

A recent trip with one of our county work revealed the fact that most of the farm hens are not being fed enough for efficient egg production. therefore be the cause of future loss In fact the thinness of the hens indicated that they were not getting enough to eat to maintain normal bodily conditions.

hens are not purposely brought to this condition. Most farmers undoubtedly think that during the growing season the hens will scout around and pick up enough to maintain themselves in good condition. The hen is not like other farm animals, in that it does not show its conditions upon casual observation. Her feathers cover her body so that it is impossible to tell its condition without examination. Therefore a farmer's hens often get in poor shape before he is aware of it. The only thing that may be noted is that egg production has dropped off.

Under natural conditions the hen lays her quota of eggs in spring, gets broody, hatches out a brood of chick ens and spends the summer in taking care of them. She becomes thin and in poor condition, ranging around endeavoring to get enough for herself and her flock. In the fall when the grains ripen she gets enough to put herself in fairly good condition to help her through the winter.

The hens that are now getting thin are either at the end of their laying for the summer or have stopped laying some time ago. Before they star again they will go through a moult, probably early in the season. And it is a known fact that early moulters of the year.
are not winter layers. For instance,

2. Production of lambs of early ma are not winter layers. For instance, a hen that moults early in August will very likely be a drone until next spring, whereas the one that has been busy laying all summer and delays her moult until late fall will soon recover pastures and flock management. from the moult and start producing eggs again.

the flock culled so as to eliminate all in protected quarters at night.

bens that are naturally poor layers

5. Use of pasture to the greatest hens that are naturally poor layers and would not pay a good profit even if well fed, and then gradually feed up the remainder of the flock. A good method is to allow the hens free range as before and then have available to them in a feed hopper the following mash: Equal parts by weight of corn meal, bran, middlings, ground oats. If sour milk is available give them plenty of it. If it is not, add to the mash three-quarters of a pound of commercial meat scraps to every four pounds of the mash. Sour milk is very valuable as a poultry feed and can be put to as good use for feeding poultry as any other way on the farm. It will replace meat scraps, which is the most expensive ingredient of the poultry ration, and also one of the most valuable. Besides the mash, the hens should be fed in addition, scratch feed composed of equal parts of cracked corn and wheat. This scratch feed is especially desirable if the hens do not have a good range. If the range is good it may be dispensed with in some cases and the mash entirely relied

upon to make up the deficiency in the amount of feed the hens get. It is advisable to make all changes in feeding gradually, as any sudden changes may bring the hen into a The short summer feeding feeding grain to their hens because of ing the milk may be the source of the shortage of supply. If this change infection; or the germs may come otherwise it will produce a very much tainer, to determine if one quarter is undesired moult at this time.

short of grain and are not in a position to buy food. However, on the arate sterilized vessels and into each other hand, there has never been a in turn put a little water from differhas been so cheap. It is therefore a house, setting place, etc. In this way matter of good judgment to make the the exact source of the infection can

one of our county for the profit-making months. If this poultry culling is impossible it would be wise to dispose of the flock entirely as it will likely be unproductive until spring and instead of profit.

The good care and feeding of chicks get in early life is often the determining factor as to the profitableness of the bird in later life. A stunted chick will never make a profitable hen. It would be far more profitable to sell the chicks when they get to the broiler stage, than to expect them to produce a profit by egg production later on after they have gone through a semi-starvation period.

A good mash is also a valuable adjunct to free range for chicks. The following is a good mash: Two parts each of corn meal, middlings, bran, one part each of oat meal and beef scrap and one-fourth part charcoal.

This mash should be placed in a hopper available to the chicks at all times.

Sour milk is also one of the most valuable it is that could be given requires that the available it. growing chic if it is available it should be keepfore them at all times. When our milk is used the amount of beef scraps may be reduced one-half.

A liberal feeding of either hens or chicks at this time of the year is "A stitch in time" which assures poultry

Essentials in Sheep Raising.

1. Willingness to pay proper attention to the flock at the critical times

turity that should preferably be marketed before the middle of July. 3. Control of parasites in the flock by the tale of early lambs, rotation of

4. Protection of sheep from dogs, by community interest in sheep, by The advisable thing to do is to have enforcing dog laws and keeping sheep

6. Feeding of corn silage with clover or alfalfa hay, supplemented with grain, to the breeding ewes at definite periods.

type and quality should sire the lambs. 9. Cheap equipment, which offers protection, plenty of ventilation and a

10. Marketing of products of wool market values and demand. Community organizations are beneficial in this

11. Grow into the business, not go into it. A few bred ewes in the fall is a good buy.

12. Realization of the fitness of a

flock on the farm, their value as weed destroyers, utilizers of rough feeds, and conservers of soil fertility.



