

"Poultry culling" is a comparativemeans much to the poultry industry part of the anatomy, while developed, as poultry culling has become the best is hard and lifeless to the touch. and quality of the egg sack, the bird done.

to determine which of his cows were that it would be throwing money away to feed except for fattening purposes.

The business of poultry raising has often been a haphazard affair. The few hens that were kept would be thrown feed of indefinite quality and quantity and often provided unsuitable houses both from the standpoint of sanitation and protection from the it impossible to produce profit from even the best hens. At first we learned of proper housing and the use of egglaying rations and through these we be called efficiency in poultry raising until the poultry culling method became thoroughly established.

physical condition. One of the most by other examinations. For instance, will be quite certain to find a similar ness is one which will be found on all of the heavy producers. The skull sion, should be moderately narrow and the face lean and delicate. A wide skull Preference should be given to the hen gain and nothing to lose. with an oval eye which shows con- by the old method he is should be refined, and not thick and losses instead of profits. heavy set. The beak should be short and strong and slightly curved, and

or is ready to lay, her comb and wat-tles are plump and full of blood and all of the good-laying requirements, could make in a day's work. tles are plump and full of blood and all of the good-laying requirements, could make in a day's work. should have a somewhat waxy feeling unless she is given the food with to the touch. When she is not laying, which to produce eggs and a house in pale in color and hard, and is usually protects her from the elements, cancovered with whitish scales. A very not do her full duty. dark comb is usually an indication of . During the summer when the hens

On the yellow legged birds, the pigdetermine the laying qualities of the hen, especially her past record. It hen, especially her past record. It is a proven fact that the yellow legged produce eggs. An examination of bird will "lay out" the yellow color many farm flocks would show that the bird will "lay out" the yellow color in her legs, around the vent, the wattles, and in the ring around the eves. hen that has bright yellow legs has been a low producer, or to say the least, has been resting for a long time. The legs of a heavy laying bird thing on the farm. become almost white, although a short rest may cause some of the yellow pigmentation to come back or to be restored. In the use of this test, one must guard against the freaks in the yellow-legged breeds which are sometimes born with light-colored legs. assuring the most effective spray The use of the pigmentation test is solution, is now recommended by sevusually supplemental to the other eral experiment stations. s used in determining the lay-

indication of laying, however, since with another twenty-five gallons of then it has been found that the ca-water in another container; and by of the hen is best determined pouring the two dilutions together. by the distance between the keel bone and the pelvic bone, and the flexibility as safe and more convenient, is deof the egg sack. Hens which are non-scribed as follows: producers often have the keel bone Suppose you have a fifty-gallon and the pelvic bone so close together tank to fill with 5-5-50 Bordeaux. that it is hardly possible to get more Place in this tank five gallons of the than one finger between them. Good stock copper sulphate solution, equivalent show plenty of room for four alent to five pounds of crystals, and fingers. This space between the keel then add thirty-five gallons of water and the pelvic bones indicates capacity for good digestion and it helps in the good digestion and it helps in the graduction. Depth from the back stone lime, dilute it with five gallons

be flexible and mellow to the touch ly recent addition to the vocabulary and should feel full, warm and life-of the poultryman. This term already like. On hens of the beefy type, this

is properly balanced in handling, in-correct conclusions might be derived. Poultry culling may be well com-pared with the Babcock test of the Hold ber firmly in the right hand, dairyman. By the use of the Babcock balancing and supporting her weight test and the scales, the dairyman has the left thick Wald in this way the been able to eliminate the star board- the left thigh. Held in this way, the ers from his herd. Before it came in hen makes no effort to escape and the use, it was difficult for the dairyman measurements for capacity and quality can easily be made with the left producing a profit and which were hand. The right leg should be free, causes of losses. In the same way the as otherwise a cramped condition of practice of poultry culling enables the abdomen may result and a proper the poultryman to, select the hens determination could not be made. Mr. which are his best layers, those which Foreman says that "capacity indicates have a fair capacity for laying and the rate of yolk elaboration on the also those of which it might be said cycle of production, but the quality of the egg sack determines the rythm or the number of months the hen will be productive."

General observations will help much in selecting a productive hen. A busy protecting it against bruising happy, singing hen is usually a productive one, and one which moults late tree. basket. Early moulters usually take weather. Such conditions would make a great part of the season to do their of force, thus causing a great deal of moulting and will not be productive until the next spring. On the other hand, late moulters have undoubtedly been busy in egg production during would obtain increased egg yields, but the summer, therefore have put their we never could get down to what may moulting off until fall. They usually moult quickly and start laying again when egg prices are up.

