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"Agriculture not only gives Riches to a Nation, but the only Riches she can call her own."

New Series.

TORONTO, OCTOBER, 1846.

Vol. II. No 10

The Potato Disease.

lent in the Potato plant, is really caused by an amount of alkaline salts, are seldom, if ever, inatmospheric agent, and 'not by the depredations jured by the insect we have described; and to of a small insect, as we stated in the September reiterate the opinion that has been so frequently number, then the agriculturist will have good advanced in this Journal in every instance where teason to apprehend that no efforts of his could the system can be practiced, potatoes should be possibly prevent this important edible vegetable planted upon new land, where a large share of from disease and premature decay. But we wood ashes remain on the ground undissolved. fatter ourselves that the clarming fungus produc- Where this system canno be practiced, ashes, tion, is nothing more or less than the busy work lime, salt, and soot should be collected and sown of at small block fly, such as described in the ar- broad-cast, at the rate of about two bushels o ticle previously alluded to, and may be prevented each per acre, upon the plants, in the early par. by employing proper precautionary means at the of July, or when the leaves begin to show sympperiod when the first symptoms of attack are toms of decay. Other applications may be made, discovered. About the third week in June last, which would produce the same favorable result; s green flat bug commenced puncturing the but the substances recommended are within the leaves of a number of fields we examined, and reach of all, and may be employed without costfrom what we could judge of its habits, we ing more than a few shillings per acre. suppose it to be the female. It appears to be We are quite certain that but few crops will temarkably lazy in its habits, and invariably de- pay better than the potato, and notwithstanding survys every leaf that it attacks. In the course, the great alarm that is made about the disease, of three weeks, after its first oppearance, myriads, it may be caltivated upon an extensive scale in of small black insects appear on the leaves and Canada, with a degree of profit that few farmers stake of the plants, and immediately they become are aware of. Supposing out speculative notions discolored, and show indubitable evidence of dis- about destroying the fiy, should prove a failure race. There can be no question but that the when put to a practical test, still the business of falling off of the leaves, and the decay of the potato-growing may be carned on with a cerstalks, are occasioned by the insect described ; tainty of the grower receiving higher remunerat-

the leaf, is the true cause: of the disease of the tuber. Potatoes grown upo: land recently clear-If the disease which has now become so preva- ed from the forest, if charged with a liberal

but it 'remains to be seen whether the decay of ing profits. The business of manufacturing

in Canada, and probably few operations would a cottager's garden, a farmer's field, or any other nay better in proportion to the invested capital and skill that would have to be employed. Upon a careful calculation, we find, that the starch at wholesale prices, from the produce of 250 bushels of Irish cup potatoes, amounts to the very respectable sum of £35, one half of which should go to the grower, and the other half to the manufacturer. This is not idle speculation, but may be practiced with a degree of success that would equal, if not exceed, our statement. An acre of potatoes may be properly cultivated for the same expense that would be required to summer-fallow the ground ; and the profits of a single crop will pay for the ground upon which it is cultivated. This being the case, we have no idea of abandoning the growth of so important 'a crop, especiall since it has become such a leading article of diet among all classes of the community. From what has been here hastily submitted for the consideration of such of our readers as are interested in this crop, we trust that a combination of enterorising farmers will put the experiment of manufacturing starch from the potato to the test. This business has been long practiced among the hardy farmers of the State of Maine, and the same has been done in some of the Western States. It is to be hoped that the Canadiana will in future look more to the bright, and less to the dark side of the picture. There can be no question but that, in very many respects, the people of Canada are highly favored, but we are wanting in one main essential, to insure success to our operations, viz :- enterprise. The products of the country may be doubled with very little effort; and almost every branch of business may be carried on in a prosperous and flourishing manner; but in order to do this, more skill and energy will have to be brought into requisition, and the products and capital of the country will have to be employed very differently from what is the case at present.

The following, from the Gardener's Chronicle. fully corroborates our views in relation to the potato disease ;----

The Potato Disease .-- I have watched this peculiar visitation with much interest now for more than a twelvemonth, and although its reappenrance has been doubted by some, it now begins to be generally admitted to have actually taken place, and to be carrying destruction into every

starch from the potato has never been engaged in quarter. I have not seen a piece of Potatoes has place, but what is greviously affected with what is, and has been " termed the disease," viz. ulceration, gengrene, putridity, mildew, and every form of mischief, and the effluvium is very disagreeable in every quarter.

> I have the most abundant crops of Poratoes from autumn-planted sets, but the haulm and foliage of none are free from the pest, or ever have been, though to a casual observer they appeared all that could be wished, luxuriant and healthy. I had a beautiful bed of seedlings, and a quantity planted out in due timeare growing away as luxuriantly as from a good sized tuber: they are all diseased, and have long been so, although the seed was brought from Ireland, and advertised as having been saved from plants free from disease. They were sown by me on a healthy, sweet, well prepared piece of ground, and planted, too, where a Potato to my own knowledge had not been grown for these last six seasons-if ever previously. I have observed that all those manured with charrings, soot, and lime, are the last to be attacked in the stalks and foliage; and I have not as yet found a decayed or affected tuber to outward appearance amongst those manured with the above materials, but I will look sharply after them on taking up the crop, which will very soon now take place, as I have long since burnt up all the stalk and foliage. I shall, as I did last year, dress all the Potatoes as they are taken up with the above materials; indeed I have all the early crops already done; but then it is of but little use unless my neighbours also pat an effectual remedy into practice.

> The real cause of all this distruction amongst the Potato crops is a very small insect of a light yellow straw colour, with a small pointed head with horns, and it has six legs. This sppears to me to be the female, the male is something larger, of a darker colour, having wings and four golden coloured strips on each side of its body; these insects are remarkably active in their movements, puncturing the ribs and other parts of the under sides of the folinge of the Potatoes, where they may easily be discovered with, or by the spplication, of a good glass; and if the stalks and green leaves are placed in a good position in respect to the reflection of a good elear light, &c, both the insect, their wood and bunches of eggs may readily be discovered on their stems, stalla

The British American Cutivator

blage, or tubers, that are to all appearance to a cisual observer healthy and unaffected ; gangrene, patridity, and mildew take place, according to amospheric and other causes, very faickly after those destructives have made punctures, which they do astonishingly quick, proceeding on to sore healthy parts. This will be clearly visible with a good microscope.

This conclusion is founded on long and close observation, I collect foliage and stalks from the the must healthy plants, and if the above described insect is to be discovered on any part, the crop will very early show symptoms of disease; the fill grown insect may be observed with the naked eye, although its shape and timbs cannot be seen. By taking a handful of Potato-stalks and leaves, ind placing them in a vessel of water, and covering the whole with a bell-glass the whole progress of both insect and disease will very readily and easily be discovered by a watchful observer. This morning I was looking through my microscope at the industry of two I had enclosed on a Potato-leaf. Their activity in making puncares is asionishing; they seem to stay a short ine to suck out the juice, as one of them made fre punctures, and the other two, in less than a minute and a halfs all of which were clearly ebservable, some of the Potato foliage I have .en thus punctured on the underside, as quickly as a yillage green would be with a drove of pigs without rings in their snouts, and has a somewhat smilar appearance in one stage. It is of little sulity to search for the offender, or cause of the Where it is already visible to a casual disease. observer, in the shape biotchings, gangrene, patridity, mildew, &c., the real cause will not then be found. The real offenders must be searched for on the most healthy parts, and if they tre there to be found, the grop is sure to be considerably injured, if not a total failure. 1 dis. covered the very insect above discribed last year, but I could not imagine it to be the cause of the wil; but its again making its appearance this year so early in the hot-houses, pits, and frames, hooped beds, borders, quarters, and every field nd garden, to have a very strong suspicion of him, and that this is the real cause of all the muschief lam fully satisfied. Where soot-water and charcoal-dust is applied, it either kills or drives them way; but as to Tobacco-smoke, it dose not sem to take any more effect of this insect than twould on an old Chelsea pensioner. Whether wouthless variety of grain.

it is a small locust or thrips I cannot buy ; but as to its ravages, there may yet be bobea that they may be, stopped, and that this useful vegetable will not be wholly lost to the country. Atmospheric changes and variations of seasons have an astonishing effect on retarding or entirely stopped the ravages of insects .-- Gar. Cron.