The cow is not to be blamed for dition start the feeding gradually, the udder in a separate sterilized conaffected, or if all yield normal milk. It is granted that many farmers are If all quarters prove to be sound, set time in recent years since poultry feed ent sources, dust from stable, milkadded expenditures to buy extra feed be determined and removed. Meanwhile, carefully cleanse, scald and sun-dry the milk utensils. Cleanse udder and tests before milking and keep the stables clean.

> A good distance for planting the late large-growing varieties of cab-bage and cauliflower is two and a half by three and a half feet,

In thinning the woodlot, where pos sible, spare the maples; they will do well in this country and will give you lumber, firewood, sugar and syrup.

Impure milk is notoriously one of the most fertile sources of disease, for him to get ahead, to make his young man in such a way that he can especially among infants and children; mark, to reach distinction, to assume not honorably avoid it, and in no case and it is well understood that most of leadership, to get to the top, or whatand it is well understood that most of the impurities come from improper handling. "Certified" milk—that is, milk that is drawn from healthy cows kept in sanitary stebles, and that is cooled, bottled and transported under conditions approved by some responsible organization such as a medical society—is greatly in demand in the society—is greatly in demand in the society—is greatly in demand in the society—which the can not protect him society—is greatly in demand in the society—which this man are specified for a college education. Next to character and which foots most of the bill.

Good hay will be scarce this winter; not a pound should be wasted.

There will be a light mixed hay against which he can not protect him solicity—is greatly in demand in the society—is greatly in the bill.

So we add the lest point, which is the greatest asset to choose between health and a college course, the him forego the college course,

## Educational Value of Exhibitions.

The exhibition cerson is upon us, in act has already made an auspicious beginning in the western provinces, advantages in instruction are offered, but hundreds of thousands of bulletins, been in progress for some time and possible is legitles and other forms of their way into another forms of their way into drivental in the shall be an ore nolocable progress, been made or cent years than in exhibitions. Much attention is still paid, as is proper, to like lighter side, but choice londer of the larger time in the lighter side, but choice londer of the lighter side, but choice and college for the people, agrit the lighter side, but choice and college for the people, agrit to education by illustration. This is particularly true of the larger fairs but the more local exhibitions have also made remarkable advance particularly in the colocal exhibitions have also made remarkable advance particularly true of the larger fairs but the more local exhibitions have also made remarkable advance particularly in the exhibition work in the more local exhibitions have also made remarkable advance particularly in the exhibition work in the more hand that the sensible yet attractive features for the young. A marked feature is the increased interest in exhibition work in the sensible yet attractive features for the young. A marked feature is the increased interest in exhibition work in the proportion of the public way in the public way in the proportion of the public way in the proportion of the public way in peen in progress for some time and pamphlets, leaflets and other forms of pamphiets, leaners and other forms arrangements are about complete for publication of an educational nature find their way into circulation to be taken home and studied at leisure. The good care and feeding of chicks particularly true of the larger fairs, is also urged as the care the chicks but the more local exhibitions have ticularly in attention that is given to sensible yet attractive features for the young. A marked feature is the increased interest in exhibition work in governmental quarters. Annually the displays, especially of the farm, improve and extend until now not only do the public have an opportunity to gain a fair knowledge of the work that is being done, of the advance that is being made in cultivation of the soil, in the betterment of live stock, in the improvement of poultry, in the

guaranteeing of wholesome focd to the people, but the studious-minded have brought before them in a com prehensive way a whole college course Nor is it alone by the exhibits tha

This question every year present itself to thousands of young people and the way in which it is answered colors the lives of millions, if not indeed of the nation as a whole. The reasons for going to college, therefore, should stand clearly out before those who at this time of the year are making one of the few great decisions in

The real reasons for going to college may be briefly stated as follows: 1. To gain information which can be more systematically and widely ac quired through a well selected college course than by any other known method. The world's stock of knowl edge has now become so great, and 7. Selection of breeding sheep that the need along any particular line so possess merit in wool, as well as in specific and exacting, that self-made mutton character. Constitutional vigor men have become almost an imposand health as a result of breeding and sibility. This means that the time care are essentials in a foundation has come when the new generation should learn to live not simply by 8. A pure-bred ram of a desirable imitating the neighbors, but by pos sessing itself as far as possible of the world's stock of information and experience

2. To know the method of research 10. Marketing of products of wool that may be depended upon in seeking and mutton with an understanding of information about a new subject requiring opinion and conclusion.

