





# POULTRY

RAISING CHICKS FOR  
BEST EGG PRODUCERS

(Prepared by the United States Department  
of Agriculture.)

Arrangements must be made to raise chicks to replenish the poultry flocks. Pullets are the most profitable part of the laying flock, and a well-balanced laying flock should consist of at least half pullets; which allows careful culling of the hens during the summer and fall before the pullets are matured, according to the United States Department of Agriculture.

Baby chicks need especially careful attention in breeding and feeding during the first weeks of their lives, which should be followed by careful and regular attention throughout their growing period. Early hatched chicks are by far the most profitable whether grown to maturity for laying or sold as poultry flesh.

The brooder house and stove heater which are used for caring for the chicks during the first few weeks of their lives, must be in working order before the chicks arrive. The most common style of brooding is the use of a stove brooder in a colony house, keeping from 350 to 500 chicks in a flock in each house, and placing the houses about 150 feet apart on a good grass range. A house 10x14 feet makes a suitable colony house which can be easily moved if built on runners. Chicks brooded in the winter will do better in a larger house, about 10x20, partitioned so that one side is used for a brooder stove and the other for a cool exercising room. Wire netting should be placed in the corners of the brooder house to prevent the chicks huddling and crowding in the corners.

Chicks should not be fed for the first 36 to 48 hours, after which they should be supplied regularly four or five times daily with easily digested feed which contains little waste material. They should be fed sparingly until about the fifth day; then they can be put on full ration. An excellent feed can be made of infertile eggs taken from the incubator, boiled for 15 minutes, chopped and mixed with dry mash of equal parts of cracker meal, bran and cornmeal, using a sufficient amount of the grain to make a dry, crumbly mixture. Middlings can be used in place of the cracker meal. Dry rolled oats are excellent for chicks and can be used as one feed, the other two or three feeds being the commercial chick grains.

At two weeks of age the chicks can be given a dry mash, in a hopper, consisting of 4 parts by weight of rolled oats, 2 parts bran, 2 parts cornmeal, 1 part high-grade meat scrap, 1 part middlings and 1/2 part dried buttermilk. Commercial chick feed should be fed three times daily in addition to the dry mash.

Milk is an excellent feed for chicks and should be provided either as a liquid or in the dry form to secure best growth. If liquid milk is available the dried milk can be omitted. When the chicks are one month old they should be fed a coarser or intermediate chick grain, add at about two months of age the scratch feed can be changed to equal parts of wheat and cracked corn. This should be fed two or three times a day.

## Concrete Floors Avert

### Dampness in Quarters

Many farmers who in former years lost money in poultry raising are now making it a success, all because they are learning that clean, dry quarters for poultry keep the flocks healthy and result in larger egg production and better birds for the market.

A chicken coop with a floor that is likely to become muddy in wet weather and to become a source of dust in dry weather is not conducive to healthy poultry.

Concrete floors are now being laid in chicken coops in increasing numbers. The farmer has found that these floors save his flock in many ways by prevention of mud and dust and by checking the rat menace. Concrete floors prevent rats burrowing under the coops if the floors are surrounded by a low concrete wall about 18 inches high. And if rats do enter the coops through the doors there is no chance for them to burrow into the ground to build nests. Exclusion of rats means a great saving of eggs and young chicks.

A good, practical hen house floor is one two inches thick, made of a "rich" concrete mixture, in which three parts of sand are used to one part of portland cement. This floor should be well smoothed over with a trowel.

Before laying a concrete floor a satisfactory base should be made to give adequate provision for drainage. An eight-inch fill of coarse crushed rock or cinders makes a good base for a concrete hen house floor.

