

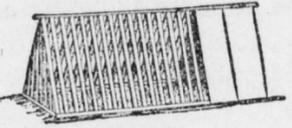
# POULTRY AND BEES

## FATTENING FOWLS.

Provide the Right Conditions to Get Good Results.

In order to fatten poultry at a profit, the right facilities must be provided and proper food used. Probably among the best are fat meat residues, corn meal, potatoes, rice, cow's milk and oatmeal with milk. If anything, oatmeal is preferable because of effect on color or fat, says a writer in Successful Farming.

The point is to fatten fowls in the



The Coop.

shortest time possible. A good way is to confine in coops like the one shown in cut. The open part may be made of lath or wire netting. Keep pen dark except when fowls are eating. Throw thick covering, old carpet or quilts, over exposed part and the pen will be so dark that birds will move about very little between meals. In the morning if fed boiled potatoes, crushed white hot and thickened with corn meal, and a little salt and pepper for seasoning, chickens will fatten very fast. They should be fed three times a day, and their bill-of-fare varied as much as possible. Pumpkins or squash may take place of boiled potatoes occasionally. Fresh bedding should be supplied frequently, and the coop and spot it occupies kept clean.

## AUTOMATIC POULTRY WATERING.

System Used by Dr. A. H. Phelps Described.

Upon each floor of my poultry house I have a 2-inch iron pipe which passes the whole length of both the main floor and loft from west to east, at the latter end projecting outside the building. This pipe runs along the floor, passing through each of the warm roosting rooms, in each of which is a T joint, surmounted by a 1-inch nipple-coupling. On the top of this is screwed a cast-iron drinking cup 8 inches in diameter and 4 inches deep. All are set at the same level.

At the west end the inflow takes place through a tank supplied with a float valve, like that used for flushing a closet. This tank and valve are adjusted to the same level as the drinking cups so that when the cups are full the float shuts off the inflow, and as the water is used out, it falls just enough to allow the cups to refill, again closing when the proper level is reached. In this way the water is not wasted. At the outflow at the west end a gate serves to flush out the whole system. Inside of this gate an overflow pipe, placed at the proper level, easily prevents the possibility of the cups overflowing and thereby flooding the floors. The 2-inch pipe is of that size to render clogging impossible. A pipe from the hot water heater in the brooder cellar is connected with the inflow pipe, making it possible to supply hot water to the system.—Orange Judd Farmer.

## SCRATCHINGS.

Is it the business hen this year, or only a boarder? The farmer who raises poultry can always obtain ready money.

A chick that is continually chilled seldom amounts to much, because vitality is used up to resist and overcome abuse.

It is not a good plan to feed grown up fowls too much soft food, as it tends to make them dyspeptic.

In estimating the cost of keeping poultry it is best to allow one bushel of grain a year to each laying hen.

With hens it is much better to keep the appetite sharp compelling them to be active and search for food.

Pick all small, slow going, indifferent appearing pullets and save them for broilers. Keep for maturity only the best of the whole lot of pullets.

Experiments show that the yearling hen lays 40 per cent. more eggs than the hen two years old.

## Poorly Fed Hens.

Occasionally a flock that is so small that it is fed mostly from the table scraps is really under-fed. We have seen people boil small potatoes for their hens and add these daily to the potato parings and other table scraps. If salt was added in a small amount the fowls ate them well, but such a flock is always underfed. Because the fowls have their crops full is not proof that they have the substantial things out of which to manufacture eggs. There is such a thing as overdoing a good thing and this is one of the cases. The potatoes and such stuff are made up almost wholly of starchy matter and do not give the material out of which to make albumen, whose base must be nitrogen. It is possible to make a hen think she is being well fed when she is not.

## Clean Up Seed Grain.

Clean up all the seed grain, and do it now while you can take plenty of time for the job. Don't use any old mill, with sieves all rusted out. Good mills, with all attachments, are cheap now, and it pays to have one that will clean out all weed seeds.

## MAKING A BROODER.

Simplify Care of Little Chicks by Constructing One.

Some people try to have a lot of hens hatch about the same time as their incubator, then give the chicks to the hens. But I have found by experience that is a mistake, writes a poultry keeper in Farmers' Mail and Breeze. The hen will take them out and drag them around in the dew, and if it happens to rain she will sit right down where she happens to be and lose from three to half a dozen, or perhaps all the flock; while if the chicks had a brooder they would run into it and be safe.

I make my own brooders. They work all right out of doors and I never yet have lost a chick with them. I take a piece of sheetiron 20 inches wide and 2 feet long. Then two pieces of 1 by 3 feet long, and in each board make two holes 18 inches apart. Run gas pipe through these for the sheetiron to rest on, and fasten the boards 2 feet apart. Make a rack out of lath to sit on top of iron and cover with thick brown paper.

