Soiling by Measurement .- Portable Swine -Water Crees us a Commercia Product-Wind Power-Farm Notes and Home Hints.

How to Measure Hay.

In answer to a number of inquiries the Orange Judd Farmer again pubmethod, but it sometimes is most rid of black cress. convenient.

will make a ton depends on so many job to take care of it in winter. conditions that no certain rule can

be given. It depends on the kind of hay, whether timothy, alfalfa or prairie, on the character of the hay, whether ine or course, on the condition in he depth of the stack or mow.

400 cubic feet of alfalfa or timothy may average a ton, but on top of the

It is not safe for the buyer to measurement.

To find the number of tons in a barn mow or hay shed multiply the length, depth and breadth together and divide by the number of cubic feet you think, considering the quality of hay and the condition in waich it was put up, will make a ton.

To measure a cone-shaped stack, and the area of the base by multiplying the square of the circumference in feet by the decimal .07958 and multiply the product thus obtained by one-third of the height in feet, and then divide as before, cutting off five right hand figures.

The correctness of this will depend quite ripe. somewhat on the approximation of the stack to a regular cone, and if the stack bulges out it makes the fight and durable. product too small. The better way to estimate the area of stack up to point of tapering in and apply above rule to cone shaped top.

The best way is to weigh. The experience of weighing a few stacks will enable any one to judge quite accurately. Another approximate rule for measuring a round stack is this: Select a place which is near as possible to what the average size would eter from the ground to the top point. Measure around this to get the circumference. Add four ciphers (0000) to the circumference at the right and divide the whole by \$1,559 to get the diameter. Now multiply half of the diameter by half of the eircumference and you have the feet of the circular area. Multiply by the number of feet the stack is high, and you will have the solid or cubic feet in the whole. Then divide by 500 to in the bud. 512, according to its size and compactness and this will give the number of tons in the stack.

Portable Swine Pons.

George Wylle, a well-known swine breeder, use: portable swine pens. He correctly says that when the ground around the pen becomes foul by continued occupation, these pens are easily moved to a fresh location, and the ground previously occupied by them plowed up and a crop or two raised from it, thereby purifying the soil. After two or three years it can be again seeded to grass and the pens returned to their original location. A rotation of hog pens once in two or three years goes farther in the direction of maintaining fertility than anything Mr. Wylle says he has ever tried. With this kind of pen, or as many pens of this kind as may be necessary for the number of hogs kept, the original outlay for pens is neduced to a mere nothing in comparison with the large hog house. They will pay for themselves every year they are used. With this system, less than half the labor will keep the pens clean; they are warmer, the air is purer, the young pigs are healthier, and large numbers at any season are prevented from piling up together. At farrowing time each brood sow is isolated from the others, thereby being removed from anything liable to make them irritable and restless. The escentials to be secured are health. mfort, warmth and cleanliness and any outlay of money that goes beroad this must be regarded in about the same light as a prominent breeder regarded his expensive 30x hog house. Said he: "It's not such account for swine, but its awful nice to show to visitors." -Colman's Kural World.

Water-Cress as a Commercial Product. Wild water-cress shipped from the western part of the state to Chicago has found such ready sale at fair rates that it is likely to be grown or market whenever conditions are favorable. An lilinois man tells the Quie Farmer how he started:

I have had eight years' experience with a one-fourth acro cross pond and will write what I know about

Then allow just enough spring water to run over it to keep it cool and wet. It does not require running water, simply near a spring branch. Cress plants large enough to transplant can be grown as soon

as you can grow cabbage plants. To correct what the books say, I will notice that the plants should be set at the edge of running spring water, not in water eight inches deep. Clay is better than gravel. I have one gravel spot in my patch and it causes me lots of trouble; it leaks; I can't hold the water when I want it. lishes a few simple rules for deter- I have two kinds of cress, "brown mining the amount of hay in stack leafed" or black cress, as I call it, or mow, when it is not convenient to and the green leaf. No sale for black weigh it. Selling by measurement is cress. The green leaf variety is the not always the most satisfactory best, and I am working hard to get

To write a full statement of plant-Sellers are disposed to insist that ing, care and management of a cress a cube of seven feet is a ton. This pond would make a lengthy article. Is entirely too small and will not lead about \$400 worth a year from weigh out. How many cubic feet my one-fourth acre. I find it a big

Using Wind Power.

