Bellefonte, Pa., March 25, 1910.

FARM NOTES.

-An inch of water on an acre of land equals 22,000 gallons, or 230,000 pounds,

-The tobacco raisers of the United States realize about \$87,000,000 a year from this crop alone.

—The turkey crop of the United States last year was about 6,500,000 head, of which Missouri produced 456.000.

-Oklahoma is the only State which now has a law requiring the teaching of agriculture in all of its country schools. It is expected, however, that similar laws will be passed in other States.

-A cow that will give a pound or more of butter a day is a good cow, and, in addition to a variety of feeds grown on the farm she should be fed daily a small quantity of bran or cottonseed meal.

-A cow that has not the capacity to produce milk can easily be overfed, but the cow that will give a large flow of milk is the one that should have the extra feed and the one that usually does not receive

-A bundance of succulent feeds containing the proper materials in right proportion for producing milk, plenty of mild water, some salt, mild tepperature and comfortable surroundings generally, are the conditions for making a dairy cow do

Professor L. R. Waldron, of the North | plants!"-Exchange. Dakota Experiment Station, has determined from a series of experiments that bumble-bees are responsible for about 95 per cent. of the clover seed produced, and that only a small amount is formed by natural self-pollination

-The Vermont Experiment Station, after careful investigation, announces that from the reports of growers the cost of producing a barrel of apples ranges from 25 cents to \$1. The lower amount is undoubtedly too low, while the maximumfigure is too high.

-The largest farm in the world is owned by one man in the State of Chihuahua, Mexico. It measures 150 miles from North to South, 200 miles from East to West, and contains about 8,000,000 acres. On this farm are raised about a million head of cattle, 7000 sheep and 100,000

-Princess Carlotta, a Holstein cow in the dairy herd of the Misssuri College of Agriculture, last year, gave 18,405 pounds portrait." of milk, equal to 1300 gallons, and from this 727 pounds of butter were made. On her record alone this cow is worth about \$1500, as she made a net profit of \$610 in

-The main ideas in trimming a fruit tree is to remove diseased and superfluous branches and for making an open top for letting in the air and light to all the foliage and fruit. In pruning vines always cut just ahead of the bud, as the bud is the place release are released and superfluous among the branches and flowers among the branches and flowers among the majesty and turned and went away. That same day a man dressed as a shepherd found access to the fortress and went among the granais the place where new growth, fruit or

-The Department of Agriculture is experimenting with corn shipped from China. Plants raised last year averaged less than 16 inches it height, with an average of 12 green leaves at the time of tasseling The ears averaged 5 1-2 inches in length, and 4 1-3 in greatest circumference, with 16 to 18 rows of small

-Delaware farmers are doing some great things. At Laurel, recently, the finest lot of white potatoes ever grown in the State were exhibited, hundreds of which weighed over a pound each. They were of the Green Mountain variety. Numerous sweet potatoes weighing from 6 to 14 pounds have been exhibited in

-Considerable attention should be given to ewes and young lambs. A new-born lamb is just about the most helpless thing on the farm, and frequently needs a little help to get started in life, but when fairly under way no young stock will give the owner more satisfaction; and it will pay to have patience and do all one can to as-

-Thirty-seven cows on the Cornell Experiment farm averaged last year over 7000 pounds of milk, which is 2500 pounds more than the average in the State. The most interesting feature connected with this herd is the fact that it was started with cows averaging only 2500 pounds of milk per year, and was raised to the present standard by breeding and selection, using pure-bred sires.

—As to the desirability of the use of the wide tires there can be no question. The most casual observation will suffice to convince any one of the damage which a heavily-laden wagon, equipped with the ordinary sharp, rounded, narrow tires, will produce on any road. There is also another and perhaps even greater advan-tage to be gained by the use of wide tires—viz, the increased hauling capacity

-The calf will do some better on whole milk than on skim milk. The fat in the milk will make it fat, plump and in fine finish for market. For this reason the calf sold for veal should be fed more whole milk than the one kept for milk or breeding purposes. When the calf is 4 or 5 weeks old it will eat some hay, shelled corn and ground feeds. If these are given daily in connection with the milk diet, veal can be produced cheaply.

—The queen bee lives from two to five years, according to the manner in which she is raised. When raised by the natural way, as by the swarming of the bees, and the mother queen is two or more years old, she often lives four or five years. The life of the workers varies from 45 days in the honey-gathering season to five or sometimes six months during winter, taking the time of October to April. Drones very seldom live more than four or five weeks in hot weather.