Use two pieces of 1 by 10 2 feet 6 inches long from which to make a cover; fasten on top of first boards with hinges and hooks so they can be turned back to clean out brooder.

Outside the brooder make a board floor level with the sheetiron floor for 8 inches, then slant to ground so as to make a run for the chicks to go in and out. Set the brooder lamp under the sheetiron and place the lath rack and thick paper over the iron. The chicks will never get too hot unless the lamp explodes, which has never happened yet for me. The cost of this brooder is about \$1.50, lamp and all.

## HATCHABILITY OF EGGS.

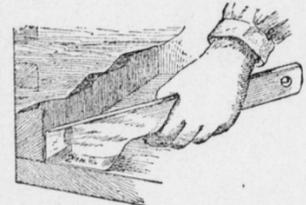
Observation Shows That There is Great Difference in Eggs.

Each bird has its own individuality. By that I mean that there are certain birds which lay eggs that are nearly always hatchable. With one hen we found that she was a good layer, a hen that laid fertile eggs, but the eggs were not hatchable under hens or in incubators. One peculiarity of these eggs was that the chick would develop only to about the eighteenth day, or we always found a fully formed dead chick in the shell. We catch that a fertile egg, but it is an unhatchable egg. We have also found other hens that will lay equally as many eggs that are nearly all hatchable under natural conditions, but they are not as hatchable under artificial conditions. There are a few hens, and I am sorry to state that they are in the minority, whose eggs are hatchable under almost any condition. In other words, these hens in the latter class seem to have so much vitality and their eggs are so strongly fertilized that they will stand abuse in the way of temperature and other conditions that are present in some methods of incubation, and yet will hatch a chicken that is fairly thrifty.—W. R. Graham, Ontario.

## HIVE SCRAPER.

Most Servicable Tool Can Be Made Out of a Buggy Spring.

I have been using a cheap and practicable hive tool which can be made of a wagon or buggy spring, writes a correspondent in Bee Culture. The



The Scraper.

broken end of a spring can generally be found at any blacksmith shop, and the thin end can be filed sharp for ten or fifteen cents. Have it sharpened as per the illustration, the thin end sharpened and one side about two inches back, to be used as a scraper or screwdriver, and the thick end can be squared on one edge to drive a nail with. I find it very handy for all purposes around an apiary.

## Number of Hens to Rooster.

I have often read in poultry papers if you put more than eight or ten hens in the breeding pen the eggs will not hatch. My experience has been that 25 or 30 Leghorn hens with only one cockerel lay eggs which hatch chicks, every one. In 1895 I had a pen of 50 mixed pullets in a place 10x18 feet. I had a brown Leghorn cockerel that I had no use for, so put him in with this lot. In March, writes the correspondent in Orange Judd Farmer, one of my neighbors wanted to exchange eggs to set, so I let him have 30 eggs from this pen. I did not tell him about the way they were mated, as I had some doubt about their hatching. But he got 23 chicks from the 30 eggs and came back for 30 more, getting 26 chicks the last time, or 54 chicks from 60 eggs.

## Light Seed.

Light seed will produce light grain. This has been proved many times. Light seed has not sufficient power to push the young plants during the early stages of growth, and it becomes stunted.

## Double-Disk the Corn Stubble.

By all means double-disk the corn stubble before sowing to oats. Then if you will harrow with the disk and cross harrow, you will not worry about your seedbed.

## How's This?

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure. F. J. CHENEY & CO., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by him. Wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Testimonials sent free. Price 75 cents per bottle. Sold by all Druggists. Take Hall's Family Pills for constipation.

Three Alarming Symptoms. Physician—Madam, I can find no traces of disease in this boy of yours. What made you think he was ill? Mother—Well, doctor, he behaved in such an odd manner when he came home from school. He spoke kindly to his little sister, didn't kick the cat and offered to carry coal for me.

## HER CHOICE OF DEMISE.

Pathetic Thought of Little Girl Who Had Lost Playmate.

Mary had for neighbor a small playmate, a much-loved and attractive boy. The little lad rushed across the street one day, throwing back a glance at his mother. At that instant a trolley car swept around the corner and the resulting tragedy threw the town into mourning. Each family wept as though its own son had been lost. Mary was utterly disconsolate and, little as she had previously known of death, realized in a childish way the added horror of this one. In her convulsive grief, and while her father and mother sat with sobs in their throats and tears overflowing, Mary straightened up and sobbed: "Mother, when I die I hope it will be of a disease and not of a damage!"