May light and some not very light about the house and barn may be performed by wind power. In our boyhood a neighboring farmer's boys which it was put in the stack, and rigged up a good-sized windmill and particularly on the size, especially used the power from it to turn the crank of a grindstone and to turn In a very large mow, well settled, other cranks that worked the straight up and down dash churns. In this way their ingenuity saved them labor mow or in a small stack, it requires that other boys as well as ourselves 500 to 512 cubic feet; sometimes even had to perform when we had other and to us pleasanter uses for our time. In Holland wind power is figure on less than 500 cubic feet; but largely used. We think it is coming to be here, and especially when cheap in a well filled mow, in selling we to be here, and especially when cheap would rather weigh than sell at that means are devised for storing the wind power as electricity where it may be more available. More wind mills are finding a market now than ever before. - American Cultivator.

> If sheep are to be sold they should be fattened

A small nostril in sheep is said to show a lack of vigor.

It pays to keep the good ewes even if butchers do offer tempting prices. Nothing is more important on the farm than to stack the hay properly.

Timothy hay is more nutritious and palatable if cut before getting Aluminum horse shoes are gradu-

ally coming into use. They are The roots of corn will occupy the whole ground between the rows if

they are not plowed off. An experienced orchardist says that no orchard, whether young or old, should be allowed to grow heavy crops of grass every year to be taken Growing clover and feeding it

off with pigs is a much better plan. If coal and wood are scarce and high, and corn the cheaper fuel, why not burn it? There is no complaint that it is not ael, says a

writer. Some one has said that the observant fruit grower never has any heavy pruning to do. The growth of each tree is carefully noted, and any excessive freaks that the trees indicate as being started are literally nipped

An exchange says that the best and easiest way to oil harness is to use crude petroleum. Put a little lamp-black in it and apply it without washing the leather. The oil will take the dirt off, and go into the leather keeping it soft.

To make butter separate from the cream, a dairyman says he adds a quart of water in which a teaspoonful of salt has been dissolved, to each four quarts of cream at 64 degrees, when the churning is ready to begin. He says it reduced the time of churning from three hours to twenty min-

Home Hints!

Rendered beef fat makes an excellent pie crust, used with butter.

Pour diluted carbolic seid at once upon every part of a poisonous wound: afterward give internal stimulants.

Chickens, cucks, turkeys, geese and pigeons should have the heads taken off close to the bodies. The skin of the necks should be left long enough to turn down upon the backs for an inch or two. When the bird is trussed its pinions will keep the skin secure, or it may be fastened by a needle and thread.

The secret of scrambled eggs is not to beat them before cooking, to of the presence of God. have a hot skillet, and to take them off while they are yet very soft; they cook a half minute after they are taken off, which many cooks do not allow for. A dash of lemon juice just as they are going to the table in a hot dish is an addition.

To keep gooseberries for tarts: When the weather is dry pick the gooseberries that are full grown but not ripe, remove the tops and tails, and put them into open-mouthed bot-tles; gently cork them with quite new corks, and set them into a warm a quarter part: then take them out proached the horse, "it evinced the of the oven and immediately beat the most frantic delight." corks in tight; cut off the tops and rosin them tightly down. Set in a six inches high, 3 feet long and weighdry place.

A solution of exalte acid has been used for removing ink from cotton. linen or the fingers, but it is attended with the danger of injuring textiles and the skin. A much safer and betplanting the seed. The seedbed for treatment of lak or rust stains should be a level patch of mud near consists of two parts of powdered water will run over it. Scatter the water will run over it. Scatter the made to the seed by gently pressing into the mud the powder with a dry rag to the with the back of a spade. The seed the powder with a dry rag to the must stok to the mud or the first dampened stale. When the spot has disappeared the rain will send it all down the disappeared the rain will send it all down the well washed spring branch, where surface cream of tartar and one part of finely

FACTS AND FANCIES.

The inhabitants of Eap island, in the Pacific, have pink hair. A calf "having seven legs" is the latest monstrosity reported from New Brunswick, N. J.

