### SUGGESTIVE POINTS ON HATCHING AND FEEDING CHICKS; BY THE OAC

Authoritative Information Coverning the Whole Range of the Subject, and a Tentative Feeding Schedule, That Will Be of Use to Beginners and Experienced Poultry- device carefully tested. The

uary, 1924, Extension Bulletin No. the manufacturer. It is not ad-370, of the Oregon Agricultural visable to disobey the instruc-College, the author being H. E. tions in any detail unless suffi-Cosby, extension specialist in poul- cient reason and experience wartry husbandry, which is of suffi- rant the variation. clent importance, to both begin- The lamp. The machine should ners and experienced poultrymen, be operated for three or four days to warrant its publication in full, before any eggs are placed in it. as follows:

Selection and Care of Eggs for Incubation

vided in the breeding houses in flame high enough to supply order to reduce to a minimum the plenty of heat. The flame should in hatching strong, vigorous chicks curately in maintaining an even It should not be expected that temperature. The lamp should not natched from breeding stock not burning. ing stock that has been forced for to pip. high egg production. Free range

three or four days it is not neces- than too little. sary to turn eggs intended for are purchased for hatching should amount of moisture is used. rest 24 hours before being incu-

and product.

Incubators and Incubation The various kinds of incubators moisture incubators are made in water machines.

Position. It is advisable to see that the incubator is perfectly feeding chicks. level. Use a spirit level in several

Thermometers. Each thermoreadings.

gives better results if operated in chicks. a well ventilated cellar. A cellar retains a more uniform tempera- the door of the incubator should ture, has a more constant degree be darkened and kept closed until of humidity, and is free from vi- the hatch is completed. When

each hatch it is important that heavy one it is advisable to wedge scrubbed and disinfected so as to or nursery should be kept dark avoid possible danger of contagi- and at a temperature of 98 deous diseases. A few hours before grees to 100 degrees F. After the the eggs are placed in the machine chicks have been "hardened off" it should be sprayed thoroughly in the incubator for 24 to 36 cent solution of cresol soap mixed be placed under the brooder.

If this Signature

Preventive.

There has just been issued, Jan- recommended in the instruction of

The lamp should be furnished with a new wick for every hatch. Clean the wick each morning but Dark, clean nests should be pro- do not cut the wick. Run the number of cracked and dirty eggs. be uniform in height every day so Strong, tertile eggs are necessary that the regulator may work acstrong, healthy chicks will be be left in its position when it is

which is underfed, overfat, of low | Turning. The eggs should be vitality, or unhealthy, any more turned on the morning of the than it should be expected to third day and at least twice each hatch vigorous chicks from breed- day thereafter until the eggs start

Temperature. The correct temis an important factor in produc- perature depends upon the posiing hatching eggs, but if through tion of the thermometer used. The necessity the breeders are con- directions of the manufacturer fined to a small area, it is impera- should be followed carefully betive that they be given a variety of cause different machines vary in feeds and be compelled to exer- temperature required, due to the different positions of the thermo-It is desirable to gather the meters. The controlling temperaeggs for hatching purposes two or ture should be taken from a standthree times daily to prevent chil- ing thermometer, the bulb being ling. Eggs for hatching should be on a level with the tops of the set when fresh, Though stale eggs eggs but not touching them. If frequently will hatch, it is not ad- the temperature has been regular visable to use for hatching eggs up to time of hatching it is usuthat are older than 10 days. The ally not advisable to change the breeding pen should be mated regulator at that time. Poor about three weeks before eggs are hatches and weak chicks are more to be incubated. During the first often the result of too much heat

Moisture. The addition hatching, but after that time they moisture to the egg chamber deshould be turned daily. Hatching pends largely upon the type of ineggs should be placed in a regu- cubator used, the place in which lar market egg-case and the case it is operated, and the climatic turned on a different side daily conditions. Better results are after the first week. Eggs that usually secured when a medium

