

## THE FARM AND GARDEN.

COMPOST THE COW MANURE.

Horse manure ferments so quickly and easily that under almost any circumstances in the soil it soon gets into available condition for use of crops. But cow manure is less active. It should therefore either have some horse manure mixed with it or be piled up loosely in sufficient bulk to start a vigorous fermentation. It is not likely to firefang, as horse manure will if lett in even small heaps .- Boston Culticator.

#### SCATTER AIR-SLACKED LIME.

Intimately mix a gill of crude carbolic icid with a quart of dry, nir-slacked lime; then mix this quart with two pecks of lime. Dust the dry lime over every part of the poultry house, on the walls, in the nests, over the roosts and over the yards. It will be found an excellent disinfectant, and will do more to destroy the germs of disease, and with as little cost, than anything else that can be tried .- Farm and Fireside.

#### A GOOD GRAFTING WAX.

The usual method of making grafting wax is as follows: Two pounds of common resiu, one and a half pounds of beeswax and one pound of tallow are melted, the resin separately, and then thoroughly mixed by stirring over the fire. The mixture is then poured into lukewarm water and worked up with the hands into rolls for use. It will be found very convenient to steep some strips of cotton cloth in the melted wax and wind them into a ball or balls for use in binding over the grafts. Liquid grafting wax is made by adding one ounce of turpentine to a pound of resin melted with one ounce of tallow, stirring the mixture and then adding seven ounces of warm alcohol. The alcohol should be warmed in a hot-water bath, and not over a fire. This may be applied with a brush, and becomes very hard.---New York Times.

### SETTING FENCE POSTS.

When the other farm work will permit, early in the spring, just as soon as possible after the frost comes out of the ground is a good time to set fence posts. They should be well sharpened first, as they can be driven faster and easiersthan they can be set in any other way. A rapid plan of work is to take a spade and dig out a spadeful of soil first, then with a sharpened steel bar make a hole the proper depth; set in the post and maul it to the proper depth. This will be found easier and faster than attempting to drive the pits in all the distance.

Stretch a line where it is desired to run the fence, and set a stake where each post is to be set. A maul weighing sixteen pounds will be heavy enough to drive the posts. Two men can work to good advantage together, one to make the holes and the other to drive the posts. A box, cart or platform will be needed to stand upon while driving the posts.

The work must be done while the ground is soft, as after it becomes dry the labor will be very materially increased. Usually the work can be done at a time when the soil is toowwet for planting .- St. Louis Republic.

Celery-One ounce gives 7000 plants, and requires eight square feet of ground. Cucumber-One onnce for 150 hills.

Cress-One ounce sows a bed sixteen feet square. Egg Plant-One ounces gives 2000

plants.

Endive-One ounce gives 3000 plants, and requires eighty feet of ground.

Leek-One ounce gives 2000 plants, and requires sixty feet of ground. Lettuce-One ounce gives 7000 plants,

and requires seed bed of 120 feet. Melon-One ounce for 120 hills.

Nasturtium-One ounce sows twentyfive feet of row.

Onion-One ounce sows 200 feet of row.

Okra-One onnce sows 200 feet of TOW.

Parsley-One ounce sows 200 feet of TOW.

Parsnip-One ounce sows 250 feet of

Peppers-One ounce gives 2800 plants. Peas-One quart sows 120 feet of row. Pumpkin-One ounce to 150 hills. Radish-One onnce to 100 feet. Salsify-One ounce to fifty feet of row. Spinach-One ounce to 200 feet of row. Squash-One ounce to seventy-five

hills.

Tomato-One ounce gives 2500 plants requiring seed bed of eighty feet. Turnip---One ounce to 2000 feet.

Watermelon --- One ounce to fifty hills.

FARM AND GARDEN NOTES.

Set all the hens you can.

Peaches like a mulched soil.

You can't get your seed too clean.

Have the coops ready for the early chickens.

Do not feed your poultry altogether on soft food.

Turkeys, ducks and geese need plenty of pasturage.

Perfect cleanliness will lessen the need of disinfectants.

Small, unmarketable potatoes are just as valuable to feed.

Scurvy leg can be communicated from one fowl to another.

Grass seeds cannot be sown too early after the snow leaves.

Scalded bran makes a good feed for

poultry at this season. Boiled potatoes and wheat bran make

a good "mash" for pigs.

No matter what the blood, no animal will thrive without care.

Apples enough were raised last year to feed the codling moth.

