The Weekly Monitor and Western Annapolis Sentinel, Bridgetown, N. S., September 6, 1916

## Our Poultry Corner

If you have some things you do not understand in connection with your poultry and want some information, state your case briefly and to the point, writing on one side of paper only, and address it to THE MONITOR PUB-LISHING COMPANY LIMITED, we will submit it to Prof. Landry, and when his answers are seceived we will publish them withholding your name if you so (By Charles Brooks and D. F. Fisher ally a storage trouble, and therefore desire it.

## **OUESTION BOX**

HENS MAVE THROAT TROUBLE

Outram Annapolis Co This is not the case with the gable Aug. 10, 1916. roof, straw loft house. The arrange-

To Editor of Poultry Corner:

Answer

K. J. Banks, Esq. Outram, N. S.

Dear Sir:-Your fowls may be sufis causing irritation in the throat. Open the fowls' mouth and for the same area of floor space. or a pair of small scissors.

which has been attached to a split openings.

## The Orchard

SPOT DISEASE OF THE APPLE, at all than upon that which had re-CAUSING MUCH GENERAL ceived the heaviest application of lead arsenate. The disease is of a CONFUSION physiological nature, and is essenti-U. S. Department of Agriculture.) is not controlled by spraying. It is

greatly reduced by hastening the same type of ceiling. We find that There is so much confusion in re- fruit to cold storage. Our experia shed roof house is inclined to be gard to the nature, cause and methods ments with this disease seem to indidamp and too cold in the winter time of treatment of the various spot dis- cate that factors similar to these inand also too hot in the summer time. eases of the apple that it has seemed volved in the cause and control of

desirable to present a progress re- bitter pit are closely paralleled in the wasted, so far as results on bitter pit trolled by spraying. Stigmonose is of Office in Bear River open Saturday port of our studies of these diseases. case of Jonathan spot. These will were concerned, because experiments common occurence, has been much While we still have very much to learn be taken up in more detail in tha were outlined for this disease and confused with true bitter pit, and can Money to loan Real Estate Real ment in the south side is four by four I have hens that have a curtains and the same sized windows about these various troubles, it is consideration of bitter pit. Jonathan carried out in orchards which it had be controlled by controlling the suckdisease I would like to find out placed alternately the entire length hoped that what we have already spot does not seem to be a desirable been reported to us were badly affect- ing insects. The control of corky pit about. At first the hen acts as though of the house. The windows are stat- found out may prove of value to the name for this trouble, since it implies ed with bitter pit, but which we later or drouth spotting should be attemptshe had something in her throat, ionary, and the curtains are hinged at horticulturist and help him to distinsqueals. Later we thought she was the top and swing inwards and up- guish between the different diseases, to the Jonathan variety, whereas and not true bitter pit. Within the last and maintaining a uniform water suptrying to crow. It seems to be in the wards. The curtains are opened up that he may shape his control mea- Spitzenberg, Yellow Newton and other year in certain orchard sections of ply. True bitter pit can be greatly rethroat. I gave her salts, sulphur, and on bright sunshiny days, if the tem-throat. I gave her salts, sulphur, and on bright sunshiny days, if the tem-sures accordingly. The disease varieties are often as badly affected. kept her bowels healthy. One hen's perature is not lower than zero, or a known as bitter pit is referred to In the interest of clearness it would other varieties have been so badly ion water, that is, by avoiding exceshead turned pale, the other didn't. little lower probably. We like to have under various names. The Germans be desirable to eliminate, if we could affected with stigmonose that the second affected with

K. J. BANKS. the curtains open during such days were the first to describe this dis- the name of any particular variety owners, thinking they had some phyfor an hour or so at the time when ease and called it "stippin." This of fruit from the names of the diseas- siological trouble, were planning to to cold storage the sun is warmest. By this method of name is now in quite common use in es. The term "freckles" has been ap- either top work their trees or cut

ventilation we keep the temperature New York State. In the United Stat- plied to Jonathan spot, but it has not them out, as they despaired of ever in the house almost uniform through- es the disease was first referred to as come into general use, so it will per- controlling the disease. Upon exam- HARVESTING