A married couple at Raleigh, N. C., are aged ninety-nine and ninety-three years, respectively.

According to Canon Farrar about 4,000 clergymen of the church of Eng land are out of employment.

Paris now gets its water supply from six great springs; it travels through eighty-three miles of aque-

There are 173,000,000 Mohammedans in the world already and 400 missionaries are sent out from Cairo every year to make fresh converts. Telephonemeter is the new instru-

ment that registers the time of each conversation at the telephone from the time of ringing up the exchange to the ringing off signal.

Miss Kate Levan of Bucks county. Pennsylvania, a girl of 16, drives the mail stage between Princeton and Fleetwood, and can manage a fourhorse team with as much skill as any man in the county.

During the last Paraguayan war it was noticed that the men who had been without salt for three months, and who had been wounded, however slight, died of the wounds because they would not heal.

In Russian temperance societies the pledge is taken for one year. The first time a member breaks the pledge he receives nineteen with a birch rod, and with each succeeding offense the punishment is doubled.

The often repeated statement that all the old soldiers of the first French empire are dead is untrue, as the last military budget shows that eleven are still living. These eleven enjoy a pension of 250 francs each, and are the proud possessors of St. Helena medals.

Not far from Boston a well known merchant has a cemetery lot in which, side by side, rest two wives. On one headstone there is a touching lamentation, "My beloved Lily," and on the other, "My cherished Violet." He is now living happily with wife number

The Egyptians must have studied the art of distilling perfumes to perfection. Some of their outment preserved in an alabaster vase in the museum at Alnwick is said to still retain a powerful aromatic odor, though | field. it is believed to be between 2,000 and 3,000 years old.

Two hotel cars to be run from the East to Chicago, have been finished at Wilmington, Bel., at a cost of \$20,000 each. They are new in design and unusually large. Each car has sixteen passenger compart-There are two sides to the matter the most luxurious hotel room . A ter of each car is occupied by a complete kitchen and beneath each kitchen is a large place for storage. Gas tanks supply fuel and light.

SAID BY SAGES.

To hate is the same thing as to kill. An evil thought is the mother of an evil act.

Youth looks at the possible, age at probable. Condemning other people will not

justify us. Don't go where you would not be willing to die.

Don't go to sleep until you can forgive everybody.

Don't neglect an opportunity to perform a kind action. When you try to be good try to be

good for something. People who borrow trouble never have to go far to find it.

Don't go where you would not have your children to follow you. There is no bigger coward than the

man who is afraid to de rightly. There is nothing easier to believe

than a pleasing lie about ourselves. Don't step over one duty to perform another. Take them as they come.

Don't forget that no matter where you are somebody is looking at you. Conscience is the voice of the soul; the passions are the voice of the body. Whatever sin has caused in the hu-

man race, it will cause in you if not given up. The man who deprives his brother of a right is no better than the one who robs his house.

When the soul resolves to perform every duty, immediately it is conscious

ANIMALS AND BNAKES. T

Russia possesses at least one luxury in a breed of dogs which are said to be naturally quite unable to bark.

In Northern New York, a man sat during a thunder-shower in a chain swing in a barn. Lightning ran down the chain and ripped the man's boots off without injuring him.

A Lodi, N. J. farmer, who had his horse stolen from him last month, recovered the animal by recognizing oven; let them stand until shrunken its neigh. When the farmer ap-

A tiny elephant, 3 years old, thirtying 168 pounds, is on exhibition in Berlin. The dwarf phenomenon is from Sumatra. Its normal kin weighed at the same age from three to three

John Fowler, a workman near Waycross, OA, was caught in a thunder storm. He rode up to a large tree and diamounted to take shelter. A rattlemake sounded his ruttle, frightened man and horse, who made a precipitate forcat in tive minutes the tree was shattered by a lightning stroke would have proved fatal bad remained under the tree.

AMERICAN STUDENTS ABROAD.

Handreds of Young Men and Women at European Universities.

A recent statement from Berlin shows to what an increasing extent, in these days, young Americans, especially graduates of our colleges, after finishing their home education, go abroad to study, remarks a writer in the Youth's Companion.