3. To gain instruction and experience in handling conflicting data, in discriminating between facts and appearances, in weighing evidence and in forming safe judgments as to the principles that are indicated by the

4. To train the intellectual faculties to obedience and precision, as the athlete or the skilled artisan trains his muscles to the most delicate service and the most accurate judgment.

sources of information, that familiar-ity with intellectual processes, that moult. The short summer feeding through ranging has come about gradually with the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk becoming stringy or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and that the drying up of the range cause of milk become a string or command over one's faculties and the drying up of the range cause of milk become a string or command over one's faculties and the d due to the hot weather. In many cases the farmers have also recently cut out used for washing the utensils or cool-distinguish the educated from the undistinguish the educated from the uneducated man.

6. To learn the laws of health and would have been sudden it might have from the dust of the stable or places to train the body as well as the mind produced a moult at this time of the year. In getting the hens back to consample of milk from each quarter of mind and health and provide a good machine with which to do one's work and to enjoy the one life that has been that should not enter into a young given.

> 7. To form acquaintances with men of parts and influence all over the world, and so to multiply one's opportunities and advantages.

> 8. To prepare for serving the world to the very best of one's powers, and so to pay the debt that every generation owes to those who have gone before.

The list might be indefinitely pro longed, but these are the chief considerations that should stand clearly ernity." out in the mind of a young man, and it makes no difference whether he it makes no difference whether he in general so that one can acquire comes from the farm or the city in more that his share of the world's the advantages which he may realize from the proper preparation for life. paying in full for everything enjoyed.

An analysis of these eight considerations will show that all but the last are what might be called "personal advantage"; that is to say, they relate directly to the welfare of the are instances in which the responsi-individual and tend to make it easier bility of the family is thrown upon the

Now, by any count, the fact of having a college at all creates a debt which these young people owe and which these young people owe and which they must pay by service of some kind. Not only that, but they enjoy many other privileges because of the labox of those who have gone before. The forests are cleared, the stumps taken out, the stones picked off and the ditching is largely done. The railroads are laid and many another hard pioneer job has been completed by those horny-handed soms of toil who preceded us and who worked to make a world ready for living.

The world is not finished yet and he who would take all the advantages.

The gospel was already breaking down the fact of having a college at all creates a debt with the Gentiles. Moreover these early teachers had the idea that the gospel, and the kingdom, and the kingdom, and the province of future glory and to their famine-stricken brether in Jerusalem, and that which they contributed out of their comparative wealth was carried up to Jerusalem by Barnabas and Saul.

12:25. Returning, when they generous resolve on the part of the Christians of Antioch to send relief to their famine-stricken brethes had the idea that the gospel, and the kingdom, and the province of future glory and the province of future glory and the province of them were men of Cy-brus and Cyrene, Jews who had lived so long among Greeks and in foreign countries that their prejudices had their prejudices had their prejudices had their prejudices had the death the gospel appealed to the string the Generous resolve on the part of the Christians of Antioch to send relief to their famine-stricken brethes.

But some of them were men of Cy-brus and cyrene, Jews who had lived so long among Greeks and in foreign countries that their prejudices had in foreign countries that their prejudices had the famine-stricken brethes death the Christians of Antioch to send relief to their famine-stricken brethes death the Christians of Antioch to send relief to their famine-stricken brethes death the Christian

owe his education to citizens of all 5. To acquire that knowledge of the ources of information, that familiarreap the direct advantages, and the obligation resting upon them is heavy indeed to return to the public in one way or another in the form of service a very large share of the advantages which they have acquired through education.

There are certain considerations man's head as reasons for attending college. Some of the chief though erroneous reasons sometimes given for going to college are the following: 1. Because one's chum is going to

2. To get rid of work and stave off the day of assuming the natural responsibilities of life.

3. To have a good time.4. Because it is "the thing to do" to go to college, and to "make a frat-

5. To get an advantage over society goods and happiness, but without re

There are many good reasons for not going to college. First among these are duties to dependents and a decent regard for one's health. There bility of the family is thrown upon the

## The Sunday School Lesson

JULY 31.

Saul Teaching at Antioch, Acts 11: 19-30; 12: 25. Golden Text-Acts 11: 26.

lege to which he could go.

It would be a sorry problem if these young people seeking an education today were obliged to found and build the could go and strengthen it. Christianity has always been in greater danger from prosperity and wealth, than from persecution or poverty.

These first missionaries, driven by the coast

day were obliged to found and built their own colleges, gather the faculties together and pay them and then buy and install the necessary equipment in the way of books and laboratory apparatus. If they had to do all that, they would be too old for colleges before they had the institutions half ready for courses.