If you can't have shade trees in your pastures build open sheds.

One advantage with rye is that it furnishes very early pasturage.

If muddy, sponge off your horse's legs before leaving it in the stall.

Only the smooth, hard sort of peas should be planted very early.

Manure only sufficient for one acre is half wasted if put on two acres.

It does not pay to put in crops before the soil is put in proper condition.

Whatever is brought on to the farm adds to its fertility, and vice versa.

The cabbage worm can be subdued applying slacked lime dust, sifted on. Thoroughbreds are good; but a thorough head is the best thing on a farm. If stables were properly fumigated in summer, lice would be scarcer in winter. Roup is contagious; all sick fowls

SELECT SIFTINGS.

Dyspepsia is the oldest malady known o mankind.

The earliest date on which Easter can fall is March 22. Queen Anne's war ended with the

Peace of Utrecht in 1713. A\* New York dealer advertises that he

will pay cash for old teeth. The first sewing machine was patented

in England in the year 1700.

The population of Texas, according to he eleventh census, is 2,235,532. Somebody has computed that if thirty

wo million people should clasp hands they could reach round the earth. Glucose is produced in the United

States at the rate of 1,000,000 pounds per day, principally in Western States. The Emir of Bokhara has sent to the Czar of Russia a present of eight milkwhite asses of the purest Central Asian

breed. Street cleaning experiments in New York City show marked advantages of the "block" system over the machine

system. Just above Vienna, on the Danube, is the convent and school of Melk, which has just celebrated its one thousandth anniversary.

High heels, it is said, owe their origin to Persia, where they were introduced to raise the feet from the burning sands of that country.

Previous to the time of Elizabeth the only article to assist in eating was the jackknife, which also served for sundry other purposes.

The largest gold com in circulation in the world is said to be the loof of Anam, the French colony in Eastern Asia. It is worth about \$325.

The consumption of poultry and eggs in this country is greater in amount than the wheat or cotton crop. It is about \$560.000,000 worth per annum.

A resident of Tampa, Fla., has a natural curiosity in the form of a pair of deer horns with a clearly defined hound's head on the tip of one of them, formed in a manner that makes it impossible that it should be a work of art.

There has been a decrease during the past year in the numbers of students attending the German universities, especially in the departments of philosophy and natural science. It is the first annual decrease since 1872.

D. D. Martin, of Dublin, Cal., made quite a raid on the squirrels after a recent storm. He prepared five gallons of poisoned barley and scattered it near the squirrel holes on forty-six acres of land, and succeeded in killing 4821 "by actual count."

The verses commencing "You'd scarce expect one of my age," etc., are said to have been written expressly for a prominent New Hampshire stateman who flourished in the first half of this century He spoke the verses when a mere child at school.

to inflame our feelings, we should consider One American manufacturer ships 1000 what mischief the hery sparks may do in our inagazine below, where our temper is kept, and instantly close the door. If all the petty lumber wagons to South America every year, and yet the natives come into cities like Buenos Ayres with carts of the same style and make as were used 1000 years ago. It takes one voke of oxen to draw even an empty cart, but the people don't care to experiment.

# **RELIGIOUS READING.**

### MY PETITION.

May every thought of mine this day Be pure as sunshine's clearest ray. May every word that I shall speak Be wise and gentle, true and meck.

May every act be just and kind, From dross of selfishness refined.

May thought and set and kindiy word, Together bound, a threefold cord,

Reach out to men and help me save Some sinking one from sin's cold wave. —[Egbert L. Bangs.

## THE BLOOD OF CHRIST CLEANSETH FROM ALL

SIN. A gentleman teacher in one of our Sab-A gentleman teacher in one of our Sab-bath-schools had long been trying to make clear to his class what "the blood of Christ cleanseth from all sin" meant. Having a cottage at Cape May, he invited four of his boys to visit him. The shore, as all will re-member, who have visited that watering place, is very smooth. Walking along the beach with the hoys one day he told one of

beach with the boys one day he told one of them to get him a stick. Having got the stick he told him to write "S"-and said, "You see that letter, - what is it?" "Why," they said, "it is 'S.

