When to Water Hogs.

rays water hogs before feeding, ever afterwards. If this is pracand the animals are given ear on a feeding floor, fourteen pounds orn will produce two pounds of In other words, every bushel of ought to produce ten pounds of If this is not being accomplished thing is wrong. ord bying

Cost of Milk Production.

u ask for the approximate cost of lucing milk at the prevailing prices eeds, etc. This is a difficult questo answer, depending on whether cows are fresh or strippers. Asing that they are good, ordinary and as the ordinary dairy goes, fresh and some strippers. We will a good average dairy, say of twene cows, all in milk, no boarders, they will produce not to exceed quarts apiece, or 200 quarts per This is the average dairy, re-

ber, not pure-breds. n and wheat feeds average \$30 hay, \$10; silage, \$3 at least. We eed each cow as follows per day: pounds silage at \$3 would cost ents; ten pounds hay at \$10, five ten pounds grain at \$30, fifteen hired labor, two cents. Thus ng a total per cow per day of ty-eight cents, or \$7 per day for y-five cows. On the assumption hese cows produce 200 quarts of per day, the cost of production is and one-half cents per quart. I let the good farmer work for ing and board himself, and have nothing for the use of the cows, dings, etc., considering only direct of feed and labor .- H. T. Coon, in erican Agriculturalist.

Geese and Ducks.

Ithough many farmers refuse to w ducks or geese to be kept on the 000. ms because, as they say, they are ing and summer months both will als. ther their food in any old pasture here hogs or cattle would starve. ley do best when allowed a pond or eam of water to swim in, but they be kept with only sufficient water drinking. The young grow rapidand after the first few weeks they quire no care except to feed. They e never troubled with mites and need warm house such as chickens must ave. They are healthy and seldom ie from any disease.

They do not lay during the winter nonths, but from February to August vill average from 100 to 125 eggs each. pressed ducks and geese always bring e plucked during the spring and sumraising. They are great foragers, hem in bounds. We are inclined to hink that the prejudice against them mostly due to the fact that farmers ave not tried the pure breeds of the resent day. Every farmer should posess a flock of both ducks and geese.-Home and Farm.

Using Weeds and Litter For Bedding. Such forms of vegetable production s weeds, vines, stalks, etc., if gathered nd burned return but little value to he farm. If allowed to remain on the round they hinder plowing. Weeds ill grow, and they are productions f our lands and have removed from he soil a portion of its fertility. How o return this to the soil in the most onvenient form and get other benents rom this refuse should be considered y every farmer.

Near large cities straw has become lmost too expensive an article for edding. Shavings and sawdust are lot entirely satisfactory. Upon the arm we have that which can take the lace of these for stable litter. By a ttle extra labor and care weeds and ubbish can be gathered and secured or bedding. Although not as soft as raw, they are clean, absorb much of e liquid manure, and soon decay in e manure pile. When the seeds of reeds have matured they had best be urned, but rather than have the weeds cattered on the ground I would chance hem in the compost heap, where a arge portion of them will be destroyed. The leaves from trees can be easily gathered and stored for stock bedding. These may be considered by-products of the farm that have been going to waste. Utilize them by returning them to the soil and let them carry in their tissue some fertility from the stable. -J. H. Bowerman, in New England Homestead.

Sorting Potatoes. Goed order and execution are meritorious in any and every kind of work we have to perform, and invariably they have their reward, yet a phase of neglect or absolute slouchiness seems to characterize much that many his friends. do, and encreaches more or less on what we all do. To know an evil well portray the shortcomings of others. | Gay!"-Sporting Times.

During the time of potato digging I had occasion to drive past several fields where potato digging was going on, and talk with several about their crop. I asked the question of several, if they sort their potatoes when they pick them up. In most cases the reply was, "Oh, no! I expect to have more time when I market them!" This idea may seem plausible to some, but if there are 100 bushels of small potatoes among the 500 bushels put away, then there are 100 bushels that must be handled over twice if they are not sorted out in the field at the time of picking up, and is it not easier to separate them at that time than when indiscriminately mixed in the bulk of a pit or bin of a cellar? Yes, and even when sorted in the field there will still be enough to exclude when you come to sell. Then, if you have your potatoes in a bin with a floor, the end of which bin is removable, you can shovel out into crates a load and get to market with despatch, avoiding the inclemency of the weather, while if you await a fine day to take out your potatoes, it will take you that day to sort and prepare your loads, and as you are aware, in winter time the next day after a fair one is apt to be stormy. If potatoes are kept until nearly spring without sorting, if it occur that they are all mixed, it takes a pretty good eye to tell this from the other, and the sorting will be a little uncertain, so if a man be not so conscientious as to what he sells, he is liable to injure himself with what he plants. We think that there is one way to do work which is a little better than any other way, and it pays well to learn which way that is, and while doing it, see that you have it done.-Farm, Field and Fireside.