WILD GOOSE WREAT .- This variety of wheat has lately been favourably noticed by our friend. Mr. Evan's, in his "Canadian Agriculturat Journal," which article has been subsequently copied in nearly every newspaper in the colony. It so happens that we have a long acquaintance with the variety of wheat in question, if wheat it can properly be called; and as long ago as the summer of 1830, we saw growing in the garden of a farmer in the southern division of Whitchurch, a small quantity, the seed of which was said to have been found in the crop of a wild guose, shot by a farmer's son, in that neighbourhood. This grain has been a source of pretty extensive speculation, not so much, however, with a view to ascertain its origin and intrinsic merit as a bread-producing plant, but solely with a view of gulling the creduious out of their money, without giving them even a shadow of value. Wild-goose wheat has been long known among the farmers of the United States, and enormous prices have been paid for a few grains; and, indeed, the mania at one time became so general, that the term " Wild-goose speculation,' derived its origin from this source. For all useful practical purposes this grain is nearly worthless : it might possibly afford a small per centage of aicohol, but even for this purpose it would scarcely find a sale in the Canadian markets.

The grower of this wnest, by whom it was sold to the farmers in the neighbourhood of Montreal, is well known to us, and if we remember correctly, we cautioned him against its introduction among the Canadian farmers. We saw a repeatedly, while growing on his farm, and tous some pains to convince him that it was precisely the same grain so long unfavourably known by the appellation he gave it. If he had acted upon that advice, this lengthy notice would have been uncalled for, but duty to the farmers of Canada, whose true interests we profess to advocate, forbade silence when there could be no doubt but that an attempt is about be zg de to scatter, as it were broadcast through the land, an entirely

, Galtivation of Granberries.

The following practical hints on the subject of the Cultivation of the Cranberry is taken from our able and highly talented cotemporary, the This fruit is indigenous to Ca-Maine Farmer nada, and might be made a very profitable crop. The soil best adapted to the cranberry plant is that which is generally found along the borders of lakes and rivers, and which is generally understood to be too wet for profitable cultivation. They are grown extensively in the Eastern States, and, indeed, have become an important item of exportation, especially in Massachusetts. The demand for this article is constantly on the increase; and when it becomes known that a certain supply can be relied upon, there is every reason to believe, that a very profitable trade might be carried on with this entirely new agricultural article, in this province.

First. Select a situation for your cranberry field on a clay soil, on such as is not hable to bake, or on a dark loam soil, or on any moist soil where there is a mixture of sand. Most of our reclaimed lands, such as can be made moderately dry, are well adapted to grow the cranberry In fact, most soils that are natural to grow the potato are suitable for the cranberry ; yet the first mentioned soils should be preferred. I think there are portions of most of the farms situated in the Middle States and their vicinity that are well adapted to grow the cranbeiry ; and I should propose to all desirous of commencing the business, to put their plants on different parts of their soil, and by so doing the better soils may be ascert ined. As far as I have observed, there are three woollen, cotton, and flax goods, on which the varieties of the crahberry, viz, the barberry, the profits are highly remumenting, and the demtr cherry, and the belt. I have never known any constantly on the increase ; but in reply to E variety of the berry that would naturalize to dry | statement, it may be justly asserted, that by u soil except the bell cranberry. This species recklessness of the importing merchants, forei grows much in the form of an egg. When in confidence is nearly destroyed, and the only far the wild state, it is included to grow on the bor-{cessial course to be adopted, to obtain substa ders of cranberry bogs, spreading its way to up- tial relief, is, to retrench in every possible man land soil. This species is much larger than the | ner, and at the same time promote home indust others, in its wild state. Persons engaging in the in every instance where it is directed in a channe cuttivation of the article, should commence with that is calculated to benefit the country. The the last mentioned species; and by commencing (important subject is so abundantly prolific, the with those that have been cultivated and natur- (we apprehend the readers of the Cultivator mu alized to a dry soil, they will much sooner ac- consider us tedious ; but to show them what h complish their object, and with much less 110a- been done by their American neighbors, weak ble and expense, as the plants multiply and in | copy the following from the Farmer & Mechanic crease abunuantly. Persons commencing with one or two thousand will be able to obtain plants' 5 ght years ago, it contained scarcely one he

of their own raising sufficient to transplant acres in two or three years.

Second. Prepare your soil the same as for sowing grain, by plowing, harrowing, and mak. ing your soil even. Then mark it out in duits 18 or 20 inches apart, putting the plants in the drills, five or six inches apart. Hoe them slight. ly at first, till the roots become clinched, and afterwards no other cultivation is needed. The plants may be expected to run together and core the whole soil in two or three years. The cran. berry grown by cultivation usually yields from 15 to 400 bushels per acre ; its fruit is two or three times as large as the wild fruit, and of a beautifi flavor; it readily keeps sound from the harve time of it to the time of Larvest again. The fruit is generally gathered in September. It, gathered with wireteeth rakes, made for the purpose. One man will generally gather from thinto forty bushels per day, with the aid of a boy n pick up the scattering fruit.

Manufactures.

There is scarcely two opinions at present, E this country, on the importance of encourage domestic manufacturing enterprises, as a mear of giving a permanent and profitable market & its surplus agricultural produce, and as a certa antidote for the almost unparalleled commerca distress that is so generally felt at this particul crisis; in the British American Provinces. It. atgued by some, that the Colonists have not so ficient confidence in themselves, to engage exter sively in manufacturing even the heavy fabrics. Manchester is the only city in New Hampshin

cloul manufacturing establishments, and where is by girls, and 25 by boys-'tis said the girls keep done the business of the surrounding country, was their room in the best ofder, do the best work, then but one dwelling 1. 1. ι.

souls—it is situated on the East side of the Mer-best selected New Orleans cotton, (worth about rimack river, about mid-way between Concord 10 cents in New Orleans,) per year. You must and Nashua. There are threa incorporated cum-ibe aware that only about two-thirds or threepattices, or corporations, viz ;- the Stark, Amoa-i quarters of each fleece is fit for Mouslin de Laines. keage and Manchester.

has one mill 500 feet by 50, and five stories high, with 23,000 spindles, 660 looms, and gives employment to 750 females, and 200 males, and a new mill now receiving her machinery, that will contain 20,000 spindles, 550 looms, and require about 900 huids.

The Amoskeag Corporation has three mills in operation, called the Amoskeag new mills. No. 3 mill is 440 feet by 60, 4 stories, besides attic and basement-has 120 cards, 30 speeders, 160 spinning frames, of 128 spindles each, (making 20,480 spindles,) and 590 looms, 500 of which are in one room, with one girl to every three looms-a rich speciacle, I assure you. The 90 tooms are for weaving cotton flannel. This company now employ 1400 mates and females, and use in the three mills over 12,000 bales of cotton, and make from 14,000,000 to 15,000,000 yards, No. 14 goods, per year. This company is now laying the foundation for a new mill 350 feet by 62, and 6 stones high, to contain 20,000 spindles. The ground is surveyed for two more of equal size, but will be delayed until the effect of the new tariff is ascertained.

Upon this corporation, and belonging, as I understand, to the land and water power company, is a machine shop and Foundry, that gives employment to some 300 men, and boys in the manufacture of most kinds of cotton and woollen nsachinery.

Noxt below is the Manchester Corporation, with one mill for the manufacture of Mouslin de Laines-of sufficient size for 20,000 spindles for cetton, and 19,000 for worsted-10,000 for cotton and 13,000 for worsted are all that is yet in -and the company have countermanded the order; for the balance of their machinery for the The Ecotch improved male is used in this mill for wear loose shoes.

and quite as much. This mill, in full operation, The population of Manchester is about 12,000 would use 300,000 fleeces of wool and 2000 bales

The printing establishment of this Company is The Stark (which was commenced in 1838.) 276 by 50 feet, and 5 stories high, and will print 1030 pieces per day.

> This Company also intend to erect a new mill for making fine print goods, which would require 5,000 bales best cotton per year to supply it, but will delay for the present.

> As a sample of what these large corporations are obliged to expend in advance to any profit, I will say that this company paid out in money for American labor and machinery, S800,000, and for foreign machinery, such as was not made in this country, Mouslin de Laine printing machinery,) about \$50,000.

> Besides the loregoing, there is much of interest that might be said of this city of the Granite State, but I have sput my yarn quite too long already, and will only remind you that there is two steam saw and planing mills, one mill for the manufacture of flour, and one for lumber of any variety, and one or two for sash and blinds, &c. P. S. Below the Mouslin de Laine mill the canal is being extended 1200 feet, which affords a splendid site for a "few more (mills) of the same sort."

> At Amoskeag, is the old Amoskeng Ticking Mill, with 4000 spindles, 132 looms, and employing 200 hands, in the manufacture of a very superior ticking, well known to the mercantile community,

> At this place, in the shop of W. P. Newell, & Co, I saw the splendid cracker cutting machine, mentioned in my last, which does much credit to the foreman of the shop, Mr. Baldwin, to whom it is indebted for several valuable improvements.

w. . Manchester, N. H., August 20th, 1846.

To Cure Corns .- Scrape the corn so as to present, fearing they might not be able to manu- nearly cruse it to bleed; apply a salve composed facture Mouslin de Laines to compete with im-lof calomel and lard; renew the application three portations under the new law,)-and 1000 looms, or four times a week; keep the feet clean, and

Provincial Agricultural Association.