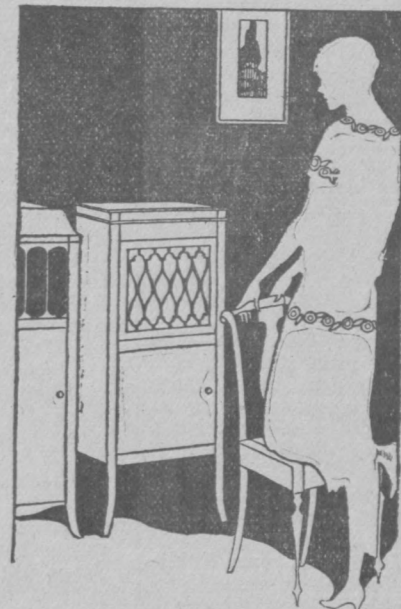
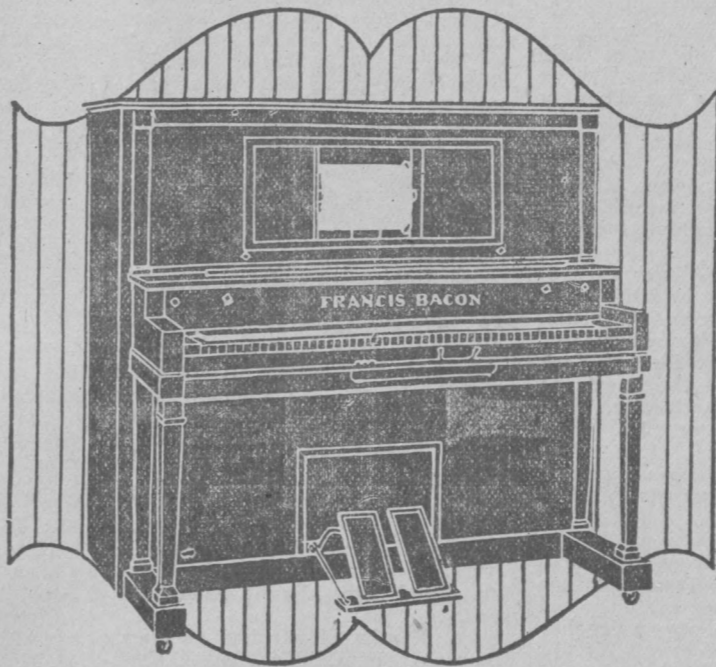
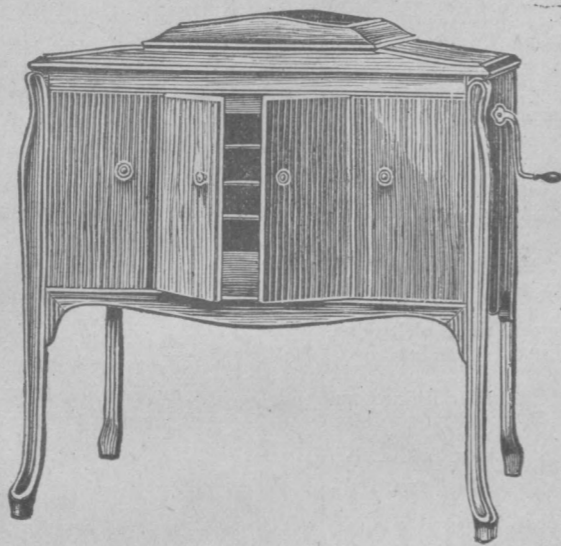
## Cleanliness Important

Nowhere is cleanliness more important than in the rearing of little chicks. Their lungs and entire organisms may be stunted and permanently weakened by compelling them to sleep in filthy quarters, breathing impure air night after night. Clean out the brooders and coops often, every day if possible, and give them a good sunning and airing. Nothing is more health-giving and inexpensive than pure air, for chicks as well as old fowls.

