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RIGHT WEIGHT OF CHICKENS

Winter Laying Flock. (Prepared by the United States Department of Agriculture.) Observations on the growth of chickaverage size of the varieties kept there

reached their adult weights as in the

following table: Average Age at which White Plymouth Rock..6.07
White Wyandotte5.17
Rhode Island Red4.48
White Leghorn3.14

Pullets of these breeds and those of corresponding type and weight that reach the weights given in the table or are very near them in September will begin laying by October if con-ditions are favorable. The two conditions which most commonly delay egg production from such pullets are change to winter quarters and shortto winter quarters and short-

TO KEEP CHICKENS AT HOME

If Hens Develop Tendency to Fly Over Fence, Flight Feathers Sh Be Clipped.

(Prepared by the United States Department of Agriculture.)
A yard surrounded by a 5-foot fence

will, under most conditions, keep chickens at home. If the hens show a tendency to fly over such a fence, the flight feathers of one wing should be clipped. A fence made of woven wire is preferable to a fence made of board or other material. A board should not be used at the top of a wire fence as this gives the hens a visible place to alight and tends to teach them to fly over. The larger the yard which can be pro the more contented the hens will be It not only gives them greater oppor-tunuity to exercise but often makes it possible to maintain a sed on the yard which is advisable.

CULLING FLOCK IS FAVORED

reased Egg Production and Reduced Feed Bill More Than One-Half In One Flock.

(Prepared by the United States Depart-

ment of Agriculture.)
In a weekly report from one of the government poultry extension men in Connecticut a statement showed the value of culling a flock which contained 1,403 White Leghorn hens. This factor was called July 10: 20 hone. flock was culled July 19; 826 hens were marketed and 577 kept as producers. The average daily production for the week previous to the culling was 300 eggs, and the average daily production for the week after the cull ing was 342 eggs. In other words, the 577 hens averaged more eggs than were secured from the flock of 1,403, while the feed bill was reduced more

Calling should be continued throughut the year. This continuous culling
hould consist of weeding out, when

Careful Handling While Moving Will
Prevent Setback in Proper
Production of Eggs. should consist of weeding out, when discovered, any hen which is sick, very



Young White Leghorn Hens. thin or emaciated, which shows evi-

dences of nonproduction, weakness or poor vitality.

The whole flock should also be given a careful and systematic culling all some one time. The hens should be handled individually and gone over carefully with the object of dividing them into two lots one the better producers and the other the poorer pro ducers. From the better producers b is also desirable to pick out as man of the best as will be needed for breed ers. Mark these hens so that eggi from them alone will be saved for hatching. Market those selected at the poor producers. Save for laying and breeding those selected as the bet

DROPPING BOARDS IN HOUSE Well to Use Them at All Times, Par-ticularly in Cold Months—Easy

ter producers.

used for litter.

to Clean Them. It pays well to have dropping boards in the henhouse at all seasons of the year, especially during the cold months when the fowls have to be confined. The droppings can be easily removed and the entire floor space by

RATIONS FOR LAYING STOCK

Pullets on Farm Should Get Large Part of Feed by Foraging If No Snow on Ground.

(Prepared by the United States Depart-ment of Agriculture.)

When there is no snow on the ground pullets on the farm ought to get a large part of their feed by for-aging. Whether they can get it de-pends not only upon what food may

be available but on whether they have been so distributed as to get the feed on the range. To find whether they require more is to observe how far require more is to observe how far they range and whether they find feed enough to keep them busy most of the time, and then to test them further by seeing how much they eat heartily in the morning, and then go foraging, and also how much they eat just be-fore going to roost at night. Pullets that forage well and have the oppor-tunity to get plenty of green food, worms and bugs cannot be overfed by giving them what grain they will eat up clean. Careful feeders learn just how much their flock will take, and so avoid waste while keeping the birds

Pullets in confinement should have the same ration they will have in the season. Liberal use of these makes it



Hens Scratching in Litter for Grain

possible to feed grains heavily, to promote egg production, and yet keep the birds in the best of physical condition. A good war-time standard ration is: Mash.

2 parts cornmeal 1 part bran 1 part middlings part ground oats _ 1 part meat scrap or fish meat Scratch Feed.

1 part cracked corn 1 part heavy oats Green Feed. Cabbage, sprouted oats or any avail-

able green vegetable. Another good ration with less beef scrap is as fol-

5 parts mixed feed (bran and mid-4 parts cornmeal 1 part beef scrap or fish meal

Scratch Feed. 1 part cracked corn

Green Feed.

Cabbage, sprouted oats or any available green vegetable.

