THE FARM AND GARDEN.

CROSSING OF CORN.

All farmers are aware that different varieties of corn will mix, as it is called, and some attention is usually paid in planting to prevent it where it would unfavorably affect a choice variety. This crossing, wherever it occurs, is caused by the fertilization of the pistils, the silk, of one variety by the pollen distributed from the tassels of another.

At the Kansas station for three seasons past careful experiments have been made assist in the performance of these repro in the artifical pollination of corp. In 1888, forty-one varieties were used; sixty s'x attempts at cross fertilization were u ade, of which thirty-nine were

successful. As a practical summary of the results, it is said that the numerous crosses of maize by artifical pollination were mostly successful, the different races, as dent, flint, soft, sweet and pop corn, with apparently equal resistance.

The effects of the crossing are in comparatively few cases (mostly sweet varictics) visible the first year. The seccud year (the second generation) shows generally ears more or less completely blended, often exactly intermediate between the two parental types; more rarely the grains of a single car are unlike each other, and each may resemble closely or remotely either parent. The product of the third year is generally true to the seed planted; by selecting diverse grains from any ear or from different years, cars are obtained with grains usually like those planted. Any desired form of a "cross" can therefore apparently be perpatimited.

In view of the above it is possible to effect desired points of improvement in varieties by crossing, and fixing or per-fecting by subsequent selection. The experiments the past season were much reduced in value by reason of serious drouth. Favorable seasons will doubtless furnish more favorable or at least more conclusive results in the efforts to improve varieties.

RATIONAL CORN CULTURE.

The necessity for frequent starring of the soil in a cornfield is paramount for itself alone. If no weed ever appeared there would still be need for frequent cultivation. A few years ago 1 left ten dilutes it. rows through a cornfield unworked, while the rest of the field was cultivated every week until the tassels appeared. The weeds in those ten rows were pulled by hand, and there were very few, for the groun I was a sod deeply plowed, and harrowed thoroughly up to the time the corn was planted. The stalks in the ten rows were more than three feet shorter than those in the rest of the field, and there was scarcely a single car that was filled out to the end. The rest of the field, which was a few square yards over two acres, yielded one hundred and ninety-eight bushels of shelled corn, estimating two bushels of cars for one of The corn was husked by the grain. bushel and measured twice, so that no ficulty are sometimes grafted, with mistake was made in the measure. The ten rows made up exactly one-fifth of an casily. scre (thirty-two rods), and gave only eleven and a half bushels of corn. Everything clse being equal, the difference, being over forty bushels to the acre, was clearly due to the absence of cultivation, the ground being baked and dry the greater part of the time. Since then I it attractive and delicious, and see how left one strip on the side of a field, measuring exactly an acre, without either cultivation or weeding, and it yielded fourteen bushels of poor corn, the rest from twelve to fifteen inches deep, and of the field yielding forty-two bushels of as much of the beet root grown beneath grain to the acre. In 1889 I had an the surface as possible. cight-acre field that yielded enough to completely fill a five-hundred-bushel It is the corn meal with the starch taken crib, equal to over thirty bushels of out of it, and consequently has a better shelled corn per acre, on a very poor old feeding rate than the cora meal itself.

may be possible, and always on the sur face, merely keeping the soil loose and mellow, and absorbert of moisture and the heat of the sun. It helps, too, very much to apply fifty pounds per scre of some active soluble fertilizer immediately after the working of the soil at intervals

through the summer, especially when the blossoms, the tassel, and the silk are about to appear, and when the grain is about to form after the impregnation of the silk. These are periods in the life of a plant when extra feeding will greatly

ductive functions upon which full ears, and sound grain, and early maturity depend .- American Agriculturist.

PARM AND GARDEN NOTES. Every rod of useless fence is a useless

fax.

The younger the weed the more easily killed

Rye makes a good pasture-better than timothy

Commercial manures are best for potatoes.

Thoroughly clean, air and whitewash your stables.

Manure well if you want a good crop of lawn grass.

Fewer acres and better culture should

be the motto. The value of manure depends on what

it is made from. Have a system of rotation in the gar-

den, as elsewhere. Begin to cultivate corn as soon as you can follow the rows.

Only the finest manure should be used on the asparagus bed.