Cooling. There is a diversity of opinion relative to the necessity of Size, shape, and color of eggs cooling the eggs during the incuare breeding problems just as bation period. In machines where much as the number of eggs pro- eggs are turned by hand it is genduced by an individual is a breed-erally agreed that the eggs get ing problem. All eggs incubated sufficient cooling during the turnshould be uniformly large and of ing process. Others advocate that a color characteristic of the breed. eggs should be cooled once each Each egg incubated should weigh day after the seventh and up to on April 16, 1922, appeared beat least two ounces. More uni- the nineteenth day. The length of fore Judge J. U. Campbell in Oreformity in eggs selected for hatch- time the eggs should be cooled de- gon City Wednesday morning and ing means a more uniform flock pends upon the temperature of the eggs have been incubated.

Testing. It is advisable to test made are classified into three the eggs twice during the period types: hot water, hot air, and of incubation. If a good light is mammoth. Moisture and non- available the eggs should be tested on the seventh and fourteenth different styles of hot air and hot days. In the seven-day test separate all absolutely clear eggs; these may be used for cooking or for

Hatching time. The eggs usupositions on the incubator to de- ally start to pip on the evening of termine accurately that it is level. the nineteenth day and the hatch will be completed on the morning meter should be tested occasion- of the twenty-first day. A high ally with an accurate clinical ther- temperature during the incubation mometer. Put both thermometers period may hatch the eggs earlier in water heated to 100 degrees to and a low temperature will delay 105 degrees F. and check the the hatch. Both too early and too late hatches will be made at the Location. An incubator usually expense of the vitality of the

the hatch is over open the venti-Disinfecting. Before and after lator. In case the hatch is a incubator be thoroughly open the door slightly. The tray with zenoleum, creolin, or 3-per- hours after hatching, they should

As soon as the eggs start to pip.

Transferring chicks to brooder. Operation. The incubator should Chicks should not get chilled in be set up and operated exactly as incubator or in moving them to

6. M. Grove

is NOT on the Box, it is NOT

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incubator to the brooder at night, the outer edge of the hover using after hatching is heat. The chick

Brooder Preparation

The brooder house should be thoroughly disinfected and cleaned a few days before the batch is expected. The brooder should be

The brooder house floor should be covered with a layer of sand from one-half to one inch deep. Cut straw or alfalfa litter may be any brooder until confident that deformed, and diseased chick.

the brooder is working accurately. There is such a variety of brooders in general use that it is

First feed

7 days

7 days

21 days

21 days

10 weeks

maturity

Station Circular

GRAINS

None

Chick food

lbs. pin-head oatmeal

Times Daily (10 minutes)

Chick food

2 or 3 times daily in

(All they clean up at

when chicks are 4 to 6

Feed coarser grains

(2 or 3 times daily)

Just what they will

lbs, cracked wheat

lls, cracked corn

sterl-cut oats

lb, fine grit

night)

weeks old.

clean up).

It is best to move them from the advisable to form a circle around The first requirement of the chick one-foot fine-mesh chicken wire. | must be given a ration, the food

Chief Cause of Chick Losses poor care of eggs before they are needed for bone and muscle. set, unhealthy breeding stock. forcing breeders for heavy egg supplies the various elements of set up, cleaned, and the regulating production, improper incubation, food necessary for normal chick improper brooding, poor equip- development. The chick grains brooder should be operated two or ment, uncomfortable quarters, ne must be supplemented with three days to be certain that it is glect, improper feeding, and con- muscle-forming foods derived taminated yards.

Giving "dope" to sick and weak- milk, eggs, or meat scraps. ly chicks is wasted effort. Vigor

#### A Few Feeding Principles

A cull may be made of any impossible to give any specific chick not properly fed and cared degree designated by the manufac- chick is hatched the yolk of the of plants.

A TENTATIVE FEEDING SCHEDULE

Peed Frequently in Small Amounts-Do Not Overfeed

MASIL

Mash

Equal parts of bran.

mixed with eggs

eggs

shorts and corn-meal

rolled oats mixed with

2 Times Daily

Mash

Keep above dry mash

in hopper before chicks 1/3 of the time.