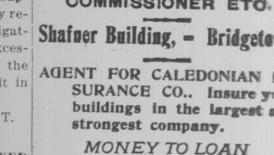
out the twenty-four hours. We recom- Baldwin Spot, since the Baldwin was haps be best to adhere to the com- ination it was found that the disease mend about one square foot of curtain found particularly susceptible to it in monly accepted name of the disease. was not bitter pit but a bad case of . fering from some foreign substance for every square foot of floor space New England. This name was first A great deal more confusion has stigmonose. While the bitter pit and

and also the same amount of glass used in Vermont and is in quite arisen in regard to the other diseases stigmonose are so much alike in ap-Truro, N. S general use throughout the country. mentioned above: the true bitter pit, pearance the manner of controy is The most important consideration in look down the throat for the cause of We recommend houses from twelve The disease has been referred to in the corky pit or drouth spot, and the entirely different. Stigmonose is due harvesting the clover seed crop either the irritation, which may be remov-to sixteen feet wide, but prefer a New Hampshire and Oregon publicat-stigmonose. These troubles resemble to sucking insects. Its occurrence runs from the first or second growth is ed by use of a small pair of pliers fourteen foot house and the height ions as "fruit pit." In England, one another very closely in some parallel with that of the aphids, par- that the major portion of the crop

from the sill to the plate to be six South Africa and Australia the dis- cases. The true bitter pit appears on ticularly the rosy apple aphis. It is should be ripe. This can be ascertain-If the fowls are suffering from feet clear. The windows and curtain ease is known as "bitter pit." This mature, or nearly mature fruit, either sometimes found on the small gnarl- ed by the flower head being almost roup, use a syringe and disinfect the frames are placed about eighteen term has also been quite generally on the tree or in storage. When found ed apples on the inside limbs of the black, and may be further tested by Money to loan on first-class throat with a weak solution of car- inches from the sill, thus bringing used in the correspondence of the on the surface it causes hemispheri- tree, which have been damaged by shelling out a few heads in one's bolic acid (1% solution) twice each them within six inches of the plate. U. S. Department of Agriculture. The cal depressions, usually rather cir- the early attacks of the rosy aphis. hands and observing the stage of day. Clean out all puss from the We guard against running down the term "pit" seems much better suited cular and uniform in shape. Beneath but it also occurs on other apples maturity of the seed.

nostrils with a little wooden spirtula eve trough too far to obstruct the sun- to describe the disease than that of the skin brown dry spots are found, which are near these, as well as. The harvesting is best accomplishand use the syringe in the nostrils. light from shining in the pens "spot," since it is set off from a and this brown tissue may extend those in other parts of the tree, and ed with the self-rake reaper, though a Wash the throat with cotton wadding through the windows and curtain number of fruit spots by a definite down through the flesh of the apple to which the aphids spread later in binder with the twine removed pitting or depression of the apple sur- along the conducting vessels, giving the season. It has to be controlled by answers equally well. A mower and

stick and dipped in a little peroxide The length of the house will depend face. It also seems desirable to the flesh a streaked appearance. Pits controlling the suckling insects. In horse rake are occasionally used, and of hydrogen. This disinfecting should of course, upon the number of hens eliminate the word "Baldwin" since may also be found at a depth in the order to carry out bitter pit experibe done twice or three times during in the flock. We allow from four to to use it conveys the impression that flesh when there is no outward indi-



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vented or at least delayed in appearince, by prompt cooling. This report final statement on the subject, as there is vet much to be found out, but there are things of practical importance that can be definitely stated. The fungus fruit spot of the East J.M. Owen K.C. Daniel Owen L.L. does not occur in Washington, and sprayings for spot and pit troubles are unnecessary. Jonathan spot is a skin disease of a physiological nature. It appears most often after the fruit

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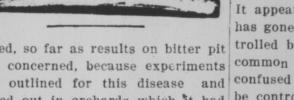
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THE VENTILATION OF POUL-TRY HOUSES

The importance of maintaining a dry atmosphere in poultry houses is recognized by all authorities and successful poultrymen. In view of its importance, and the constant development of the poultry industry, there has been here brought together the views and experiences of the chief poultrymen at a number of the Canadian agricultural colleges and schools.

