Minneapolis & St. Louis Railroad is the most direct route from the Twin Cities to the Northwest and offers unexcelled service. Two through trains daily with Pullman Buffet Sleepers and free reclining chairs and dining cars. All trains stop in full view of the World's Fair buildings, and stop at main entrance to Exposition Grounds.
Round trip rates—\$25.00, return limit Dec. 15th; \$31.35, limit sixty days; \$10.20, limit fifteen days.
Write for "Guide to World's Fair," and "Blue Book," giving information as to hotels. A. B. Cutts, G. P. & T. A., Minneapolis, Minn.

Relieved of All Fear.

Dionysius observed Damocles casting a furtive glance at the sword.
"It's sharp as a razor," remarked the tyrant.
"Thanks," replied his guest, visibly relieved. "I see there is no danger."
And he laughed to think that he had sworn that morning because Mrs. Damocles sharpened her pencil with his razor.—N. Y. Tribune.

Don't Get Footsore! Get Foot-Ease.

A wonderful powder that cures tired, hot, aching feet and makes new or tight shoes easy. Ask to-day for Allen's Foot-Ease. Accept no substitute. Trial package FREE. Address A. S. Olmsted, Le Roy, N. Y.

Wanted All to Know.

Ida—Emily captured that young man at last. I don't think she liked the way the engagement was announced, though.
May—How did she want it announced?
"Through a megaphone."—Indianapolis Sentinel.

Fits stopped free and permanently cured.

No fits after first day's use of Dr. Kline's Great Nerve Restorer. Free \$2 trial bottle & treatise. Dr. Kline, 931 Arch st., Phila., Pa.

A western man committed suicide because he could not guide his automobile.

Most men guiding automobiles prefer to commit homicide.—Atlanta Journal.

I am sure Piso's Cure for Consumption saved my life three years ago.

—Mrs. Thos. Robbins, Norwich, N. Y., Feb. 17, 1900.
Marriage is a lottery, but all men are born gamblers.—N. Y. Times.
A square man does not need to be all corners.—Chicago Tribune.

Strong Language.

Fredericksburg, Ind., June 20.—Rev. Enoch P. Stevens, of this place, uses strong language in speaking of Dodd's Kidney Pills, and he gives good reasons for what he says:
"I can't praise Dodd's Kidney Pills too much," says Mr. Stevens. "They have done me so much good. I was troubled with my kidneys so much that I had to get up two or three times in the night, and sometimes in the day when starting to the waterhouse the water would come from me before getting there. Two boxes of Dodd's Kidney Pills cured me entirely."
"I have recommended Dodd's Kidney Pills to many people, and have never yet heard of a failure. Dodd's Kidney Pills are the things for Kidney Disease and Rheumatism."
Dodd's Kidney Pills always cure the Kidneys. Good Kidneys ensure pure blood. Pure blood means good health.

Not a Good Fit.

"For goodness sake!" exclaimed the boy's mother, "what are you complaining about? You wanted regular suspender pants, and now you've got 'em you ain't satisfied."
"But, mom," protested the boy, "I'm kinder 'fraid they're too tight under the arms."—Philadelphia Press.

G. A. R. National Encampment, Boston, August 15-20, 1904.

Very low rates via the Nickel Plate Road. A splendid opportunity to visit Boston and its many historical points of interest. Elegant Dining and Sleeping Cars affording every accommodation. Meals served on the Individual Club Plan, also "a la carte" service. Coffee and sandwiches served to passengers in their seats without extra expense. Stop off at Chautauque Lake and Niagara Falls will be allowed on return trip.

"If some men would try to be as important as they think they are," said Uncle Eben, "stid o' jes' takin' it foh granted, dar'd be a heap mo' business done in dis world."—Washington Star.

"Lake Shore" Summer Tours.

Where are you going to spend this year's vacation? The Lake Shore Railway's book of "Summer Tours to Mountains, Lakes and Seashore" will help you to decide. It will be sent on application to C. F. Daly, Chief Asst. Gen. Pass. Agt., Chicago.

The Igorrotes at St. Louis say that boiled dog tastes much like sweet potatoes. However, there are times when we are strictly vegetarian.—Kansas City Journal.

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Over-eating, working and drinking may have caused it, or you may have caught cold. Makes you feel mean—bad taste—and a headache. Go upon our advice just once and take

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Cascarets
TRADE MARK REGISTERED
BEST FOR THE BOWELS
No mercurial or pill poison in CASCARETS, but an absolutely harmless, purely vegetable compound. Pleasant, palatable, potent. They taste good and do good. Get the genuine C.C.C. Any druggist, 10c, 25c, 50c. Take one now and

Feel well tomorrow

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"It's the shots that hit that count." Winchester Rifle and Pistol Cartridges in all calibers hit, that is, they shoot accurately and strike a good, hard, penetrating blow. This is the kind of cartridges you will get, if you insist on having the time-tried Winchester make.
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The New Boon for Women's Ills.
SUFFERING from any form of female disorder is no longer necessary. Many modest women would rather die by inches than consult anyone, even by letter, about their private troubles. PISO'S TABLETS attack the source of the disease and give relief from the start. Whatever form of illness afflicts you, our interesting treatise, Cause of Disease in Women, will explain your trouble and our method of cure. A copy will be mailed free with a Generous Sample of the Tablets, to any woman addressing
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CURE WHERE ALL ELSE FAILS. Best Cough Syrup. Taste Good. Use in time. Sold by druggists.

WHEN WRITING TO ADVERTISERS

Please state the column and the advertisement in this paper.

NEW HOMES in the WEST
382,000 ACRES of Fertile and Well-Watered FARM LANDS in the Rosebud Country to be thrown open for settlement.
The lands to be thrown open are contained in that part of the Reservation lying in Gregory County, South Dakota. Each square (see map) represents a Township—36 sections.
Under President Roosevelt's proclamation United States Registry Land Offices are to be opened July 23rd at Yankton, Fairbury and Bonesteel, S. D., for the registration of applicants for these lands. The registration books will remain open until July 23rd, and commencing July 23rd, drawings will take place, to determine the order in which the applicants will be permitted to make final entry and settlement. The final entry begins at Bonesteel, August 15th. No one is permitted to register or make entry to land by mail, but must be personally present at one of the three points named for registration and at Bonesteel for final entry.
The lands are well watered by the Missouri, Moberly and White rivers and are remarkably fertile, situated in the midst of the great corn belt of the Missouri Valley, where similar land is worth from \$20 to \$30 an acre. With an altitude of about 2,000 feet they are in a region which cannot be equalled for healthfulness.
The direct route to the Rosebud Country is via the Chicago & Northwestern Railway, the only double-track railway between Chicago and the Missouri River. Full particulars may be had by addressing W. E. KNISKERN, Passenger Traffic Manager, Chicago, or any Agent of the Northwestern Line.