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## NACE'S MUSIC STORES

### Earliest Patriotic Song

The earliest patriotic song in America which L. C. Elson has been able to unearth is a "liberty song" advertised in the Boston Chronicle of October 16, 1763. Mrs. Marcy Warren, wife of Gen. James Warren of Plymouth, Mass., wrote the words. The tune was Boyces "Hearts of Oak." Mrs. Warren began the old American custom of setting patriotic verses to an English melody. "Yankee Doodle" antedated this song, but, says Mr. Elson, not as an American patriotic work, for originally it was a song in derision of the Americans. The Americans admired the tune, even though it was used against them. Early in our national career Americans appropriated the tune of "God Save the King." As early as 1779 the melody was adapted to American use, a set of patriotic verses having been written to it and published in the "Pennsylvania Pack." An "Ode for the Fourth of July" was written to the same tune, and became very popular. During the last quarter of the Eighteenth century "Washington's March" was the leading instrumental work of the American repertoire.

### She Knew Sheep

A young city woman went out to teach a country school. The class in arithmetic was before her. She said: "Now, children, if there are ten sheep on one side of a wall and one jumps over, how many sheep will be left?"

Then up piped a little tow-headed daughter of a farmer: "No sheep, teacher; no sheep." "Oh! oh!" cried the young city woman reproachfully. "You are not so stupid as that! Think again. If there were ten sheep on one side of the wall and one sheep jumped over, nine sheep would be left. Don't you see that?"

"No! no! no!" persisted the child. "If one sheep jumped over all the others would jump after. My father keeps sheep."

Then, seeing the puzzled look on the teacher's face, the little tow-head explained apologetically: "You know 'rithmetic, but I know sheep."—Charleston News.

### Interesting Book

A Berkeley coed was asked by her English instructor what she had been reading during her summer vacation. After a visible, desperate effort to awaken a recalcitrant memory, she said: "Why, ah, now, I've read a fine book called 'Edgar Allan,' by Poe."

### True Sympathy

Lawyer—What? Ten thousand a year to your wife if she marries again and only five thousand if she doesn't? That is unusual?

Client—Yes, but, you see, I think of my successor. He deserves extra!—The Passing Show, London.

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### Pressure of Steam

Modern steam boiler practice is catching up with pure science. Some engineers may have remembered at high school or college learning something of what is called the "critical temperature" or "critical pressure" of a gas, the former being the temperature above which the gas might not be condensed at any pressure, and the latter being the pressure when the critical temperature was attained. All this was considered "pure science" or "high-brow stuff" with no application to practical affairs. But the critical temperature and critical pressure of steam are only 706 degrees Fahrenheit and 3,200 pounds a square inch, and boilers are now being used at pressures of more than 1,000 pounds with the tendency toward higher and higher pressures. Many interesting things happen to both water and steam when near the critical point and now practical engineers are beginning to take keen interest in what was formerly thought fit only for laboratory discussion.

### A Distant Relative

At the wedding anniversary of a railway magnate, one of the guests, noticing a somewhat lonely-looking and rather shabbily-attired man in a corner of the room, walked over to him.

"I was introduced to you," he said, "but I did not catch your name."

"My name," replied the other, "is Swaddledorf."

"Oh, then you are a relative of our host?"

"Yes," rejoined the "poor relation," "I am his cousin, one hundred thousand sounds removed."

### She Was One of Them

"Yes," said Boggs, unthinkingly, "I can remember events of long ago as if they happened but yesterday. When I think of my boyhood days—of my escapades at school, of many of my youthful and later actions, and how I got married—I can't help smiling and thinking how many foolish things I've done."

And Boggs wondered why his wife treated him so coolly after the visitors had gone.

### Kept Them Awake

"Ain't got no Shakespearean actors now like what we had in the old days," declared Hank Hayfoot, a prominent member of the grocery lyceum.

"This is the repressed school," reported the city fellow who happened to be present. "You're thinking about the old-style robust school. All those fellows could do was to rant around and bellow."

"Well, they kept us awake, anyhow."

### Yes, by All Means

The Chap—You're getting prettier every day, Miss Daisy.

The Damsel—Now, Mr. Nottingham, you're really putting it on a little too thick.

The Chap—Well, let's say every other day then.

