Any horse worth wintering should have some green food in winter to keep its bowels open. It is dry and concentrated food that carries fevers by constiaists in the fact, not that it directly American Cultivator.

SELECTING STOCK FOR BREEDING,

the common stock by breeding. One of of securing first class cows. When they its special valuable points is the inherited have a cow that they know to be good ability to transmit its special qualificathey do not feel disposed to part with her tions which have been acquired during for any trivial cause. years of feeding and selections of the has been proved so conspicuously and so will command only a low price. They generally that any farmer who retains the make poor beef; they will not take on prejudice referred to may be understood | flesh readily, and the butchers will pay to mean that he has had no experience in but little for them after they are fattened. the matter or has made the great mistake When the cost of feeding is deducted above mentioned. In the breeding of from the price received from the butcher, cows for the dairy it is unquestionable it leaves but very little to represent the that the use of a pure-bred bull, selected value of the cow before the fattening and provided with good cows, may be process was commenced. made worth \$500 to any dairyman who will rear the calves judiciously, if his too long, but as far as my observation herd numbers no more than ten cows, goes it is seldom practiced. A good and this within five years. But it should not be forgotten that the better the cows from their old cows as they should, but the greater the progress made in this improvement. The use of such a bull will cause the owners do not feed them libeasily double the product of the herd in erally enough and care for them properly. the five years mentioned, which is equivalent to the doubling of the area of the farm or the halving of the cost of work- after they have gone beyond the point of ing it. But equal dependence must be placed on the feeding and care of the possible profit. placed on the feeding and care of the herd as on the breeding of the sire.—New the best milkers and thus having cows York Times.

### FARMERS' FOWLS.

They should have a warm house; it the same, and shingled only when it be- to keep her as long as she is in good gins to leak; a ground door; a window health and her milking qualities are not in the south side, not too large, and well scriously impaired. barred; the roosts in one end; the nestbox in a corner; two or three on the ground, with several above these, disposed irregularly; covers may be arranged, so that the hen may erecp in and ing, for nearly every woman is a thoughtout and be as secluded as she likes. In ful guide in the care of such stock, and another corner place a vessel for milk and should be given an opportunity to use one for water; along the side a dust-box; her judgment. straw the floor; throw the grain on the straw and let them scratch for it; feed especially in cold weather. In the morning feed screenings, scraps from the table, warmed skimmilk (the very best egg food); fill the water vessel with water slightly warmed and the dust-box with coal ashes.

Ie afternoon give a feed of corn, another dish of milk and another supply of water, if necessary; gather the eggs; then, if the fowls are all in, shut them up for the night; allow them to run out every day, except in stormy weather, or when the snow is too deep; but do not dairyman that his cows are capable of allow one to make a nest outside; in this consuming and digesting much more way they will supply themselves with food than the usual allowance. Experiwhat you do not furnish them. On ment will soon denote which of the cows pleasant days, when they are all out, dust the house thoroughly by throwing the coal ashes high upon the roosts, and do years old. The farmer need spend no working. During long spells of wet-more time or labor with his fowls than weather the bees can do no work, nor

## LONG KEEPING OF APPLES.

Winter apples of the best keeping

This should be observed in keeping apples for use during winter and early contain a reliable thermometer.

the late fall or early winter, and wrap tobacco is also advantageous. tissue paper around each apple. Bought layer of apples, stems up; fill all the spaces with the chaff, and then a layer of chaff, and so on. Apples so packed will keep nicely in an outhouse with three or four feet of straw thrown over them The barrels or boxes should rest on the

The apples to be kept late should be

## OLD COWS.

writer in the American Dairyman, is a question which the majority of farmers and dairymen are often obliged to consider. The minority are saved this trouble for they never have old cows. Many of them only keep a cow two or three years, feed her as much grain as she will bear, and when she shows the slightest indications of falling off in her milk production they either sell her or elas yet. passed long before she has become ad- deed .- St. Louis Star-Sayings. vanced in years.

If she is properly cared for and judi-ciously fed a really good cow may be kept many years with profit to her owner. Cows have been kept until they gestion confined himself to bread and were eighteen or twenty years old, and butter, accompanied with strawberries, been quite productive to the close of this raspberries, blackberries, peaches, etc., period. But there are not many cases of in their respective seasons. They cured this kind. Most cows fail so much by him. - Country Geatleman.

the time they are ten or twelve years old that it becomes a question whether it will pay to keep them.