## SHE WAS BUSY, TOO!



She—And did my Ducks do a lot of work-work at the office last night? He—A—er—yes, dear; in fact, darling, I was so much occupied that I have never known time go as quickly as it did last night. She—Yes, dear, didn't it! (And Dickens wasn't out late again!)

## CUT OUT FOR A FINANCIER.

Shrewd Rascal Made Good Thing Out of Whistling Geese.

Two rogues passed a poultry shop. Seeing two geese hung up for sale one of the rogues inserted in the gullet of the goose a little bulb with whistle attached. When the bulb was pressed the whistle sounded.

Then, entering the store, he told the proprietor that he had hanging outside a very rare kind of whistling goose. The proprietor at once sold the goose for a big sum to a very learned professor, who was astonished to hear about the whistling goose. Seeking the man who had placed the whistle in the gullet of the bird, the proprietor asked him if he knew where others like it could be obtained.

"Well," said the crafty fellow, "I know of only one place, and if you will pay me a big price I will get several for you."

So the rogue brought a dozen fowls, in the gullet of each of which he thrust a whistle, and was paid an exorbitant price for them before the hoax was discovered.

## BRAIN POWER

Increased by Proper Feeding.

A lady writer who not only has done good literary work, but reared a family, found in Grape-Nuts the ideal food for brain work and to develop healthy children. She writes:—

"I am an enthusiastic proclaimer of Grape-Nuts as a regular diet. I formerly had no appetite in the morning and for 8 years while nursing my four children, had insufficient nourishment for them.

"Unable to eat breakfast I felt faint later, and would go to the pantry and eat cold chops, sausage, cookies, doughnuts or anything I happened to find. Being a writer, at times my head felt heavy and my brain asleep.

"When I read of Grape-Nuts I began eating it every morning, also gave it to the children, including, my 10 months old baby, who soon grew as fat as a little pig, good natured and contented.

"Within a week I had plenty of breast milk, and felt stronger within two weeks. I wrote evenings and feeling the need of sustained brain power, began eating a small saucer of Grape-Nuts with milk instead of my usual indigestible hot pudding, pie, or cake for dessert at night.

"Grape-Nuts did wonders for me and I learned to like it. I did not mind my housework or mother's cares, for I felt strong and full of 'go.' I grew plump, nerves strong, and when I wrote my brain was active and clear; indeed, the dull head pain never returned."

"There's a Reason."

Name given by Postum Co., Battle Creek, Mich. Read, "The Road to Wellville," in pkgs.

# IMMIGRATION FROM SOUTH EXPECTED

U. S. FARMERS ARE RECOGNIZING SPLENDID OPPORTUNITIES OFFERED BY WESTERN CANADA.

St. Paul, Minn., Feb. 9, 1908.—Present indications are that the Canadian Northwest will draw an exceptionally heavy movement of new settlers from the United States this year. It should surpass the banner record for 1907. This is not only based on the fact that the Americans have come to realize generally that the Canadian Northwest offers splendid opportunities, but also because the railroads have awakened to the fact and are offering rates to the Canadian Northwest which are exceptionally favorable.

The lines which lead to St. Paul from the east and south are offering homeseekers' rates to the Canadian Northwest this year which are on a parity with those in existence to the southwest for a couple of seasons.

These rates can be obtained from any agent of the Canadian government, who will be pleased to give all information possible regarding those districts which offer the greatest inducements to settlers. The weather throughout Western Canada has been remarkably good this year. A telegram from the winter wheat belt of Southern Alberta dated at Cardston, Alberta, January 29th, says:

"This winter up to January 25 was nothing short of a marvel, in fact, it was the finest anyone can remember for twenty-five years though there have been others nearly as good. The days were fine, sunny and warm with light frosts at night. Overcoats and gloves, etc., were discarded by most people in the day time. There was so little frost in the ground that post holes could be dug without any trouble after the first inch was broken through. Winter wheat remained fresh and green although there has been no snow since the September storm. If there is an early spring, winter wheat should gain a great start."

Amongst the reports of the yield of last year the following extracts are taken:

H. Howe, of Magrath, Alta, writing on November, 1907, says: "I have 70 acres in crop, 50 acres of wheat and seven acres of oats. My average yield of wheat was 35 bushels to the acre, and of wheat 45 bushels. The value to me was \$35 per acre."

J. F. Haycock, of Magrath, writes in November: "I had 65 acres in winter wheat, which yielded 60 bushels to the acre, as averaged 80 bushels. I also had 12 tons of hay worth \$10 per ton. I got 600 bushels of potatoes from three acres of land; I got eight tons per acre from five acres of sugar beet."

J. F. Bradshaw, of Magrath, had 1,030 acres of winter wheat last year which averaged 39 1/2 bushels to the acre. The value of his farm products per acre was: Wheat, \$31.60; oats, \$11.20 and barley, \$25.15.