### Novelists Best Tenants

"We like to have tenants who receive as few callers as possible," said the manager of a big office building, according to Fred Kelly, writing in the Nation's Business. "Those who have a stream of people coming all day long help to congest the elevator service."

"On this basis a high-priced surgeon is more desirable than a dealer in cheap building lots, for fewer people are able to consult the surgeon than might wish to talk about the lots. The ideal tenant, though, would be a novelist. We once had one. He wanted a quiet place to work and didn't let any of his friends know where he was. His name was not in the building directory and he didn't even receive mail there. I don't believe he had a single caller the eleven months he was with us. I'd like to manage a building for hard-working novelists."

### Composer of "The Rosary"

Ethelbert Nevin composed "The Rosary." He was born in Vineacre, near Pittsburgh, Pa., in 1862. He began to attract attention when ten years old by his excellent piano playing and when he was twelve he was sent to Dresden, Germany, to study.

After returning from Germany he settled in Boston and became a well-known teacher and concert player, but in 1893 the charm of Europe, especially Italy, was too strong to be resisted, and the next seven years were spent abroad, says the Detroit News. The influence of southern Europe is very evident in the dreamy, romantic tone of much of his later music. In 1900 he became a music instructor at Yale university and was in this work when stricken with heart failure. He died in 1901.

Few modern composers have excelled Nevin in perfection of melody, critics say. While "The Rosary" is his masterpiece, "Narcissus" has received no small amount of popularity. Other compositions by Nevin are "Water Sketches," "Day in Venice" and "Twas April."

### Oldest Known Will

The oldest known will, found among the ruins of ancient Egypt and said to be 4,500 years old, was so constructed that its provisions would have to be carried out if made today, William C. Taylor, formerly recorder of wills, said in a talk on "Wills," delivered at the luncheon of the Newcomers club in the City club of Washington.

### Duck Had Free Ride

When Allen Barker of Nashua, N. H., went to his garage to get his machine, he saw a large white duck perched on the bumper. Barker recalled that late the night before while returning from Lowell, something white, resembling a piece of paper, struck the front of the machine about ten miles from Nashua. Believing that the paper would blow off, he continued home. The duck was none the worse for the trip.





# Community Building

## Zoning Operates to the Benefit of Entire City

The justice and legality of zoning under police or community power and the impracticability of zoning when attempted through property condemnation were emphasized at the national conference on city planning at Springfield, Mass. It appears to be difficult for some property owners to grasp the fact that zoning, in addition to its usefulness in stabilizing real estate values, is primarily a public welfare measure, and that its benefits are too numerous and too general to leave any occasion whatever for particular compensation through condemnation proceedings.

The legality of zoning, wherever it has been tried under reasonable conditions, has been established beyond doubt. The principle has been upheld, on two separate occasions, by the United States Supreme court, in one instance the approval of the high court being given where a zoning ordinance was retroactive. The principle goes back to the inherent right of the people of a state "to pass laws for the public safety, health, morals and general welfare." Exercise of the right is simply community power. It is known also as police power, although the police are in no way directly connected with it. Zoning authorities point out that this power is that which the state may use for protection against fire or the spread of disease. The high court of the nation has held that this power may embrace regulations aimed at promotion of public convenience and prosperity.

How zoning has to do with both public safety and prosperity may be readily seen. Through regulations governing the location of buildings and certain kinds of business and the nature of structure that may be erected in the various districts or zones, there come to be both protection of property values and insurance against unhealthy conditions. Plenty of light, air and sunshine are just as essential to physical well-being as is freedom from dirt, smoke and other unwholesome things that may be associated with commercial or industrial plants. In setting aside certain districts for residences and for industrial and commercial establishments, zoning operates to the benefit of all concerned.

Zoning is one of the fairest and most promising features of modern city development.

**Realize That Beauty Pays**  
"European cities have taught me never to apologize for beauty as an element in city planning," J. C. Nichols told Kansas City realtors who recently gathered at a dinner in Kansas City for a report on critical observance of Old World cities fashioned by the centuries.