Our readers will observe, that the first Provincial Show will be held in Toronto, on the 21st and 22d inst. The arrangements may not be as complete as would have been the case had more time been given the Committee of Management, but at all events a commencement has been made , and us the Association will be in future governed by a Board of Agriculture, there can be no question, but that its government and management will favorably compare with that of any similar Association in being. It must be borne in mind, that the collective wisdom of Western Canada will be semi-annually concentrated in the Board of Agriculture, and that this Board will have the entire controul of the Agricultural Associationthe publication of its proceedings-the Model Farm-the Agricultural Museum-and of the vatious other interests which will legitimately come under its management. In all probability a meeting of the Board will take place before the close of navigation this autumn, and then, and not till then, will the public be able to judge correctly of the benefits which will accrue to the country through its powerful agency.

Preparations are being made on a grand scale, for the Exhibition, and it is confidently expected that the competition for the prizes, and attendance of visitors, will be equal to the first efforts of similar Associations in Great Britain and other countries where they have been introduced. The citizens of Toronto appear quite determined to acquit themselves with credit on the occasio and we doubt not but all who visit the Show will return home strongly impressed with the important influence that each mammoch exhibitions will have upon the productive interests of the country. It might not be out of place to mention, that any person in Western Canada may compete for one or all of the prizes, by paying to the Treasurer the small subscription of fice shillings.

This might have been done in time for the Octor ber number, had not urgent business on the farm prevented us from doing so; however, we shall endeavour to prepare it previous to our next issue.

AGRICULTURAL WAREHOUSE .- From the notice of this proposed establishment, given in our last, our readers would be led to expect that it would be opened by the 1st inst., but owing to the active part we are obliged to take in making preparations for the Provincial Agricultural Show, it will be the lapse of some weeks before the Warehouse can be properly opened, or orders for machinery at all satisfactorily attended to.

A number of inquiries respecting the potatodigging machine, separators, and other improved machinery, have come to hand, but owing to the great distance we have been residing from Toronto, it has been quite impracticable to attend to them. The machine for digging potatoes has been tested by the editor, and it is with regret he has to state, that it has not equalled his expectations.

Extraordinary fine Orop of Peaches.

It has long been our opinion that the Canadian market might be fully and very profitably supplied with a superior quality of peaches, being the produce of this country, provided the proper steps were taken to secure this desirable object. The peach may be grown in open culture in the southern portions of the Western, London, Talbor, Niagara, and Gore Districts, and in those sections where it is found a profitable crop, pains should be taken to introduce and cultivate the best varieties, and such as are peculiarly hardy and adapted to the climate of the ountry. Dried peaches cannot be had in Canada without paying two or three prices for them; but if a few enterprising cultivators would engage in the business of growing this fruit extensively in some location

in Canada suited for the enterprise, we see no NEW YORK AGRICULTURAL SHOW .- Agreea+ reason why this fruit, could not be had in any debly to the announcement to our readers, we visited sired quantity, both in a green and dried state, the Auburn Exhibition, and while there saw at prices that would not seem exorbitantly high, much to admire. Indeed the improvements made and at the same time liberally remunerate the during the past twelve months have been so great. growers and dealers in the article. To show especially in some departments of Agricultural what has been done elsewhere in this line, we Machinery, that we deem it a duty we owe our would mention, that in the small state of Delanumerous readers, to publish a report of the ex-lware, a single orchordist, has, at the present hibition in the November number of our journal I period, upwards of 50° acres of a peach orehard.

294'

should be successful, it must be conducted with a since, when the farm was in his possession. lideral amount of capital and skill. Judging from the manner in which matters of this kind has cess of two gentlemen farmers of the Home it gives remarkable activity. District. Some scores of instances of a similar even farther' north than Toronio, is that of sum remaining in the soil, on a renewed applica-Franklin Jackes, Esq., Yonge Street, proved cultivated variety; and that our feaders small quantitles, by frequent applications, are may judge correctly of their very superior quality, much the best, notwithstanding the excess, if apwe would mention a few facts that came directly plied too profusely, or beyond what the substanweighed ten ounces, and measured in circum-Istate of composition .- Am. Ag. ference eleven inches, and quite a number of Rub Chilblains with a mixture of seven parts .

from which he sends some thousands of baskets cumference. A portion of this fruit was sold to of fruit to the Atlantic cities, and obtains the very Mrs. Duntop, of this city, at the rate of five dollars highest price in the market. A similar enter per bushel, which was retailed again at from prise might be engaged in slong the north shure 29. 6d. to 35. per dozen, and found a ready of Lake Eric, where the soil and climate are pe- sale at these prices. It is due to the enterprising culiarly favourable for this delicate fruit, with a late proprietor of Mr. Jackes's estate, Jas. Hervey reasonable prospect of its turning out a lucrative Price, Esq., M.P.P., to mention that these trees business; but in order that such an undertaking were planted by him some tour or five years

Application of Gypsum or Plaster of Paris .--been heretofore managed in Canada, it is scarcely Ground plaster, applied as a fertilizer, is so well reasonable to hope that persons can be found who known, and its properties and uses so well estabwould be willing to undertake to supply the home fished, that it is presumed that most intelligent farmarket with an article of home produce when a mers are perfectly acquainted with everything similar article could be quite us profitably im- concerning it. It is extensively used, and is very ported from the neighbouring States. Every advantageous to clover, beans, peas, turnips, cabthing, as usual, we suppose, will have to be done bages, &c.; but it does not appear to answer so by an isolated effort, and that, too, upon a small, well on natural meadows, for grain crops, nor on scale ; but, nevertheless, it does not follow that wet, or very poor lands, containing but little vegeeven by this mode of management, the country table matter, nor is thought to be of much use in could not be made to produce this and nearly all places approximate to the sea. It is extensively the luxuries of life we require, of as good a de- used in composts in barn-yards and stables, and scription, and which might be afforded at as cheap in neutralizing decayed or putrescent substances, a rate as can be supplied from other countries. in vaults, urine tanks, &c.; and is advantage-As an evidence of what may be done in the cul- ously employed with green manures, and as a tivation of the peach, we would mention the suc- top-dressing of rotted dung or compost, to which

The quantity of gypsum used per acre varies description might be given, but as the quality of from half a bushel to five bushels, depending upon the fruit under notice was of such a superior de-like quantum of substances in the ground on which scription, we consider it due to the parties who the component parts of the gypsum operate, or who grew them, to instance them in particular; are by them operated upon. In proportion as Alexander Mackechnie, Esq., Richmond Hill, these are scarce or abundant, the effects are pro-Yonge Street, has two seedling peach trees in duced in a greater or less degree. And when his garden, which grew the present season up- they are exhausted, or where they do not exist, wards of one bushel of excellent fruit, and which no quantity whatever will produce any agriculwould, in point of size and flavour, favourably jural benefit. If a greater quantity be used, than compare with the best fruit of this kind sold in its required to exhaust the subjects of its operation, the Toronto market. The other case we would the excess will remain inert and inactive until mention, to prove that peaches may be grown new subjects call forth its powers. Still the gyp-Mr. tion of dung, animal, or vegetable matter, will Jackes also had two trees, from which he gath-loperate, but less powerfully, although it may have ered five bushels of fruit. They were of an im- remained in the ground for years. Therefore, under our notice. One of the largest sized ces in the earth require, will remain in its originat

others measured from nine to ten inches in cir. water and one part muriatic acid, to remove them.

Hints for Young Men.

It is well remarked by an intelligent author of our day, that " a young man, be his profession what it will, whether he be a merchant, manufacturer, lawyer, physician, chemist, architect, soldier, farmer, mechanic, or artisan, should be profoundly impressed with these principles: 'I will not linger,' he should say to himself, ' In barren and disgraceful mediocrity: I will strive to find sufficient resources in my own genius, aided by observation and study, or in persevering and active industry, in firm resolution, in constant meditation, seconded by the intelligence and the examples which have preceded or which surround me, to deserve to be pointed out as a model, to raise myself above the obscure and insignificent multitude, to act a distinguished part, to be happy, by making myself.' The necessary consequence then is, that he requires fortune and celebrity by means of the immense power of continuity of action, and by the determination to attain them .- Such a person does not vegetate on the earth-he lives, and is worthy of living."

" Let it be your unceasing aim," says another writer, "to learn what you can from everybody, but to think and act for yourselt." It is said that Sir Walter Scott never met with any man, let his calling be what it might, even the most stupid fellow that ever rubbed down a horse, from whom he could not, by a few moment's conversation. learn something which did not before know, and which was valuable to him. No man ever became great by mere imitation. You must have a character of your own, and rules by which that character is regulated. It has been said of Franklin, that he was a philosopher because in his childhood he formed those rules which regulated his conduct even in old age. Whatever you do, do it well; do it methodically, yet do not make yourself the slave of method.