COLLEGE

try Husbandry)

(Continued from last issue.)

not worth spending much more time should not be more than fourteen Northern Spy, Yellow Bellflower and calyx end of the apple.

have a solid partition every twenty largely under control by spraying, in the growth of the apple, but usual- in one of our experimental orchards, in bunches.

tains at each end at one time.

commend one thickness of building way to get definite data. paper on the outside of the studding Secondly there has been a great severe drouth. In every case since in its control. In our experiments on The Clover Huller is the one sat-

(By M. C. Herner, Professors of Poul- roosting quarters we have a drop nature, cause and means of control. ed on suddenly after the drouth, but medium or light watering. curtain coming down in front of the This makes any general statement in later observations have shown that The following data, showing the Truro, Colchester County, Bridgewater,

temperature goes lower than 10 be- value unless there is a careful de- again resumed. There is no question been obtained in experiments of the In connection with the ventilation low zero outside. These roosting scription given of the trouble under but that a sudden shortage of water past year on Grimes variety, counts River John to Tatamagouche in of poultry houses in this province we chambers are ventilated through the discussion. Among these similar spots is the direct cause of the spots. It is being made twelve days after pick-

have found the use of the curtain on straw in the loft and also through a are the "Fruit Spot," "Jonathan probable that the character of the ing the south side and the straw loft with small opening between the joists at Spot," "Stigmonose," true bitter pit, soil may have a modifying influence. Heavily watered through the the slatted ceiling to be the most each end of the chamber. satisfactory method of ventilating a While the shed roof is considerably spot." The fruit spot is characterised saps, although Staymans and Ben Medium supply of water throughpoultry house. The gable roof house cheaper than the gable roof house by hard, sunken, green or red spots Davis are often affected. Varieties has given better satisfaction than the here described, still for an all round with numeous black specks scattered other than these have been subjected Medium supply of water until shed roof and we recommend the satisfactory house for this country over the sunken area. It is a fungus to the same circumstances and the former for Western conditions. The we cannot recommend the shed roof disease and is really controlled by fruit reduced to a decidedly shriveled Lightly watered throughout the volume of air in the house in propor- house as being equal to gable roof for spraying with fungicides. It has condition without those spots appear-

tion to the surface exposed to out- the reason aforementioned. I do not never been reported west of the ing. In the East the Ben Davis seems After six weeks in cellar storage Minard's Liniment for sale everyside weather conditions is greater think that there is any system of Rocky Mountains and so far as Wash- to have suffered more than other the amount of disease (bitter pit) had where. than that in the shed roof house, and ventilation that can be installed in a ington State is concerned, the dis- varieties from this trouble. The increased to the following percenbesides in these gable roof, straw loft poultry house that will be as satisfac- ease can be left out of consideration. best remedy that can be offered with poultry houses there are practically tory as the one described for the In spite of the fact, some of the our present knowledge is that of uni-Heavily watered throughout the two distinct volumes of air, that is, gable roof house. The idea is to pre- orchardists in the West have carried form watering. There is another form the one below the ceiling in the pens vent the house from heating up dur-on extensive spraying work for the of corky pit that occurs on shallow Medium supply of water throughand that above the ceiling in the ing the day time. This can be done by control of bitter pit, following up soils in some sections of the East and loft. We use about two feet of straw having the ventilation system as here the Eastern directions for fruit spot West. It is common where there is Medium supply of water until Aug. on the slatted ceiling. The slats described. In the shed roof house and thinking they were fighting the hardpan at a slight depth, and also

should be four inches wide and may there is a tendency for the house to same disease. be placed from four to six inches be warmed up during the day time, Jonathan spot is the name applied cropping. This disease is quite generapart. With two feet of straw on top and the moisture holding powers be- to very shallow black or brown spots ally associated with rosette. The

