FARM NOTES.

prevent the escape of steam, and when slaked pass it through a sieve. To every six quarts of this lime add one quart of rock salt and one gallon of water. After this, boil and skim clean. To every five gallons of this add, by slow degrees, three-quarters of a pound of potash and four quarts of fine sand. Coloring matter may be added if desired. Apply with a paint she writes the degreest cleverest little. as follows: Slake lime in a close box, to be added if desired. Apply with a paint or whitewash brush.

-Have measures and scales, learn how much difference there is in the yield of your cows, and then figure out the loss in keeping a poor cow. Do not take some other man's word for it, but do it yourself; then you will be convinced

terial. There is an effect from charcoal which helps to correct acidity of the stomach, and it rapidly absorbs gases. It is ex-cellent for mixing with the food of ani-mals that are being fattened, experiments showing that the increase of fat is greatest when a proportion of charcoal is allowed.

-There are many duties on the farm that are performed only during certain seasons, but an amount of preliminary work can be done in winter which will save time in the spring. Not a seed should be planted that has not been ex-amined, and an over-hauling of the tools should not be over-looked. Get ready for spring in advance, so as to prepare for hurry during the planting season. The manure heap should also receive attention, as the condition of the manure will largely influence the start of the plants in spring.

.- Asparagus is a crop now largely engiving the roots plenty of horizontal room, three feet apart each way, with no other plants between, being the nearest allowable distance, while some prefer four or five feet. Thus the cultivation, and excessive manuring is not necessary.

-There is no rule governing the feeding of linseed meal. Where an animal is unaccustomed to it, the proper mode is to be-gin with a gill at each meal and gradually increase the quantity until as much as a pint is given. Too much linseed meal has a cathartic effect, and should such be noticed the quantity should be reduced. The best results from its use is when it is fed in connection with other foods.

—Just at this time, when there is a chance to do so, all the implements should be cleaned and oiled. The harness may need overhauling, and loose spokes or tires of wheels may be repaired. In the spring the use of the implements will not permit of repairs without loss of time.

-It is useless to attempt to keep winter squash that has been injured by frost. Those that are uninjured are best kept on shelves in layers, in a location where the temperature does not fall below 40 degrees. Be careful that they are not kept too

—Although milk is, on an average, about 87½ per cent. water, it really does not satisfy thirst when used as a drink. It may at first seem satisfactory, but as the package will be gingham aprons, stockings, Globe.

One thoughtful woman in a large city sends a bundle to the matrou at the Union depot the day before Christmas. In the package will be gingham aprons, stockings, Globe. milk coagulates and digestion begins the heat of the stomach is raised and a feverish thirst comes on. A noted scienist claims that the temperature in the call's stomach often rises to 104 degrees. The young of often rises to 104 degrees. The young of all animals, as well as children, crave pure, cold water. It will often stop the

The rapid, steady and gentle milker of the cow is the one sure to obtain the best larger ones can contribute to the effectresults in the dairy. When quickness of iveness of the display. A novel decoration motion is accompanied by careless roughresults in the dairy. When quickness of motion is accompanied by careless roughness and irregularity the effect is exactly the opposite. Slow milkers always gradually dry up a cow, and for the reason that if the milk be not drawn about as fast as it is given down it will subsequently be withheld, and that which is withheld is what is known as the "strippings."

-Parsnips are best stored in mounds in the open air. Lay them on boards slightly raised above danger from water, cover with straw after heaping them, and then cover the straw with earth well pressed to the straw. Leave a wisp in the top to allow gases to escape. They are excellent in winter for the table and for stock, and are usually but slightly injured by frost.

-One of the safest and best ways to send a few choice cut flowers to a distance is to out slips in potatoes and insert the flower stems, taking care that they are firmly fastened in and supported by a little cotton or paper. An ordinary potato will keep most flowers fresh for two weeks or more in a moderate temperature. Pota-toes can also be used in floral decorations, being disguised by leaves and flowers.

-The soiling system of managing cattle is to feed within the barnyard limits, carry the food to the animals and save the manure, dispensing with the aid of pasture. Whether pasturing or soiling is the more profitable is to be determined, as climate, soil, markets and local conditions cannot be ignored. Those who practice soiling are few in number, but they claim that the system dispenses with fences, enriches the soil, enables larger crops to be grown and concentrates the efforts within a limited space. The system demands greater labor and incurs heavier expense, but the profits from soiling, however, are much greater in proportion to the land so utilized and the capital invested. The old adage that good clover and timothy grass (green) is the food for the milch cow cannot be disregarded, although there is no objection to the dry material, which contains less wa-ter and nearly all of the nutritious matter, but there is a dietary consideration which cannot be overlooked. The purity of the products of the dairy demand that the animals have pure water at all times, a proportion of green food and exercise. The latter desideratum is an impossibility under the soiling system, while cleanli-ness, to be strictly enforced, demands labor that but few dairymen are always willing to hestow. It is possible that the pasturage and soiling systems may be partially com-bined in order to derive the greatest benehas its supporters, and every one should be willing to adopt a plan that improves on either.