"European cities realize that beauty pays, like commerce; that distinction in a city is a hold on the people," continued Mr. Nichols, who always has stressed the practical side of city planning. "Not costly ornamentation, not extravagance but beauty that is born in orderly lines, in stretches of uniform cornices, in artistic little shop fronts, in the play and sparkle of fountains, in the parks and free spaces, in vistas and in public buildings enhanced by proper placing. It is such things that make people love the old town."

A plea was voiced by Mr. Nichols for action that would make Kansas City distinctive among American cities, and for a cultural development that would remove any temptation for families of this region to remove with their children to either coast for "advantages."—Kansas City Star.

**Each State to Give Tree**  
The latest effort in tree planting under the auspices of the Forestry association is the new national arboretum in Washington, in which each state in the Union will be represented. Seeds from the trees with a history are being collected from every state. In the long list of famous trees to be represented in the arboretum are the Lincoln hackberry at Decora, Ia.; the Washington horse chestnut at Bath, Pa., presented to General Brown by George Washington; the Sir Joseph Hooker oak at Chico, Cal.; the Washington walnut at Maplewood, N. J.; the mulberry tree at Spartansburg, N. C.; the Rathbone elm at Marietta, O.; the Bartram cypress at Philadelphia, Pa.; the De Soto oak at Tampa, Fla.; the Whittier elm at Haverhill, Mass.; General Grant's tree, Chicago; the Webster tree at Franklin, N. H.; the battle ground oak and new oak at Guilford, N. C.; the council tree at Council Bluffs, Ia.; the Logan elm at Circleville, O.; Lafayette's tree at the battle of Brandywine; the tree planted by Lafayette at Yorktown, and many others.

**Good Street Tree**  
As a street shade tree the white ash has fine possibilities, says the American Tree association of Washington, D. C., which will send you a tree bulletin for a two-cent stamp for postage. Its comparatively light foliage makes it especially desirable for streets, as the open crown permits the passage of sunlight and free circulation of air. The tree develops a round, graceful top and it grows fairly rapidly. The Carolina poplar will grow in dark crowded streets.

## HOW

TO DECIDE ON THE BEST CURTAIN GOODS TO BUY.—Although springtime ordinarily blooms in the show windows much earlier than it does on the hilltops, even show window springtime doesn't come too early for one to begin thinking of the things that count in buying curtain cloth, says the Kansas City Star.

Briefly, these "things that count" are only two in number—suitability and durability. But the terms are inclusive enough also to call to mind such essentials as texture, color and design.

A suitable curtain cloth is one which harmonizes with the spirit of the room it is to drape. Heavy silks and velvets, so luxurious and exquisite in a large room of formal tone, are, for instance, quite out of place in a cottage or country home. And the checked gingham so charming for the informal nook would be just as out of place in the pretentious drawing room.

But design as well as material is a factor in suitability. Chintz of generous sized pattern, for example, is undesirable for a small room, or for the large room with figured wallpaper and great variety of furniture. For such a room, the only suitable choices, in fact, are either entirely plain curtains, or those of quite subdued pattern.

Durability has to do mostly with texture, and with coloring, which should be fast both to light and to washing.

Test for color fastness of the curtain cloth you contemplate buying by placing a sample under a small piece of flat window glass, one-half of which has been covered with black paint or black paper. Leave the sample under the glass in the bright sunlight for several days. You can tell the extent to which light will fade the material by comparing the portion under the clear glass to the portion that has been protected by the black strip.

To test the cloth's fastness to washing you can simply launder a small piece of it.

