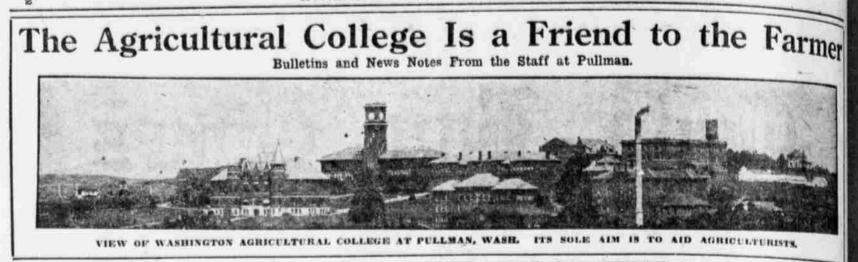
HOME AND FARM MAGAZINE SECTION



Seasonable Notes

# Advice on "Smiting the Mite"

WINDOW plants at this time of the year require a temperature of about 50 degrees, and should be watered sparingly until an active growth is resumed, after which a more liberal application may be given. Any shoots which may be growing too long on the geraniums may be pinched back to the desired length. Such plants as primulas, cyclamens, cinerarias, will soon be in blossom and every few days it will be well to look the plants over for aphis and red spider as these pests will be sure to make their appearance, especially on Cinerarias.

for Window Plants

A little tobacco powder sprinkled over the infested plants will soon eradicate these, or a wine glass full of kerosene to four gallons of water applied with a hand syringe is even better, but care must be taken to keep the oil well mixed with the water, the kerosene floats on the water and if an excess of the oll is sprayed on the plants, they soon become burnt.

A little air should be admitted on A little air should be admitted on all favorable occasions, such plants as palms, aspidistras, arilias, must not be kept near radiators or red spider will soon become prevalent. This pest is caused by a warm and very dry atmosphere. The foliage of the plants should be washed once a week with a soft sponge and with the plants should be washed once a week with a soft sponge and with tepid water; a little soft soap may be added. Dust collects rapidly on house plants, even at this time of the year, and if the glossy green color can not be maintained the plants soon lose their beauty.

worms are in the soil a small lump of lime dissolved in water and applied carefully will bring them out. —J. H. Gooding, Instructor in Flori-culture, State College.

### How to Prepare a Hotbed.

Collect unheated manure from the horse barns and mix with the pure manure an equal amount of straw that has been used for bedding. Fork this over well and pile in a heap and let stand for about two days. If it does not start to heat in this time moisten the entire pile with warm water.

Prepare a pit for the manure bed. This should be located on the south side of buildings with a good expos-ure to the sun. The pit should be about two feet deep, not over six feet wide and as long as desired. It is preferable to have the long measure cost and work the son as the manwide and we a match in the preferable to have the long measure cast and west. As soon as the man-ure has started to heat well, it should be placed in the pit and carefully tramped. This is the best method of packing the manure evenly in all parts of the bed. If it seems dry add enough water to dampen, but do not annely enough to saturate the bed. well throughout, then cover with five or six inches of good garden loam. Let this stand for three or four days and then work down the surface with a rake and the bed is ready for seeding. A broad frame, 10 or 12 inches high on the south and double that on the north, should be placed about the bcd when the pit is prepared. The glass sash or cloth covering used should be placed on as soon as the manure is packed in. A bed prepared in this way will furnish heat about six weeks. The temperature will run high at the start and gradually go down.

BY HELEN DOW WHITAKER. Head of Poultry Department, State College.

Some one computed the loss to Missouri caused by the surplus male. The slogan went forth "Swat the Rooster," and the poultry industry scored a point for its better-ment. Having swatted the rooster, why not go a step farther to "Smite the Mite"? Tremendous as it is, no the Mile ? Tremendous as it is, no one has computed the damage done by the mile. While one was com-puting the number, the miles would have increased to millions. The common chicken mile named

Dermanyssus gallinae is not so long as its name, measuring less than one twentleth of an inch. It is plainly visible to the naked eye; a little elliptical, flattened body with eight slender, tapering legs; a pair of short feelers and between them a pair of needle-like jaws with which it pierces the flesh of its victim to suck out the blood upon which it dines. In color the hungry mite is pale gray with darker dots on its back and sides The after-dinner mite is reddened with the blood of its victim.