"Now write T-now write 'N'-now what does that spell, boys?" "Why, sin." At this moment a great wave came in and

VOICES OF GRACE.

and let your soul delight liself in fatness.

with." "Come, buy whe and milk without money, and without price." "We are weary," sigh the laborers in the sun-beaten fields. "Come unto me," breathes her answer like a breeze from the waters, "and I will give you rest." "Cast thy burden on the Lord and He will sustain thee," she whispers to the pilgrim ready to faint on the highway. "Behold the fountain," she crises to the contrar, one and

cries to the guilty: "the fountain opened for sin and uncleanness." To the lost she

cries, "I am the Way;" to the ignorant, "I am the Truth;" to the dying, "I am the Life." How large her welcome to the sin-

ner, how soothing her consolation to the mourner, how inspiring her tones to him that is faint of heart! There is no disease

for which she has not a temedy, no want for

which she has not a supply; and every one

who applies to her shall confess at length. "It is enough: 1 am 'blessed as if all the methods and riches of grace were for me alone?"—[Hode,

DON'T HEAR EVERYTHINS.

is painful to hear, very many of which, if heard, will disturb the temper, corrupt

simplicity and modesty, detract from con-tentment and happiness. If a man falls into a violent passion, and calls us all manner of

names, at the first word we should shut our ears, and hear no more. If in a quiet voy-

age of life we find ourselves caught in one of those domestic whirlwinds of scolding, we

should shut our ears as a sailor would furl his sails and, making all tight, send before the gale. If a hot, restless man begins

by all.

The art of not hearing should be learned

There are so many things which it

In nothing else cau there be us change as in mau.

seared, then by all means scare the takes a little noise to alarm them have to come.-[Cumberland's Presbyteria

This puts the case very well

stand excitement and emotion in .

but in religion. They go to a horse shout and scream like mal new, a their hats into the air over a lim between two animals. In the they

upon storm of wild applause

amid the direct confusion, and a

and hysterical women weep floo

over a sham scene. In politic grave citizens march and yell and

ty ensigns until they are worn our hausted with sheer excitement.

church not a tear must be slied, not

of joy must be heard, not a ery of

The circulation is through two is blood vessels—arteries and ventering taining their motive power from the acting as a force-point, Alcohed in the pulsations, and, as the blood is us the pulsations, and, as the blood is us the pulsation are the extremeties faster is realing can take it up again to return

veins can take it up again to return

gestion results, and the nose, being

portion of the circulation, radionan

becomes diseased. This, however, a ferent from other organs of the boly congested and similarly diseased by alcohol.

WISE WORDS.

Troubles always look by a 1

HOW THE "RUN BLOSSON" BLOSS

The circulation is through the p

must be raised.

will find one who works little It is marvellous and beautiful to observe

how various are the voices of free grace. "I am thirsty," says one, "Come to the waters," she cries. "I am hungry," says another, "Then cat ye that which is good," she says, There is something lovable in all a ple, if we could but stand where we co see it. "But I am poor, and have nothing to buy with." "Come, buy whe and milk without

The man who can leave Trought perience of other people is an scholar.

We are never in earnest along and that we cannot occasionally gitterio astic over.

It is well enough for clearity to be at home, but it shouldn't stop there ought to be a great traveler.

How easy it is to feel generous equ you get a chance to tell other pair what they out to do with their unes

A good deal of the trouble is this comes because men take the men is to make mousy, and too little to give

Living only to get fiche manh turns out like the boy whogs deland nest. Just as he thought he mining found out that it had him.

It is said that there are odynamic dred and sixty-three bons in the body, but when a man has been a potatoes all day long, it ishelds in to believe it.

The doctors say that pleataburner will do more good than a political medicine, and yet there are puple up are as much afraid of it as they would be of the measles.

Among the bravest people in this ( world are the women was to work and support and educate a burge family of children, after their good-for-willing husbands get discouraged and brains out .- Indianapolis (Ind.) In Hora.

Before you can do much much man must be good. washed the beach smooth and clean, so that no trace of the letters remained. "Now, boys," said the teacher, "that is just the way with the 'blood of Christ.' He comes with his fove and power, and washes Many a man signs his dealle was with his tecth. your sin just as you have seen those waves wash the letters away. Do you not want to be washed?"

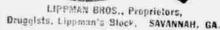
tance.

Doing a wrong thing with a goal to tive does not make it right.

Find a man who grows halo, and

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MARING SORGHUM MOLASSES.

