Crate of Royal Purple Raspberries photographed in August. two weeks later than Columbian or any other raspberry. This is a good **Saapberry** to plant for late berries.

siderable loss.

(By M. M. EASTMAN.)

When the harvest is completed, cul- rolling land, may be the source of contivation of bush fruits should cease. The sowing of some cover crop with the last cultivation is a most excellent work this vegetative growth now dead practice.

a cover crop are manifold.

have made a study of soil physics that when left unprotected by a growth of some kind there is a loss both in plant food and in the humus content of such soil.

Hence in so far as is practicable evidence. the wise husbandman will keep his and covered with a growth of some

It is not practical to keep a gover crop growing among small fruits through spring and early summer, for the best interests of such fruits reguires intensive cultivation through this period of their growth, but with the fruiting season over such necesulty ceases.

Unless drought conditions are unusually severe there will be a sufficient amount of moisture in the soil of a bush fruit plantation that has received intensive cultivation throughunder ordinary conditions of fall pre- of the growth made. cipitation such grains will attain coniderable growth.

The protection afforded by such a with most growers work is not growth prevents leaching of intrates. that are continually being evolved through dentrification processes constantly in operation among soil

of soil by fall, winter and early spring source.

agencies.

#### **O**UEEN BEE AND HOW TO FIND HER

Her Nourishment Being Supplied by Workers.

(By F. G. HERMAN.)

workers. The queen is the most important bee in the hive. She is the egg-layer, and as such is the mother full years' work, and the great maare workers, drones or queens. Only hatch in the early part of the season, stances, found in a hive, but occasion- does much breeding, is aged and very ally two-mother and daughter-are uncertain her third year. Hatched in for a time living together. The queen's mid or late summer she will complete sole duty being to lay eggs she has that year, all the next, and make a no other cares to claim her attention, good colony for the next honey season in fact she does not even attend to after that, when she ought to be suher own food supply. The nourish- perseded. Do not expect a queen to ment needed to keep up the extraor- do more than two hard summers' dinary egg-laying power she posses- service. Many will be good for longses, is supplied by the worker-bees er, but not enough to make it profitwhich are for the first fortnight of able to risk keeping longer.

honey bee by one-third, and somewhat another time. longer than a drone, but not quite so his around. The queen is treated usually be found at least on the third with the greatest respect and affect or fourth frame taken out of the hive. tion by the bees. A circle of her off- A practical beekeeper will first pull suring often surround her, testifying out the center frame, and look for in various ways their dutiful regard, freshly layed eggs. Falling to find and all politely backing out of her from another portion of the brood-Mr. to give her a clear path when nest. If he finds the eggs, then he he moves over the combs. So strong has reasonable assurance that the the feeling of the worker for the gneen is somewhere in this part of

rains, which, in cases of even slightly

The first spring cultivation will and partially decayed into the soil.

Oats and peas, either separate or Through the processes of decompoin combination, answer this purpose sition the supply of soil humus is thus dmirably. The benefits derived from replenished, and soil agencies liberate the plant food used in making this The greatest of these benefits, per- growth, when it is at once taken up haps, comes in the protection afford- by the roots of the fruit plants and ed by the growth to the surface of the used in the growth and development of the various parts of such plants It is well known among those who which at this season are in an exceedingly high state of activity.

The growth of grain presents a very pleasing picture to the eye throughout the fall season, during which time there is usually not much verdure in

To the one possessing an aesthetic nature this alone will be ample recompensation for the expense in-

As soon as the fruiting season over, it is usually advisable to remove the canes just fruited and burn them.

Where there are fungous diseases to contend with the need of this becomes imperative. After this growth has been removed the young canes should be thoroughly sprayed with the Bordeaux mixture. A month later another application should be made.