A certain well-regulated habit of looking beyond our immediate situations is justly considered the parent of all laudable enterprises. This is that noble ambition, which cooly regarding the indistinct expanse of the future, traces out a road of consistent well-doing.

less way, but he has a compass to guide him to talked of going at a greater rate than ten miles

the haven of prosperity and fame. The ope yields to every struggle with the storm, he is tossed about without pity or succour, or wrecked upon the quicksands which he has not learnt to shun ; the other, however harassed or retarded, however. borne down by the current of unavoidable necessity, overcomes the dangers and difficulties of his course, and obtains the prize for which he has contended ; he has exclaimed with Milton.

"I argue not

Against Heaven's hand or will; nor hate one jot Of heart or hope; but still bear up, and steer Right onwards."

Mr .George Stephenson, the eminent engineer. at a recent entertainment at Newcastle, gave the following account of himself :-- " The first locomotive that I made was at Killingworth colliery, and with Lord Ravensworth's money. Yes! Lord Ravensworth & Co. were the first parties that would intrust me with money to make a locomotive engine. That engine was made 32 years ago, and we called it 'My Lord.' I said to my friends that there was no limit to the speed of such an engine, provided the works could be made to stand. In this respect great perfection has been reached, and in consequence a very high velocity has been attained. In what has been done under my management, the merit is only in my own: I have been most ably seconded and assisted by my son. In the earlier period of my carreer, and when he was a boy, I saw how deficient I was in education, and made up my mind, that he should not labor under the same defect. but that he would put him to a good school, and give him a liberal training. I was, however, a poor man, and how do you think I managed? I betook myself to mending my neighbors' clocks and watches at night, after my daily labor was done; and thus I procured the means of educating my son. He became my assistant and companion. He got an appointment as under-reviewer, and at nights we worked together at our engineering. I got leave to go to Killingworth to lay down a railway at Hetton, and next to Darlington; and after that I went Liverpool, to plan a line to Manchester. I there pledged myself to attain a speed of 10 miles an hour. I said The weak man casts his eye across the sea I had no doubt the locomotive might be made to of time, and, viewing no furrowed path, commits go much faster, but we had better be moderate his vessel at random to the waves: the prudent at the beginning. The directors said I was quite and keen-slighted, looks out upon the same track- right ; for if, when they went to Parliament, 1 sa hour, I would put a cross on the concern. was not an easy task for me to keep the engine down to ten miles an hour, but it must be done, and I did my beat. I had to place rivself in that most unpleasant of all positions-the withess-box of a Parliamentary committee. I was not long in it, I assure you, before I began to wish for a hole to creep out at. I could not find words to not to be put down. Assistance gradually in-ibetter able to improve his future conduct : creased—improvements were made every day—1 the question, and to-day a train, which started from London; The question, What go o d in the morning, has brought me in the afternoon | shall I do to- { w my native soil, and enabled me to take my | day? place in this room, and see around me many faces which I have great pleasure in looking upon."

The complaining impatience of caprice or discontent, remote as it is from everything like exilted determination, has often been mistaken for this noble consistency in looking beyond the preseat. The difference is sufficiently clear. He who pursues a future happiness, or prosperity, or honor, by the right path, does not cast away the good in his possession, nor neglect the duties which lie before him; but he endeavors to shape them, by slow degrees, to that model of perfection which his feelings or his reason have set up.

The great American philosopher and statesman, Benjamin Franklin, drew up the following list of moral virtues:

Temperance.--Eat not to fullness ; drink not to elevation.

Silence .-- Speak not but what may benefit others or yourself : avoid triffing conversation.

Order .-- Let all your things have their places ; let each part of your business have its time.

Resolution - Resolve to perform what you ought; perform without fail what you resolve.

Frugality .- Make no expense, but do good to others or yourself, that is, waste nothing.

Industry .-- Lose no time ; be always employe 1 in something useful; cut off all unnecessary actions,

Sincerity .--- Use no hurtful deceit; think innocently and justly; and if you speak, speak accordingly.

Justice .- Wrong wore by doing injuries, or omitting the benefits that are your daty. · .

Moderation .- Avoid extremes; forbear repenting injuries. A large the off

Cleanlinees .-- Suffer no uncleanliness in body, clothes, or habitation.

Tranquility .- Be not disturbed about trifles, or at accidents common or unavoidable.

Humility .--- Imitate Jesus Christ.

The same great man likewise drew up the folmissfy either the committee or myself. Some lowing plan for the regular employment of his one inquired if I were a foreigner, and another time; examining hunself each morning and evebinted that I was mad. But I put up with every ning as to what he had to do, what he he had rebuff, and went on with my plans, determined done, or left undone ; by which practice he was

HOURS.



Milton, the Poet of Paradise Lost, who, dur ing an active life in the most troublesome times. was unceasing in the cultivation of his understanding, thus describes his own habits:

5

" Those morning haunts are where they should be, at home; not sleeping or concocting the surfeits of an irregular feast, but up and stirring ; in winter, often ere the sound of a bell awake men to labor or devotion ; in summer as oft with the bird that first arouses, or not much tardier ; to read good authors, or cause them to be read, till the attention be weary or memory have its full fraught ; then with useful and generous labors preserving the body's health and hardiness, to render lightsome, clear, and not lumpish, obedithe consciousness of desert in encountering difficulties, must be felt to enable us to accomplish apon. any great work. All our eminent men have been ception of it that has led them on through years of toil.

> Correspondence, A Wet Day, No. 2.

DEAR SIR,-

you noticed my former communication, has in- organization and properties of the subjects upon duced the to take up my pen a second time, to you some two months ago, but having an unusd- experience; these lessons of wisdom are considally large harvest to attend to, my time has been ered indispensible to the student of medicineso much taken up, that I have had little inclina- they are no less beneficial to the student of agrition for writing. I make this remark, lest you culture. might think this the only wet day that has elapsed since I last wrote you.

ing our farmers to that standard which their calling and station demands; and that which I think ment. Not that a man should go to a book to apt to evade it. I trast you will bear with me, learn to hold a plough, but to understand the nature and foundation of his soils, their component parts, their susceptiblities of varied culture, and what crops are suited to their varied characterall these things, and they are essential to the profitable accupation of our soils, should be perfectly mers knew the calm satisfaction of taking an understood, and yet how few do understand them. 1 am fully satisfied that our farmers do not read enough on such subjects as relate to their own who love their homes and their book, that are personal interest. I am often amused with the vicious? Employment, roused by some noble prejudice which exists against innovations, and object, is the secret road 'to happiness, and of all blush for my calling, when I hear men possessing employments, mental labor lasts the longest. an ordinary share of common sense, talking of The body soon wearies, but the mind is immortal. killing pork in the new of the moon, planting "The man," says Robert Hall, "who has potatoes in another stage, sowing peas in a third gained a taste for books, will in all likelihood bestage of it, and a hundred other equally rediculous come thoughtful; and when "on have given hime and abourd assertions. If you ark them the rea- a habit of thinking, you have consume

ence to the mind, to the cause of religion and our and I always did so; whereas two hours' attentive, country's liberty." Energy of mind, like strength reading of a common-sense author, and an hour of body, must be acquired by exercise, and that or two of abstract thought, would convince them of the error and folly of the prejudices they act

" The business of husbandry," says an author distinguished by fixing upon some great object, in drawing a comparison, may be likened to the and possessing themselves with such a lively con-theating art ; the farmer, as well as the physician, may plod on mechanically without the aid of study or of science, happy, if you please, in his own conceit, and in his ignorance; both may have tolerable success, by adopting the example of enlightened neighbors, or following the impulse of their own discriminating minds, yet, both would The highly complimentary manner in which do better, were they to understand perfectly the which they are to operate or are to employ. offer a few remarks for your consideration; and Generations have been engaged in investigating if you think them worthy a column in your paper. the business of both professions, and have handed they are at your service. I had intended writing down to us the result of their observations and

A farmer can be, and when he understands his rights and privelidge., is one of the most indpen- . My feelings are still deeply interested in aiding dent men on earth. The wife of a farmer is one and forwarding the cause of Agriculture and rais- of labor, it is true, but labor, unless carfied to excess, is far from being prejudicial to the body or mind; vigorous excercise, such is the law of to be the most effectual means of increasing their our nature, is necessary to the full development prosperity and improving their social condition. I of either our bodily or mental powers; and unless is, an earnest appeal to their intellect for improve- the necessity is forced upon us in part, we are Mr. Editor, if my remarks are verbose, when I tell you, that the subject of mental culture deeply interests me, and it affords me a secret satisfaction in giving an expression to some of my ideas upon it. I sincerely wish that more of our farimproving volume by the peaceful fire-side, or the luxury of improving the mind How few men

·*•ign son of all this, they say, my father did or said so, much greater favor than by the gift of a large som of money, since you have put into his possession the principle of all legitimate prosperity."