I believe that if a cow is really good and is hearty and vigorous it will pay to keep her until she is pretty old. true than an old cow needs a little betpating the bowels, making the hair ter care than a good many young cows rough. The good effect of oil meal conher than it would to keep a younger cow ach to digest food more perfectly. Car. of the same size. But if the cow is sold and a younger one is bought to take her rots have the same effect. A few given place it is not at all certain that as good daily enable the owner of a horse to diminish the grain ration and keep the an. assures that "a bird in the hand is worth imal in better order at less expense .- | two in the bush," and many a farmer has found that a good cow that was growing old was a great deal better than a poor one that was still young. And some farmers who have had a good deal of experience both in The special fitness of pure-bred stock buying and in raising stock appreciate more to the farmer is in its ability to improve fully than they used to do the difficulties

Another reason for not selling the old est for reproduction. And this ability cows too soon is found in the fact they

There is such a thing as keeping a cow This is altogether a different matter from incurring a loss by keeping the cows

coming along to take the places of those which for any reason are removed from the herd. But I do not believe in turn-They should have a warm house; it ing off a good cow merely because she is can built of matched boards; the roof of growing old. I believe it will pay well

### FARM AND GARDEN NOTES.

A woman can aid in caring for poultry, and her suggestions are worth consider

The stalks from old asparagus beds should be burned, and a good dressing all your grain-screenings to your fowls.

Sloppy food is not good for them, good, rich garden soil is suitable for as-paragus. Newly set plants should be lightly covered during winter.

Many a crop of fruit is lost, and many a fruit tree dies from the unsuspected cause of injury to the roots by hard freezing. Protect them by tramping the snow hard, and covering with long manure. In the case of peach trees this will

other cleaning, if necessary. Keep few The amount of honey to expect from old fowls; market the old with the young a hive cannot be estimated from the in the fall, keeping the finest pullets; in- number of bees in the colony, but upon deed you should have no fowls over two the advantages possessed by the bees for this. He will have eggs in winter and can they fill the combs unless they have vigorous, healthy fowis in spring.—New
There must be bloom of some kind or
there will be but little honey.

When chicks of different ages are running together and older birds are about the food for the little ones should be sorts may be kept until summer appies are available. Of course, perfectly sound apples must be selected—a small bruise only such can enter. This will save the or decayed spot cannot be allowed. A youngest and the delicate from being temperature just above the freezing trampled upon and crowded out, and point, and equable, is essential. Fruits do will give them chance to eat their fill at not keep so well in a warm temperature, their leisure. They will soon find out and fluctuations are even more to be what it means and more often than not will be found waiting in the pens for the food to be thrown to them.

The value of lime in the poultry-yard spring; and for this reason it is best to cannot be overestimated; experience have the fruit-room disconnected from teaches that there is nothing more effecthe cellar, or at least separated from the tive as an insect-destroyer than a thick rest of the cellar by a partition. If a coating of whitewash made of fresh lime brick partition cannot be afforded, one and an infusion of crude carbolic acid. of matched boards will answer. Sliding Cleanse the house thoroughly before apsash will enable one to regulate the tem-perature. The fruit room should always tion of the woodwork, especially the perches and the sills on which they rest. Select the apples for long keeping in A generous fumigation of sulphur and

tissue paper around each apple. Bought in quantity this paper is cheap, and several bushels can be wrapped in an hour. Place the apples on shelves, stems up. Or, what is perhaps a better plan pack Or, what is perhaps a better pian, pack food and reduce the quantity. A small the apples down in fire-dried sawdust or bran mash with a teaspoonful each of salt bran, chaff or land plaster. The fruit may be packed in either kegs, barrels or boxes. First make a layer of chaff, or whatever is used, an inch thick; then a cornmeal has been largely fed change It is useful to change the food of fatten-

## Trials of City Pedestrians.

A very little thing will make a man feel very cheap. Now, how often a man kicks himself metaphorically for a little assorted out in the early spring and incident on the street that no one notices. placed in a room that can be kept cool- He is walking along, and he runs into one that can be opened up to admit the cool night air and closed tight during the heat of the day.—American Agriculties the other man steps to his right, and the the other man steps to his right, and the two confront each other again. Then, while the one steps the other way, the What to do with the old cows, says a another blockade. Then each grabs lady, realizing that she was about to production they either sell her or else get her ready for the butcher. Under their make some remark to a dead stranger, treatment a cow has no opportunity to who looks at you with a kindly pity as if grow old. She is crowded so hard that the period of her highest usefulness is rows of the pedestrian are numerous, in-

## Pleasant Medicine.

A man with poor health and poor di-

### SCIENTIFIC AND INDUSTRIAL,

The difference between the weight of brain in man and woman increases with civilization, and is most maked in the

Caucasian races. Recent discoveries made by the use of the spectroscope show that all the heavenly bodies appear to be composed of the same chemical elements,

Siberia is said to have a spot of ground about thirty miles square that has not thawed out for a hundred years, and is frozen to a depth of sixty feet.

