FEED WELL IN **MOLT SEASON**

Forcing Molt Stops Egg Production Without Early Resumption.

DO NOT OPPOSE NATURE

Growth of Feathers Calls for Plentiful Supply of Protein-Fat Gives Feathers Gloss.

Scarlely anything on the farm is more distressing to view than a lot of hens going into cold weather without enough feathers to keep them warm. It is much like a man wearing a palm beach suit with snow on the ground. and trying to seem unconcerned about it, or the chap who leaves off his overcoat in zero weather to harden himself-so he says.

Forcing the Molt Unwise.

But there doesn't seem to be any help for the unhappy poultry minus their winter clothing. Much was said a few years ago about forcing the molting of hens, controlling it, and so arranging things generally that the hen would get back on the job of laying eggs with less delay. An experienced New York poultryman declared he had solved the problem by cutting down very materially the hens' rations for several days. This was followed by heavier feeding than ordinarily. The menu, or the lack of it, stopped laying, and often resulted in molting at once.

The results were not so satisfactory as had been hoped. In many cases the hens did not finish the molt much, a if any, quicker than if they had been stopped permanently. Obviously, this ready." wouldn't do.

One of the chief attractions of poultry raising is a constant supply of early do the job slowly, and are the eggs, let the feathers fall when they poorer layers of the flock, while those may. So it is not advisable for any- that molt late get through with it one to try systems that work in con- quickly, and are about the best layers. flict with Nature, who seems to have Usually it takes three or four months



year when the census was taken:

way of her own in such things. Feathers were intended to come of CLUB GIRLS FAIR let alone. It didn't seem possible by about once a year-the hen being this means to control the time at more or less feminine after all. "It which the hens could be brought back is dinstinctly unwise," says a governto laying. Egg production could be ment expert, "to attempt to force the stopped all right, but it couldn't be re- molt. It is well to let hens lay as long sumed any earlier than usual, and as they are in the mood to do it, and sometimes it looked as if it had been then to let them molt when they get

> New Feathers Taxes Energy. As a rule, hens that begin to molt

other purebreds in the state of Wash- 560, of which number the beef breeds breed of which is not reported. The grade Holsteins will be more common ington. The above is a bunch of pure make up 5,840, while the dairy breeds Holstein-Friesians have the same po- in a few years than scrub stock, a breds belonging to George Cotton of are in great majority with 12,720. Of the beef breeds the Shorthorns are The census bureau has sent out the more than one-half the total number. following as to the number of pure being 3.381, with Polled Durham sec-

EXHIBIT UNIQUE

South Bay Canning Club to Serve

Canned Geoduck to

Public.

One of the unique features which

will be seen at the Interstate Fair at

Spokane next week will be the demon-

stration in canning, conducted by the

South Bay Canning club of Thurston

county. The girls will show to the vis-

itors at the fair how to can and pre-

pare for the table the delicious bi-

are not like other ducks and swim on

the water or fly in the air, but they

bury themselves from two to four feet

There are more Holsteins than any The purebred cattle constitute 18, bloods, with the exception of 353, the On this showing the prospect is that sition among the dairy breeds that consummation devoutly to be wished. the Shorthorns have in the beef Jerseys are in second rank to the Holbreeds, having a majority over all. steins, with 3,402. Guernseys follow

bred cattle found in the state last ond, 1,202, Hereford and Aberdeen There are 7,637 pure blood Holsteins next with 941, then Ayrshires and Angus make up the rest of the pure in this state, of which males are 2,607. Brown Swiss in the order named. clam and dig the mud and sand out of NO ADVANTAGE IN the casing, thus freeing the clam.

The South Bay Canning club of Thurston county have made a specialty in canning all kinds of sea food, such as rock clams, butter clams, geoducks, trout, salmon, flounders and all kinds of sea food. They will have a goodly supply of the famous geoduck on hand and will serve it fried, in chowder and made into patties, to be given to the public. The girls are shipping over an exhibit of one hundred quarts of fruits and sea foods

There are six girls in the club, Ruth is sought. The subject is one in which Haydeen, Gladys Taylor, Ruth Adair, Western Washington, with its large Margaret Haydeen, Mary Bennett and dairy interests, is especially con-Ester Madden, and each of these girls have canned over two hundred quarts manufacturers of milk products. It is of food so far this year. One of the a controversy in which the outsider is valve, the geoduck. These rare ducks remarkable facts about the club is interested because he must play the that four of the girls have been in club role of consumer. Apparently there work for five years. Ruth Haydeen of us believe that this artificial milk deep in the oozy mud of Puget Sound, and Gladys Taylor are to be at the Inand can only be obtained at extreme terstate Fair to contest for interstate those extracted from coconuts — will low tide. In digging these clams it is championships in canning, while Ruth work the havor to the dairy industry. necessary to treach around the place Adair and Margaret Haydeen won out that is pictured, neither do we regard where the neck appears above the sur- in the district contests held at the it as the ideal economic product, avoidface of the beach so the water will not | Southwest Washington Fair last week | ing waste and meaning a healthful run into the hole. Then they are dug and will try out for state championfood at a much cheaper price than

not to disturb the clam. When down Financial aid to send the team to to within about the bottom of the Spokane has been secured through the shell, the shovel is placed under the efforts of the Olympia Chamber of clam and the geoduck is pulled out. Commerce and the Thurston county Another method is to sink a casing farm bureau. A special drive was conabout two and one-half feet in diamducted in Olympia for this purpose eter and three feet deep around the and the show windows of a prominent merchant were given over to display ing the club's canned products. Will-A few are all through in two months. iam Dunham, county club agent for produced before. Thurston county, says it is one of the didn't like to attract attention, while most unique exhibits and demonstraothers drop all the feathers they have, tions ever conducted, and the business or nearly all, at one time, and go men of the county are behind the move about almost naked, with no regard to see that one of the natural re-This is because the growth of a new the same canning team produces a state championship team as well as another contestant for state honors. upon the body that it is out of the question for egg production to con-

HELPFUL HOUSEHOLD HINTS

Any undesirable odors coming from glass bottles or earthen vessels can easily be remedied by filling them up with cold water in which soda has been dissolved.