Bat I will conclude ; in my next I propose giving some of my own experience and observations on farming. Though I make no pretensions to philosophy or science in my practical experience, yet I trust to be benefited by an investigation of them, and am not afraid of their practical application to my profession.

Yours respectfully.

CHARLES E. CHADWICK. Dereham, Brock District. September, 1846.

Bones Dissolved in Sulphuric Acid as Manure for Turnips .- The application of bones dissolved in sulphuric acid as a manure for turnips being now so general, perhaps the following hint may be acceptable to your readers, as it is the opinion of several practical farmers who tried the experiment last year, and are about to repeat it. Take a large but shallow tub, about 18 inches deep (regulating the size according to the quantity required) spread the bones at the bottom of the tub, and add sufficient water bearly to cover them, then pour in the acid, stirring the whole mass with a strong fork ; an immediate fermentation takes place, and the bones will be sufficiently dissolved for use in 48 hours, or even less. The best way to prepare the compost for the drill; is to mix half the quantity of peat or wood ashes according to quantity of bones used, passing it if necessary, through a coarse sive-and afterwards adding as much dry mould as the drill requires. This plan is, we think, better than dissolving the bones in a heap of dry mould (as recommended by Mr. Pasey,) because, without great care, the acid when poured on to the bones, is apt to escape into the mould, therefore we prefer adding the water first ; a tub is better than an iron vessel, the sulphunc acid having a great affinity for metal will soon destroy it, but it has no affect upon wood. The proper proportion per acre is 4 bashels of bone dust, with 40 pints of sulphuric acid, which weigh about 70 lbs. if bought in small quantities ; 3d. a pint is the price of the acid in the country. -Ag. Gaz.

Influence of Knowledge upon Agriculture. -Here, then, there is an opportunity for the improvement of agriculture; for who can doubt it be well rabbed into the effected parts.

that these extraordinary results are the consequence of that intelligence and collightened skill, which are equally the instruments of success in every other art. But it seems idle to argue this point. All the improvements which have been made in agriculture; are as much the result of the application of mind and of knowledge to the subject, as any of the improvements made i manufactures or the mechanic arts. Accident has produced nothing. The dull, plodding loborer originates nothing, any more than the beast which he drives. The present advanced state of agriculture as a practical art, all the improvements which have been effected in it, are due to the highly-intelligent minds, the men of sience, of learning, of observation, of skill, who have applied their attention and have devoted their time, tatents, and fortunes, to it.

Scours in Sheep .- Mr. Editor :- Below I give you a recipe to cure the scours in sheep, that I have thoroughly tested and never knew to fail.

Cure for Scours in Sheep .- First take your sheep shears and tag them, as the filth that adheres to them in such cases seems to augment the disease; and then give from 4 to 6 table spoonsiul of good rennet, prepared the same as cheese makers use it to set their curds for cheese. To a lamb 8 or 10 months old, I give 4 spoonsful-and if it is not well in twenty-four hours, I repeat the dose; but one dose generally cures. I keep it on hand, in a bottle, at all times. As above stated, I have never known this remedy to fail. R. BURRITT.

Burdett, 1846.-Gen. Far.

Cure for Sweeney in Horses.-Take half a pint of grease, tried from old rusty bacon ; half an ounce of gum-camphor, shaved fine; four or five red peppers ; simmer altogether till thoroughly mixed. Apply this every other morning to the effected shoulder, rubbing it briskly with a smooth stone until it becomes quite hot. Palling up the skin two or three times a day, where the flesh is wasted, will expedite the cure .- Ohio Cult.

Scab in Horses .- The Author of the "Handbook of Farriery," in the Mark Lane (Eng.,) Express, says the following recipe has invariably proved successful in curing this disorder: Take of mild mercurial vintment, 6 oz.; sublimated sulphur. powdered white helebore, of each Loz.; palm highest degree of intelligence, as applicable to the oil, 4 oz. Mix an ointment. It is essential that

On Agricultural Improvements,

The year which is now drawing rapidly to a close will long be remembered and marked as a important and instructive one in the annals of agriculture. Never before, in the same space of time, have so many and varied experiments been performed---never before could the sciences boast of such a band of experimentalists --- nor has such a sum of money been previously expended in endeavours to increase the fertility of the land and the luxuriance of the crops. We have now arrived at a period of comparative inactivity; and our time may be very profitably employed in inquiring what preparations we can make for next year's investigations, and what subjects will be most likely to yield important results to our inquiries. In short, this is the period at which we must plan our experiments for the next season, examine the precautions necessary to insure success, determine the details of the operations we intend to carry out, and obtain all the preliminary information that we require. There are many farmers throughout the country who are most anxjous to join the ranks of the experimentalists but who feel at a loss what subjects to fix on for examinations; and we fear that there are not a few who, having proceeded without method, have, as might been expected, experienced failures, are ready to class agricultural improvements with the whims and absurdities of the doy, and are determining to return to the good old plans of operation to which they were accustomed before guano and chemical manures had turned the heads and emptied the pockets of the farmers.

To these two classes these notes are particularly addressed ; and an attempt will be made to show that it is probable that improved methods of cultivation may be ascertained by means of experiments, if they be carried on in a proper manner: and care be taken to observe and record with accuracy the results. For example, let us now confine our attention to one branch of this extensive subject, and one branch is perfectly sufficient to occupy the spare time of the farmer for at least one season. Attempting to accomplish too much is one of the most frequent and certain causea of failure.

of carbon, hydrogen, oxygen, and nitrogen, or more perfect will be us development. charcoal, water, and altrogen ; but these do not constitute the whole bulk of the vegetable. If but the differences in u are not greater than what

we burn it, these substances are consumed or driven off, and a matter called ash remains, which is small in quantity, but still important, nay essential to the well-being of the plant. Those portions which are dissipated by heat, are collectively termed the organic part; those which remain, the inorganic. All the ingredients of the organic portion are found in the air, and probably it is from the air that plants derive them; but it is from the soil, and the soil alone, that they can obtain the inorganic materials; and hence an answer to the question, Does my soil contain all these matters that a particular cron requires 1 is of the greatest importance to every farmer. As yet, unfortunately, our acquaintance with the composition and qualities of the ashes of plants is extremely limited; so that the few remarks offered must be looked on, not as the whole, but merely a very small portion of the truth.

The quantity of inorganic matter we know varies with the plant, and also the part of the plant subject to examination. One thousand pounds of what yield two pounds of ash. The same quantity of wheat straw about fifty pounds. The proportions in one or two others are given in this table:----

1000 lb	• turnips y	rield o	f ash	•	8 16.
16	beech	46	44	-	4 lb.
**	oak	"	66	-	2 lb.

So that land may contain enough to supply the moderate requirements of trees, but not sufficient to satisfy the demands of grain crops. The quantity varies with the variety of the plan:, and also with the soil on which it is grown, the proportion in the same variety varying from 6 to 10 per cent, according to the soil. So that a plant may grow with a small proportion of inorganic matter, but to produce perfect and healthy individuals, the larger proportion is requisite. Not only, however, must these substances be present in the soil, and they must exist in considerable abundance, and in a much greater proportion than the plant absolutely requires; for its roots, even it they penetrate to a considerable distance, can absorb by their extremities alone; and these can come in contact with only a very small pro-The greatest portion of all plants are composed portion of the soil. The more abundanug the of the bodies known to chemists under the names plont is supplied with food, the more rapid and

Hitherto giantity has been alone alluded to,

pecer in quality. Wheat contains much more points then oats; while oats, on the other hand, contain a much greater proportion of silica, so that the one will exhaust the soil of the ingredient which it possesses in a large quantity, much more rapidly than the other; and land, which from its deficiency of points, will not bear wheat with advantage, may, if it contain silica, produce large crops of oats; and further, alternate crops will not exhaust the land so rapidly, as continuing, year after year, to cultivate the same species.

As plants can only have their food in a liquid state, the land must not only contain the ingredients they require, but there must also exist in it sgents which have power of dissolving them; for it is quite possible to suppose a piece of ground containing all the necessary ingredients, being barren; if they be in a solid state; so that we must not rest satisfied with merely ascertaining that the required substances be present, but we must also ascertain the form in which they exist, and whether they can be rendered easily soluble in water.