At Berlin University alone, it is stated, there are 208 American students pursuing the regular university courses. Besides these there are many other young Americans in Berlin engaged in special studies, for which Germany's high state of advancement in science and the arts affords particular facilities.

Some are busy investigating Dr. Koch's supposed cure for comsumption; some are studying music under eminent German masters; some are learning the German language; some are being taught painting, drawing and sculpture.

Our larger colleges-such as Harvard. Yale, Princeton, Cornell and Johns Hopkins-are most numerously represented; and there are more medical students among the Americans than students of any other branch.

Next come those who are studying philosophy and political science, history and physics. The fame of German professors in each branch of learning has attracted many of our young men, who desire to become eventually professors and teachers, and so study abroad with a view to obtaining special efficiency in the various departments.

At Berlin, moreover, there are many American divinity students who listen to the lectures of celebrated professors like Hærmack and Pffeid-

Most of the American musical students are young women who are finishing off their home musical education and intend to become either teachers or public singers or performers. The number of young Americans who attend the famous Berlin philharmonic concerts has been repeatedly remarked.

But, of course, Berlin is by no means the only European educational and art centre where young Americans congregate for instruction. There is a considerable colony of them at Heidelberg and also at Bonn, and a few are scattered at Gottingen and other German universities, each one of which is famous in some special

Paris, too, claims a large number of American scholars, who go to the "siren of cities" for three purposes especially-to learn art, music and

Scattered through the Paris schools and "pensions, are to be found very many American girls, who have gone ments, fitted up after the fashion of thither to learn the danguage of courts," and to receive the polish of Western farmers barning corn for space twenty-five feet long in the cen- which is supposed to finish off a young girl's education, and to impart to her exceptional grace and good manners.

At Dresden and Munich, at Florence and Rome are gathered many young Americans, attracted by the musical advantages and art treasures of those historic cities. It would be interesting if a census could be taken of all the American young people who are now engaged in learning something in Enrope. Probably it would be found that they number several thousand.

It is gratifying at least to learn, from the Berlin statement referred to, that 'American students of every branch are greatly respected by the

abroad to study, at least, every care should be taken by their friends that they are placed among good influences and surroundings while they sojourn in foreign cities.

PECULIAR SERVANTS. John Had His Own Ideas of Appropriate Food for Different Sexes.

It is a well-known fact that Chinamen make excellent house servants, but they also have certain peculiarities which are a little odd at first to Americans brought up in the Eastern section of the country. An Eastern lady, now living in California, tells the following story of her first experience with one of the Mongolians, filustrat-

ing their great powers of imitation; She started one day to show the new servant how to make a cake. She told him to watch her make one and then to make the others like it. In preparing the eggs she broke two in a cup, and the third not suiting her she threw it out at the window. When John's turn came, true to the letter, if not the spirit of his instructions, he broke two eggs in a cup and threw a

third out of the window.

One day the lady's husband had ocsharply. John got sulky, and when later in the day his mistress told him to kill a chicken for dinner, she beard him mutter to himself:

Me kill chicken for mistress, but me kill pap for master.

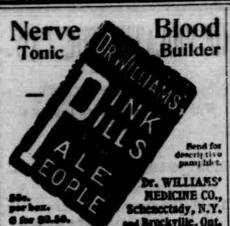
It so happened that the lady owned several handsome pupples, and feared the almond-eyed heathen would carry out his throat. She would not allow her husband to eat his dinner until she had assured herself that none were missing. - Boston Traveler.

The Chicago Way.

The Fair Visitor (hesitatingly)-If ron please, here's a little notice I wish The Society Editor-Certainly, mad-

am; let me have it. The Fair Visitor (reads) - The sev-

enth engagement of Mrs. Smith Jones-Brown Thomas-Riebards. new Quitemail. is ansounced. The favored seventic is Mr. Percy Wuncemore, of Wabash avenue. Pittsburg Bulletin.



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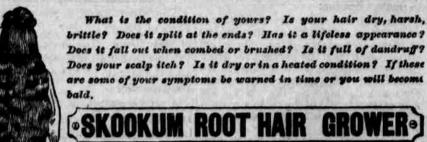
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