Many farmers have sent their most Pcultry selection is based upon the productive hens to the market at the conformation of the hen and her time they cull them out in early fall. The usual practice has been to save important indications of the condition the best looking hens and to market of the hen is the head. A study of its those which may look somewhat conformation will show many valu-straggly. A hen that has been active able points that will be substantiated in egg production is usually not in the best physical condition, because egg if you find a healthy, refined head, you production is a great strain. Her feathers may not be as handsome as body back of it. A head which indicates feminism, intelligence and alert-boarder, but she gets results. In this respect we can fitly recall the expres-"Fine feathers do not always make fine birds."

There is every reason with hanging eyebrows and an indi-cation of fatty wrinkles is common to the kind of bird which will put on with this method of poultry selection. fleah rather than to produce eggs. In practicing it he has everything to siderable of the eye membrane direct throwing money to the winds when he ly in front of the eye-ball. The jaw is feeding a lot of hens that produce completely changed her home by mov-

It is understood, of course, that and strong and salgely curved, and distance from the eye to the beak should be short.

The comb should indicate a good healthy red and should be of good size for the breed. When a hen is laying or is ready to lay, her comb and water or is ready to lay, her comb and water of the distance from the eye to the beak should be short.

The comb should indicate a good healthy red and should be of good size for the men's outside gar-little vestibule, which opens out upon work of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon some of your difficulties. You wouldn't believe unless you saw good care to hens that will never produce a profit. On the other hand, it that partition and altering the position of stoves, tables and cumboards in the kitchen. This door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon south of the door opens into a closet for the men's outside gar-little vestibule, which opens out upon and dining-room.

In the kitchen. This door opens into a closet for the men's outside gar-little vestibule, which opens out upon and dining-room. poultry culling will not take the place

disease. A hen that has a crow type have opportunity to pick their living, of head will never be a producer and she might as well be consigned to the ficient extra feed to keep them in good shape. Egg production very frequentmentation test is also of value to ly falls off during the summer, be cause the hens are not getting suffihens are too thin to even be called normal.

A hen properly selected and properly cared for will produce as much for the time and trouble involved as any-

Easy Way to Mix Bordeaux.

A convenient modification of the safe way to make Bordeaux mixtures,

The old method, long followed by ing condition of the bird.

Careful and progressive growers, was

The condition of the egg sack is to make the standard 5-5-50 Bordeaux one of the most important things to by mixing five pounds of copper sultake into consideration. A few years phate with twenty-five gallons of ago when poultry culling first became water in one container; by mixing known, the flexibility of the pelvic five pounds of copper sulphate with bones was supposed to be the best twenty-five gallons of burned lime

to the keel bone is also desired. The of water, pour it into the copper sulbird that is lacking there and is high phate solution, and stir the two tolegs does not usually show ca- gether. Remember always to dilute the copper sulphate before mixing. The quality of the egg sack is de- Never add concentrated copper sulexamining that portion phate either to weak or strong lime

Picking Apples.

One of the most important operations performed on the fruit farm is the picking of the fruit, because in Winnipeg and Winnipegosis. Othermany cases the next year's crop of apples depends on the way the apples cre picked. By all means do not allow the apple picker to pick two years'

leaks which have stood in the way of must be properly handled. Unless she up and down on the fruit removes it

coming in contact with the ladder or When bottomless bags are used is one which will usually fill the egg the pickers will often let the fruit

the reverse. That there may be no lack of knowledge on the subject, there has been issued by the Department of Agriculture at Ottawa a revised edition of a bulletin entitled business. "Lime in Agriculture," in which the Dominion Chemist, Dr. F. T. Shutt, has dealt comprehensively with the subject. From this bulletin it is the dairy cows. Calves will not make learned that there are several classes proper growth, beef animals will not of lime, such as quick lime, burnt lime, gain flesh and horses will not be able caustic lime, stone lime, etc., also that to do their maximum amount of work limestone of excellent quality is to be if they are forced to fight flies.

found in many parts of Canada, especially in the East and at some points in British Columbia. Some exists in Manitoba in the vicinity of lakes refuse is sometimes sold as "Agricul-tural Lime," but the advice is tender-

Is your farm losing its_fertility? Did you do it? What? Let you son in as a partner in the farm

Do not stop with the spraying of

The Sunday School Lesson

AUGUST 21.