One object of the application of manures is, to restore to the land what the crop has taken away. If all the crop were consumed on the farm, and the refuse, as well as the bones and carcasses of the different animals fed on it, were returned regularly to the soil, then its present fertility would be kept up. And, as we have seen, that the greatest portion of those substances are in the straw, if it be applied to the land, the largest proportion of what the plant took away will be restored ; but if no such return he made, it is clear, that, in time, the land will be exhausted and unable to bear a similar crop. In many parts of the United States we have examples of the deterioration of land caused in this manner. Large tracts in Virginia, after such treatment, have been given up to hopeless barrenness ; and, if farther proof of the correctness of these statements be required, we shall find it abundantly in Cheshire. The old pastures, which have been drained of their phosphates, by the cheese prepared from the milk of the cows fed on them, and which, in many instances, were very much deteriorated, have been completely renewed by the restoration of the phosphates in the application of bone dust

I have made the foregoing statements to shew that an attentive examination of the composition of the ashes of plants with that of the soil on which they have been grown, is a subject which acte we shall be disappointed.--Bost, Cult.

will yield infomation of the highest value; indeed, I believe, its careful study will lead to greater improvements shan any other question at present agitated, and will afford data, from which general laws of the greatest importance will be deduced, and tend to place agriculture among the certain, instead of, as it is now among the uncertain sciences. Three separate objects of examination have been indicated.---

1. The examination of the ashes of plants.

2. Are these ingredients present in the particles of soil?

3. If present, whether they be soluble, or agents required to render them so ?

The determination of the two latter questions will point out whether a direct or indirect fertilizer be required, direct, by supplying the deficient ingredients; indirect, rendering soluble the matters already there, but not in their present state fitted for the nourishment of the crop.

The difficulty of performing the analysis required, ought, at least in Scotland, not to be pleaded, as an excuse for neglecting this most important subject; for, if the farmer be unable to do it himself, he can get it done, at a very low rate be the officers of that most valuable institution, the Agricultural Chemical Association.

-West. Ag.

G. ATEIN, M. D. Berwick, 28th December, 1844.

Potato Onions .--- We take land in a good state of cultivation, (not green sward,) manure liberally with well rotted manure, plough it in from four to six inches deep, harrow well, drawn drills 15 inches apart, 2 or 3 inches in depth, we use the cultivator with two teeth, for the purpose, set the seed 10 or 12 inches apart in the drills, cover it from sight, keep the ground free from weeds, and hoe evenly. Each serd produces 2 tiers, the lower tier from two to five onions, each onion is at this time, June 20, from 1 to 3 inches in diame-The upper or central tier from 3 to 7 onions ter. 1-2 to 1 1-2 inches in diameter, these are, many of them, ripe, and are being detached from their hold in the ground by the tier below, they are to be used for seed. The lower tier will continue to grow until about the middle of July, and will average larger than the onions found in your market, and are very mild. There is growing on our farm 1.4 of an acre of these onions, and if the yield is not 125 bushels, or five handred to the.

The Oolleges we need-Education of Farmers' Sons.

An extract from Colman's Observations on European Agriculture

It is gnite certain that the course of education pursued at most colleges and universities, is quite unsuited to qualify men for the common business and pursuits of life. Indeed, it would seem, in many cases, to operate as a positive disqualification; and men who may have distinguished themselves at our universities for their classical and scholastic attainments, are often thrown upon society as helpless and as incompetent to provide for themselves, or to serve the community, as We have 'small encouragement at children. present, I confess, to look for any thing better. The system of education at our colleges and universities, has undergone little substantial alteration for a century ; and what is called classical learning, and the subtleties and puerilities of scholastic divinity, occupy as 'much attention as formerly, and hold a place in these ancient seats of learning so high in the estimation of those to whom the management of these places is intrusted that there is little hope of dislodging them. I am no enemy to classical acquirements, as a matter of elegant ornament and taste, as a source of delightful recreation, and as an essential element in a complete education But to give them a preference in any way to learning more useful, substantial, and practical, is not to estimate things according to their real importance The time and expense devoted to them, might be given to studies infinite'y more valuable A college, therefore, of the practical arts, and of those sciences which directly bear noon practice, must be greatly desired by that portion of the community whose education must be to them a means of subsistence, and who have little time to cultivate the arts but with a view to apply them at once to the purposes of practical life

It must be admitted likewise that many of We know already that crops with large leaves, these arts and sciences are, properly speaking, and therefore large powers of absorption, are the creations of modern times, and could not be evaceted to find their place in schemes of educa tion formed in a remote period. Chemistry, far from exhausting it, is, in fact, an improver minerology, geology, and electricity, are all of of the soil. There is every reason to hope, thereinodern date. There are those living, who may be said to have assisted at their birth and have ently be found, when, without any extraneous rocked the cradle of their infancy. All these are intimately connected with the practical arts and especially with the advancement of the great art, and

of agriculture ; and we may confidently look for the most important benefits to agriculture from the study and application of these sciences. Botany, likewise, and the nature, habits, and uses of plants; comparative anatomy and phy siology the study of which may prove so usefu in the improvement of the breeds of domestic anmais, and in the treatment of the diseases and injuries to which they are liable ; the art of metsuring superfices and solids, an art so constanty in demand in practical agriculture; mechanics, and the construction of farming implements and buildings; hydraulics, a science so important ir. draining, irrigation, and the general managemen. of water, and the uses of steam, that wondering agent, which seems destined to exert a more powerful influence over the affairs and common business of the world, than any or than all other agents besides; the principles of engineering, in the construction of roads and embankments :---all these are matters to be learned and studied, as furnishing direct uses and aid in the practice of agriculture, and bearing immediately upon its advancement. These considerations demonstrate the importance of an institution, where such branchec may be taught under the advantages of competent teachers, and means and apparatus adapted to their illustration.

No one will pretend that agriculture, even in the more improved form in, which it is any where to be found, has yet approximated the perfection of the art. The perfection of the art of agriculture is that in which the largest amount of product is obtained at the least expense of labor and manure, and with the exhaustion to the land. Indeed there is reason to hope that we may presently. reach a system of cultivation in which, though the crops may be large, the land itself shall not only not be exhausted, but be in a course of continual amelioration. I know well there must be a limit; but that limit no one can yet define. We know already that crops with large leaves, and therefore large powers of absorption, are commonly improving crops, and we know equally well that the growth of a forest upon land, so far from exhausting it, is, in fact, an improver of the soil There is every reason to hope, therefore, that such a system of husbandry may preslvery where, if man performs his duty, is a system of amelioration, and not of deterioration ; it is every where a system of recuperative compensaions. if man does not controvert or pervert its IWS.

That our crops, for example, are not what they night be, is universally admitted. Within the ast few years, crops of many kinds have increased inmensely. A few years since, fifty bushels of Indian corn, to an acre, was deemed a large grop. One hundred have been frequently prolaced. Thirty bushels of wheat has heretofore been deemed more than an ordinary yield. Fifty is now not uncommon. I have known sixty, and nearly seventy, to have been grown, and over a large farm, the crop to have averaged fifty-six bushels. Thirty tons of carrots per acre is the ordinary crop of a farmer within my knowledge : and I have on my table before me the authenticated statement of eighty-eight tons of mangelwurzel to the acre. I am willing to admit that these are rare instances. Some of them may be considered as single instances; but it is obvious that one well-established case is as good us a thousand in demonstrating the practicability of that which is claimed to be done.

French Mode of making Apple Butter.

In France, a kind of jam, or apple batter, called raisine compose, is prepared by boiling apples in unfermented wine. The must or wine should be reduced by boiling to one-half of its bulk, to be continually skimmed as fresh soum arises, and afterwards strained through a cloth or a fine sive. The apples are then pared, cut into quarters, and put into this liquor (raisine) and left to simmer gently over a fire, with a continual stirring with a wooden spatula or slice, till the apple be- I the late Mr. Webster, author of the "American comes thoroughly amalgamated with liquor, and Dictionary of the English Latiguage." "Ist, The the whole forms a kind of marmalade, which is sand keeps the apples from the air, which is csextremely agreeable to the taste.

. When prepared in the northern departments of France, the raisine after the first boiling, skimming and straining, is set in a cool place for twenty-four hours, when a saline liquar, like a scam, appears on the surface. This is removed, and the liquor stramed, before it is mix' a with the apples, as above. This scum consists principally of tartaric acid, which would spoil the raisine, and prevents it from keeping sweet, but which is not perceivable, when the grapes, from which the wine is made, have been ripened in a southern cli-] iese their flavor, and become insipid."-Am. Ag-

mate. The raisine, when properly prepared, is sweet, but with a slight flavor of acidity, like lemon-juice mixed with honey. The best raisine is made in Burgundy. In Normandy, a similar marmalade is composed of cider and pears, much resembling the "apple-butter," or " apple-sauce," of the United States; but it is not so good as the raisine, being apt to ferment. Insome cases, the pears are put into an earthen vessel without water, and placed in a baker,s oven, after the bread has been drawn, previously to mixing with water.