-Subscribe for the WATCHMAN.

FOR AND ABOUT WOMEN.

Though out of reach of a florist, at least have a bit of green on the Christmas dinner table, if only a growing plant or some sprays of a vine. If there are child-A good wash for roofs and buildings is ollows: Slake lime in a close bux, to

> ly cannot buy a present, but every year she writes the dearest, oleverest little Christmas letters—why I would not miss mine for anything! And even a picture post card is a rememberance for it proves the sender had a gracious thought for the recipient.'

One is often at a loss to know what to If; then you will be convinced.

—Charcoal is often recommended for pigs

If a camera is considered too expensive, and fowls, but it is not generally under-stood that it is good feed for any kind of stock fed with corn or other heating ma-away some of the long winter evenings. One or more of the "units" of a sectional books to read, and an umbrella of his very own-a good one with his name engraved upon it will please him as much as a box of chocolates will a girl. At any rate try to give the boy something personal and not too practical. Eliminate kerchiefs, neckties and gloves from his list this year and substitute a ring, cuff buttons, a sweater or foot-ball suit, a rifle, fine knife or even a silver match safe. Don't be afraid the last mentioned article will induce cigarette smoking, for your boy has, of course, been trained to avoid that, and every man and boy has need of matches many times though they never smoke.

Among the many desirable gifts for women may be mentioned jewelry in which anything from a diamond studded watch gaging the attention of specialists. A requisite for the growth of fine plants is in giving the roots plenty of horizontal room, slender neck chain. A cross of heart-shaped amethysts set in dull silver is very popular as are the more expensive pendants set with baroque pearls. If she does not possess several a dainty fan for special occasion is a welcome gift, while gloves and fine lace are always in order. Toilet silver is still in vogue and books, a picturesque lamp, a dainty apron, a handsome picture or raffia basket, a fine piece of china or her own bookplate will appeal to the college girl. Housekeepers young or middle aged always enjoy table linen, china, silver or a piece of furniture and though "out of season" handsome window curtains will be none the less ap-

In remembering the servants, give some pretty little trifle that is not intensely practical. One woman, last year, gave her driver a prir of fur-lined gloves with a box of beautiful stationery and though he probably does not write two letters a year, his face fairly beamed as he handled the fine paper. And the house maid appreciated a dainty photograph holder with the daughter of the house's its arrest wing. picture quite as much as the pretty ging-ham dress pattern tied with ribbons.

As a matter of course wherever there is a Christmae tree there must be ornacloves and cranberries, while tiny red peppers alternated with pop corn kernals is more attractive than the corn alone. Tiny Japanese lanterns are both safer and more picturesque for holding the candles and only cost from 20 to 35 cents a dozen. Very small bright apples are desirable and if there is an "artist" in the circle, large white envelopes with water-color sketches on will serve to hold small gifts and be desirable book marks afterwards. Tiny desirable book marks afterwards. Tiny flags are good if used generously and gilded walnuts and small pine cones take the place of the frail glass ornaments very well. Cornicopias of fancy paper are decorative if kept small, and animal crackers covered with gold paint are unique. Little sailor hats made of raffia braided and sewed together, with a band of scarand sewed together, with a bath of scal-let ribbon and a spray of holly are pretty and if a "lining" of scarlet silk is sewed in they serve very well to hold a few bon bons. Small gifts tied in artificial oranges (made of crepe paper) are all the more enjoyed because of the delight in untying a mysterious package. These should be fastened with braided lengths of the same color paper. A gift of money enclosed in a tiny envelope attached to a small Japanese parasol may have written on the envelope the words: "For a Rainy Day." — The Pilgrim.

Coffee pots or tea pots that have become musty may be cleaned by putting a good quantity of wood ashes into them and filling with cold water; allow this to heat gradually, then boil for a short time, after which set aside to cool, when the inside about he thereughly sempled using a should be thoroughly scrubbed, using a small brush and hot soap suds. Then scrub well and wipe dry.