## Getting His.

"Of course, you don't want anything you are not entitled to," said the conscientious man.

"Of course not," answered Senator Sorghum, "but I will incidentally remark that I always have the best legal talent available to ascertain what I am entitled to."—Washington Star.

Die when I may I want it said of me by those who knew me best that I always plucked a thistle and planted a flower when I thought a flower would grow.—Lincoln.

## Any 12 Year Old Girl

Can make those delicious Lemon, Chocolate and Custard pies as well as the more experienced cook if she uses "OUR-PIE" preparation, which is now sold by nearly all grocers at 10 cents per package. Just the proper ingredients in each package. "Put up by D-Zerta Co., Rochester, N.Y."

The surer a girl is about a man's being in love with her the less sure she is about being in love with him.

Why not the Natural laxative, Garfield Tea? It's Pure, Mild and Potent. Made of Herbs. Write for samples. Garfield Tea Co., Brooklyn, N. Y.

You will be surprised to find how much good there is in the world if you'll sit up and take notice.

## WHAT CAUSES HEADACHE.

From October to May, Colds are the most frequent cause of Headache. LAXATIVE BROMO QUININE removes cause. E. W. GROVE on box 25c

Try to get rich quick to-day, then hunt a job to-morrow.

PILES CURED IN 6 TO 14 DAYS. PAZO OINTMENT is guaranteed to cure any case of itching, blind, bleeding or protruding Piles in 6 to 14 days or money refunded. 6c.

There is nothing ill said that is not ill taken.—German.

### RHEUMATISM

is most painful. What's good?

# ST. JACOBS OIL

Gives instant relief. Removes the twinges.

USE IT, THEN YOU'LL KNOW

25c.—ALL DRUGGISTS—50c.

## REDUCED COLONIST RATES.

One-way tickets at special low rates on sale daily throughout March and April, from all points on The North Western Line to San Francisco, Los Angeles, Portland and Puget Sound points.

Daily and Personally conducted tours in tourist sleeping cars via the Chicago, Union Pacific & North Western Line. Double berth only \$7.00 through from Chicago. For full particulars write S. A. Hutchison, Manager, Tourist Dept., 212 Clark St., Chicago, Ill., or address nearest ticket agent.



Minister—I'm afraid you men will do anything for money. Meandering Mike—Yus; some fellows will even work for it.

To refuse to yield to others when reason or a special cause require it is a mark of pride and stiffness.—Thomas a Kempis.

"Brown's Bronchial Troches" are helpful to singers, teachers and clergymen for clearing the voice. Contain nothing harmful.

Of course men are not vain, but just tell a man of 50 that he doesn't look a day over 30 and watch the effect.

ONLY ONE "BROMO QUININE" That is LAXATIVE BROMO QUININE. Look for the signature of E. W. GROVE. Used the World over to Cure a Cold in One Day. 25c.

It is up to the dental student to take drawing lessons.

Mrs. Winslow's Soothing Syrup. For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle.

About the only law recognized by love is the mother-in-law.

### Macaroni! Wheat.

Salzer's strain of Macaroni or Kabanka wheat is absolutely pure and is from seed obtained from the Department of Agriculture. Our strain is Dakota grown which laughs at droughts and elements and positively mocks black rust that terrible scourge and would be ashamed of itself if it did not return from 40 to 80 bu. of the finest wheat the sun shines on per acre in good Ill., Ia., Mich., Wis., Ohio, Penn., Mo., Neb., Kan., and other lands, and 40 to 60 bu. per acre in arid lands. No rust, no insects, no failure.

JUST SEND 10c AND THIS NOTICE to L. E. John A. Salzer Seed Co., La Crosse, Wis., and they will send you the most original seed book published, together with free samples of farm seeds such as Macaroni Wheat, Billion Dollar Grass, Victoria Rape, Sainfoin, the dry soil luxuriator, Bromus Inermis, the desert grassifier, Emperor William Oats, more original than the Emperor himself, etc., etc., etc.

And if you send 14c they will mail in addition a package of farm seed never before seen by you. John A. Salzer Seed Co., La Crosse, Wis. K. & W.

### Action of Animal Charcoal.

Why animal charcoal removes the color from colored liquids while wood charcoal has no effect has not been understood. A European chemist now finds that the action of the former is due to the presence of five and seven per cent. of nitrogen.

### DODD'S KIDNEY PILLS

FOR ALL KIDNEY DISEASES

RHEUMATISM BRIGHT'S DISEASE DIABETES BACKACHE

75c "Guaranteed"

### HICKS' CAPUDINE

IMMEDIATELY CURES Headaches and Indigestion

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