Paul Prepares for World Conquest. Acts 15: 1-16: 5. Golden Text-Acts 15: 11.

low the apple picker to pick two years and the apple picker to pick two years are found to a comment of the apple picker to pick two years are found to a comment of the apple picker to pick two years are found to the apple picker to a first of the apple picker to th

are simply allowed to round out on Roman road which ran east and west grass and sent to market only partly through Asia Minor, along which finished, where they are known as came heavily laden caravans, and Rotree. When bottomless bags are used the pickers will often let the fruit shoot into the barrel with a great deal of force, thus causing a great deal of damage to the fruit.

**The carcasses of such hogs are suitable for the production of mess pork able for the production of mess pork and lard rather than for sale as fresh meat. They sell at a big discount below well finished barrows and smooth young sows. "Butcher hogs" usually in proper quality, and at the proper time will prove beneficial to most soils. Used otherwise, its effects are the reverse. That there may be no and Rome. Already he must have entertained the hope of some day car-rying his victorious gospel along that westward road, and of winning the

Roman empire for Christ.
15: 1-35. Certain men which came down from Judea. These were Jewish converts who held that all who believed in Jesus should conform to the Jewish laws. For them faith in them was not enough for salvation. They were willing to admit the Gen-tiles, if the Gentiles would submit

for the sake of peace stain from certain things which were stain from certain things which were peculiarly offensive to their Jewish neighbors and fellow Christians (vv. 20, 21). Letters were written and sent by two trusted men to the Christians of Antioch, in which the work of Paul and Barnabas was commended. A great victory had been won for Christian faith and freedom.

15: 36—16: 5. Let us go again. The victory was won, and the way was open for the apostles of the Gentiles to continue their work. They could go everywhere now, with the full consent and accord of the great leaders and founders of the Church, and open the door wide to their Gen-tile converts. In Christ there was to be no more Jew nor Gentile—all were to be one in faith, whatever difference to be one in faith, whatever unference of practice or custom, or law there might be. The way was open for a triumphant progress of the gospel to all the nations.

The thought of Paul turned now to the control of the

The thought of Paul turned now to the young and struggling Christian communities in Galatia, and he pro-posed to Barnabas that they should go and visit them. Perhaps his thought reached out beyond them, too, to the road that ran westward to the Ægean Sea, to Ephesus and Smyrna, and the other Greek cities, and the islands and coast beyond

Coast beyond.

The contention, which arose about John Mark, could not be settled. He John Mark, could not be settled. He was nearly related to Barnabas, who was naturally ready to forgive him for having left them on the first journey. But Paul would not take him again Long afterward we know that he was reconciled to Mark, and that Mark was with him in his Roman prison (Col. 4: 10 and 2 Tim. 4: 11). The friends parted, and Paul took with him Silas (or Silvanus), one of the two messen. (or Silvanus), one of the two messen-gers who had been sent with the let-ters of the Jerusalem council to Antioch (15: 22). This time he overland, travelling northward and westward from Antioch.

Timotheus, or Timothy, was a native of Lystra, a young man who had been led to faith in Jesus Christ trach Paul's first visit to that city. Of his mother and grandmother Paul speaks in a letter written many years later (2 Tim. 1: 5). The company of three went on, visiting and encouraging the

Application.

In last week's lesson we saw how Paul and Barnabas were horrified when men thought they were gods. "We also are men of like passions with you," they protested. To-day's lesson teaches how true those words were. Apostles, leaders though they were they were very human and per were they were very human, and per-haps it is a good thing for us that we have this account of the sharp difference of opinion which took place. Some people are very fond of talking about the "good old times," and the wonderful people who lived long ago. They disparage everything modern and praise everything which happened

They disparage everything modern and praise everything which happened in the past. If such people would just take their New Testaments and read over the Acts of the Apostles or some of the epistles which had to be written to correct grave abuses, they would not rave so much about the past.

Alexander Maclaren used to say that one of the surest proofs of the truth of the iBble was its perfect candour. We all know what it is to read a book of fiction in which the hero conducts himself so that there is never a flaw to be found either in his conversation or his conduct. The heroes of the Bible are not set forth in that light. If Moses loses his temper and strikes a rock we are told about it. If Elijah becomes depressed and cowardly we have an account of it. If Job loses his patience and Divid his punity we have an account of it. If Job loses his patience and Divid his punity we have an account of it. If Job loses his patience and Divid Testament we read of the inconsistencies as well as the magnificent heroisms of Peter and Paul and Barnabas, and many other servants of God isms of Peter and Paul and Barnab and many other servants of God.