#### Incubation of Mite.

The mother deposits her tiny egg in a crack or crevice of the wood. Her idea of a cozy cradle for her baby is a crack lined with a mussed, soiled old feather, or a crevice in which is a little heap of manure or other filth to furnish dampness and heat. Here is also an incubator which gives a 100 per cent hatch in about three or four days. The tiny whitish, six-legged baby feeds on the fiith it is born in. A spolled egg broken in a dirty nest will furnish delectable food for a thousand. In a few days they shed their skin and crawi forth upon eight legs like the parents that begot them. About 10 days elapse between them. About 10 days elapse between hatching and maturity. Mites live upon the fowls only when feeding, preferably by night. Where they are numerous they can be found on the hens by day, or crawling about the building, but their habit is to eat at night, then desert the victim for a dark, dirty crack in which to sleep by day. by day.

#### Remedies.

The considering remedies for these posts, first hold in mind the condi-tions under which they breed and thrive. Is there a dropping board in the henhouse that holds the accumu-lation of a week? If there is you have a mite incubator, a million or two capacity, set for a hatch. In the cracks and corners have the solled old feathers of the molt heaped up? filth, thus making a giant hatchery for mites? Consider the nests, are any broken eggs left in their straw to decompose and feed the pests? Are there any sitting hens in solled boxes to mother them? Any filthy, sourced to mother them? Any filthy, soured feed troughs to breed them? The first remedy for mites is to The first remedy for mites is to rake up, scrape up, spade up, sweep up and scrub up. For the raking use a steel tool with close toeth. For the scraping of all packed ground and of all boards use a sharp garden hoe or narrow spade, applied with plenty of lubricating oil from the elbow. Do not be afraid to scrape down through the filth to fresh sofi or clean wood. For the sweeping use a stiff whish broom for all nest corners and crevices, and a deck broom for floors, dropping boards, etc. For scrubbing nothing is better than Pearline and Dutch Cleanser. At least three times a week each wet mash trough and box for feeding sprouted oats and drink-ing dish should be absolutely as clean every nest and roost and dropping board and feed hopper and shelf they rest upon and board floor and all walks and overhead braces and rati-

ers should be thoroughly swept free from dust. This much done, treatment for the mite-infested house really begins. The deck has only been cleared for action, to use a figure of war.

# Using Carbolineum.

If the house is in bad shape and one really means business, that is, if one seriously wishes to get rid of the mites, not just dabble around a little and in three weeks have as many mites as when he began-if one really means business, I repeat, use carbolineum avenarius with which to paint every quarter inch of the inside of the house where mites are in evi-dence or might be in hiding. Apply with an ordinary stiff paint brush. If heated before using, the carbolineum will be thinner, spread more evenly, and penetrate the wood better. I cannot be diluted with water, but ond can use one-fourth carbolineum to three-fourths distillate, or, if the added cost is not considered, ordinary kerosene may replace the distillate. Apply the mixture with a spray pump having an agitator. Use a nozzle giving a very fine spray and consid-erable force in applying so that the liquid is driven into every rough surface and every check or crack in the wood. Two gallons of the mixture should cover thoroughly a 10 by 12 house, at a cost of material not to exceed \$1.

Crude carbolic acid costs about 35c per quart. One quart with two and a half gallons of lime should make whitewash enough to spray a 10 by 12 building. Neither air-slaked lime nor whitewash will eradicate mites. If whitewash is put on boiling hot, the heat may accomplish the result, but lime alone is not death to mites. The second spray suggested is not, therefore, as effective as the first.

