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出行开始的 法教育并保险公司



ways in Maryland.

It is better to build a cheap road and keep it in good condition by adequate maintenance than to build the most expensive highway and permit at to deteriorate for want of care, say officials of the bureau of public roads of the United States Department of Agriculture.

Maryland, which has one of the finest systems of improved highways in the United States, if not the best,



Macadamized Road in Patching a Maryland.

has consistently followed this practice. The originally improved roads in Maryland were comparatively inexpensive, costing only what the taxpayers were willing to pay for. The first few years the average cost was less than \$10,000 a mile. In some cases the work entailed considerable grading and drainage, but in others It amounted simply to resurfacing the old turnpikes, which had already been graded and drained.

Generally the roads built at that time were macadam, 12 feet wide



USE OF TREES AND SHRUBS

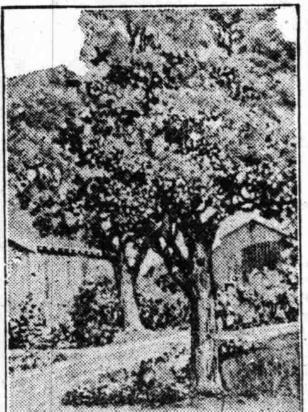
Effectively Employed, They Are of Layid mense Importance in Improvisee if Appearance of House

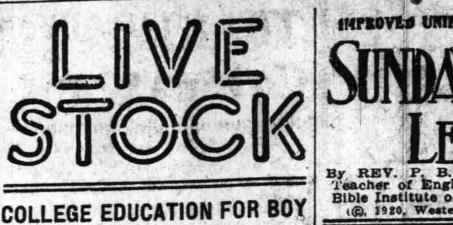
It sometimes happens that barns are necessarily of greater size than the dwelling, and so have the appearance of being more important. Yet



Unsightly Barns.

ways is the home. That fact can be made plain by manifesting special regard for the appearance of the house. Trees and shrubs will hide the encroaching but necessary service build-





Kentucky Lad Saves Enough From Sale of Litter of Fine Pigs to Pay for Schooling.

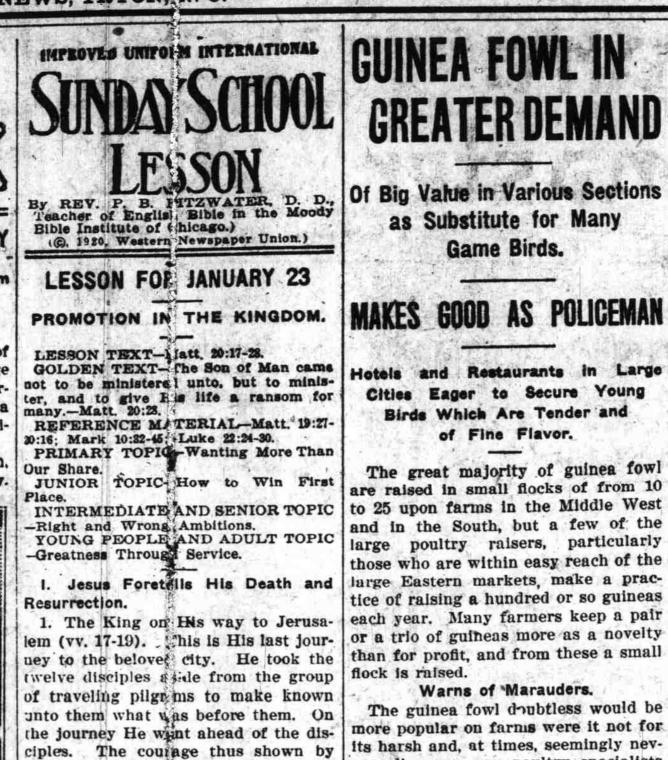
Here is the story of how a litter of pigs produced an agricultural college education, a system of farm waterworks and general improvement on a backwoods fain that had only primitive advantages.

The education went to Jeff Anderson, a Kentucky boy of Pulaski county.



Pigs Almost Ready to Root for Themselves.