Now, by any count, the fact of having a college at all creates a debt which these young people owe and which they must pay by service of some kind. Not only that, but they enjoy many other privileges because of the labor of those who have gone

Lord Jesus Christ is not much alone in its appeal to humanity by predictions. Agabus, however, did predict a fam-ine which came to pass in the days of Claudius Caesar. This statement Claudius Caesar. This statement helps us to date the events of Paul's helps us to date the events of Paul's life, for Claudius reigned from 41 to 54 A.D. We know that there was famine in certain parts of the empire during his reign. In Judea, Josephus tells us, there was famine in the year 46 A.D.

The world is not finished yet and he who would take all the advantages which have been provided by those who have gone before, but will add nothing himself to the world's stock—that man is not fit to go to college. If he presents himself, he should not be admitted. And if he is admitted, he should be kicked out the moment it is discovered that he intends to absorb everything possible to himself and to give nothing in return. We are not training a few thousand young men in order that they may stand on the heads and shoulders of the masses to their exploitation.

Our colleges are supported by people who get no direct advantages from them. There is not a college graduate to day who does not in some measure owe his education to citizens of all

money really needed to get it.

In general, the four years from wasted by most young men, and almost any right-minded individual can

A remedy for this is to take an extra be farther along in every way at the rein, or a small strap will answer the age of thirty if he takes four of his age of thirty if he takes four of his purpose. Snap it in outside hit rong of years for study, than he would be if fast horse, then pass through inside bit he plunged at once into the modern ring under chin, then through the inworld without the best preparation a side hame-ring. Take the end back college course can give. He may even and tie it to inside end of whiffletree well afford to earn his own money, of slow horse. When the fast horse but if he is to do this he should exbut if he is to do this he should expulls ahead his bit will be drawn by pect to take more than four years for the receding whiffletree of the slow the work, else he is certain to sacrifice either his preparation or his health.

Something has been said about paying one's way in the world, and some thing has been implied about character. We are beginning to talk somewhat frankly these days about soul of man, for we are recognizing that there is a vast difference between what is inside the different bundles of live clay we call men.

It is the whole man that needs educating—body, mind and soul, and this is what the college is founded to accomplish. Therefore, let each man examine himself to see whether he has the stuff that real men are made of, and if he has he need have no doubt that a college course will "pay." If, on the other hand, he does not possess the disposition and the desire to work and at the same time study quarities of moral character, he may equally certain a college education will not pay either him or the public

sible organization such as a medical society—is greatly in demand in the society—is greatly in demand in the cities. Where ordinary milk brings 15 cents a quart, certified milk brings 15 cents a quart, certified milk brings 15 to get in college is mostly given to 22 or 23 cents and is hard to get even is for the farmer to uncertain what is for the farmer to uncertain what the city dweller wants and to great feel was been, and by men and sacrifice, it is abundant, which is a present. He plants in Ontario and Almost service. The education which this man most sacrifices of health are wholly berta this year. Hay is also below an average in the United States. The Consists of growing the colored stalks of Ontario farmer who has a bærn full of sweet clover hay will have reason of the stem is destroyed. Blanching the city dweller wants and to great the college was training without too bush straining to grow the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was training without too bush straining to grow in the college was the college was training without too bush straining to grow in the college was the college was training without too bush straining to grow in the college was the college was training without too bush straining to grow in the college was the college was training without too bush straining to grow in the college was the college was the college was training to grow in the college was the college was the college was the coll

It is annovir horse, thus restraining him.

Another good method I have tried is to shorten, about six inches or more both reins or lines to be buckled of the fast horse's bit ring, both on the outside and the inside. This will help wonderfully in equalizing the pull.

Fly screens for the stable windows will prove a good investment.

Don't try spraying potatoes with ime sulphur; it is worse than useless,

Horses will get little rest if shut up in a close stable these nights; it may be as hot outside, but the air

Ice on the farm is not a luxury these days; it is a plain necessity. Arrange now to put up an ice house —any old shed will do—and make the hot days cool next year.

The soil should be moist and well prepared for planting, otherwise transplanting from the seed-bed into the garden or field may not be suc cessful unless plants are carefully watered in.

## Critical i Periods for FALL WHEAT

At Seeding Time. Delay seeding to escape the Hessian Fly. Use fertilizers to catch up wheat growth. In Winter

Produce good top to protect wheat, and good rooting to overcome spring heaving. Fertilizers produce top and At Heading and Filling Time

Force early wheat growth by fertilizing at seeding time, and escape drought and heat injury. Order Fertilizers Now for your Fall Seeding

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