of the ceiling there is a gradual in. coming increased considerably. At in the skin of the apple. In late remedys that have been suggested are These results are graphically preterchange of air going on, and in ad- night time the air cools off, the water stages the spots may become sunken such as tile drainage, blasting and sented on the accompanying chart, dition to this interchange of air, the holding capacity decreases, and, of and part of the adjacent flesh in- turning under cover crops. straw helps to absorb the moisture. necessity, the moisture will congeal volved. Various fungi may gain en- Stigmonose is a term used to refer in per cent of soil saturation as de-In our long house we have a ventila- on the walls and on the litter on the trance and hasten the enlargement to insect injuries to plants. It is used termined by frequent tests throughtor sixteen inches in diameter coming floor, thus causing what is claimed of the spots. In the West the disease here to refer to the effects produced out the summer. It might be noted through the peak of the roof about a as a damp, cold poultry house, and is not generally confused with bitter on apples by sucking insects. The in a consideration of the above figurfoot and entirely open at the bottom, one which is entirely unsatisfactory pit. In some quarters it has been at- gross characteristics of stigmonose es that the results were obtained In the winter time we put a bran bag for this climate. over this opening to prevent too We have not done any experiment- but this theory of the cause of the The spots, however, are more irregular ceptible variety. Practically the same

one week. If the fowls do not show six square feet of floor space for each the disease might be confined to the cation of their presence. The pitting we have found it necessary to spray Nova Scotia are not very large, we improvement after one week they are bird. I think a house for fifty hens Baldwin variety whereas the Grimes, is generally confined to the lower or our experimental trees for the control would strongly recommend the use of of aphids. This control was accom- the hand rake to gather the clover up or expense on, and the badly affected feet. I consider sixteen feet almost other varieties are just as susceptible. The corky pit or drouth spot usual- plished this past season through the into bunches. A table attachment for had best be killed and buried or too wide for our Western conditions as the Baldwin. This disease has re- ly has a fairly large area of dead co-operation of Mr. E. J. Newcomer the mowing machine can be had from burned. Keep all the healthy fowls in in that the house is inclined to be ceived more attention in recent years brown tissue. These spots may be of the Bureau of Entomology, who manufacturers, which is quite satisa dry warm place, and give good at- somewhat dark during the short than formerly, partly because the near the surface or at a considerable has been associated with us in the factory when followed by a man with Sept. 30, 1914-t. f. teation to the proper feed, and clear, winter days, if it is too wide. We other diseases have been brought depth. They may appear at any stage stigmonose experiments. We found a hand rake who takes the swath off

J. P. L. feet in order to break any draught partly because there is a greater de- ly become more evident later in the where rosy aphis was particularly In any case the bunches must be that might occur by opening the cur- mand for high grade fruit of good season. At first they are large, ir- abundant, that spraying with Black frequently turned to attain quick drykeeping quality and partly because the regular shaped, water-soaked spots, Leaf 40, diluted 1-1000 plus-lime sul- ing. The turning of the bunches should In connection with the walls of the methods adopted for producing extra often stained a reddish color and phur testing four degrees Beaume, and be done while they are still damp with house we recommend four-inch stud- fancy apples tend to increase rather usually covered with drops of a applied just as the terminal buds dew to prevent shattering of the seed. Office:-Queen Street, Bridgetown, ding in order to get a dead air space. than decrease this particular trouble. yellowish, sticky ooze which is sweet- were becoming green, reduced the Threshing can be accomplished by Hours:--8 to 5. On the inside we prefer one thickness It has been extremely difficult to ish to the taste. In late stages of the amount of stigmonose from 16 to less means of the ordinary threshing mill of building paper and tongued and find out the cause of the disease. In disease the fruit is much misshapen, than 1 per cent. True bitter pit does by closing up a portion of the feed grooved lumber nailed on the stud- the first place it is of physiological the spots become very hard and not usually appear until the fruit is space, and also back of the cylinder ding on top of this paper. On the nature, and its occurence is determin- sunken, while the flesh is brown and nearly mature, and often developes in with strips of board, thus causing the outside ordinary siding would be ed by the general condition of the corky like an old bruise. In 1913 storage, particularly where improper hay to pass through more slowly. quite satisfactory unless the poultry tree and fruit, and such general fac. this disease was first produced ex- methods are used. It is worse on large However, this method only secures a house is very exposed, when we re- tors as these are hard control in a perimentally at Wenatchee by sub- apples and on fruit from young trees. portion of the seed and even then it jecting Winesaps to a sudden and Irritation is a very important factor is in none too clean a condition.