When the canes have so far ripened that the leaves begin to drop, the out the spring and summer to start a growth of young canes may be revigorous growth of oats or peas, and duced by cutting away about one-third

Fall pruning has no advantage over spring pruning, perhaps, except that pressing at that season as in the

Then, too, where there is loss caused by breaking of canes from high winds and deep snows fall prun-Such growth also prevents washing ing may lessen injury from this

sion. At the beginning of the season the queen lays eggs in the workers' cells. She walks over the combs, puts her head into each open cell as she comes to it as though to discover whether it is occupied or is in fit con-It is Her Sole Duty to Lay Eggs, dition to receive an egg. I have looked into an observatory hive for hours and watched how faithfully she goes about her work. The queen only stings other queens, and seeks only to kill her rivals. She may be hand- night, In every colony of bees, whether it led to any extent without fear of bebe located in skep, the hollow of a ing stung. She has also great tenatree, or in a modern hive, there will be city of life as well as longevity. She found at some time of the year three | will often continue alive in conditions kinds of bees queen, drones and that have proved fatal to the workers confined with her.

Well-bred queens are good for two of the bees in the hive, whether they jority for the third year. A queen one queen is, under ordinary circum- so that the year of her hatching she

their existence what may be termed. There are no sure rules for finding nurse-bees. If a comb be taken out of a queen. It is somewhat a matter of a movable hive quietly and without patience and practice. And yet attendisturbing the bees, the queen may tion to some things will help very he seen surrounded by a cluster of much. Go at it as quietly as possible, using very little smoke, as smoke and The queen is a fair and stately bee, rough handling will alarm the bees differing from the workers both in and set them to running, and then you shape and color, she is longer than a might as well give up the job until

If the bees are Italians, queens can flering her food from time to time, these he will take out another frame that if for any reason she is the hive. He looks the frames over red, the whole colony is filled carefully, and, failing to find her, he sternation and dismay. Her takes out the next one, each time following in the wake of the eggs. While seems the it no sure rule that the presence of freshly layed eggs in any portion of

#### WELL-PROTECTED HENHOUSE BIRDS FOR AVERAGE FANCIER

Layers Require Shelter From Cold Wintry Blasts-Fowls Reciprocate by Producing More Eggs.

It is astonishing how much cold can get into a building through a few small cracks or a broken frame of glass, says the New England Homestead.

We built a henhouse four years ago, and the boards have shrunk so we could see through between some of them. One morning we found the snow had sifted in in little piles all around our choice birds that we are depending on for winter eggs.

We never can bear to see anything suffer with the cold, so we at once bought some patent roofing and covered the house, making all the laps airtight with the cement that comes with it.

Then I got a bag of cement and went all around the wall that the house stood on and painted up every crack and crevice I could find, and my, what a difference it made!

The next morning, although the weather was colder than before, it was like going into a cellar, it was so warm



and nice. Wife said they sang a different song and seemed to smile at her when she went out to feed them.

We find a few small wind holes in a henhouse will blow all the profits out of our pockets.

We also built a nice scratching shed on the end of the house with large open spaces in front to let in air and sun in pleasant weather and close up with curtains when it storms. The hens seem to enjoy it very much when it storms so they cannot go out. We put a load of nice clean sand in the shed and then a few inches of litter and what fun they do have scratching for grain in it.

#### **OUALITIES OF HOUDAN FOWL**

One of Best Table Breeds in United States-Not Recommended as Farm Fowl on Account of Crest.

The Houdan is one of the best table breeds we have. It is also an excellent layer, producing eggs not only of large supply, but of generous size, in the latter very much like the Min-

As a farm fowl, however, they are not recommended, for the reason that it is a crested fowl. The young fall easy prey to hawks on account of these crests preventing them from seeing what is above them.

The old fowls, if given a free range are apt to be caught in a rain storm. and their crests become water-soaked which generally leads on to roup.-

## LANGER KRIGHTA

Sitting hens should be removed at

Brooder lamps should be cleaned every day.

Toe mark the chicks as soon as they are hatched.

For farm use the American breeds are probably the best.

Always test the hen on china or nest eggs before setting.

Cabbages, mangels, potatoes, etc., make excellent green feed.

A well ventilated cellar is the best place to operate the incubator.