Jeff belonged to a boys' club which had been organized by the county agent. He was encouraged to raise a litter of fine pigs under the club system by which the boys applied approved methods and kept account of the results. The pigs sold for a fancy price. Jeff, who had made sure progress, saved some money from his labor and in 1918 entered the Kentucky State College of Agriculture for its short course. He had been used to seeing his mother and other women carry water 150 yards up a hill for washing and cooking. At the agricultural college he realized the convenience and benefit to be gained by running water conducted to a tap in the kitchen. When he returned home he persuaded his father to let him put in a water system. A stand pipe 60 feet high was built with a 500-gallon tank on top, which gave sufficient pressure to force water to the dwelling 400 feet away. He rigged up a gasoline engine and pump at the spring under the hill. He had learned a little about plumbing, so he did all the pipe fitting in the house. One month's work at odd times, coupled with a little of the knowlege he had gained at the State College of Agriculture put the water right into the kitchen. Jeff has gone back to complete his college education; and they're still raising better pigs at the Anderson farm.



the Lord amazed the disciples who. were following in fear (Mark 10:32). "Christ, the conscious and certain sufferer, is courageous. His followers who had nothing o fear were afraid." 2. Betrayal and death foretold (vv. 18, 19). He went forward fully conscious of the wful tragedy of the cross. He for the third time since the transfiguration tells the disciples of His suffering and death, but they are so filled with their ambitious schemes that they do not understand Him. The treachery of Judas Iscariot; the fierce persecutions of the chief priests and scribes; the injust judgment; the delivery to Pontfas Pilate; the mocking; the scourging; the crown of

Of Big Value in Various Sections as Substitute for Many Game Birds. MAKES GOOD AS POLICEMAN

Hotels and Restaurants in Large Cities Eager to Secure Young Birds Which Are Tender and of Fine Flavor.

The great majority of guinea fowl are raised in small flocks of from 10 to 25 upon farms in the Middle West and in the South, but a few of the large poultry raisers, particularly those who are within easy reach of the large Eastern markets, make a practice of raising a hundred or so guineas

or a trio of guineas more as a novelty than for profit, and from these a small flock is raised.

Warns of Marauders.

The guinea fowl doubtless would be more popular on farms were it not for its harsh and, at times, seemingly never-ending cry, say poultry specialists of the United States Department of



CUSTOMERS SECURED FOR POULTRY SHOWS

Persons at Summer Resorts Buy Produce in Winter.

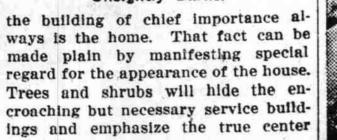
City People Have Inspected Producer's Farm and Know Under What Conditions Foodstuffs Are Raised -One Case Cited.

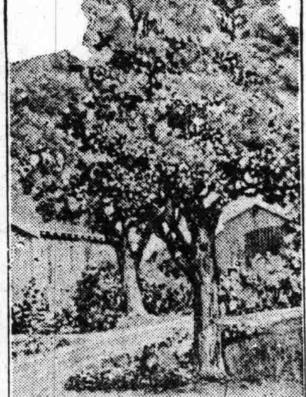
Many producers living near summer resorts supply produce in the summer months to the persons at the resorts, and during the other months of the year ship produce to these persons while they are in the city. This say marketing specialists of the United States Department of Agriculture, is one of the best methods of obtaining customers for direct marketing, as the producer and consumer have some acquaintance. In most instances the customers have been at the producer's farm and know under what conditions the articles are produced.

One man who lives near a summer resort in Indiana is about twelve miles from the nearest town of any size. He does not desire to drive to this town to dispose of his farm produce and is not satisfied with the prices that the hucksters pay. Consequently he built up a business of supplying products to resorters in the summer and of shipping produce by parcel post and express to these persons at their city homes in the winter.

The principal products shipped are butter, eggs and dressed poultry. This producer uses good shipping containers and packs produce attractively. As he is acquainted with his customers, he renders statements of accounts only once a month. In this way the matter of making payments is simplified for the customers.

This producer has had no trouble in establishing his business nor in retaining customers. He states that his only trouble has been in getting enough high-grade produce to supply all of his customers.





and six inches thick. Soon the width was increased to 14 feet. Later many were widened still farther, some very successfully, by adding concrete shoulders on each side of the existing macadam. This method of improving roads makes it possible for traffic to continue unimpeded on the road while the work is going on.