For a moist mash use eight parts of mixed feed instead of five. Sprouted oats are recommended as green feed, not as preferable to cabbage and of green vegetables when these can obtained, but in order to use oats as much as possible.

FOWLS IN WINTER QUARTERS

(Prepared by the United States Department of Agriculture.)

The ideal way to manage laying hens is to have suitable houses at maturity, with other yards or ranges suited to the flock while growing, and have each flock of layers occupy the same quarters all their lives. If pul-lets must be moved from the quarters they have occupied during the grow-ing season every effort should be made make the change as little disturb-g to them as possible. The method removal will not be the same for all cases and conditions. Each poultry keeper must consider the situation as it exists for his stock and adapt his Make the Change Early.

In general it is desirable that pullets be in the houses they are to oc-cupy during the winter three or four weeks before they are expected to lay; but if the pullets are on a good range, and placing them in winter quarters would deprive them of this and make it necessary to put them on winter rations several months earlier than if they remain on the range, it may be better to leave them in the small coops in which they were grown until win-ter. Then, if they are moved gently and carefully, and special attention



Contented Flock in Winter Quarter

given to making them comfortable and contented in their new home, th change may have but slight effect or heir egg product

Whether the change to permanent winter quarters is made before or after laying begins, gentle handling and good treatment will go a long way toward offsetting the unfavorable effects of moving pullets. In reality it is not the change that is the chief disturbing factor but the way the change is made. Rapid and rough handling is bad, yet most persons think it too

and carefully. A little extra time a care in moving pullets makes a diffi-ence of weeks and sometimes mont in egg production.

To change pullets from one coop to another with the minimum disturb ance to egg production, whether the pullet is laying or not, have the new home ready in every detail. It should be clean, the floor covered with litter, all nests and feeding and water ing equipment ready for use, with a feed of scratch grain in the litter and the drinking vessel filled with water. Move the pullets after dark. If only

a few birds are to be moved and the distance is short, the best way is to carry them two by two, one under each arm, the legs being grasped by the sale of Products Furnishes Steady inthumb and fingers and the breast and body of the bird resting on the hand and wrist. In this position the bird feels secure and safe and well treated. places on the roosts to the box. The or two months of the year, while dur-birds should not be overcrowded and ing the rest of the year he has no cash should be taken with the same care income. Such a system requires long from the box on arrival at the new credits in the community. location, where they should be placed 2. The market for dairy products on the floor near the rear of the control of the community.

the first day or two should be for the ones.

purpose of doing something which even hens will recognize as done for at a more uniform rate throughout the their welfare. With this treatment the effects of change are not great. It is a little trouble, but it pays.

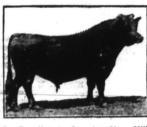
RATIONS FOR DAIRY CATTLE Corn Stover Should Form One of Main Sources of Roughage for Cows and Young Stock.

(Prepared by the United States Department of Agriculture.)

While corn stover and straw from the various cereals are not adapted for producing the largest flow of milk, they may be fed to dairy cattle. The amount to use of these materials wil depend, of course, upon the supply at hand on the farm. When an abundance of corn stover is available it should form one of the main sources of dry roughage for dry cows, young stock, and cows in milk. To use stover economically it should be cut or shredder for then it will be eaten more com-pletely and there will be less waste. Corn stover may be fed to milking cows without limit, when they receive in addition grain, silage, and som leguminous hay. Under these cond tions the ordinary cow will eat a large part of from 6 to 8 pounds of stover daily. For dry cows and young stock the proportion can be greatly in-creased, care being taken to be sure

that there is plenty of protein in the ration. In certain instances corn stover has been cut and put into the silo with the addition of plenty of water, and the resulting silage is of fair quality. If a silo is available, empty or partly so, corn fodder which has been well shocked and is not severely weathered may be ensiled to advan-tage. Put up in this form it is more convenient for feeding in the barr and cows will consume more of it than

f fed dry.
Oat, barley, and wheat straw ca form a considerable portion of the dry roughage for all classes of dairy cattle. Straw is used in much the same proportions as corn stover, and a sprinkling of thin molasses has been found to increase greatly the palata-bility, causing the cows to consume large quantities of the straw. When feeding barley straw it is advisable to examine the mouths of the cattle oc casionally, as the beards of the bar ley when very dry and stiff sometimes cause painful irritations. Rye straw cannot be recommended for dairy cat-tle, because of danger from ergot and on account of the very tough and fib rous nature of the straw. Buckwheat straw has a very low feeding value and should be used when other roughages are not obtainable, but in no case should any straw be wasted. What cannot be fed should be used for bed-



good results with dairy stock: Ration for Dry Cows, Bulls and Heifers.