Finely chopped parsley added to canned peas and string beans before heating will improve the flavor.

Some farmers may think it a waste of time to treat their grain for smut, but experience shows differently.



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Heretofore rock phosphate has been mined in the United States almost exclusively in Florida and Tennessee Little of this supply has found its way to the Northwest because the sup ply was too limited and because of high freight rates. South Idaho has some phosphate beds, but their output is consumed by the farmers of south ern Idaho and Utah.

"The phosphate beds of southern Florida and Tennessee have up to the present supplied about 52 per cent of the world's output. It is said that those beds are becoming depleted.

"The Montana Phosphate company's holdings are said to be twice as large as those of the famous Ocean island beds, which were sold for a song to the English government because, as a writer in Leslie's magazine puts it 'the owners of the island were asleep on their own gold mine.' Today Ocean island is valued at millions of dollars. The resources of the Ocean island beds are estimated at 35,000,000 long tons; the resources in the Montana Phosphate company's beds are estimated by geological experts to be more than 70,000,000 long tons.

"The big vein in these holdings runs from a point northeast of Maxville to a point southwest of Phillipsburg, a distance of 12 miles.

Report Great Tonnage.

the producers and on the other the "The government survey engineers and other engineers of note estimat the tonnage in these beds to be ap proximately 70,000,000 long tons above water level, and the deposits are believed to extend at least 1500 feet below water level. Adjoining these beds is a mountain containing millions of tons of the highest grade of time. Several bulletins have been gotten out by the United States geological survey department on the exent and value of these fields

"The analysis shows an average of 60 per cent tricalcium phosphate, an unusually high grade.

Used in Illinois.

"Due to the advice and teaching of Dr. Cyril G. Hopkins, one of the world's greatest authorities on the care of the soil and one of the founders of the famous government experimental agricultural college at Champaign, Ill., the farmers of that state, where land sells for \$400 to \$800 an acre, are using hundreds of thousands of tons of rock phosphate and ground lime. Last year alone Illinois used more than 300,000 tons of ground lime and 150,000 tons of rock phosphate.

"Frank I. Mann of Gilman, Ill., says he increased the production of wheat on his land from 20 to 63 bushels an acre and oats and corn from 35 to 100 bushels an acre by the use of rock phosphate.

There are a lot of farmers who have taken their sons into business as part ners instead of hired men.



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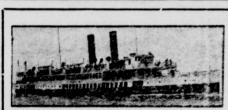


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to complete the process of molting. Some go at it gradually, as if they for the proprieties. And while this is sources of Olympia is given the proper going on the hens lay few or no eggs. amount of attention. It is rare that coat of feathers makes such a demand

tinue in any large degree. The growth of feathers, like all other growth, calls for a plentiful supply of protein in the ration. Most poultry raisers, however, make no effort to feed a special ration at molting time, but continue to give the laying ration which the hens have been getting right along. This is good practice because a laying ration contains protein which goes into the forming of feathers, since egg production practically ceased when the molt begins. Still, some poultrymen like to be sure there is a liberal supply of protein available for the hens during the molting period, and this is achieved by feeding beef scrap in a hopper where they can help themselves, a sort of hen cafeteria. With many farm flocks, where little or no attention is given to feeding the hens any animal feed, their rustling ability being relied upon to supply this in the shape of bugs and worms, and where the hens may not during the molting period be getting enough animal feed to promote quicker growth of feathers, it is good practice to feed beef scrap in the way described. Milk is

also an excellent feed at this time. Sunflower Seed in Favor.

Rations which contain a high percentage of fat have a tendency to give the feathers a high gloss. Sunflower seed, because of its fat content, is in favor among some poultrymen as a feed during the molting period, especially with birds which they wish to get into the best condition for exhibition.

MILK SUBSTITUTES Artificial Milk Does Not Utilize Waste-But Little

Cheaper.

The discussion for and against "ar-

tificial milk" has been transferred to

congress where legislation against it

cerned. On one side of the issue are

that demanded for whole milk

A Seattle newspaper declares this

artificial milk a most beneficial thing

because it utilizes skimmed milk that

otherwise would be used for hog feed

or would go to waste and because it

reaches markets canned milk cannot

supply and because it is much cheap-

er; that it is a very excellent thing to

have two foods where but one was

But the dairymen come back with

the assertion that artificial milk is sold

for only about a cent a can cheaper

than whole milk and that it does not

We're hardly prepared at this stage

to indorse synthetic foods no matter

how correctly they may be built up;

maybe, when our population becomes

denser and we have less idle land, the

chemist can have his turn and the

product of his skill be termed a bless-

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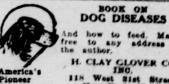
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