The macadam roads in Maryland have given very good satisfaction, but continuous care has been largely responsible for their success. The roads are constantly patrolled and no hole of any size is allowed to go unrepaired. Material for patching is kept at convenient points along the road for the use of the patrolman. From a relatively small investment in an admittedly low-type road it builds up a better one from year to year, always conserving the bulk of the previous investment.

KEEP ROADS OPEN IN WINTER Federal Highway Commission Sug-

gests That Special Efforts Be Made by State Officials.

It is suggested by the federal highway council that state and county highway departments make a special effort to keep the roads clear of snow during the winter months and thus permit of uninterrupted traffic. The transportation of certain commodities is really more important during the winter than in summer and it is then that the roads are more difficult to pass over. Then, too, the rural mail must be carried whether roads are good or bad, and when the snow drifts several feet deep over the roads the life of the rural mail carrier is anything but pleasant. As the snow melts At transforms many roads into a mire that is almost impassable. On any road, no matter how good, there is a tendency for the melting snow to soften the subgrade and bosen the base under the wearing surface, thus causing great damage to the road.

Road officials could do nothing better than to keep their equipment busy in the winter removing the snow from the road surfaces. It is one form of maintenance work that is very essential in lengthening the life and usefulness of the highways.

BENEFIT TO SUBURBAN LAND

One Advantage of Road Improvement Would Be to Open Up Territory

With Trees and Shrubs.

of interest-the home. The illustrations show how the scheme may be carried out to the best advantage.

EASY TO GROW GRASS LAWN

Perfect Greensward May Be Quickl Realized by the Use of Novel English Method.

It is proverbially & slow business getting a good grass lawn in a garden, but a new English idea makes it possible to secure a fine stretch of verdure just as one would buy a carpet at the stores. Grass seed is sown thickly on strong canvas and, when this is thickly covered with growth it is ready for making the lawn.

The site is well prepared, being made perfectly level, and special attention is given to getting the soil so that it is a favorable rooting medium for the little plants. Then the grass mats are put down on sections, these being closely fitted together. As time goes on the roots push down through the canvas and, in this way, establish a permanent lawn. Ultimately the material will rot. The value of this lies in the fact that an immediate effect can be secured. It is quite easy to have a splendid grass lawn in a situation where, a few hours before there was nothing of the kind. Thenceforward the grass will go on improving and the little plants speedily take a hold on the soil.-Scientific American.

Trees Beyond Valuation.

Ten million dollars' damage annually is done to the shade trees and hardy shrubs of the country by shade tree insects, according to estimates made by the bureau of entomology, United States Department of Agriculture.

It is very difficult to estimate the money value of the shade trees and shrubs of the country, but a very conservative estimate would place their value at \$1,000,000,000. These figures were reached after extensive correspondence with the forestry and other authorities of states and municipalities. A more definite census is aimed at, but the figures are taken as dependable for general purposes. They are based on the value of trees to citles, parks and private property, and have no reference to the bare intrinsic value of wood or lumber. An old oak tree which, because of its condition is not worth \$2 for lumber, may add \$500 to the value of the city lot on which it is located.

RANGE STOCK IS IMPROVED

All Kinds of Sires, Bulls Especially, Are Receiving Close Scrutiny by Breeders.

In the Western range states all kinds of sires-bulls especially-are receiving scrutiny by live stock owners. There is increasing evidence that good purebred males have wide influence on the quality of young stock and on the returns from stock-raising operations.

One day recently the United States Department of Agriculture enrolled in the "Better Sires-Better Stock" movement several ranchmen, each of whom had more than 1,000 head of live stock. One flock of sheep contained 250 purebred ewes and 3,450 crossbred ewes, the sires being all purebred. A cattle raiser who enlisted in the campaign the same day notified the department: "I have disposed of two grade Hereford bulls recently, having decided to run nothing but purebred sires." This remark is typical of the progress of the movement in Montana.



thorns; the cros; the hanging between two malifactors; the nails; the spear; all wire spread before His mind like a picture. Though He knew all this He deliperately pressed on. The joyous outlook upon the victory which would be accomplished by the shedding of His blood led Him forward. He went courageously, for He knew the time Lad come for the ac-

complishment of His Father's will. 3. The resurrection foretold (v. 19). Truly this would have been a dark picture had the resurrection not been made known.

II. The Ambitious Request of James and John (vv. 20-23).

1. The request (vv. 20, 21). This request was made by their mother., The request is for a place of prominence in the kingdom. It is right for mothers to be ambitious for their boys, but they should know that earth's pinnacles are excessingly dangerous.