Corn stover and straw

Cotto	nseed r	neal			. 1 p	pound
Corn-	and-cob	mea	1		. 2 p	ounde
Ra	tion fe	or Co	w Ab	out to	Cal	re.
Corn	stover				. 6 p	ounde
Clove	r hay				. 12 p	ounds
	silage					
Whea	t bran				. 3 p	ounde
Ratio	n for (Cow (Giving	16 P	ounde	of 4
			Cent			
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Clove	r hay				. 12 p	ounde
	stlage					
Cotto	nseed r	meal			. 2 p	sbauoc
Corn-	and-cob	mea	1		. 3 p	sounds
Ratio	n for	Cow	Giving	From	n 20	to 25
	Pound					
	stover					
	r hay					
	- Class		*******			ounds

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(Prepared by the United States Department of Agriculture.)

1. The sale of dairy products furnishes a steady income throughout the unce to be traversed make this method too laborious a convenient box or coop should be used, the birds being rear. The farmer who depends upon erop sales for his income usually lifted carefully, one by one, from their makes the bulk of his sales during one places on the roots to the box. The or two months of the year, while durbirds should not be overcrowded and

on the floor near the rear of the pen.

The first thing the hens will know about their new home will be that as they can see they find feed the land the fertility and physical conand drink there. With provision made dition of the soil may be maintained at

for litter and nests there is no occa- a high level and crops increased. Even sion for an attendant to come into the after many years a properly maintain-pen to do anything that in the least ed dairy farm has constantly increased disturbs the birds. Every visit to them ing crop yields instead of decreasing



business. The grain grower, for example, may have to employ much additional labor at harvest time, but so far as the dairy is concerned the dairyman has about the same duties to perform every month of the year. Thus, less help is required seasonally and permanent employees may be kept.

5. Through the dairy cow many un-

salable roughages may be transformed into products from which cash may be realized. Grass hay, corn fodder and other roughage which may not have a ready sale are economically utilized by the dairy cow. Land which is not suitable for cultivation can be utilized for pasturage for dairy cows.

If Not Well Fed at This Time Animals Will Go Into Winter Season Thin in Flesh.

ment of Agriculture.)
The wise dairyman will feed liberally during the fall months. Cows which are not well fed at this time will go into the winter thin in flesh and pensive and largely in vain to attempt to bring them back to normal flow af-ter they go on winter rations.

It will pay to begin feeding silage and hay early. The extra feed given at this time will not only bring good, immediate returns, but affect the milk during that period. Keep up the milk flow during the fall months by proper feeding. It will pay.

(Prepared by the United States Department of Agriculture.)
On account of the present emergency on account of the present emergency it is particularly important that good dairy bulls should be utilized to the fullest advantage, for more can be accomplished in increasing milk pro-duction and making it more economical in this way than in any other.

Cleanliness Is Essential. The first essential for keeping milk sweet any length of time is cleanli-

for green feed.

23jan4t

GREEN STUFF FOR CHICKENS ted Oats Are Excellent-Hen

Beets, Mangels, Etc. Always bears bears Chart Hillithing The hens should be furnish form of green stuff when they are kepi up. Sprouted oats are probably the best, but cabbage, turnips, beets, man gels, eta, will be readily devoured by the hens and will answer the purpose

IRRIGATION OF AN ORCHARD COLOR IS GUIDE TO PICKERS sin and Check Methods Are De- Of Value in Determining Time for When Soil Is Hard Disk Plow Will Help. by the United States Depart ment of Agriculture.) Orchards sometimes are irrigated by first forming ridges midway between the rows in two directions at right angles to each other. This divide

four or more trees,

When the ground is hard or covered
with weeds, a disk plow is run between the rows and then the loosened earth is formed into a ridge by a ridge er. If the soil is light, sandy and fre

rarer cases a basin or check incloses



Irrigating an Apple Orchard.

from weeds, the disking is not neces Ridgers are made in various ways of both wood and steel or som combination of both. One consists of two deep runners 15 to 18 inches high, two inches thick, and six to eight feet A Good Dairy Herd Gives the Farm
Many Advantages.

Year than in nearly any other farm
business. The grain grower, for examle may have to employ much addiners are held in position by cros steel in the manner shown.