PROFITS IN RAISING TREES. Forestry Experts Point to the Telegraph and Cross-Tie Markets.

It has been estimated that the telegraph lines of the country require nearly 600,000 new poles every year. The cost of these is more than \$1,000,-

It is also estimated that there are troublesome, nevertheless both are more than 620,000,000 cross-ties in use ily kept and exceedingly profitable by the railroads and that 90,000,000 en rightly managed. During the ties are required every year for renew-

The telephone and light companies use nearly as many poles as the telegraph companies, and the street car systems of the cities use nearly as many cross-ties as the steam railroads.

To awaken the farmers of the West to the need of raising plantations of wood to supply these needs of telegraph, telephone and railroad companies, the forestry division of the Agricultural Department has issued a bulletin to show that such work is profit-

The prices of pole and tie timber have gone up nearly fifty per cent, in the last ten years. J. Hope Sutor, of ood prices during the fall and winter the Ohio and Little Kanawha Railroad, nonths, and the feathers, which may an expert on the tie question, told the Central Association of Railroad Offiner, will more than pay for the cost cers in Louisville a year ago that in ten years more the prices of ties would ut any kind of a low fence will keep be fifty per cent, greater than at present. He also said:

> "No material has yet been found as a substitute for the wooden tie, and no satisfactory economical method of preserving the life of the wood or prolonging its durability has yet been discovered, and, excepting the minor questions of properly seasoning and piling, the use of the tie plate, suitable ballast and perfect drainage and incidentally climatic conditions, no serious consideration of the future tie supply has yet been had."

It is for this reason the experts say: "From every reasonable point of view it appears that great profits are to be made in the growing of forest trees in the next twenty-five years."

It is declared that operations should begin in the middle West. There has already been a great deal of tree planting on the treeless prairies of the central West, especially in Kansas and Nebraska. The forestry experts have found one plantation near Hutchinson, Kan., planted with catalpa trees which in ten years has produced a net value of \$197.55 to the acre.

pa are the best trees to grow for these commercial purposes.-New York Sun.

The Heat of Australia.

Australia is the hottest country on record. I have ridden for miles astride the equator, but I have never found heat to compare with this. Out in the country in the dry times there appears to be little more than a sheet of brown paper between you and the lower regions, and the people facetiously say that they have to feed their hens cracked ice to keep them from laying boiled eggs .- Sydney Telegraph.

Why He Wept.

The extensive authority of parents under the Chinese laws is well known. A Chinaman of forty years, whose aged mother flogged him every day, shed tears in the company of one of

"Why do you weep?" he was asked. "Alas! things are not as they used to is to suffer the inconvenience of our be," answered the devoted son. "The own failures, so we feel confident to poor woman's arm grows feebler every



The exploitation of the Ganz system of alternating current trolley propulsion, while not resulting in the official adoption of the system anywhere, has been successful in bringing it to the attention of the scientific world. It is universally looked upon as containing the germ of the future systems of electric traction.

A report from Constantinople is to the effect that the Sultan has engaged the services of Mr. Spurr, an English engineer, for the purpose of having a geological survey made in Turkey. The work will be started in Macedonia and Albany. Mr. Spurr has traveled extensively in European and Asiatic Turkey, and is a well-known geologist.

During the past year the practical application of the light of electric arcs to the treatment of lupus and other skin diseases was a noteworthy feature of electro-therapeutics. The alleged discovery of the efficacy of the X-rays in the treatment of cancerous growths is one of the most promising contributions of electrical science to medicine that has yet been made.

The extension of long-distance electrical transmission in California to an actual span of over 200 miles, and the general employment of voltages as high as 60,000 in that State are epochmaking events. The experimental transmission of power at 80,000 volts is worth recording. This year will probably witness work pushed in this direction to the limit of possibilities of electrical engineering.

According to the Lancet, the essential oil which forms the basis of all perfumes is a powerful antiseptic, and possesses disinfecting properties equal to those of carbolic acid. For this reason a scented handkerchief may not only please the sense of smell, but prove a guard against infection, and it is suggested that this fact may tend to reconcile those who do not like perfumes to their free use by those who do like them.

A London physician tells the Times, in a letter, that he has noticed among patients taking the open-air treatment for consumption beneficial effects procured by riding in motor cars at a speed of from thirty to fifty miles per hour. The swift motion through the air is credited by him with causing, along with a marked feeling of exhilaration, increased appetite, improved sleep, a healthy glow tending, after a few days' treatment, to become permanent, and a diminution of the tendency to cough.

