

POULTRY

INCUBATION PERIOD UP TO AGE OF EGGS

High-Hatching Stock Should Be Obtained.

By E. W. Henderson, Poultry Husbandry Expert, Iowa State College, WNU Service.

Eggs laid in the afternoon may hatch better than those laid in the morning. This was one of the phenomena revealed in various agricultural experiment station tests to discover factors causing poor chick hatches.

Another unusual fact, observed was that the time required for incubation is directly related to the age of the egg set. Those from 14 to 21 days old required 14 to 18 hours longer for incubation than did those held less than eight days.

Chicks slow in hatching were low in vitality, it was revealed. Only 8.7 per cent of the first 90 per cent to hatch died in the first eight weeks. On the other hand, 24 per cent of the last 10 per cent to hatch died during the same length of time.

High summer temperatures decreased the hatch materially. Sudden and sharp drops in temperature caused poor hatches four and five weeks following. Eggs laid during the week of "cold waves" were not affected.

Because the expense of getting information to determine the cause of a poor hatch is usually too great, it is advisable for incubator operators to obtain stock from high-hatching families and follow good feeding and management practices.

Hatching eggs should be stored where the temperature is below 68 degrees and above freezing. For best results they should not be kept more than eight days.

Other experimental findings revealed that high egg production during the winter and spring months did not harm hatchability. Eggs from high-producing hens hatched better than those from low producers.

Cross breeding improved hatchability. Turning eggs held from one to seven days before setting did not significantly influence hatching results.

One station found that pullet eggs hatched better than hen eggs.

Give Greens to Poults, Advise Turkey Experts

An experiment conducted by the College of Agriculture in California has developed the fact that turkeys need about twice as much vitamin A as do Leghorn chicks. This vitamin is the one which influences growth and is most abundant in green feed, and in the alfalfa meal commonly used in chick mash. In addition to the turkey mash, plenty of greens should be fed to poults in order to keep them growing properly. The greens will, in addition to supplying vitamin A, tend to keep the bowels in order and supply the greater bulk that turkeys require in their feed as compared with chickens. When poults are confined to wire floors and sun porches, however, it is necessary to cut the greens very fine, especially when the poults are small, so as to keep them from swallowing big pieces of greens, such as stems, and choking. After the poults are a month old or more they can be trusted with larger clippings of greens.

A Wet Mash Pays

It will pay well to feed the layers a wet mash. It will increase consumption of feed which promotes heavy egg production. If a small amount of milk is available, notes the Missouri Farmer, it will pay to mix this with the mash, otherwise plain water is beneficial. If the mash can be mixed with warm water or milk it will be relished by the birds. They should be fed all of the mixture they can clean up in about 20 minutes. A new theory among investigators as to why a wet mash causes heavier production is that a wet mash stimulates the reproductive organs of the layers rather than increasing the consumption of feed. Suffice it to say, however, that the effects are very beneficial and the extra work is a good investment.

Poultry Matters

Pullets hatched from large eggs will probably lay large eggs.

Students of egg quality and marketing claim that one state loses from \$3,000,000 to \$4,000,000 annually because of eggs being dirty.

New blood should be introduced into small turkey flocks occasionally according to recent results obtained at an experiment station.

Roup is contagious, and if an outbreak occurs those affected should be isolated at once and measures taken to rectify the cause.

The first requisite of an egg is superior interior quality. Size and appearance count for much in getting premium prices.

Absolute cleanliness of drinking utensils at all times will do far more in the prevention of disease than the addition of potassium permanganate to the drinking water.

IMPROVED UNIFORM INTERNATIONAL SUNDAY SCHOOL Lesson

By REV. P. B. FITZWATER, D. D., Member of Faculty, Moody Bible Institute of Chicago, © Western Newspaper Union.

Lesson for May 5 SIN, REPENTANCE, AND FAITH

LESSON TEXT—Luke 15:11-24. GOLDEN TEXT—If we confess our sins, he is faithful and just to forgive us our sins, and to cleanse us from all unrighteousness.—1 John 1:9.

PRIMARY TOPIC—When a Boy Was Sorry.

JUNIOR TOPIC—Jesus' Story of the Prodigal Son.

INTERMEDIATE AND SENIOR TOPIC—When We Do Wrong.

YOUNG PEOPLE AND ADULT TOPIC—The Forgiveness of Sin.