A simple method for cleaning new iron cooking vessels is to rub the vessel well inside with lard, then set aside for 12 hours. After this wash thoroughly with soap and water, then repeat the greasing and set the vessel aside again for 24 hours. After the second greasing the vessel is ready for use.

For severely plain tailored coats and skirts for morning wear the smartest blouses are the plain, or almost plain, linen affairs. All of the smart shops will carry the fine and coarse linen and batiste lin-gerie blouses through the coming season.

The silk-warp Henrietta cloth has been seen lately made up in modish gowns for afternoon wear, and very handsome it is, fits that can be secured. There are many objections to both methods, though each of wool and much body, while it drapes in graceful folds.

Close fitting turbans of suede, trimmed with quills or a harness buckle are also

How Copper Kills Bacilli.

Man would seem to have at last discov ered an effective weapon against typhoid fever, Asiatic cholera and similar merciless scourges which invade our intestinal and ren, prepare tiny Christmas trees to set in front of each plate by putting sprigs of cedar in little pots of earth. For the evening meal decorate the table with bows but we have good reason to believe that but we have good reason to believe that we shall be able to drive them out of cities and towns, and camps and prisons, and wherever men are living herded close to-gether. The weapon is not of steel or iron, but copper, the most convenient form being the common compound of copper and sulphur known as blue vitriol, copper sulphate. Every school laboratory contains some beautiful blue crystal of copper sulphate. Every schoolboy for generations has dabbled with these blue crystals, or has watched his teacher use them for ordinary class-room experiments. And yet who would have imagined that a pinch of these crystals dissolved in the water-tank in the attic, or in the cistern or well, would kill any typhoid germs that might be lurking there; that its use would insure healthful drinking water in a crowded military camp; that it would exterminate malaria and yellow-fever-carrying mosquitos in stagnant pools and swamps by destroying the vegetable organisms on which the mosquito larvae feed; that it would, in a few hours, make the water of an evil-smelling and foul-looking city reservoir, containing billions of gallons of water, clean and sweet; and that the amount of copper that accomplishes all this is so small that while it kills the bacteria in the water it does not make the drinking water poisonous or injurious to the human system?

It has been known for a long time that copper destroys bacteria, but the metal has not been much used heretofore for the purpose, because scientists have generally be-lieved that the dose required to kill the bacteria must be very concentrated—so concentrated, in fact, that it would poison the water or substance containing the bacteria and make the cure worse than the evil. A specialist of the United States Government, Dr. George T. Moore, has now come forward and announced, with the authority of the government behind him, that he has discovered how to get the good effect of copper without any danger-ous result; that he has a way of using cop-per so diluted that it cannot hurt a haby, and yet so active that it will destroy virulent cholera and typhoid bacilli in four or five hours.—Gilbert H. Grosvenor, in the December Century.

POINTED PARAGRAPHS.

If you don't want to jeopardize friendship don't lend money to friends. When we hear of a person who refused to submit to an operation and got well we feel like cheering.

The youngest girl in a family is liable to put on princess airs long after her sixteen-year-old complexion fades. Elderly men should not judge young men by themselves. Young men and elderly men are entirely different prop-

ositions. The colors in a tree don't appeal to a man so much as the lumber in it, and all the poetry in the world will not

Families should be good and large, so that every member will hear the real truth about himself from at least a half dozen persons.

Old fashioned hospitality is dying out. Perhaps you are to blame for

Japanese Courage. The little men of Japan can give the world many thrilling stories of courage and many of clever stratagem as well.

One of the powerful nobles of the olden time was forced to flee from his enemy in haste. He hid in a barrel and was borne away by servants, who, meeting the enemy, declared that the barrel contained food.

"If there is anything living in it there will be blood on my sword," said the nobleman's enemy and thrust his weapon into the barrel. It went through the hidden man's legs and made a terrible wound. But he, with quick thought, wiped the blade on the hem of his garment as it was drawn out, so that it went out clean, and he was not discovered.

A Vast Fortune Is Not Riches. To be engulfed in one's occupation, swallowed up in a complicated life, harassed by the striving and straining, the worry and anxiety which accompany a vast fortune, is not to be rich. Time and opportunity and inclination to help others are the most valuable things in the world, and if you cannot seize these, if you cannot utilize them to your own enlargement, your own betterment, you are poor indeed although you have millions in the bank. -Success.

Sympathetic. "You look awfully tired, young man," said the benevolent looking woman to the young man with the books under his arm.

"Yes, ma'am," replied the student. "I'm studying for a doctor." "It's a shame! Why don't you let the doctor study for himself?"-Yonkers Statesman.

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