as well, and the siding nailed on top deal of confusion in regard to the observed it has been found that this the disease it has been found that isfactory means of threshing clover. of this. The south side does not re- disease because there are a number condition prevailed before the ap- heavily watered trees, particularly During the coming winter it is plann-THE MANITOBA AGRICULTURAL quire this extra thickness of paper. I of very similar spots that have been pearance of the trouble. It was at those watered late in the season, have ed to place the Cover Huller, owned believe in fresh air and lots of it. referred under the above names, first thought that these spots might a much greater percentage of dis-believe in fresh air and lots of it. referred under the above names, first thought that these spots might a much greater percentage of dis-In order to provide comfortable but which differ from one another in possibly be due to water being turn- eased fruit than those receiving Agriculture at Berwick, Kings County,

roosts at night time whenever the regard to the disease of questionable they developed before irrigation was percentage of bitter pit present, has Lunenburg County, Antigonish, Anti- to all parts of the country. Office and

and corky pit, or so called "drouth The disease is most common on Wine- season ...... 45-% Aug. 1, then heavily watered,49% lege, Truro, N. S.

season .. .... 14%

season .... 73% out the season .... ..... 54 % 1. then heavily watered ..... 81 % where there are peculiar soils out- Lightly watered throughout sea-

son ..... 40 %

where the soil moisture is expressed tributed to arsenical spray injury, are very similar to those of bitter pit. from five years old trees of a very susrapid a circulation of air but in the al work or any special investigation trouble has been definitely disproved in size and outline than those of bitter contrasts were obtained in another

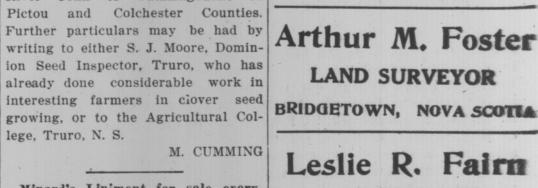
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LAWYER

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summer time this is open entirely, work in connection with ventilation, by the extensive spraying experiments pit, and instead of having a rather similar experiment using Jonathans and gives us almost ideal ventilation. except what observations we have that the Department of Agriculture smooth hemispherical depression of instead of Grimes. Our results in this In place of this ventilator for a made in comparing these two types conducted in the State of Delaware the skin the stigmonose is usually a case differed from the above only in house 30 feet long and 14 feet wide of houses in our every day poultry in 1910 and 1911. Blocks of Jona- roughened and irregular depression. the relative smaller amount of disease we recommend openings about a foot work, the results of which are as thans were spraying with different It appears earlier in the season than occasioned by the differing susceptiamounts of Lead Arsenate to see if bitter pit and is usually found parti- bilities of the varieties. The productsquare in the peak of each of the above outlined. the prevalence of the disease could cularly abundant on those branches ion of Jonathan spot, so far as has

gable ends of the house and a curtain frame fitted into this. This system Unless you are raising a particular be correlated with the amount of where aphids are of most common oc- been thus far determined, closely works out to good advantage in the stock of chickens of which you have lead arsenate used in the spray. Data curence. It is not confined to the parallels that of bitter pit in these winter season, and in the summer the only a few hens you cannot afford was secured on the disease both at middle or calyx end of the apple, as experiments. It is evident that bitter frames can be taken out entirely. to keep the old hens as layers. A hen the time of picking and after several is usually the case with true bitter pit can be largely reduced in irrigat-A house for fifty hens can be built is not profitable after her third sum- weeks in storage. No correlation pit. It also differs from bitter pit in ion sections by the proper handling on a similiar plan, making it probab, mer as a layer. Selling the old hens whatever could be found between the that it is not found deep in the flesh of the irrigation water. There are Furnace and Stove Repairs ly only twelve feet wide and twenty and using the incubator for hatching arsenate of lead and the disease. In and that there is no streaking be- other factors concerned, however, but feet long, with the same system of is the best plan for the small poultry many cases there was more disease neath the spots. Our first years work our experiments do not justify a reon fruit which had not been sprayed in Washington State was practically port on these at the present time. In TELEPHONE, NO 3-2 curtain on the south side and the man.