-Many farmers seem to think that because horses have been resting all winter they can do more work when spring comes. The reverse is true. If they have been in the harness almost every day in winter they will be hardy and strong for spring work, and a rush days work will not injure them. But if they have been idle for a few weeks they cannot stand heavy work without perspiring, becoming short of breath and showing fatigue within a short time. Often an hour's fast driving or heavy work will cause the horse to become ill, and in some cases to result fatally, or in disablement for sever-

The Drinking Orchid and Its Fruitless Search For Water.

"The strangest orchids I ever saw," a lagoon on the Rio de la Plata-'live,' I say, for surely no animal is more alive than they, and among them I first realized the pathos of a plant's immobility, the cruelty of its roots that bind it forever to one spot.

"These orchids had each at the center or axis a long stem a half inch wide and a quarter inch thick. They grew on dead limbs overhanging the lagoon, and now and then when in need of water they uncoiled their axial stems, lowered them three or four feet to the stream and when enough water had been drunk colled the stems up again as a tape measure coils up on its speel

"A strange sight that still and tropical afternoon-a silent, sun drenched lagoon, a scarlet blaze of orchids and here and there those slim, supple tubes descending to drink, satisfying them-

selves, then coiling up again. "But what impressed me most was a mass of faded orchids that continually and restlessly let down their tubes in vain, for the stream had fallen, and hence the tubes descended upon dry ground. It was pitiful. The orchids were dying, but with what strength was left to them they lowered and drew up their tubes. They felt feverishly and weakly for the water that wasn't there.

"A sad sight-a sight that brought home the pathos of the immobility of

The Curious Hallucinations of the

Poet-Painter. William Blake, the contemporary of Charles Lamb, was a man of visions. Blake dined with prophets and held converse with archangels. A friend of Blake called on the poet-painter "and found him sitting, pencil in hand, drawing a portrait with all the seeming anxiety of a man who is conscious of having a fastidious sitter. how many days your enemies are sup-He looked and drew and drew and looked, yet no living soul was visible. of the fact." astonished visitor. 'Where is he? I have my permission to go into the

funeral. "I was walking alone in my land." garden," he said. "There was a great stillness among the branches and flow- fore his majesty and turned and went flower move, and underneath I saw a There was food enough to last but procession of creatures of the size and two days. The shepherd, satisfied with color of green and gray grasshoppers, the information he had gained, was bearing a body laid out on a rose leaf, about to leave the fortress when one which they buried with songs and then who had known him before the war

May Be Measured by Means of an

Ordinary Thermometer. Heights of mountains or of airships can be measured by means of an ordinary thermometer. The greater the pressure of the atmosphere on the surface of water the greater temperature it takes to boil it. As we rise in the air less and less pressure of the air temperature than 100 degrees C. (212 degrees F.). It has been figured out that for a few miles up for every thousand feet of ascent water will boil a degree lower. Thus if at the bottom of mountain water boils a. 99 degrees C. (210.2 degrees F.) and at and they will receive me at my death the top at 98 degrees C. (208.4 degrees F.) the mountain is a thousand feet high.

In government and other scientific work extremely delicate thermometers are used. They are long, so that the scales may be divided into fractions of a degree. The entire instrument for the work is termed a thermobarometer, or hypsometer. It consists of a small metallic vessel for boiling water, on the inside of which are placed these delicate thermometers. Ganot says that the accuracy of the height of a mountain can be obtained withiten feet by means of these instruments. It is probably not quite that Cured to Stay Cured. accurate, as the pressure of air does not decrease uniformly as we ascend. Nevertheless it is a good adjunct to the surveyor taking largely variable

profiles. Of course the ordinary instrument for taking heights without actually measuring them is the barometer. This is open to the same objection as the thermometer, for its height depends on the pressure of air, which does not decrease uniformly. However, it can be graduated to an empirical scale to tell the heights and in that case shows accuracy.-Chicago Record-Herald.

A Story of Charles Reade. Charles Mathews was fond of telling a story of Charles Reade when the curtain fell at the old Queen's theater

in London on a pronounced failure called "A White Lie." There was no shadow of a call for the author. The curtain divided the audience from the author, who stood on the stage shaking his fist at the invisible foe, still smiling blandly and in meilifluous accents saying: "Infernal idiots! When shall I teach you to respect Charles Reade?

Washington's Farewell. The farewell address of Washington, the military chieftain, to his soldiers stands without parallel in all history. He does not refer to his own sacrifices or achievements. He simply and completely sinks himself, the great centra! figure, out of sight. He sees only his country and thinks only of her welfare.-Magazine of American History.