The best raising is considered very wholesome, particularly for children, who eat it spread on bread, and for persons in delicate health, whose stomachs will not bear butter. In Italy, the raisins is eaten with gnocchi and other preparations of Indian corn, and with maccaroni, to give a flavor to these dishes. There is nothing better to make a dinner relish. and we would always have it, or apple, or cranberry sauce, if possible. -Am. Ag.

Preservation of Apples .- Apples intended 10 be preserved for winter and spring use, should remain upon the trees until quite ripe, which usually takes place at the coming of the first They should then be plucked from heavy frosts. the trees by hand, in a fair day, and packed up immediately in casks, in alternate layers of dry sand, plaster, chaff, saw-dust, or bran, and conveyed to a cool, dry place, as soon as possible. The sand or saw-dust may be dried in the heat of summer, or may be baked in an oven at the ume required to be used. The peculiar indvantages arising from packing apples in sand, are explained and commented upon as follows, by sential to their preservations; 2d The sand checks the evaporation or perspiration of the apples, thus preserving in them their tall flavor-at the same time any moisture yielded by, the apples, is ab-

sorbed by the sand-so that the apples are kept dry, and all mustiness is prevented. My pippins, in May and June, are as fresh as when hist picked. Even the ends of the stems look as if just separated from the twigs; 3d, The sand is equally a preservative from frost, rais, &c. But after the extreme heat of Jane takes place, apples speedily GAULT'S PATENT CHURN.

patent churns, are-"the facility with which it can be worked, from its quick and powerful motion; the ease with which it can be cleaned; and that it is not liable to get out of order."-Gen. Far.

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Lotion for Sore Legs-Copperas (green,) 6 drachms; alum, 4 drachms; verdigris (crystalized,) 1 drachm; sal ammoniac, 1 drachm; water, 7 quarts. Mix and dissolve.

Potato Rot, a Proposed Remedy.-We very much regret to hear that this destructive disease has again made us appearance, and, that in several parts of our State its ravages are quite alarming. A correspondent of the Belfast Journal, setting aside all sugestions, theories, and surmises on the subject, proposes the following remedy. His plan, to say the least, is simple and not altogether new, but he speaks with boldness and confidence backed up by his own experience, and seems to be somewhat acquainted with the subject. He says. "There is but one remedy-that is mow off the vines as soon as the potatoes have blossomed, ir as soon as the potatoes have set, and are as big as pistol balls .- This is a cure or preventation of the plague .- nothing else will reach it. It is a disorder which can alone be secured

This implement has been in use for several by decapitation. All, who have written on the years, and many persons consider it the most ap- [subject, have mistaken the cause and the cure, proved and convenient Churn now used. The and as Dr. Franklin would say, have come out particular advantages claimed for it over other at the little end of the horn? I tried the experiment last summer; it did well. There is no mistake, if the vines are cut off near the ground before the poison of the insect desends to the root of the potato, they are safe. It is a winged insect that does all the mischief. This is the fact, let philosophers humbug as they will about honey dew, fungus, mildew, dew rust, young seed, old seed. wet land, dry land, manures, new or old seed, hot weather, cold weather, too wet, too dry, &c. &c. All are wrong, and do not look to the way, or even squint, whence all the evil comes. Potatoes should be planted early in order to be forward enough to part with their tops by the 25th of July or the first day of August. The insect was ten'or twelve days earlier last year than this, or it may not come at sall, which I hope. Where I cut off the vines last summer on the 1st day of August, the potatoes were cound, perfeetly good; and I am selling them for seed at one dollar per bushel. Thuse I cut off on the 18th day were injured some, say one-eighth lost." -N. Y. Far. & Mech.

> To prevent Pumps and Water-pipes freezing in Winter .- Take up the valve or sucker, and let all the water out of the trank or pipe.

The British American Cultivator. SELF-ACTING MACHINE FOR RAISING WATER. Our attention has been directed to an interestorder that we may be able to obtain the requisite ing article republished some time ago in the information, and to furnish machines of Mr.

Farmers' Cabinet; and it has ellcited consider- Elgar's manufacture. able attention from gentlemen who have a fall of water on their premises, and who would gladly avail themselves of a simple means for raising water to the top of their farm-hous s, or to elsterns for supplying their barn-yards, or gardens, we feel that we shall gratify many of our readers. by inserting a sketch of an experimental waterram, made by one of our subscribers in this city, and which we examined with considerable interest. Its construction was so simple, that any of our readers may make one of these machines, and try further experiments at a trifling expense ; while those who wish to have more perfect ones, of 7 feet, with a stream giving 8 gallons a mican obtain all the requisite information relative nute. To the flanch nozzle, B, was attached a to the outlay, by applying to Mr. J. Elgar, Balt., who has given his attention to the subject, and the nozzle. When this valve is held down, wahas made some important improvements. It ter can run through the seat of the valve, as will be necessary for applicants to state the per- shown in the sketch, but the tendency of water pendicular height the water falls, and the quan- [flowing rapidly through the pipe, E, and ram, A, tity which flows per minute ; also the height and | would be to press the valve, G, against its seat, and distance to which it is required to be raised-in | close the opening ; the water would then run out

The experimental machine we examined, was made as the piece A, of cast-iron pipe, 2 inches

in the bore, and about 2 feet long, having two flanch, nozzles cast on it, B and C. One end of the pipe was closed, and the other open, with a flanch to connect it to about 35 feet of 2-inch cast or wrought iron pipe, E. The other end of the pipe, E, led to an open water cask, F, placed 7 feet above the water-ram, and this cask was supplied by a hose, at the rate of 8, gallons of water per minute. Of course the fall from the level of the water in this cask, is equal to a fall brass spindle valve, G, inverting or opening into.

tbrough the nozzle, C, bu. on this nozzle, C, an feet high, in 11 minutes, 53 feet high in 7 miupward or lifting brass pindle value, II, was at nutes, and 42 feet high in 4 minutes. Thus, in tarbed baving a piece f2 inchappe, I, of about 2 the last trial, the machine required 28 galions of feet high, covering it. This pipe, I, was closed water to throw up 4 gallons to 6 times the height at the top, but had a lateral branch pipe, J, of one of the fall. It would have been easy to have inch bore inserted into it above and near the valve, made the head of water 10, 20, or 30 feet high which the water to be raised had to ascend. The upper space in the pipe, I, acted as an air- chamber or air cushion. In large machines, a vacuum valve is inserted in the end of this airchamber, to supply any deficiency of air, but in this experimental machine it was omlited.

The upright p.pe, J. was 50 feet high, mersured from the ram, or 73 feet above the level of the water in the supply cask. It was furnished with 3 outlet cocks at various heights. The object of these cocks was merely to ascertain the difference in the volume of water, which would be thrown up by the ram at different heights.

The action of the machine, as detailed in Mn Latrobe,s letter, may appear complicated to our seaders, but, with the help of the diagram, we think it can be easily understood.

Having filled the water cask, F, the water runs down the pipe, E, and by the time it reaches the valve, B, it has acquired a momentum, which closes the valve, and the only escape is by the valve, C. Through this valve it rushes up into the air-chamber, I, and into the pipe, J. The momentum having been expended, the valve, B, falls, and a quantity of the water rushes out, through the open valve. The water again acquires a fresh momentum, closes the valve, B, and part of it again forces open the valve, C, increasing the column in the pipe, J. The fall and closing of the valves is like a smart blow of a hammer, and they close and open with great prenutes, the pipe, J, became full, and ran over at and the rasins and spice after the first rising. the top On measuring the quantity of water to be 4 gallons; and as during the 12 minutes, 96 nutmeg. gallons of water had passed from the water cask,] own height.

The experiment was continued, and the same

made, to ascertain experimentally the relative differences in the momentum of the water descending from a greater or less distance, the fall of 7 feet, however, was preferred, in order to give the machine the ability to throw up water to more than ten times the height of the fall, a difference which would not often occur. Whether a fall of 70 feet instead of 7 would have thrown up the same relative quantity of water 420 feet, is a question we confess we are not able to solve.

The pipe, E, it is found, must be 30 or 40 feet long, or the valve, G, will n t work, almost all the water ran out of it, when the water cask was put directly over the ram. The valve made 50 strokes in a minute. It is not necessary to have the pipe E a perfectly straight one, but it may be bent to suit the inequalities of the ground, and may even be bent at right angles, as shown in the sketch at K .- Am. Ag.

THE HOUSEWIFE'S DEPARTMENT.

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RECIPES FOR MARING CAKES.

Composition Cake .- One pound of flour, one of sugar, half a pound of butter, seven eggs, half a pint of cream.

Tea Cake .-- Three cups of sugar, three eggs, one cup of milk, two cups of flour, a small lump of pearl ash, and make it not quite as stiff as pound cake.