Professor Woodward declares that in about two thousand two hundred years the rock over which the waters plunge at Niagara will all be worn away.

Leather, paper or wood may be firmly fastened to metal by a cement made by adding a teaspoonful of glycerine to a gill of glue. It can be used for fastening labels on tins.

About 3500 watches are daily manufactured in the United States. A first-American watch, well kept, will last thirty years, or sometimes even longer, before the works wear out, but the average life of an ordinary low-priced watch is ten years, while that of a lower grade is seven years.

It has now become a well-established fact that waste-water power can be converted into electric energy, conveyed from ten to one hundred miles on a small copper wire in amounts from ten to five hundred horse-power, at a cost not to exceed six thousand five hundred dollars per mile for the greater distance and the larger power.

A bomb-shell has been thrown into the scientific world through the discovery of Brereton Baker, of Dulwich College, about oxygen. That gas, which is known as the great agent of combustion, loses its character when dried. It becomes inert. Even charcoal will not burn in it when heated to redness, nor phosphorus become luminous. As yet there is no explanation.

It is found that files can be profitably recut by cleaning them and placing them in acidulated water between two plates of carbon, and closing the circuit so as to form a real voltaic cell. The hydrogen liberated clings to the points of the teeth of the file, protecting them from further action, but the cutting action proceeds freely over the remainder of the file. This process speedily brings back the teeth of an old file to the original shape and dimensions, without necessitating either softening or retempering the metal.

Experiments of an encouraging character have been made in the manufacture of spikes, with a view to making a finished article by rolling the bar so that its width shall be the length of the spike, and in such shape that spikes may be cut from it with shears, similarly as a cut nail is made, excepting that the head is formed in the rolling process. In tests made by running through some steel nails that have been slowly heated for two and one-half hours the result showed that with some changes in the working mechanism the operation was entirely practicable.

It seems that the project for a telescope still larger than that of the Lick Observatory, and to be mounted on Wilson's Peak in Southern California, has not been abandoned. The crown glass disk for the lens is already cast, and has been exhibited at the Paris Exposition by its maker (Mantois). The other, the flint glass, is yet to be cast; it may be a year or more before it is ready, and the Clarks can do nothing about grinding the lenses and making the object glass until they get both pieces. The raw material (i. e., the two disks of glass unground) will cost over \$15,000.

## She Wished to See a Tiger.

Last summer two ladies staying in India drove in a bullock tonga to see the view from a neighboring hill. The prospect of the thick jungle, stretching away for hundreds of miles, naturally suggested the idea of game, and one of them "How I should like to see a real live

tiger just once in his native glen." The sun was beginning to sink as they started to drive homeward by an unfrequented track cleared through the jungle. Soon they came to an open space, and there, "All at once," writes one of them, "on looking up, I saw what I at first thought to be the stump of a felled tree, about thirty yards off the roadway.

As we drew a little nearer I saw it was "Look,' I said to my friend. 'It's a

"Fortunately, the bullocks did not scent him, or they would have bolted and probably upset the tonga, leaving us at the tender mercy of the beast. As we were passing him he left the tree under which he had been standing and came toward us is a crouching manner, as if making ready for a spring. We then saw it was a tiger, and a very fine one.

"To say that we were frightened would not be wide of the mark, especially as he moved parallel with us for about twenty yards, keeping his eye upon us the whole time, and looking as if determined to have at least one of us for a meal. The driver whipped up his bul-locks, we shouted, and one of us opened and shut a white umbrella. This apparently frightened the tiger, who disappeared into the bush."-London Graphic.

## Touching Forethought.

Shortly before last Christmas the wife of a well-known West End physician died of cancer. On Christmas Eve the door-bell of the house rang, and on the door being opened a messenger delivered a good-sized package. It was taken in, and when opened was found to contain the Christmas presents of the dead wife die, had purchased a number of gifts and had them sent to the house of a friend on Walnut Hills with the admonition that they be delivered on Christmas Eve. Each of the gifts was marked by the donor in her own handwriting .- Cincinnuti Enquirer.