Keep dry mash in hop

pers before chicks all

the time after the

rovide colony houses on the range. Keep them supplied with a growing ration. Too early hatched and early maturing pullets may go into

partial moult in early winter. Holding pullets back results in stunt

Building Plans for O. A. C. 400-Hen Laying House. The O. A. C. Portable Colony and Brooder House.

347. Suggestive Points on Culling the Poultry Flock. 348. Suggestive Points on Feeding for Egg Production

Oregon Experiment Station Trapnest.

Open Air Range House.

ng them in a majority of cases. Leghern pullets should be brought

DRINK

Question

Sour milk or but-

Keep vessels

-No water.

termilk.

the brooder. Move them in a flat turer of the machine being operbottom cloth-lined box or basket, ated.

For the first day or two it is tural food for the first few days. For the first day or two it is tural food for the first few days. elements of which supply heat and Chicks may die as a result of energy as well as the elements

from an animal source, such as

percent of bone-meal to the mash, much headway. or provide before them at all times

Supply grit and charcoal in hoppers. Feed green feed once daily. Add litter on third day and compet chicks to scratch for all cables announcing higher copper supply water for 4500 acres in ad-

OTHER FACTORS

the time. Increase depth of litter. Keep brooder floor cless. Feed green feed, char-cost and grit. Keep mash hoppers sanitary.

Keep houses free from mites and fowls free

into production as a flock at six months of age rather than earlier. FREE REFERENCES, OREGON AGRICULTURAL COLLEGE, CORVALLIS, OREGON

### HECKER TO HANG ON WED., MAY 22

Court Breaks Friday Precedent and Also Specifies Time of Day

youth convicted of the slaying of Frank Bowker, Portland musician. was re-sentenced to hang. Date room and the length of time the of execution was fixed for Wednesday, May 21, between the hours of 10 o'clock in the morning an d4 o'clock in the afternoon. In charge of Deputy Sherift H. H. Hughes of Multnomah county and a traffic officer, Hecker was received at the state prison and placed in cell No. 110, in what is termed "murderers" row." He will be removed to death cell today and placed under a death watch, according to J. W.

Lillie, deputy warden. Hecker was apparently undis turbed by his return to the state prison, where he spent a month in 1922. He was received July 5 1922, under sentence to hang on September 22. A stay of execution was issued August 7 and he was delivered to a Clackamas county sheriff on August 15 and taken back to Oregon City. Owing to the nature of the jail there he was removed to the Multnomah

county jail. The condemned youth talked readily to Deputy Warden Lillie and a newspaperman. He said that he had received every possible courtesy that could be permitted a man in his position, and was grateful for the treatment accorded him by his keepers, who, he said, spared the use of handcuffs whenever circumstances per-

Passing of sentence upon Hecker by Judge Campbell broke a precedent of years, for in nearly every instance a man condemned to death upon the gallows meets his fate on a Friday. The date, as set, is for a Wednesday. Another unusual feature of the resentencing was that the hour of execution was practically specilied. Generally the hour is not designated and the execution takes place about 8:30 o'clock in the morning.

Friends of Hecker's are working for a commutation of his sentence to life imprisonment, but because of the stand taken by Governor Pierce in not interfering with the work of the courts, prison officials and others think that the execution will be carried out at the designated time.

In setting the date three months in the future, Judge Campbell has placed the condemned youth in a position where it is possible he may escape the gallows, for it is expected an effort to pave the way for the abolition of the death penalty will be placed before the voters of the state at the May primaries.

Hecker was convicted for killing Frank Bowker, Portland musician, near Oregon City, in Clackamas county, the night of April 16. After killing his com- Wheat: Cash No. 1 northern panion. Hecker loaded the body \$1.15 to \$1.19; No. 1 dark northinto a hop sack and droe to the ern spring, choice to fancy \$1.23 Calipoola river, about a mile to \$1.30; good to choice \$1.19 to south of Albany, dumping the \$1.22; ordinary to good \$1.16 to

tody into the river from the \$1.10; May \$1.15; July \$1.16 1-4; bridge. He returned to Portland September \$1.15 7-8. and a day or two afterwards led officers to the bridge. The body was later found. Hecker claimed self-defense, but the jury returned a verdict in 55 minutes.