2. Jesus' anjwer. (vv. 22, 23). He spoke directly to the men, not to their mother, declaring that they knew not what hey were asking. He showed them that the way to this position of glory was through suffering. The cup of which they were to drink was that of great suffering and agony. The positions which they craved were attainable, but in a very different way from what they apprehended. The way to the places of glory in the Lingdom of Christ is through the pach of lowly and selfforgetful service, even great suffering.

3. How to be Truly Exalted (vv. 24-281.

1. The angry lisciples (v. 24). When the ten heard of the request of James and John they were filled with indignation against Them. Their displeasure did not arise from the fact that they were free from the same selfish spirit, but that these two had thrust themselves to the front; it was an admixture of indignation and jealousy. 2. Greatness among the heathen (v. 25). The rule of the world has always been by the strong hand. The standards have been not moral excellence, but weath, station and power. Even today the reason one nation roles the other is that the one possesses sharper swords and heavier clubs than the other. 3. Greatness among Christ's dis-

ciples (vv. 26, 27). Here the standard is in shap contrast. The way to the places of prominence in Christ's kingdom is the way of self-abasement,

Peculiar Ury of Guinea Gives Warning of Marauding in Poultry Yard.

Agriculture. However, some people look on this cry as an argument in the guinea's favor, as it gives warning of marauders in the poultry yard. Similarly, their pugnacious disposition while sometimes causing disturbances among the other poultry also makes them show fight against hawks and other common enemies, so that guineas sometimes are kept as guards over the poultry yard. Often a few guineas are raised with a flock of turkeys and allowed to roost in the same tree, where they can give warning if any theft is attempted during the night.

Used as Substitute.

The value of the guinea fowl as a substitute for game birds such as grouse, partridge, quail and pheasant is becoming more and more recognized by those who are fond of this class of meat and the demand for these fowls is increasing steadily. Many hotels and restaurants in the large cities are eager to secure prime young guineas, and often they are served at banquets and club dinners as a special delicacy. When well cooked, guineas are attractive in appearance, although darker than common fowls, and the flesh of young birds is tender and of especially fine flavor, resembling that of wild game. Like all other fowl, old guineas are very likely to be tough and rather dry.

RIDDING HENHOUSE OF MITES

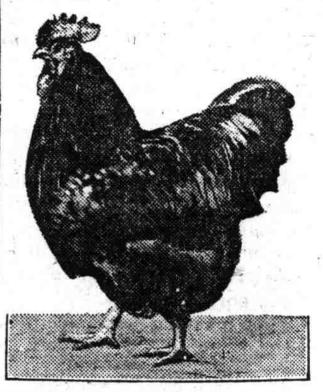
Cleanliness and Disinfection Required to Destroy Parasites That Live on Fowls.

To rid the henhouse of the little red mite that stunts the hens so much requires cleanliness and disinfecting. The filth must be cleaned' up, the house ventilated and the sunlight let in. Removable roosts and drop boards will help clean up the house. To disinfect the roosts and house everything should be painted or sprayed with a solution of two parts of oil and one part of stock dip. Applications should be made in pairs about five or

OBTAIN BEST HATCHING EGGS

One Male Should Be Used With Every 15 Hens of Breeds Like Orpingtons or Rocks.

The male must be in the flock from ten to fourteen days before the eggs laid can be used for hatching purposes. After the male has been removed from the flock, hatchable eggs will be laid for about three weeks thereafter. To secure good, hatchable eggs, provide one male to every twenty leghorn or other egg breeds; use one male to



Single Comb Black Orpington.

every fifteen Rocks, Reds, Wyandottes or Orpingtons, and one male to each twelve Langshans, Brahmas or other meat breeds.

BARIUM POISONOUS TO RATS Tests Indicate That a 20 Per Cent Mixture With Food Makes Most

Satisfactory Bait.

A study of barium carbonate as a rat poison, made by the United States Department of Agriculture, indicates that a 20 per cent mixture with food makes a satisfactory bait. With this percentage a rat ordinarily needs to eat only one-third or three-eighths of a meal of average size to get a fatal dose. It was found that with this dose many of the rats poisoned died within 24 hours, though an occasional rat was found which survived an even larger amount, thus indicating that 100 per cent mortality is not to be expected in any case.

tor Momesteads

Another change in the use of land which may result from road improvement, especially near towns and cities. is to make it available for suburban development. This might better be termed increasing the home value of the land, and it will be found to apply where the land is retained for its original uses as well as where, following road improvement, it is utilized so as to yield a higher return on agricultural products. The home value of land is one to be given consideration.