I. The Origin of Sin (Gen. 3:1-24). Man was placed on probation in the Garden of Eden. The means used in the testing of man were most simple. God issued just one prohibition, and alongside of the tree of knowledge of good and evil was placed the tree of life. To this tree man had access. Satan, a personal being, appeared in the guise of a serpent. He induced Eve to doubt both the Word of God and the love of God and then appealed to innocent appetite. She gazed upon and lusted after that which God had forbidden. Following her yielding to the suggestion of Satan, she induced Adam to disobey God. We see from this that so far as the human race is concerned sin originated in the free choice of the head of the race and through the law of heredity passed upon all mankind.

II. The Universality of Sin (Rom. 3:10-18). By the use of many quotations from the Scriptures, Paul proves that every member of the race is guilty of sin.

III. The Destiny of Sinners (Gen. 6:5-8). Man's rebellious disobedience to God was followed by his resolution to destroy the race from the face of the earth. God's holy nature is such that the sinner must be punished. The only escape from the wrath of God is through the Savior who was provided by God in the person of his Son.

IV. The Divine Remedy for Sin (John 3:14, 15; Isa. 53:4-6). The sinless Son of God took the place of the sinner by becoming incarnated with the race through the incarnation. As a human being he rendered perfect obedience to the law of God, fulfilling every demand and on the cross of Calvary made a vicarious atonement for sin. Just as the Israelites who were bitten by the venomous serpent were healed by looking to the brazen serpent lifted upon the pole, so is the sinner saved from sin by looking to the one who was made a curse for sin in his sacrifice on Calvary (II Cor. 5:21).

V. Repentance Necessary (Acts 2:32-38). The one who hears the gospel message and receives the crucified Savior not only has forgiveness of sin, but turns from sin to God and thus repents. On the Day of Pentecost Peter's gospel message, which centered in the Lordship and Saviorhood of Jesus Christ, convicted the people of their sins. The evidence of their faith in Christ was manifested in their conviction of sin and their repentance was shown in their confession of Christ in baptism.

VI. The Forgiving God (Luke 15:11-24). The center of things in this parable is neither the prodigal son nor his brother, but the "certain man who had two sons." He who fails to see the heart of our Father God will miss the purpose of this parable.

1. The son's insubordination (v. 12). The son's desire for freedom moved him wilfully to choose to leave home.

2. The son's departure (v. 13). Having made the fatal decision, he went posthaste to the enjoyment of his cherished purpose.

3. The son's degeneration (vv. 13, 14). From plenty in his father's house to destitution in a far country was a short journey. The sinner realizes his destitution when the very powers which minister to his pleasures are burned out.

4. The son's degradation (vv. 15, 16). When his money was exhausted, he was driven to hire out to a citizen to feed swine. It is ever so, that those who will not serve God are made slaves to the devil (Rom. 6:16).

5. The son's restoration (vv. 17, 24). a. He came to himself (v. 17). b. He made a resolution (v. 18). c. He made a confession (vv. 18, 19). d. He acted (v. 20). e. Reception by his father (vv. 20, 24).

The father had not forgotten his son. So anxious was he for him that he ran to meet him and fell upon his neck and kissed him.

VII. Justification the Issue of Faith (Rom. 5:1-11). The one who receives Jesus Christ is declared righteous. His guilt is removed; he has peace with God.

Ordeals The hardest of all ordeals for a honest man is to stand arraigned at the bar of his own conscience. He knows more than the keenest, the most vindictive enemy could urge for a verdict of guilty.

Charity A man's charity to those who differ from him upon great and difficult questions will be in the ratio of his own knowledge of them, the more knowledge, the more charity.—Norman McLeod.

Knitted Apparel Goes Ultra Chic

By CHERIE NICHOLAS



to the left one can almost fancy the knitting needles clicking a ditty, to wit: "If fashion sends diagonals then diagonals' my choice." Which is exactly what we have been trying to say in regard to knitting as now is. It is as facile and amenable as any woven-on-loom fabric and what's more, knitted fashions are not missing a "trick" when it comes to styling with fetching details, silhouettes and accessory notes.

IF YOU would keep in the very forefront of fashion you simply must wear something knitted this spring. Not only is the smart set taking to knitting with more enthusiasm than ever, but knitted things sold in the shops were never more fascinating. So whether you knit your own or buy, you are certain to be smartly clad if your suit, frock, coat, blouse likewise hat, gloves, belt and scarf, one or all are knitted.