## How the Sap Runs

An authority on tree surgery, describes the process of the formation or elaboration of maple sap as follows: "Moisture in the soil dissolves and holds in solution certain mineral elements. This moisture, so charged, finds its way into the roots of the trees and then into the wood, in which it ascends to the leaves, through which it passes and from which a very large portion is evaporated, or 'transpired,' according to the term used to describe the process. It is estimated that a very large tree, bearing a big top, 'transpires' one hundred and fifty tons of water in a season. From the time the moisture enters the roots until it passes through the leaves it is termed 'crude' sap. Air, charged with carbonic acid gas, also passes through the leaves; and, meeting with the crude sap, yields to it the carbonic acid and emerges as pure air, while the crude sap, with its load of carbon, becomes transformed into what is known as 'elaborated' sap. In this form it finds its way back into the trunk of the tree, where it is conveyed in the wood, here and there wherever needed, into the inner layer of the bark, which is called the cambium. There it is transformed into the wood which forms the season's growth. This elaborated sap is the fluid which comes from the tapped tree and is made into sirup and sugar. It is, therefore, the sap on the downward journey that we use for sugar making."

## How Tree Limb Tells Weather

A peeled spruce limb, attached to the door of an office in the United States Forest Service's Forest Products laboratory at Madison, Wis., indicates humidity changes with very nearly the accuracy of a scientific instrument.

During the months when artificial heat is used, it bends far to the left. During the warmer months, when the windows are open and the air of the room is moister, it becomes nearly upright. These changes cause its tip to move through a distance of 30 inches, describing an arc of about 80 degrees. Dates indicated on a chart along this arc show its position at different times of the year.

This remarkable action arises from the presence of compression wood along what originally was its under side. Compression wood is found on the under side of limbs and on the lower side of leaning trunks of all cone-producing trees. It is the action of this wood that causes the limbs of standing dead trees to curve down during protracted dry weather. Moist weather swells the compression wood, straightening the limbs.—Popular Science Monthly.

## How Flies Spend Winter

It is a remarkable fact that scientists have never so far been able to determine for certain whether the common housefly survives the winter in the adult stage. It has always popularly been supposed that flies pass the winter in cracks and crevices and the following spring lay eggs, thus perpetuating the species. But the notion has no evidence to support it. No fly has ever been known to live from fall to spring.

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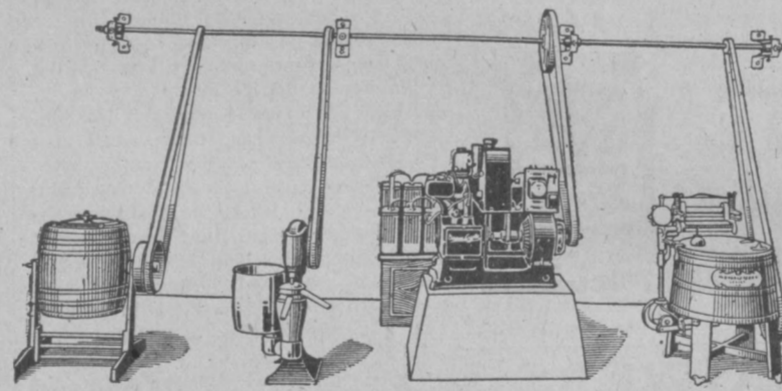
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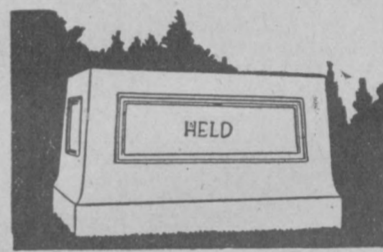
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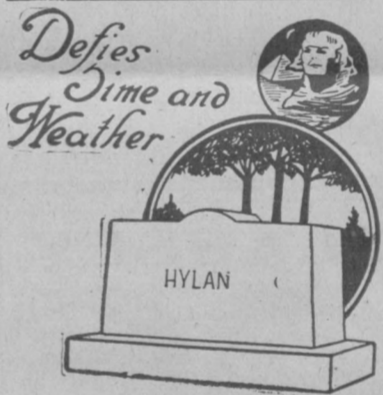
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