Plowing in green crops is the cheap-est method of manuring.

The best prepared soil is the most favorable for germination. Whenever the sheep comes to the barn

give them water and food. Put in a succession of crops of green

pens; the same of green corn. Old strawberry plants seldom produce

as large berries as do young ones. "Sawdust diminishes the efficiency of stable manure"-but only so far as it

The greatest potato yield at the Michigan Station was with seed planted one inch deep.

Farm products that excel in quality and have an attractive appearance never have to hunt a market,

It would do no harm, but likely lestroy vermin and microbes, to fumigate your stable with sulphur.

Cabbages ought to be cultivated often and stimulated with fertilizers if the soil is not sufficiently manured.

Many coniferous plants are increased by cuttings on a large scale, especially retinosporas, arbor-vitaes, and the like. Cuttings of plants which root with difgood effect, upon those which root

The rhubarb plant may be increased by divisions. Professor Bailey says that each division must contain at least one bud on the crown.

Produce something out of season, make quick it will sell and how soon there will be a call for more.

The soil for beets should be plowed

Gluten meal is a very excellent feed. field that was newly broken up, and without manure, but was cultivated eight

HOUSEHOLD AFFAIRS.

A CEMENT FOR TRON.

This cement is suitable for stoves which have become cracked and it is desirable to patch up to meet the emergency. Such patching will not last long, but serves for a makeshift at the time. Beat the whites of four eggs to a stiff froth. Stir into them enough pow-dered quick lime to make a thick paste, and add iron filling dust till a heavy paste is formed. Fill in cracks, and when dry blacken them over carefully. It is best to let the stove remain several weeks before using .- New York Tribune.

COOKING POTATOES PROPERLY.

There are many ways of cooking poatoes, and old potatoes need more care in the cooking to make them nice. They should be peeled and laid in clear cold water some time before cooking-changing the water two or three times, or use ice if you have it at hand. "New potatoes" can be made from old ones. Peel the potatoes and cut rather small, into even-sized pieces, put into ice water for an hour or two; twenty minutes before you wish to serve them drain the potatoes from the ice water and throw into boiling salted water, cook quickly, drain off the water and dry the potatoes a moment or two, then put in a deep hot dish, and pour over cream sauce-a pint of sweet cream, seasoned with butter, pep-per and salt. It can be thickened if desired, but is more delicate without. Potatoes done in this way are quite equal to "new potatoes," and are usually very well liked in the spring. Another nice way to cook potatoes is to peel them and let them stand some time in ice water, thee bake in a hot oven and serve at once. The crisp brown outside is very nice .- Chicago Netes.

The fashionable givers of dinners try to outdo one another in their modes of serving ices, calling all their ingenuities to their aid, and, at times, developing some marvelous methods of serving ices and creams. Ices frozen into the shape of wax can-

ICES.

dles are a novelty, each of these having a little taper at the end, which, just before being served, is lighted, the cream candle being brought on in a china candlestick, with snuffers of candy.

sugar candy filled with ices imitating peaches, plums, etc., and flavored like the fruit.

with rose colored water ice, filled with

which were removed before the filling while at another pale, grayish chocolate ice was molded to represent a large flat oyster shell closely shut .- Detroit Free I'ress.

Strawberry Jelly-Select firm, not over-ripe berries, put them in a stone jar and stand in a kettle of cold water; cover the top, and boil slowly until the berries are soft; pour into a jelly bag, and press out all the juice. Measure, and to every pint allow a pound of sugar; put in a preserve kettle and stand over the fire. Boil the juice twenty minutes; add the sugar, stir until it dissolves; take from the fire, pour in jelly glasses and set to, cool; when firm cover and set in a cool

dark place. Cherry Jelly-Pick over ripe Murillo cherries, select the most perfect; put in a preserve kettle and boil until the cherrics are tender and will mash; strain through a jelly press, measure the juice,

TEMPERANCE.

THE ANGELS OF EVIL AND OF GOOD The Angel of Evil stoot and said-"Take, Mortal, take this cup: It will cheer your heart and clear your

bend; Take, take, and drink it up! When your feeling low, 'twill give you

tone; When weak, 'twill make you strong; will comfort you when all alone, And when the world goes wrong. You need not initialize to ville excess, But use your self-control; Yot who lightens care, sublues distress, And stays the fainting soul,"

So the Angel of Evil stood and spake, As on the cup's full brink, The red wine gleaned, and he whisperel-"Tale," O Mortail take, and drink!"