## Off-Days Even for a Watch.

Watches are funny things. Do you know that there are times when a watch will not run regularly? I have had rail-way engineers say that locomotives are much the same way. When a watch has one of these irregular spells it is almost impossible to make it go. Many a watch is ruined, too, at times when carelessness is the prime cause. Some men will wind a watch too close, and then if it refuses to run shake it until everything is out of place. A large per cent. of the repairing done is brought about by persons who do not know how to take care of a watch .- Philadelphia Rem.

### NEWS AND NOTES FOR WOMEN.

There is a girl driver on the street-car line at Abilene, Kan,

Mrs. Jefferson Davis has decided to re-

side permanently in Kansas. Genuine antique Persian embroiderie

are worn on cloth and cashmere dresses. Blanche Willis Howard, the novelist has patented a music rack and a bath

There are 16,000 women enrolled on the books of the New York Exchange

for Women's Work. Heliotrope and yellow are combined in the evening toilets of silk crepe and transparency cloths.

Mrs. Emerson and Miss Emerson, wife and daughter of the dead philosopher, live in Concord, Mass.

The University of Basle is the only one in Switzerland which still refuses to admit women to its medical teaching. A woman in Illinois who broke her wrist while trying to raise a window in a railroad car has just received \$1685

Miss Maud Morgan, the harpist, dresses most picturesquely for the stage. The style is that of Kate Greenaway

grown up. Mrs. Grover Cleveland is very fond of French literature. She spends a great deal of time in reading Parisian novelists in the original.

Sleeves of real tapestry cloth are put in long wraps of velvet and brocade. The contrast is novel, whatever may be said about the taste. Pretty and comfortable dressing jackets

for wintry mornings are made of flannel, with large collars and turn-back cuffs of cream worsted lace. Parlor maids have been forced into

white muslin dresses and Turkish slippers with tassels on the toes, but minus so much as the spring heel. The event of the season at Berlin was the appearance of the Empress, hereto-

fore wearing her hair on the top of the head, with the double plait of Faust's Gretchen. The wife of a New York banker has invented a machine for making wire rope, the patent of which she has sold to

a San Francisco firm for \$25,000 cash and a royalty. Striped cheviot is the best and most serviceable stuff that can be had for street wear. Brown is a good color, and a few ornamental buttons are the only

decoration required. Mrs. James McKee, the President's daughter, is never so pretty as at breakfast, when she appears in a morning dress of turquoise blue silk, made Wat-teau style, with bronzed slippers.

Mrs. Olga Neymann, a New York den tist, hires female assistants, all of them young, pretty and earnest, whose duty it is to stand by the patient, and, if it is a lady stroke her hand sympathetically.

The belle at a recent dog feast on an Indian reservation in Dakota wore a jacket trimmed with teeth from 150 elks, which she herself had slain. She is the granddaughter of the chief of the tribe. Ex-Speaker Randall's married daugh-

ter bears a striking resemblance to her father. She can converse intelligently on the most intricate political matters, and has a wide fund of general information. Dinner gowns for very young ladies barely touch the floor in the back, but

those worn by their mothers and older sisters have very long flowing trains, round or oval, edged with a cord or bias fold. The prettiest hats for young children

are of white felt, with straight, round brims turned up at one side, and fastened under a cluster of white ostrich tips, a single long feather encircling the crown. The newest tulle gowns have their low

bodices cut with very sharp points below the waist line, and either round or pointed at the neck, the full sleeves being long enough to drape the arms almost to the elbows.

Jackets with vests are quite in favor. The regular jacket fronts may fail apart over the pointed vest in the fashion of a gentleman's coat, or they may be so arranged as to close with one or more but-tons, or may button from top to bottom according to fancy.

Eccentricities in furs are shown in the way of combinations of two kinds. Very little, however, can be said in favor of this, the only excuse for its existence be-ing the insatiable desire of capricious ladies for something different from that which already exists.

A bold and effective ornament for an evening dress is a Russian sabre, eight or ten inches in length. This is thrust through the dress material, or into a mass of lace or crepe folds, a greater por-tion of the blade being left in sight. The hilt is covered with flue diamonds.



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General Deodoro da Fonseca, President of the Republic of Brazil, is much like a bird of prey in appearance. The chief feature of his face is a thin, high nose, very much hooked, above which his small, keen eyes watch restlessly all that is going on.

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Lady-"Oh, my! I couldn't wait that long. Why, I promised to be home at dinner at five o'clock ! "

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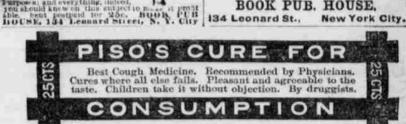
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