Imperial Fruit Exhibition.

Entries to the Imperial Fruit Exhibition close September 30th. All entries and entry fees in the Overseas and British Empire Sections must be in the hands of the Fruit Branch, Department of Agriculture, Ottawa, on or before September 20th. British Empire and Overseas ex-

C. W. Baxter, Fruit Commissioner.

hibits must be entirely separate.-

Why Women Stay on the Farm If you are one of the many women corner. A door led from the kitchen up by the pantry door, the cupboards whose work is made ten times as hard onto the porch.

she has a shrunken comb which is which to live that is sanitary and erage farm kitchen, too small for all side of the pantry to the pass window. stoves twice a year, and having to see porch.

as it need be by an inconvenient kitfive feet off the large dining-room, by the old method he is virtually chen and a misplaced pantry, this thus making the kitchen irregular in ing a partition along five feet, and workroom. Not all the space taken from the dining-room was needed for eliminating the pantry altogether, kitchen space, so this was made into

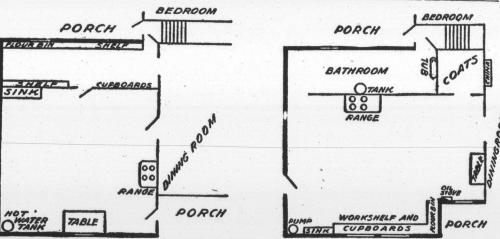
> Mrs. Baird owned the kitchen. It kept in the pantry, the china in cupthe things which should be in it. In The flour bin and broad shelf were on fact, it was the summer kitchen, with the opposite side under a window

kitchen. A door which in the old arrange ment led from the pantry to the cellar

was much such a kitchen as the av-erage farm kitchen, too small for all side of the pantry to the pass window. is always clean and is utilized as a

has been utilized to give an outside entrance to the bathroom so that workmen may enter that room and wash up, without bothering workers in the kitchen. This door opens into a The electric light system and the

pump for the water supply are in a cellar under the kitchen, which, being laundry. Water, pumped from the well by a windmill is stored in a all that implies in the way of moving which looked out on a screened-in storage cistern underground outside. The pump is automatic, starting when



These diagrams, before and after r emodeling, show inconvenience changed to convenience in the kitchen. The cupboards were torn out of the the tank, which holds only a pailful,

your dining-room steamed up in the winter months with cookery. ing-room. There wasn't a door into steps to eliminate them.

The old kitchen, as you will see, has no furnace.

The pantry and taken to the kitchen. A is emptied. pantry, as you can see by studying the second window was cut through alongwindow through which dishes and space enough for the sink and cistern food might be put. Flour bin and pump. The door leading onto the porch summer, you stood in the pantry to ing board beneath. This brings the get your cookies ready to bake, and things for baking altogether. The old while you might put them through pantry was then converted into a ning water means to a housekeeper, the window into the kitchen, you had bathroom. The range was moved from the says. "You can't imagine how to travel around out there through its position by the dining-room wall, much water it takes to do the day's the dining room to get them into the and set next the bathroom wall, where work on a farm, especially a dairy oven. It meant no end of steps that connection could be easily made with shouldn't be taken, and Mrs. Baird the hot water tank in the latter room. being a progressive farm woman took The tank was placed in the bathroom We used to have a jar which held to assist in heating it, as the house

and the hat water tank filled another built of the wall space formerly taken give that up now, either."

An electric washing ma first illustration, opened off the din- side the other, and a work-shelf with tric vacuum cleaner, and electric iron cupboards beneath built along this en- are among the labor-saving devices it from the kitchen, just a little pass tire north wall, with the exception of which makes life on the Baird farm easy, but in spite of these conveniences Mrs. Baird declares that if she moulding board were in the pantry. Was walled up and boards built in could have but one—electricity or run-This meant that on baking days in this niche, with flour bin and mould-ning water—she would take the water. ning water—she would take the water. "Nobody knows unless they

farm like ours, with all the milk cans and pails and strainers to care for. twenty-five gallons, and was filled was a rectangle, about 11x12 feet. The range stood against the wall separating the kitchen from the dining-room, the sink was in the farthest corner by the pantry wall. The table was on the on the perch side of this alcove. In opposite wall under one window, and the hat water tank filled another built of the wall space formerly taken give that up now, either."

A dairy farm should have a sile, and a form that can afford a silo can afford a bathroom.