But before the tempted one could dvink, The Guardian Auge! rose, And crist- "Nay, Mortal, heware, and Unink, Nor taste the cup of wow!

"Beneath its light lies a fatal spell, Its pleasures turn to pains; And its countless viatims growing tell Of its scorehing, flory chains.

"Upon the wine when it amiles look not, Nor court the joy it brings; For sainity souls it can foully blot, And plant a thousand stings.

Abstain, and seek for the grace Divine, Which gives you strength to stand, And labor to save from treacherous wine Your home and native land?"

The Angel censed, and the listener blest The kind and warning voice; And whosever herds the wise behest, Will surely well rejoice.

For Wisdom's ways are the ways of peace

And pleasant every where; And the joys of those will never coase, Who join good work to prayer. —Rev. Dawson Burns, D.D.

REFECT OF DRINKING ON WORKMEN.

EFFECT OF DRUNKING ON WORKMEN. A big Cincinnati manufacturer thus de-scribes the effect of the drinking habit on out ien to twenty per cent. Less work than a non-drinker, and in addition it is apt to be defective and require overhauling. This is aspecially true of heavy beer drinkers. A workingman may tamper with whisky to a vorkingman may tamper with whisky to a vorking the or suggestion; but not so with beer drinkers; they become heavy, sod-of doing their work. When one workman drinks too much it affects the work of others, in the principle that 'a little leaven leavens the whole immp. The workmen of a shop are parts of a great machine, and the ina-tility of a part to perform its functions will derange the whole. The amount of the de-parts of a great machine, and the ina-ting the whole. The amount of the de-termine of parts affected. The employer ways for what he gets. If drink decreases a mether from lusines, unless he can command withchent solar help to make up the shortage of the drinkers. Arbitration of labor dif-touties would be an exceedingly easy mat-ting and long strike would be unheard of, it and long strike would be traced directly to aloon influences. to saloon influences.

TEMPERANCE NEWS AND NOTES. The alcohol habit and the sunstroke go hand in had,

Mayor Hemphill, of Atlanta, Ga., has vetoed all the beer licenses in that city.

The Indiana Grand Lodge of the Knights of Pythias has declared liquor dealers ineli-gible to membership.

The Irish Temperance League has issued a pledge card in Arabie, which it is believed is the first temperance pledge eard sent out in that have used n that language.

Waiter Besant formerly approvel of hav-ing liquor sold at the People's Palace, East London; now he says it has been proved that no one there wants it,

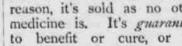
That the United States is a beer-drinking nation is evidenced by the fact that for the year ending April 20, 1801, they consumed 20,000,000 barrels of the amber fluid.

Professor Osler writes to the New York Medical Journal, that in all the large hos-pitals of Germany, cases of diseases of the heart coming directly from excessive use of beer are common.



In the train

of diseases that follow a torpid liver and impure blood, nothing can take the place of Dr. Pierce's Golden Medical Discovery. Nothing will, after you have seen what it does. It prevents and cures by removing the cause. It invigorates the liver, purifies and enriches the blood, sharpens the appetite, improves di- Lydia E. Pinkham Med. Co., Lynn, Mass, gestion, and builds up both strength and flesh, when reduced below the standard of health. For Dyspepsia, LITERARY COMPETITION ! "Liver Complaint," Scrofula,







ome perfection, much was hoped for it

as an aid in the artificial culture of

plants. Dr. Sieman's experiments indi-

cated some good results, but no attempts

have been made to apply the principle to

profitable uses. It seems to be conceded

that plants can proceed with those

changes necessary to healthy plant growth to a great degree under electric

light, though not nearly to the extent

they can under sunlight; but the open

question is, will they do this to an extent

to make its use profitable to the culti-vator.-New York Independent.

The 1890 record for British lifeboats shows a saving of 555 Hyes besides res-

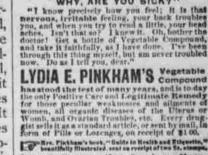
cuing twenty-seven vessels from destruc-

Denfaces Can't be Cured

tion.