Roadside Tree Planting.

Roadside tree planting had best not be in formal rows, but in groups or as a specimen tree at irregular intervals. Street trees should be in straight rows of the same species for ten or twelve blocks.

Profit in Winter Eggs. The profit is made on winter eggs. Almost any hen will lay in the spring, but prices are usually lowest then, and it requires a good many eggs to pay a hen's keep in these days of he high cost of living.

City Has Right Idea.

A campaign to beautify school surroundings has been started by the architectural-engineering department of the public schools. About \$35,000 will be spent this year, it is announced. A. D. Weeks, director of the department, says that from a landscape standpoint Detroit schools rank poorly. in comparison with eastern cities though they compare favorably in architecture.

In the past, work of this sort has been largely assumed by the pupils who performed the labor and bors the expense.-Detroit Free Press.

Efforts of Department of Agriculture Shown in Recent 300-Mile Test for Horses.

Efforts of the United States Department of Agriculture to restore the Morgan strain of horses, which had become nearly extinct, showed their effect in the recent 300-mile test for army horses. Out of 27 entries, only ten finished, and of these the sixth and seventh were Morgan horses, one of them raised on the department's stock farm in Massachusetts. The horses were required to travel 60 miles a day for five days, carrying the regulation cavalry load of 245 pounds.

PROFITABLE TO RAISE MULES

Plan Suggested to Farmers Who Ex perience Difficulty in Selling Young Horses.

Men with good-sized mares, who are having a hard time disposing of young horses will find it more profitable to raise mules than to raise colts. Medium-priced jacks can now be purclussed with a reasonable certainty of breeding.

Rempis.

six days apart in order to kill the It is, not wrong to be ambitious to be great, but the basis of true great- mites that have hatched since the last ness is that which human selfishness spraying. seeks to avoid. There will be degrees of rank in Christ's kingdom, but GREAT ASSITANCE OF BIRDS this rank will be character, not position or authori y. Little Feathered Songsters Do Much 4. Christ is the supreme example **Toward Good Crop of Fruit** of greatness (1. 28). All who would by Devouring Insects. be great should study and imitate Christ. Let hem forget self and A good crop of birds goes a long serve others, eyen to give their lives. way toward a good crop of fruit. En-This will eliminate all scrambling for courage the children to feed the birds place and power. The one grand test during the cold, stormy weather and by which to know whether Christ's in spring they will pay you a hun-Spirit controls one is whether he is dred-fold by clearing the orchards of serving or seeting to be served. insect pests. Christiarity is Still Alive. The greatest tribute to the neces-SQUEALING PIG BEST sity of religion is, that it survives its outworn formal; the greatest proof of The pig that keeps still is the the essential gruth of Christianity is. pig that sucks the most swill, that in spite of the twaddle talked runs a saying. Maybe so, but every Sunday in the name of Christ. we have observed that the hun-Christianity is still alive.-H. R. Hawes. gry porker who is always comers use in their mashes a base of some plaining to high heaven about heavy, nonfattening, yet nutritious his appetite usually proves a food. For a long time the best feeders The instructor. growthier, thriftier, and conseof the country used wheat bran for this My hurt has been my instructor. quently more profitable individand I wish it may make me more caubase, but now that the good qualities ual than his tongue-tled brother. tious and liss simple .-- Thomas of forages are well known the bill of

A summary of results of experiments conducted by various persons with a view to determining the deadliness of barium to different animals shows the fallacy of the assumption that barium is poisonous only to rats. It is pointed out that the fatal dose of barlum per pound tends to decrease relatively as the size of the animal increases, and that a bait calculated to be fatal to rats may be assumed to be more or less dangerous to small domestic animals also. SUCCULENT FEED FOR FOWLS Now That Good Qualities of Forages

Are Well Known Hens Should Be Given Ample Supply. Everyone knows that a hen lays best when she gets the succulent grasses that first shoot out of the earth in spring. Most successful feed-

fare should be changed to suit.