# Using Zenoleum.

A third spray material highly rec-ommended is Zenoleum, which costs about 40c per quart. Use about one pint of Zenoleum to two gallons of water. Since Zinoleum is so readily soluble in water, it is not as last ing in effect as the crude creosote or carbolineum. It is, however, much easier to apply. It is perfectly harmless to the operator and to the feet or feathers of the fowls coming in contact with it. The carbolineum, on the other hand, is very irritating to the nose, eyes and throat while spraying, and if it comes in contact with the plumage of the fowls is diswith the plumage of the fowls it dis-colors them, which discoloration will not be lost until the next molt.

Crude creosote at about 30c per Carbolic acid or any other disinted gallon, mixed with one gallon of distillate at about 12c per gallon makes a very cheap and effective spray. To clean up a badly mite-infested ochre and a small quantity of fre-building 10 by 12 To clean up a badly mite-infested building 10 by 12, proceed as fol-lows: Sweep and dust thoroughly, first removing everything removable.

**Operating Plan of Cow.** Testing Association

GROUP of dairy farmers, must A not over 26 in number, get is gether, elect officers and organists the purpose of improving their less by means of weighing and testing b milk from each cow, keeping feed at production records in a system way and working co-operatively a improve the dairy interests of the locality.

They employ a tester, reconnect ed by an agricultural college, sim duty is to visit each herd one days month. He usually arrives is the afternoon, weighs the hay and gu fed that night or estimates the man of the pasture or feed used, with the milk from each cow night at morning and tests it for butter to All records are carefully kept at profits and loss on each coving month thus arrived at, so that h the end of the year or possibly see er, the records will show whether cow is profitable or not, whether is should be kept as a producer at breeder or sold to the butcher. The cost of operating such assess

tions usually is from \$1 to fill per cow annually, with a minimum charge of \$10 a herd where the bei is small. This money is paid to be treasurer of the association in sec. annual or quarterly instilments in a vance, and is used to pay the term salary and any incidental expense Each member also agrees to fund board and lodging for the tester as day a month and to convey him wh next place of work. The tester is has his board and lodging over in day at the place where he works urday.

From 350 to 450 cows are new sary to profitably carry on such a association, and each member an his share of the cost as determine by the number of cows set opposi his name when he signs the spe ment.—A. J. Lashbrook, Dairy Pa Agent, United States Department Agriculture and Washington Sas College.

hot water to this mixture, stir w and let stand for a few days, 20 put it on hot. To this mixture as put it on hot. be added two pints of carbolic at which will make it a better dis fectant. One pint of the mixture w cover one square yard if properly p plied.

## Thoroughness.

If the mixture is not thorough stirred as you use it, it will get the er and thicker and it will be seen sary to thin it by adding more mil

A page of interesting items from the Oregon Agricultural College at Corvailis will alternate in the farm weekly with a page of news notes from the Washington State College at Pullman. This will afford an in-terchange of views from the two big agricultural colleges of the Northwest that should prove of benefit to the readed for the institutions deal with similar problems.

Scrub with pearline and water; paint the roosts and supports for the roosts with heated Carbolineum, cost not to exceed 25c. Next, spray the nests and every other bit of woodwork that harbors vermin or might do so, with crude creosote and distillate, one gallon of each to the mixture, cost about 40c. If there were no mites on the

The recipe for Government white-ash, which is the most permanent that can be made, is reprinted here: One-half bushel of unslaked lime slaked with warm water. Cover dur-ing the process to keep in the steam. Strain the liquid through a fine sleve Add a peck of salt previously well-dissolved in warm water; three pounds of ground rice boiled to a thin paste; and finally stir in boiling

sian blue. Six hours after applies this paint will be dry. It is ges lasting even in bad weather for a side work.

In conclusion it might be point out that for the extermination a both lice and mites there is a priety of methods. The vital this is thoroughness and care in the plication of the material used and B repetition of the process at such a tervals as will kill the newly hash walls, or on the floors, and one was sure of this, whitewash would make a good spray for them. **Government Whitewash.** The recipe for Government white-wash, which is the most permanent

During the past two years im officers have killed nearly \$900 mi atory animals, more than the fourths of which were coyotes.

Absolutely Free