Syrup of Figs is taken; it is pleasant and refreshing to the taste, and acta gently yet promptly on the Kidneys, Liver and Bowels, cleanses the system effectually, dispels coids, headaches and fevers and cures habitual constipation. Syrup of Figs is the only remedy of its kind ever produced, pleasing to the taste and acceptable to the stomach, prompt in its action and truly beneficial in its effects, prepared only from the most healthy and agreeable substances, its many excellent qualities com-

the most popular remedy known.



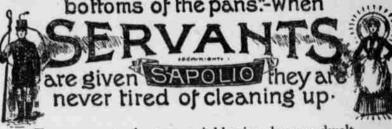
WHY, ARE YOU SICK?"

\$8000 GIVEN AWAY

THE CANADIAN AGRICULTURISTS FOURTH GREAT HALF-YEARLY







Two servants in two neighboring houses dwelt, But differently their daily labor felt;

FRUIT JELLIES.

Then there are baskets made of braided A green melon can be served filled

seeds of chocolate ice, while one of the latest ideas is a big leaf of green ice holding a handful of real strawberries. At one dinner cream was served in the hearts of real calla lilies, the centers of

times, while my half of a rented fouracre field, worked only twice, amounted to one wagon load of ears, equal to twenty bushels of grain, and this small field was much better soil than the old field.

My practice for many years has been to work the corn once a week, beginning on Monday when the weather was suita ble, and continue the working as long as a horse can get through the rows without of fine soil. This will save it even in a breaking the stalks-and this is usually until the ears begin to hang out in the rows-and the cultivation has always been on the surface. Some years ago a heavy rain washed a slope on one of my of a mouth to put it in is the rub, and fields very badly, and exposed a time net-necessitates a full knowledge of the herd work of roots for several square rods, which completely filled the soil. Several of the plants were washed loose, and could be taken up with the roots. The roots of many plants were eight feet long, spreading over nearly three rows each way, and they lay very near the surface. In places roots were abundant at a depth of two inches, and very few were as deep down as the land had been plowed. More recent examinations, unde purposely, have convinced me that this is the habit of the corn plant to send out its roots near the surface. It may be that surface manuring with fertilizers tends to such a habit of root growth, but soluble fertilizers quickly diffuse them-selves through the soil, and it may be that the desire for the sun's heat, which depends upon the variety cultivated as corn so much needs, brings these roots to the surface.

It is clear that a plant having such a superficial root growth should not be plowed, but requires only surface cultivation; for the breaking of the roots must necessarily check the growth of the plants. I had once a plain demonstra-tion of this fact. A field of Evergreen sweet corn was partly plowed, contrary to my instructions, by a willful hired man, who laughed at my shallow cultivation of the rest of the field. He plowed It deeply and ridged up the rows until 1 discovered and stopped him. The weather was hot. The corn willed at once and never grew afterward. Not one car was gathered from the plowed rows, while the rest of the field averaged over eleven thousand ears per acre, sounted for the market. To break the feeding roots of a plant is clearly to stop its feeding, and to turn all the power of growth to repair the damage and make new roots; at a time, too, when all the strength of the plants is required to form the blossom or the grain. Something has been said of the usefulness of rootpruning corn. It is equivalent to drawing a cow's teeth when she is busy turning good grass into milk and butter, and equally prevents the gathering of mutri-ment. It is practiced for this special purpose in fruit culture, for checking the growth of trees to reduce the amount of new wood, and it has the same effect upon the corn which we want to hastes. to maturity as suon as possible, and to 3300 feet without touching bottom or aid in every way in enabling it to gather encountering any obstacle. This strength food and increase its product.

should be early and often, and as late as nean sea .- St. Louis Republic,

important figure on the farm in the near future. It can be made as profitable as the apple tree wherever it will thrive. Leaf mold is a natural fertilizer for all trees and shrubs, and wood flowers, or any plants that like a shaded place. It is also very useful as an addition to potting soil.

Freshly laid sod is much more likely o succeed if covered with about an inch dry time, when otherwise it would fail to get a good start.

It is true, much of the breed goes in at the mouth, but to know the best kind book and score card.