Sheriff Chrisman, of Wasco county, did not come after Abe Evans Wednesday. Evans killed James Doran near The Dalles the night of September 10, 1921 Evans was convicted of the crime and sentenced to hang. A stay of execution was issued pending Russell Hecker, former Albany his appeal to the supreme court He will be taken back to The Dalles to be resentenced.

# **15 MAUE UN MARKE**

Previous Top Level Was Made Only 24 Hours Before Next Record

CHICAGO, Feb. 27 .- Corn advanced today to new high price records for the season, although the previous top level was reached only 24 hours before. Persistent commission house buying based to a great extent on the decreasing movement from rural holders appeared to be chiefly responsible. Closing quotations were firm, 3-8 @ 1-2 cent to 7-8 cent net higher. from 5 cent decline to a rise of 2

Activity characterized the corn market during the entire day, milk products bill. general demand being broader as well as commission house buying, whereas offerings except to realize profits were of a scattered character. Rural dissatisfaction with current prices continued to receive much attention as a bullish factor.

Besides, bull leaders were inclined to emphasize that nearness of the time when farm deliveries usually halt until after planting. Gossip, too, was dwelt upon that feeding of hogs this season had exceeded last year's total both as to number and weight.

The highest closing level for the crop was witnessed in the corn market. What little corn was booked today to arrive here was promptly taken by shippers who paid a premium for some of it These circumstances were a late bullish influence and so likewise was a report that the farmers' holding back movement-had reached Minnesota in addition to

states heretofore named. Wheat and oats sympathized with corn strength. Wheat was likewise affected by a bullish es timate of farm reserves.

Lower quotations on hogs tended to ease the provision market.

### **GENERAL MARKETS**

WHEAT MINNEAPOLIS, Feb. 27 .-

LIVERPOOL, Feb. 27 .- Close: Wheat 5-8d to 7-8d lower; March 9s 4 3-4d; May 8s 11 3-4d; July 8s 11 3-8; October 8s 9 5-8d.

BUENOS AIRES, Feb. 27 .down 1-4c; May 95c, down 1-4c.

futures: Wheat, bluestem and Baart, February, March, April \$1; soft white, western white, February, March, April 98c; hard winter, northern spring, western red. February, March, April 94c.

CORN

shipment February, March, April \$32.50; No. 3 ditto, February \$32.50; March, April \$32. Millrun, February, March, April \$23.

Dairymen Hold Meeting In Hillsboro This Week

HILLSBORO, Or., Feb. 27.-The State Dairymen's association complishments of the organization. He particularly emphasied the work in connection with the

This afternoon the dairymen will discuss the oleomargarine

Add 10% sitted meat scrap to mash if milk is not fed. Get chicks on ground part of

Add 2% bone meal to mash. Separate the cockerels. Give growing stock free range.

Supply green feed, charcoal and grit

from lice. Supply green feed, charcoal and grit. Move colony houses every two or

PORTLAND, Feb. 27.-Grain

OATS Oats, No. 2, white feed, March, April \$32.50; No. 2 gray, March,

Corn. No. 2 eastern yellow,

HAY PORTLAND, Feb. 27 .- Hay un-

with May at 82 cents. Wheat morning, J. B. Srulinger, acting finished 3-8 cent to 5-8 cent up, mayor of Hillsboro welcomed the May \$1.10 1-4@2-8 to \$1.10 2-8 dairymen. J. J. Van Kleek, presand July \$1.10 3-8 to \$1.10 1-2, ident of the association, delivered with oats showing 1-4 cent to 5-8 the principal address of the sescent gain and provisions varying sion, in which he stressed the ac-

#### Neither the grains nor the today's dull market, bear traders Heavy hens. is the foundation of the poultry ground feeds supply a sufficient inaugurating an extensive coverbusiness. Neither sentiment, pity, amount of phosphoric acid neces- ing movement in the late after- Hogs, top, 150-235 lgs., cwt... Cut straw or alfalfa litter may be business. Settlet schoold prevent sary in building the bones. It is noon after an early campaign of Hogs, top, 225-275, cwt scattered over the roosting area if nor purchase price should prevent sary in building the bones. It is noon after an early campaign of Hogs, top, 225-275, cwt hogs, top, 275-300, ewt desired. Do not put chicks under the owner from killing every weak advisable to add 1 per cent or 2 short selling had failed to make Light sows, cwt....