Astonishing things are being done in knitted realms nowadays. Every fad, fobble and intriguing move of fashion finds interpretation via knitted art on the new style program. Which accounts for the increasing enthusiasm expressed for knitted modes this season.

The stunning three-quarter coat to the right in the picture is one unmistakable "reason why" women are continuing so wholeheartedly knitted-minded this spring. It can be knitted rapidly because it is of heavy white cotton and made on large needles.

Wide-at-the-wrist sleeves, a flattering collar and pouch-shaped patch pockets lend a casual air to this youthful model. The beauty of this coat is that it can be tubed so easily. If you prefer, make it of the new linen yarn or string. In either event, cotton or linen, this coat is a swank fashion and its "endearing charms" will give you joy the entire spring and summer through.

In looking at the cunning jacket-suit

© Western Newspaper Union.

SPRING BRINGS NEW SHADES IN MAKE-UP

New spring shades are going to mean some new spring make-up for the woman of discernment.

Yellow, one of the favored spring colors, and beige, are calling for a coral tint in rouge and lipstick. Navy, however, requires a deeper tint, bordering on the red, rather than on the orange shades. With white or black, orange or the more brilliant shades of red will be advisable.

Local department stores have charts showing the shades of rouge and lipstick which should correspond to the shades of your clothes.

No longer is it adequate to have one shade of rouge and one shade of lipstick, the authorities divulge.

As for eye-shadow: blue goes with blue eyes, green with green, or brown eyes, and for evening a new shadow with silver dust in it, that is dramatically effective.

Flapper Mode Revival Is Suggested by Short Skirt

The introduction of the short, full skirt in some Paris collections has set the fashion world to wondering whether the flapper is returning. Several designers showed daytime skirts that were an inch or two shorter than those of the previous season and most of them endorsed skirt fullness. Pliants and gathers shared attention.

Fluctuating skirt lengths also were a sensation of the evening modes. Ankles appeared again and again. The skirt which was sufficiently short to show footwear at the front frequently was lengthened to touch the floor at the back and sometimes to form a train.

Peasant Influence The peasant influence has come to town, accenting slowness with its full lines. Fullness is used effectively, be low shoulder yokes, back and front with a suggestion of gathered flounce at the back of the skirt above the neckline. Waist and hips and shoulders look twice as slim by comparison.

WEAR FLOWERS

By CHERIE NICHOLAS



'Tis said that fashions will be gay with flowers this season. The news of first importance in the realm of stylish flowers is the carnation. The favorite boutonniere of the moment is a big fluffy many-petaled carnation, white, pink, red or even navy blue. Garlands of flowers will be worn like a necklace. Add a flower bracelet if you will. A wreath in the hair, too, if it is evening. There is rumor in the air that hats will be trimmed in natural flowers—a special little contrivance to hold them and to permit removing to change for fresh flowers. The flower ensemble in the picture is interesting and very lovely. The turban and the cuffs of the gloves are made of shaded purple violets. The bows are of satin ribbon in a deeper shade.

Hats Go Bi-Colored

Here's something new in spring hats. Suzy makes a straw sailor whose right side is yellow and whose left side is black. It is finished with a simple black ribbon trim.

"QUOTES"

COMMENTS ON CURRENT TOPICS BY NATIONAL CHARACTERS

USE OF GAS IN WAR

By CAPTAIN G. J. FISHER, Chemical Warfare Service. THE next war is not much more likely to be fought on a chemical basis than the last. We don't expect the number of deaths from chemicals to be materially greater than in the last war.

The military effort required to fly chemicals against cities is such that it is doubtful whether military commanders would feel justified in directing men and materials to that purpose.

The progress made in developing gases since the World War has not been as great as the general public has been led to fear. Those who point out that one ton of mustard gas is capable of killing 30,000,000 people run dead up against the fact that in the World War a ton of this gas actually killed but three persons.

CUBAN DIFFICULTIES

By SUMNER WELLES, Assistant Secretary of State

THE solution of their political difficulties lies now solely in Cuban hands. We have abrogated the Platt amendment. We have renounced the rights of intervention which we had previously secured, and we have made it emphatically clear that this government would interfere neither directly nor indirectly in the internal concerns of the Cuban people.