The Department of Agriculture has just issued circulars giving brief directions for making sorghum molasses. The first step after the canes are stripped of leaves and the seed tops removed is to pass them through a roller mill. As there are manufacturers who make a specialty of these mills and accompanying, evaporators, and in addition furnish/instruction for their management, and as it requires considerable experience to make a good article of molasses, the directions of the circular, which are wholly of a general nature, need only a brief mention. Generally the canes should be worked as soon as possible after harvest. ing. As soon as expressed the juice should be treated with cream of lime. Blue litmus paper may be used to determine the proper point of neutrality. When this paper is placed in the natural juice it turns red. When it becomes distinctly purple it shows enough lime has been added. A good article for baking purposes can also be made without adding lime.

The juice after treatment with the lime

should at once be placed in a tank and brought to the boiling point, but should not be allowed to boil. When the scum formed over the top shows signs of breaking, the heat should be withdrawn and the scum carefully removed. The heat may be again applied until all the green scums have been entirely separated. The purified juice should now be reduced as rapidly as possible to the consistency of molasses. This is best done in some form of continuous evaporator, based on the old-fashioned Cook evaporator, in which the purified juice constantly runs in at one end of the evaporator, passes back and forth aeross it, and the finished molasses runs out at the other end. The quicker the evaporation can be accomplished the better for the molasses .-New York World.

SEED REQUIRED FOR THE SPACES GIVEN. Asparagus-One ounce produces 1000 plants and requires a bed twelve feet quare.

Asparagus Roots-1000 plants, a bed four feet wide and 225 feet long. English Dwarf Beans-One quart

plants from 100 to 150 feet of row. French Dwarf Beans-One quart

plants 250 to 350 feet of row.

Beans, Pole, Large-One quart plants 100 hills. Beans, Pole, Small-One quart plants

thirty-nine hills, or 250 feet of row. Beets-Ten pounds to the acre; one

ounce 150 feet of row. Broccoli and Kale-One ounce plants 2500 plants, and requires forty square

feet of ground. Cabbage-Early sorts, same as broccoli,

and requires sixty square feet of ground. Cauliflower-The same as cabbage. Carrot-One ounce to 150 feet of should be separated from the well ones. An animal that is not sheltered in cold weather will probably cat a third more than one that is, and not do nearly as well either.

Applying a good whitewash and changing plan of keeping hens' nests clear of lice. Putting the whitewash on hot makes it more effective.

It costs money to build good roads, but such expenditure will be repaid in the lessened wear and tear on horses and wagons, and on the driver's good nature. One advantage with poultry is that the most exacting work with them comes at a time when it can be given with the least interference with the other work.

Keeping plenty of clean sand in the yards will help to keep out that part of the premises clean, while, in addition, it will aid in supplying the fowls with plenty of grit.

If the hens do not seem to relish their food, in many cases a good remedy is to make them take plenty of exercise-this is apt to be the case now more than at almost any other season.

One advantage in having the larger breeds of ducks is that they are much more readily confined. A woven wire fence two feet high will ordinarily be all that is necessary to keep them in.

While rye makes a very good feed for poultry, it should be fed with other materials, as it is not a good feed to give alone. A patch of rye growing near the poultry house will supply a good green food.

With the small, quick-growing breeds of poultry April is plenty early to hatch. and if kept growing they will readily mature by November. The larger, slower-growing breeds should be hatched earlier.

Don't get into the old style of keeping pigs nine months in the year-partly for their melodious music and partly to have a scavenger on hand to eat up pumpkins, small potatoes and corn in the fall.

Sheep will improve the land if the management of the pastures is intelligent. If the sheep are pastured upon pasture that is so short that they will destroy the roots there will be no improvement.

Hens need to work. Thousands of poultry raisers get no eggs, because the hens do not have to work for a living. They need exercise. Keep some chaff or cut straw on the floor of the hen-house and scatter some wheat or barley among it and the hens will not be standing around.

stance exported shoes to the value of \$12,781,989 in 1890.

The inhabitants of the interior of the Fiji Islands will not partake of food while a cloud is in sight, especially if the cloud lies in the west, fearing that the "Great Air Whale," whose bellowing (thunder) is often heard in that country, will pounce upon them and utterly annihilate them for such irreverence.



She-"George, just turn that seat in front of us over, and we'll have more room."



be locked."



HI. Gentleman who had been occupying seat-"No, by gosh, it ain't locked!"