United States steel common sell-

Copper shares, which turned weak yesterday following the today of \$440,000 in bonds to omission of the Omaha dividend and which continued reactionary Francisco. Work will start immein today's early dealings, steadied diately on a dam on mmigration metal prices in Great Britain. dition to the 6500 acres in the dis-Baldwin and American can closed trict now under water. The comat 122 1-2 and 112 1-2 respective- pletion of this project according ly, each up about a point, after Keep having sold about two points below their final quotations.

Oil shares failed to make any appreciable response to reports of further improvement in the statistical position of the industry. The restricted trading in these issues was again attributed to the fear of further unfavorable developments at the Washington oil inquiry and reports that Senator La Follette shortly would introduce a measure regulating the industry.

Trading in railroad shares was ather sluggish.

and Belgian francs, apparently tased on selling influenced by the resignation of the Belgian cabinet on a vote over the econo-Opening: Wheat, March 95 1-2c; mic pact with France, was the feature of the foreign exchange

#### SALEM MARKETS

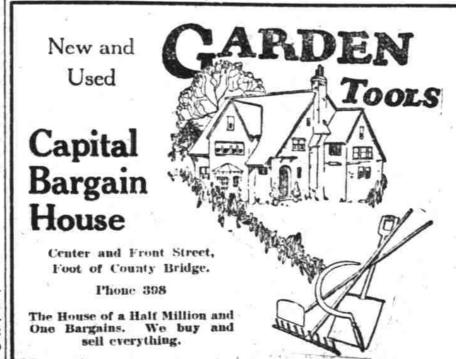
Large yellow turnips, at 4 cents pound, are now to be had at local markets. Brussel sprouts are still plentiful and are selling at 20 cents a pound.

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No. 2 wheat

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Clover hay, baled

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Stnadards.

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Out hay

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.04e @ 05e

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...02% @ 04%

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bond houses in Portland and San

irrigation to approximately

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each but a Rhode Island Red

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buyers were Vasby Bros., 1703

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10 seconds. Effectiveness proved in millions of cases. Demand red box bears

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7a-f24

No grain or mixture of grains Late Buying of Steel Shares Influenced By Weekly Trade Reviews

> NEW YORK, Feb. 27.-Stock prices displayed a better tone in Late buying of the steel shares Top Veal, dressed ...

fine granulated bone in shallow was influenced by the weekly Top lambs trade reviews which indicated Vitamines have been found that February bookings equal Irrigatio nDistrict statement relative to the correct for. Chicks must have a good necessary to growth. These ele- those of January, the falling off temperature. It is advisable to start if they are to develop into ments of growth are chiefly found in the east being offset by the regulate the temperature to the vigorous stock. Just before the in milk, eggs, and the leafy parts sustained activity in the west. ing ex-dividend closed 102 1-4.

Call money opened at 4 1-4 per cent and then advanced to 4 1-2 where it closed. The time money and commercial paper markets were quiet with no change in

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Singer ...... 150 Starr ..... 165

Schaefer ...... 165 Emerson .....

Howard ...... 115 Kohler .....

Schiller ...... 160 Kimball

Schubert ...... 185 Clarendon ......

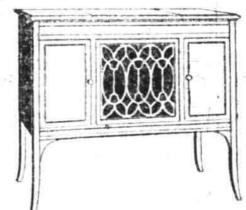
Bradley ...... 140 Behr Bros.

Fischer 295 Remington .....

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