One of the English astronomers, J. J. Atkinson, who visited Sumatra to observe the total solar eclipse last May, made the acquaintance of an old Malay, living on a little island near the Sumatran coast, who owned a huge monkey which he had trained to work for him in gathering cocoanuts. The monkey's business was to climb the gigantic cocoanut palms and throw down the nuts; "which he did," says Mr. Atkinson, "in the most artistic manner, by screwing the nuts off with his powerful arms while he hung by his legs seventy to 100 feet from the ground."

Soldiers and Sewing Machines.

How is the lonely British soldier amusing himself at the South African blockhouse? A writer in the Navy and Army surmises that in nearly every blockhouse would be found a sewing machine. "Above all things, Tommy's heart loves a sewing machine. Although he must know that he can never suceed in getting it home to England, yet if he finds one on a farm he will tow it along with him, overburdened as he already is, upon the march. Wherein the exact fascination lies is a mystery, but grizzled Reser-In Iowa, near Menlo, a twenty-five- vist and callow recruit alike cannot reyear-old plantation of red cedar showed sist this housewife's help." There is a net value of \$200.54 to the acre. a quaintness in the idea of the warrior Osage orange, locust and hardy catal- amusing himself with the mysteries of the sewing machine in his melancholy loneliness. But he that sews in tears will doubtless reap in joy.

> The chaperon is becoming extinct in the United States, but she is an important person in Samoa. She is the constant companion of the taupou, or village guide, who is appointed to entertain strangers, and show them the various sights. Each village in Samoa

The Chaperon in Samoa.

elects a girl for this office, and it is necessary that she should be the daughter of a chief. Her house is provided for by the village, and she is surrounded by a court of native girls. No man who lives in the village is allowed to enter the sacred precincts, and the taupou goes nowhere without an elderly woman. If the taupou resigns her office, the chief can appoint an-

Truth About the Burglar. The industrious burglar is generally doing something, even if it's only

other damsel of high degree.

time.-Philadelphia Record.

RAM'S HORN BLASTS.



HE child can belong to God as soon as he can to the devil.

He who drinks much thinks little, and he who thinks much drinks little. The saved soul will be found steering for heaven no matter which

way the winds are blowing. To refuse a right responsibility may be to reject a great

When you have made a child glad you may have made a man good. He who can be trusted to do his own work will trust God to do His.

The name of Jesus opens the door to the church and the gate to heaven.

When you have the devil under your heel don't be scared by his bellowing. It is better to be a good man in a bad place than a bad man in a good one.

It's a poor plan to promise to pray for your pastor and then to pinch on his pay.

It is better to grow into a place of power than to be blown into one of popularity. It was the brotherhood of man rath-

er than the sisterhood of the saints that Christ revealed. The power of perfecting the present

is' worth more than the power of prophesying the future.

The light that blesses the wise man burns the foolish moth.

True riches must be measured by what is given to others instead of by what is ground from them.

The great man is he who realizes the limits of his abilities and the possibilities of his capacities.

Long American Tunnels.

The Pennsylvania railroad company has decided to construct a tunnel seven miles long to avoid the great Horseshoe curve, which is one of the most notable features on the line. It will be the largest enterprise of the kind 'n railroad construction so far attempted on this continent. The Hoosac, the longest at present in operation, is less than four miles in length. The Cascade tunnel of the Great Northern railway is two and one-half miles long and the tunnel projected through the Sierra to reduce 1,500 feet of grade on the Central Pacific railroad will be only one and one-half miles in length. The proposed Pennsylvania railroad tunnel will shorten the line only three miles and reduce the time in transit three minutes, but the lessening of wear and tear on the rolling stock, which must be very heavy on the present curves and grades of the Horseshoe, will doubtless compensate the company for the investment.

Her Promised Doll.

This is the story they tell of a cunning little 5-year-old girl whose nurse had been promising her all summer a little coon doll when the family reached the city, if she would be very good and obedient. This was a delightful promise, and the little girl was as good as a little 5-year-old could be. Then the family came back to the city a little earlier than usual, and something interesting happened—a brand-new baby came to the house. It was a funny, red-faced little creature, which only a loving mother and experienced nurse could possibly consider beautiful, but it was a great thing for the little girl, who had never before in her short life seen a real live baby. And the little girl was as much pleased as every one had expected she would be. She gave the nurse a big hug as she cried: "Oh, nursie, is that my coon doll?"

Many a man who tries to be a rascal finds he is only capable of being a

The general worthlessness of advice is exhibited in the fact that the average man would rather give it than take, it.—Life.

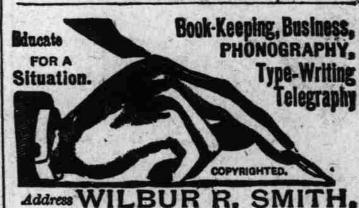
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