A viaduct costing \$4,000,000 has recently been finished at Melbourne, Australia. The work of constructing it involved some eight or nine miles of tunneling and eleven miles of iron pipes and syphons. By this additional water source Melbourne will be able to supply a popu-

granted to private persons by Pope Leo

things said of one by heedless or ill-natured idlers were brought home to him, he would become a mere walking pincushion stuck fuil of sharp remarks If we would happy, when among good men we should open our ears; when among bad men, shut It is not worth while to hear what them. our neighbors say about our children, what

our riva's say about our business, our dress, or our affairs. We are often speculating on what is to come, whether the years shall bring life or death, prosperity or sorrow. You who trust

Him, you who are His dear children through

faith in Jesus Christ, may take this answer as regards the coming years: You are going forth into nothing but goodness. "All things work together for good to them that love God." I cannot say that you may not h

going forward into trouble, humiliation, toil, d sappointment. It may well be, But I repeat it: If you are walking at God's side you are going forward to nothing but good; great goodness is laid up for you on the simple condition of your trust in God. Take this truth as a fact, and not as a poetic faney: God has great goodness laid up for me. If the worst which I fear shall come to pass, I shall find his goodness laid up in the heart of the disaster.-[M. R. vincent, D. D.

Not to enjoy life but to employ life ought to be our aim.-[Macduff.

So long as we are full of self, we are shocked at the faults of others.

it is hard to say whether God discovers more love in preparing heavenly mansions for the soul than in preparing the soul for heavenly mansions.-[Secker.

WHAT PROHIBITION PROPOSES TO TEACH. "To crush self-reliance and personal dig-nity is to make a race of weak children, or nity is to make a race of weak children, or feeble cowards; and this is the endeavor of Prohibition," says Captain Pennick, in the Cincinnati South West. Not at all. Pro-hibition proposes to take the luxurious saloon keeper, turn him adrift on the cold world where he will have to earn an honest living or starve. We want to teach him "self-reliance," and not reliance upon poli-tical favoritism on the one hand and the weakness and vices of his fellow-men on the other. We would also teach drinking men to rely upon themselves in getting their drinks. They now rely on the public support of a vicious institution to supply them with-out effort on their part. - The Voice.

Christ, by his gospel and the Spirit's work, is now separating men in two classes. The process is going on every day in our homes, in our places of business, in the house of God. We drift apart : we withdraw to our own place and our own kind. By-and-by the difference will be clear as noonday.

Sing in fine weather! Any bird can do that. Praising God when all goes well is commonplace work. Everybody marks the nightingale above all other birds because she singeth when the other minstrels of the wood are silent and asleep; and thus doth faith praise God under the cloud. Songs in the day are from man, but God himself giveth songs in the night .- [Spurgeon.

Though there are many exceptions, the church is usually the birthplace of the Christian. In the assembly of the saints is found the atmosphere in which the tree of life most commonly blossoms, and here is the genial warmth which is most conducive to the vigerous development of the germs of eternal life. Here are the influences amid which the christian attains his highest growth and usefulness and most be utiful symmetry of character.-[Religious Herald.

People may escape the awful terrors of heil and stand before all the glories and splendors of heaven, but they must be calm about it. They must not display any emotion for fear some religious dilettante might think the excitement unhealthy. Men may go to hell with noise and tunnit, but they must make heaven in solemn dignity or misit altogether. This is the argument of the devil, and it has cost many a man his soul. If people will not repent until they are application.

## Man-of-War Boomerangs.

1

"Few people," says a naval officer? the blast caused by firing a big gun ou board of a ship. An example of its of fect was seen in some recent trials in fi ing the sixty-seven ton gun of the bat t ship Trafalgar, considered one of three or four finest vessels in there navy. The gan was pointed dis ahead, and fired with a charge of pounds of slow-burning powder all 1250-pound projectile. The blat P duced by the rush of the powder and the shot was so tremendous the plates of the forecastle were forced in the deck beams bent out of shape, 13 almost every round carried away so fragment of the projecting porties the ship, even when the training was the right or the left. It is estimit that the vessel would be reduced something very like a wreck were twell five rounds to be fired, either dire ahead or directly astern. This interie with, or renders impossible. firing w either in flight or chase, and has our naval constructors to modify plans for the projected battleship, is not deemed desirable to have ! sink from the discharge of their off guns." - New York Continent.

Rice is not indigenous to America was early introduced from Europe is supposed to be a native of India, " it is the principal food of the in tants. It thrives only in moist of wet soils, and in dry seasons the often fails and leads to famines in tries where the people depend upat grain for food.



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There are still tribes of Indians in Mexico which believe in witchcraft, and the other week a woman was killed because it was contended that she drove the sun over into the United States and filled up the space with rain.

Private audiences will be no longer XIII.



He-"It works mighty hard-it must