The height of the ridges varies with

the depth of water applied, which is from four to nine inches. The ridge should be several inches above the sur-face of the water when a basin is

Several methods of flooding basins are practiced. In one a ditch is run from the supply ditch at the head through each alternate row space and the basins on each side are flooded in pairs, beginning with the lowest. In the other method water is allowed to flow through openings into each basin FALL FEED FOR DAIRY COWS flow through openings into each basin of a tier in a zigzag course from the top to the bottom of the orchard. In this plan the upper basins receive the most water. Under gravity canals, where water is abundant, the water is turned into the upper basin until i Prepared by the United States Depart- is full, when it overflows into the next and so on down the tier. The irrigator then begins at the lower end and re pairs the breaks, leaving each basin full of water.

Interest in basin irrigation has been with reduced milk flow. It will be ex-pensive and largely in vain to attempt to the fact that by this method of preparing land and applying water it has been found possible to mulch each ba sin throughout the dry season with cured aifalfa, bean straw or other leguminous products. The soluble inimmediate returns, but affect the milk gredients of such a mulch are carried flow for the whole year by putting the converse to gredients of such a mulch are carried by the irrigation water into the soil cow in good condition to go through and in this way both food and moisted winter months. Cows which go into the winter in good vitality and with undiminished milk flow are the ones which will make most economical use of the high-priced feeds given them during that period. Keep up the milk must be considered to the true, the constant of the constant

highly developed nervous systems are very susceptible to sudden changes in temperature. This should be borne in mind in the fall when the first cold duce them to the state of very fine crop of the pregious year and quite large. They are thrashed so as to reduce them to the state of very fine

> planted to fruit trees. In plowing down the alfalfa and setting out the trees, the levees undergo little change and the checks can be flooded if it is considered best. A heter relay it to the following the flower plant is formally as the following the fo sidered best. A better plan is to fur-row the floor of each check. The water is admitted through the check box which is used for the sitalia and conducted into a short head ditch, from their own runk and main limbs. A which it is distributed to the furrows. The chtst objection to this method is shade the threatened parts in some that the checks are too small for or nanner, and thus avoid having dame chard tracts in furrow irrigation.

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Prepared by the United States Depart ment of Agriculture.) Color is of value as a guide to the tract into a large number of squares with a tree in the center of each. In

picker in determining the time for gathering apples and tomatoes. The economic result of placing immature apples in storage is loss of color. Loss in color also occurs when immatur tomatoes are processed. In both case the product is made less attractive and

Immature apples picked when som of the leaf green is still present on the



shaded side of the fruit develop in storage the baked apple appearan characteristic of scalded fruit. This specimens of the variety. Scalded fruit is not attractive to the average cus

canning or catsup, only mature fruit will yield a product of the deep red color so much prized by the market. Ripened tomatoes of the proper varie-ties will, when properly handled, produce a high-colored canned produc or a high-colored catsup. On the other hand, half-ripened red tomatoes will yield a product varying from straw color through the shades of red. The producer, however, should bear in mind that with many varieties the green color persists to some extent until the fruit is too dead ripe to be marketed without risk of decay Soundness, of course, should never b acrificed to obtain the desired color

The practical grower will do well to familiarize himself with the color of his mature products and take pains to pick them at the proper time if he de sires to place on the market article with the most prepossessing appear

INJURY BY SAN JOSE SCALE On Some Trees Insect Multiplies Rap-Idly and Does Much Damage-

The San Jose scale is known to in fest about 150 kinds of trees and shrubs. On some it multiplies rapidly and causes serious injury; on others it rarely becomes abundant enough to be dangerously injurious; and on still others it cannot permanently maintain itself.

iuring that period. Keep up the milk low during the fall months by proper seding. It will pay.

Cold, uncomfortable cows will not nake economical use of feed. Their lighly developed nervous systems are

Trees Reach Bearing Age-Crops Between Rows.

cient Foliage to Shade Trunk and Limbs.

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BUY WAR SAVING STAMPS

mind in the rail when rains and cold winds come. Protection from these will prevent the reduction in milk flow which they always cause. Do not waste feed by letting your guillochan says that it is excellent orchard practice after rotted manure orchard practice after rotted manure has been spaded in early in the spring straw. This straw is spread in abun- Cultivation Should Be Thorough Until in Single Generation and Greate IMPORTANCE OF DAIRY BULL and the basins (cuvettes) have been thorough cultivation as corn or vegemy Effected. and the basins (cuvettes) have been tables, at least until they reach bear-formed for receiving irrigation to fill the latter with straw manure or, if this is not to be had, with dry grass.

Where the check method is prac-fruits, may be grown between the tree This book, entitled as above, ontains over 200 memoirs of Minding. The follow-ag rations contain-Good Animals Should Be Utilized to ing corn fodder and straw should give Fullest Advantage to Increase Milk Production. Where the check method is pracrows. ticed it frequently happens that land on which alfalfa has been grown is