Chicks should not receive feed un-

til they are thirty-six hours old. Proper ventilation and sunlight

means a dry house and healthy birds. Feed the pullets wheat and oats and

beef scraps if you have it or can get

Duck raising is one of the most profitable branches of the poultry busi-

The incubator should be operated according to the manufacturers direc-

Good roosts may be made of 2x2 inch material with the upper edges

Flegs saved for hatching purposes should not be subjected to high or low temperature.

ture, damp houses and drafts. caught on the nest. "By their fruits

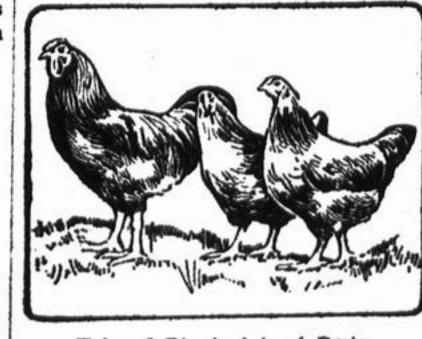
ye shall know them."

Rhode Island Rede Are Rapidly Galeing in Popularity Among Poultrymen for Meat and Eggs.

The average American poultry keeper needs fowls that combine the qualities of good laying and good meat production and that are hardy, writes A. S. Wheeler in Outing. He does not want Leghorns, because Leghorns make poor roasters, nor Cochins, since they amount to little as layers. The Orpingtons, big, handsome birds, have white skin and legs, whereas the fixed Ameican mar-

ket demand is for yellow. The flesh of the Plymouth Rock, which is an excellent winter layer, is of coarse texture and Rock hens go broody too hard and too often. Wyandottes don't give quite enough eggs, and those that they do give are irregular in color and shape.

In fact, the absolutely perfect combination fowl has not appeared; there is always some fault in evidence, or



Trio of Rhode Island Reds,

some quality lacking. I think that the breed which comes nearest so far, to the general-purpose ideal is one that not so long ago was despised, but that now is rising to wide popularity, the Rhode Island Reds.

The Reds are first of all utility birds; that the best specimens make fine show birds has been fortunate, but their strongest appeal and greatest value is to the average poultryman who wants to get from his chickens a fair meat-an-egg profit, and perhaps a bit of fun and an occasional sale at a fancy price in the show-

#### **BUCKWHEAT AS WINTER FEED**

Grain is Both Stimulating and Heating, But Should Be Fed in Moderation-Rich in Protein.

(By M. K. BOYER.) Buckwheat is both stimulating and heating, which renders it an excellent grain for winter feeding; but, being of a fattening nature, it should be fed in moderation.

It contains more protein (egg-producing material) than does corn, but the percentage of digestible matter is not so great, buckwheat having about 62 per cent. and corn 81 per cent.

Buckwheat contains 7.8 per cent. of protein and 54.8 per cent. of carbohydrates and fat, having a nutritive ratio of 1.7; and corn, 6.3 per cent. of protein and 75 per cent. of carbohydrates and fat, and has a nutritive ratio of 1.12.

This proves that buckwheat is a slightly better egg producer than corn, being more evenly balanced, but it must be fed in larger quantities to gain that effect.

### POULTRY NOTES OTOTO H DEODO

Straw and hay make good nesting

Pure bred poultry means uniformity of products.

Allow at least two square feet of floor space per bird.

Be sure that the male at the head of the flock is pure bred.

Use insect powder freely to exterminate lice when necessary.

of both the flesh and the eggs.

You will find the eggs not as fertile if you let the ducks grow thin,

Ducklings should not be allowed to bathe until they are well feathered.

It is cheaper for the farmer to eat spring chicken than to buy fresh beef.

if several hens are set in one room it is desirable to confine them in good

It costs no more to feed a hen that lays 150 eggs a year than one that

and most frequent mistakes made by poultrymen. Given proper care and attention the

Overcrowding is one of the worst

hen is the most valuable incubator for the farmer. A hopperful of bran is always sea-

sonable feed and the whole flock should have access to it. Some of the causes of roup are sudden and extreme changes in tempera-

A small, well kept flock may prove a profit where a flock of twice the else might show a distinct loss.

Plan now to provide comfortable marters for the poultry during the

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