When any people has suffered economic prostration coincident with a political dictatorship, and the dictatorship is overthrown by popular uprising, it is almost inevitable that for a period of time that country will pass through varying stages of political unrest. That is what occurred in Cuba.

PERMANENCE FOR CCC

By PRESIDENT ROOSEVELT

IT IS my earnest hope that the work carried on by the Civilian Conservation Corps will find a permanent place in our government.

Only in that way can the nation, through future generations, enjoy the full benefit of what already has been accomplished and the full measure of all that ultimately will be achieved.

The results achieved in the rehabilitation of youth, the conservation of our natural resources, the development of new recreational opportunities for our citizens and the quickening of business recovery have proved so worth while that I have not hesitated to recommend continuance of the Civilian Conservation Corps camps for another two years.

PENDING RAIL LAWS

By W. W. ATTERBURY, President Pennsylvania Railroad.

PROPOSED legislation, if enacted, would place an insupportable burden upon the railroads without advantages to the employees. Any treatment of their problems which omitted consideration of the overhanging threat to the integrity of the industry, would be tantamount to the destruction of efforts looking toward recovery in the field of railroad transportation. Such legislation would mean ultimately less employment in the railroad industry rather than an increase in employment, as contended by the sponsors of this legislation.

ONLY PASSING PHASE

By ANDREW W. MELLON, Pittsburgh Banker

EVEN at 80, one does not acquire the gift of prophecy, but I look forward to seeing the return of normal conditions again within my own time.

America is going through a bad quarter of an hour, but present conditions, however distressing, especially in terms of human suffering, reflect only a passing phase in our history.

New generations are coming on and new inventions and the advance in human intelligence will solve many problems that now seem insurmountable.

OUR TAX BURDEN

By MARK GRAVES, New York Commissioner of Taxation and Finance.

IN 1929 the national income was \$90,000,000,000, while last year it had fallen to about \$45,000,000,000. The tax burden in each year was approximately \$10,000,000,000. I believe it should be obvious that we are suffering today because nearly one-quarter of our income is taken for taxes of one kind or another, direct or indirect, whereas the share was only about one-ninth of our income at the beginning of the depression.

ARMS FOR PEACE

By ADOLPH HITLER, German Chancellor.

FOR in this hour the German government renews before the German people, before the entire world, its assurance of its determination never to proceed beyond the safeguarding of German honor and freedom of the Reich, and especially does it not intend in re-arming Germany to create any instrument for warlike attack, but, to the contrary, exclusively for defense and thereby for the maintenance of peace.

ODD ENGLISH CHURCHES

A cowshed has been converted into a church at Bordon, Hampshire. It has central heating, electric lighting and an organ. The church is undenominational. Services are held on Wednesday evenings to avoid competing with other religious organizations. A stone church in Islington was formerly a furniture depository for ten years. And a Roman Catholic chapel-at-ease at Nottingham, Kent, was originally a stable and was afterwards used as an annex to a lun. Still later, it was fitted up as a half-dressing salon, before it finally became a church.—Pearson's Weekly.

Dr. Pierce's Pleasant Pellets are the original little liver pills put up 60 years ago. They regulate liver and bowels.—Adv.

"What's Your Hurry?"

"Darling, answer me, I am on the rack."

"So is your hat," came a deep voice from the hall. Whereupon the young man took the hint, his hat-piece and his departure.

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IT is all so simple and reasonable. If your physical let-down is caused by lowered red blood corpuscles, which is all too frequent—then S.S.S. Tonic is waiting to help you... and will, unless you have a serious organic trouble that demands a physician or surgeon.

Remember, S.S.S. is not just a so-called "tonic." It is a tonic specially designed to stimulate gastric secretions, and also has the mineral elements so very, very necessary in rebuilding the oxygen-carrying red corpuscles in the blood.

This two-fold purpose is important. Digestion is improved... food is better utilized... and thus you are enabled to better "carry on" without exhaustion—as you should naturally.

You may have the will-power to be "up and doing" but unless your blood is in top notch form you are not fully yourself and you may remark, "I wonder why I tire so easily."

Let S.S.S. help build back your blood tone... if your case is not exceptional, you should soon enjoy again the satisfaction of appetizing food... sound sleep... steady nerves... a good complexion... and renewed strength.

S.S.S. is sold by all drug stores in two sizes. The \$2 economy size is twice as large as the \$1.25 regular size and is sufficient for two weeks treatment. Begin on the uproad today. © S.S.S. Co.



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