Paris considers milk pure when it contains one pound of butter and four ounces of solids per quart, says and English journal, but such proportions seem irregular to dairymen here.

The advantage of hatching guineas inder common hens is, that properly nanaged, they are usually more gentle than if the guinea hens are allowed to hatch them out and raise them.

While old hens usually lay larger eggs than pullets the shape of the egg has little or acthing to do with the life germ, and if the broad end is smooth and the egg is properly fertilized it will hatch. The duration of a raspberry plantation well as upon the nature of the soil and care given the plants. Ten to fourteen years is about the average under good culture.

A good time to apply fertilizers to asparagus is just when we cease to cut the shoots. This causes a luxuriant growth of the plants during summer and autumn and this, in turn, gives thick fat shoots the next season.

Largest Farm in the World.

There is a farm in the southwest of Louisiana measuring 100 miles north and south and twenty-five miles east and west. The 1,500,000 acres of which it is made up were purchased seven years ago from the State of Louisiana and from the United States Government by a syndicate of northern capitalists, by which it is now farmed. This immense tract is now divided into convenient pasture stations or ranches, the fencing alone having cost \$50,000. All the cultivating, ditching, etc., are done by steam power, a tract of about half a mile wide being taken and an engine placed on each side. The company has three steamboats upon the 300 miles of navigable waters which traverse their estate, and also possesses a ship yard, a bank and rice mills .- Commercial Advertiser.

A Bottomless Spring.

The great seltzer spring at Samtoga, N. Y., has been sounded to a depth of ens the belief that this great Northern

For this reason the cultivation of coru summer resort is built over a subterra-

put on to boil for half an hour; add a pound of sugar to every pint of juice; cook until it will jelly: take from the fire, pour in glasses, cover and set aside. Gooseberry Jelly-Wash a gallon of gooseberries, and put in a kettle with just enough water to cover; boil for ten ninutes, wash and press juice through a jelly bag. Return to the kettle; add a pound of sugar to every pint of juice; boil rapidly for fifteen minutes; take from the fire, fill glasses and set to cool.

Raspberry Jelly-Crush the berries; boil, strain and measure; to every pint of juice allow a pound of sugar; cook until it jellies; take from the fire, fill glasses and set to cool.

Currant Jelly-Strain ripe currants: scald; when cold mash and strain, allow a pint of juice and three-quarters of a pound of sugar together. Boil the juice twenty minutes; add the sugar, let dissolve; cook five minutes, take from the pour in glasses, seal and set in a cool, dark place.

Currant Jelly-Pick ripe currants from the stem, and put them in a stone jar; set the jar in a kettle of boiling water and boil until soft. Pour in a flannel jellybag, and let drip without squeezing. Measure, and to every six pints of juice allow four pounds of sugar. Let boil twenty minutes; keep well skimmed. Put in glasses, and set in the sun until tirm.

Currant Jelly-Without cooking squeeze the juice from ripe currants, and strain it through a jellybag; to every pint of juice allow one pound of sugar mix well until the sugar is dissolved. then pour in small glass jars; scal, and set in the sun two or three days.

Green Grape Jelly-Stem well grown green grapes, put in a porcelain kettle; cover with cold water, and boil until the grapes are tender; drain through a flan-nel jellybag, but do not squeeze. To every pint of juice allow one pound of sugar. Put in a porcelain kettle and bring to a boil; stir until the sugar dissolves; skim, and boil until it jellies, take from the fire, fill glasses and set aside until firm, and set in a cool, dark place .- Mrs. Parker, in Courser-Journal.

Protection for Naval Gunners.

A new system of protection for gunners in exposed places on mou-of-war in action is to be adopted by the navy department. Experiments are now being made looking to the attainment of that object, and the best result obtained thus far is from a wire webbing made of intertwining spirals remarkably flexible It resembles somewhat the and strong. old-fashioned chain armor of the crusaders' time, and curtains of this material will be used to protect gunners behind shields from fragments of exploding shells. The resisting quality of this network will be equal, it is confidently believed, to that of a solid plate of steel an inch thick, - Chicago Timee.

Next year all students in St. Peters burg, Russia, are to have their headmensured.