A JAPANESE SPY.

During the wars in Japan between said a naturalist, "live on the edge of the adherents of the mikado and the shogun the mikado's troops were besieging a fortress which both sides

But there is one matter of imporvery small, and a force of the shoguns was coming up to the relief of the besieged. This force was expected within a week. The success of the mikado depended upon how long his enemy's supplies would hold out. If there were enough for but a few days the benefit of their labors. If the provisions should last longer than that they would better be off before the relief force came up or they might be overwhelmed by a superior army.

To know what supplies the defenders of the fortress had would be of inestimable value to the besieged. It meant a possible possession of the point of attack, and it meant a prevention of a possible annihilation of the emperor's army and the probable loss

of his cause. The devotion of the Japanese people under such circumstances is a wonder. It is that devotion which enabled them to force a peace upon the Russian bear that had threatened to "walk all over" their little island and take possession of it. It is that devotion that has enabled them to protect themselves while cultivating the commercial methods of western civiliza-

There came a noble to the mikado

and said to him: "O mighty emperor, it is on account of your majesty's virtue that I feel an impulse spring up within me. My ancestors are looking down upon me and smile pleasantly upon me as I yield to the inspiration. I will disguise myself and obtain admittance to the fortress. There I will observe for plied, and I will return and advise you

'Disturb me not,' said Blake in a "I am well pleased," replied the emwhisper. 'I have some one sitting to peror, "that my virtues have produced me.' 'Sitting to you!' exclaimed the in you such a worthy motive. You see no one.' 'But I see him,' answered fortress and observe the supply of Blake haughtily. 'There he is. His food our enemies have and return to name is Lot. You may read of him in me and tell me. I will request the the Scriptures He is sitting for his shades of my own ancestors to watch over you, but if you die in your at-Blake's hallucinations, however, rare- tempt you will have the satisfaction of ly took a malignant form. One of his knowing that both mine and your anmost beautiful visitors was of a fairy cestors will welcome you in spirit-

So the noble prostrated himself bedisappeared. It was a fairy's funeral." came on recognized him. The spy was seized and hurried before the shogun.

"This man," said his captor, "is a noble who supports the mikado for the position to which your majesty is entitled. He has been among us in this raiment of a shepherd and knows just how many days' supply we have on hand. What shall we do with him?"

"Crucify him," said the shogun. With that they were leading the spy away to crucify him when the shooccurs, and water will boil at a lower gun called to them to bring him back. "If you will go to the wall," he said to the spy, "and tell your people that we have supplies to last several weeks I will spare your life."

"That I will do," said the other. "My ancestors call to me to stand firm joyfully, but I have a wife and children in the mikado's camp, and I am loath to leave them for my ancestors, whom I reverence greatly, but have

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never seen. I am so weak as to prefer my wife and little ones."

"Go, then; tell them what I have said to you, and I will in time return you to those you love."

The spy was conducted to the wall and stood upon it, the soldiers of the shogun keeping in the background. tance concerning it that is pertinent to He signaled the besiegers to come this story. The mikado's army was near that he might speak to them. So they all drew as near as they dared, the family of the spy coming with the others. The spy stood looknear and saw his wife and little ones looking up at him anxiously, knowing that he must have been discovered by besiegers might remain and reap the the besieged people and that a great crisis was at hand.

The shogun sat in the center of the fortress, rejoicing that he had found a means of deceiving his enemies and sending them off when near the accomplishment of all they had been so long striving for. About him stood his soldiers waiting to hear the spy tell his people of the abundance of supplies there were in the fort. Then the spy raised his hand for

silence and said to them: "O my people, I have examined the supplies that there are in this fortress, and there are but enough to last two days."

A thousand spears were hurled at him, and he fell on the wall.

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"O my people," exclaimed the mikado, "our ancestors are taking him to their bosoms."

Then he gave orders to move on the fortress, and the defenders, being discouraged, gave way before them, so it was not long before the conquered people were sent to the bosoms of their own ancestors.

Fooled. "De man dat t'inks nobody can't fool him," said Uncle Eben, "stahts in ing at them benignly as they drev. by foolin' hi'se'f right there."-Washington Star.

> They that stand high have many blasts to shake them.-Shakespeare.

Back to Work. Ella-That clumsy fellow has been a conductor. Stella-How do you know? Ella-When I said something about his being on my train he said. "Tickets. please."-New York Press.

If you don't do better today you'il 10 worse tomorrow.-Loomis

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