Mrs. Chapin, of South Carolina, writes that she has had a very prosperous cam-paign in Georgia and Alabama. At La Grange she ploiged 105 hadies to total absti-uence and to use their influence to prevent social drinking. At Macon College fire added thirty-five to the "Ys" and organized a union of sixty in the suburbs. During the three weeks' trip she took over 500 pledges.

A PHYSIOLOGICAL VIEW OF INTETPREANCE. It is claimed by high authority, says the writer of an annual raport of a home for inebriates, that physiology has in no way settled the, qrestion between abstinence versus moderation, in regard to the use of alcohol. But it is a mistake to suppose that nothing is settled on physiological ground about the use of intoxicating liquors. Within the last few years many inquiries, researches and experiments have been made, with all the contrivances of modern acience, more in-tricate, perhaps, and more important, cer-tainly, in their bearings upon this inquiry than the world has seen before, and the re-sults, which are already incontestable, aro not inconsiderable, and I believe it must be admitted that they give to the temperanes argument a sizength, on physiological ground, which it has never been able to uso before. A PHYSIOLOGICAL VIEW OF INT TPERANCE.

I have found it to be true, from my own quantities of alcoho', or what is deemed a small quantity by the user, will degenerate the nerve and muscular tissues by hardening them, and interfere with the functions, dethe nerve and muscular lissues by hardening them, and interfere with the functions, de-veloping disease, or rendering accidental or rymotic diseases less likely to be cursel. O, course, with such interference with nerve structure the mental ummifestations must be changed. The effect of this agent is always to strike at the higher faculties of the mind. It batters the keen edge of high sensibility, and the man is shorn of those high qualities which make him sensible to the duties ho owes to his family, his country and his God. Science has also revealed to us another fact bearing upon this subject. If science is still in doubt in the matter of total abati-nence, it is clear and positive in its affirma-tion that, beyond a certain degree—a degree science has of her years been steadily show ing to be less and less—what we call alco-holic stimulants do not stimulate at all, but they paralyze the sizucture in which they work. The liquor which has into inated tho man has simply paralyzed him, and every stop of intoxication is not merely a step towards, but a stage of what physiologists call devialization of the nervous system. In the constant use, in its secondary action, pro-duces the condition I have before described. — maralyzes in its various stage. — They mention these facts to show that we have to deal with a subtle disease, deep down in the human structure, and with a condi-tion which, in spite of law, will continue to reproduce and perpetate itself.

What Is

It For?

no worse than the big-

ger, older, balder-head-ed boys. Life is an interrogation point. "What is it for?" we con-

tinually cry from the cradle to the

grave. So with this little introduc-

tory sermon we turn and ask: "What

is AUGUST FLOWER FOR ?" As easily

answered as asked : It is for Dys-

pepsia. It is a special remedy for

the Stomach and Liver. Nothing

We believe August Flower cures

Dyspepsia. We know it will. We

have reasons for knowing it. Twenty

years ago it started in a small country

town. To-day it has an honored

place in every city and country store, possesses one of the largest manu-

facturing plants in the country and

sells everywhere. Why is this? The

G. G. GREEN Sole Man'fr. Woodbury, N.J.

PENSION JOHN W. MORIHIS, Buccessfully Prosecutes Cialms, Late Frincipal Casaliser Of B. Fernálm Bursan Systic list war, léadjuidesting claims, atty succe

cures Dyspepsia.

more than this; but this brimful.

A Good Appetite

There is nothing for which we recommend Hoos's Baraparilla with granter confidence than for loss of appetite, indigestion, sick headachs and other trou-bles of dyspeptic nature. In the most natural way this modicine gently tones the stomach, and makes one feel 'weal hungry."

Ladies in Delicate Health, or very dainty and particular it meals, after taking Hood's Saras-parilla a few days, find themselves longing for and eating the planest food with unexpected rollsh and satisfaction. Try IL.

Hood's Sarsaparilla fold by all druggists. \$1; six for \$4. Propared only by C. I. HOOD & CO., Lowell, Mass.

100 Doses One Dollar

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MASS OF KNOWLED ay intelligent person to open the being to end it is "NE CONDENSED ag. It covers almost the entire field of RINTY CENTS in BOOK PUBLISHING HOUSE, 134 Leonard St. New York City.



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