Loaf Cake .- Five pounds of flour, one of sugar, cision. In the machine we saw, the strokes were three-quarters of a pound of lard, and the same 70 each minute, and plainly heard at the distance quantity of butter, one pint of yeast, eight eggs, of 150 feet. In the course of two or three mi- one quart of, milk ; roll the sugar into the flour,

Soft Gingerbread .- Six tea cups of flour, three which was thus thrown up in 312 minutes, 73 of molasses, one of cream, one of butter, one tafeet above the level in the water cask, it was found ble spoonful of ginger, one glass of wine, and a

Jumbles .- Three pounds of flour, two of sugar, into the ram, it appears, that it required 23 gai- one of butter, eight eggs, with a little caraway lons of water to raise one gailon to 10} times its seed, and a little milk, if the eggs are not sufficient.

Soft Cakes in little pans,-One and a ball. quankity of water, 4 gallous, was thrown up 66 pounds of butter rubbed inte two pounds of flour ;

two of yeast, nuimeg, connamon, and corrange,

Sponge Cane .- Five eggs, hait a pound of sugar, and a quarter of a pound of flour.

Pound Cake .- Three eggs, nine spoonsful of butter, three of sugar, and three handsful of flour.

Shrewsbury Cake .- One pound of flout, three quarters of a yound of sugar, three quarters of a pound of butter, four eggs, and one numeg.

Clove Cake .- Three pounds of flour, one of batter, one of sugar, three eggs, two spoonsful of cloves-mix it with molasses.

Wonders .- Two pounds of flour, three quarters of a pound of sugar, half a pound of butter, nine eggs, a little nuce and rose water.

Bread Pudding .- One pound of soft bread or biscuit, soaked in one quart of milk, run through a sieve or cullender, add seven eggs, three quarters of a pound of sugar, one quarter of a pound of hutter, nameg, cinnamou, one gill of rose water, one pound of raisins, half a pint of milk; bake three quarters of an hour, middling hot oven. --- N. Y. Far. & Mech.

To Pickle Red Cabbage - Choose two firm red cabbages, shred them very fine, first pulling off the outside leaves, mix with them nearly half a pound of salt, tie it up in a thin cloth, and let it hang for three hours, to drain, then put it in small jars, ; boil, in a quart of good vinegar, three bits of ginger, one pod of pepper, quarter of an ounce of cloves, one pod of garlic, and pour it over the of the most e that the seen. He says :--oabbage boiling hot.

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to crudle it; then seperate the curd from the whey, and mix the whey with four or five eggs, beating the whole well together. When it is well mixed | add. a little quicklime through a sieve, until it has acquired the consistence of thick paste. With this cement, broken vessels and cracks of all kinds may be mended. It dries quickly, and resists the action of water, as well as of a considerable degree of fire.

A Cement for stopping the Fissures of Iron Vessels - Take two ounces of muriate of ammonia, one ounce of flowers of sulphar, and sixseen ounces of cast-iron filings or turnings; mix shem well in mortar, and keep the powder dry. above is submitted respectfully for the benefit of When the cement is wanted, take one part of this all lovers of good apples.

add one wine glass of wine, one of rose waier, and iwenty parts of clean iton mings or berings, if grind them together in a mortar, mix them with water to a proper consistence, and apply them between the joints.

> The manner of soldering Ferrules for Toolhandles, &c .-- Take your ferrule, lap round the joining a small piece of brass-wire, then just wat the ferruie, scatter on the joining-ground, borax, put it on the end of a wire, hold it in the fire till the brass fuses. It will till up the joining, and from a perfect solder. It may afterwards be turned in the lathe.

> Easy way of cleaning the Hands, for dyers, Colourers, &c .- Take a smail quantity of pot-ash or pearl-ash in your hand, pour into it a small quantity of water, rab it well all over your hands with a little sand, then wash it off, take in your hand a smail quantity of chemic, pour a little water into it, and rub it well on the hands in a semi-liquid state; wish the hands well in water, and they will be clean. If not perfectly clean, repeat the operation.

To Prevent Iron from Rusting .--- Warm your iron till you cannot bear your hand on it without pain to yourself. Then rub it with new and clean while wax. Put it again to the fire till it has soaked in the wax. When done, rub it over with a piece of serge. This prevents the iron from rusting atterw_rds .- N. Y. Far. & Mech.

Preservation of Apples .-- A correspondent of the Maine Cultivator, gives the following account of the most entraordinary preservation of apples

"I sent you an apple which I bought in the fall, of 1843, of my neighbor, Thomas Meirs. Among others, it was put into my cellar, it open casks and about the first of January, 1844, I overhauled of milk, put an equal quantity of vinegar, in order , plaster of Parts ... first a layer of plaster, then a layer of apples--and so alternately, till the barrels were filled --- They were then headed up and stood till the early part of last summer, when I overhauled and assorted them, and put them in a box in layers of dry oak saw-dust. The box had a lock and key, and has been kept locked up, only when we got apples out to use. We continued using out of the box, till some time after early apples were npe, and I supposed they were all used out, but on town meeting day, the 11th of March, 1845, (it being stormy) I told my mar. to assort my apples, and fill that box again with saw-dust and apples. Upon unlocking the box and taking the saw-dust out, to our surprise there were three apples in the box, and all of them perfectly sound The apple I send you having kept in a warm room has commenced, as you perceive to rot. The

Soldering Metals.

To unite two perces of the same or different metals, by fusing some metallic substance upon them, is called soldering. It is a general rule, that the solder should be easier of fusion than the metal to be soldered by it. It is, in the next place, desirable, though seldom absolutely necessary, nor always attempted, that the solder and the metal to which it is intended to be applied, should be of the same color, and of the same degree of hardness and malleability.

Solders are distinguished into two different classes, viz., the hard and the soft solders. For the hard solders, which are ducile, and admit of being hammered, some of the same sort of metal as that to be soldered is, in the greatest number of instances, alloyed with some other which increases its fusibility. Some of the facts already detailed, respecting the metals prove that the addition made with this view need not alwayshe itself easier of fusion.

The solder for platina is gold, and the expense of it will, therefore, contribute to hinder the general use of platina vessels, even in chemical experiments.

The hard solder for gold and silver; gold and copper; or gold, silver, and copper. Goldsmiths usually make four kinds, viz., solder of eight, in which, to seven parts of silver, there is one of brass or copper, solder of six, where only a sixth part is copper, solder of four, and solder of three. Butmany who may have occasion to solder gold cannot encumber themselves with these varieties.

For general purposes, therefore, the following composition may be provided; melt two parts of gold with one of silver and one of copper; stir the mass well to make it uniform, add a little borax in powder, and pour it out immediately. If cast into very thin narrow slips, it will be the more handy for subsequent use. To cleanse gold which has been soldered, heat it almost to ignition, let it cool, and then boil it in urine and sal ammoniac.

The hand solder for silver may be prepared by melting two parts of silver with one of brass. It must not be kept long in fusion, least the zine of the brass fly off in fumes. If the silver to be soldered be alloyed with much copper, the proportion of brass may be increased for example the following composition may be used; four parts of silver and three of brass, rendered easily of fusion

by a sixteenth part of zinc. Silver which has been soldered, may be cleaned by heating it and letting it cool, as directed for gold, but it must be boiled in alum water.

The hard solder for copper and brass is a soft fusible sort of granulated brass, known to artists by the name of speltre. It consists of brass mixed with an eighth, or a sixth or even one-half of zinc. The braziers use no other kind of hard solder. As speltre melts sooner then common brass in serves for the solder of the latter as well as for copper.

Standard silver makes excellent solder for brass. It is more fusible than speltre, proportionately casier to manage, and equally as durable. A slight demand for silver solder may, to many, be supplied at a cheap rate, in consequence of the number of the small silver articles in use, and which are itequently wearing out.

Iron may be soldered with copper, gold or silver. Brass or speltre is most commonly used, and the operation is then called brazing; but a carbonate of the some metal, viz, the dark gray or most fusible sort of pig iron, called No. 1, is the most durable solder that can be used. The pig iron loses some brittleness, and the malleable metal becomes harder in the proximity of the parts soldered.

The parts upon which hard solder is intended to operate, are touched with a finely powdered borax moistened with water. They must, also, as in all soldering and tinning operations, be perfectly clean : The borax quickly running into a kind of glass, promotes the fusion of the solder, and preserves from oxidation, the surfaces to which it is applied. The pieces intended to be soldered are fastened together with iron wire, or secured by some contrivance having the same effect. Speitre being composed of so many grains, is apt to spread when the borax boils up ; but just as it becomes fused, the workmen bring it to the place where it is wanted, by a stender iron rod. The flame of a lamp directed by a blow-pipe against the solder covering the itnended joint, which must be laid upon charcoal, is sufficient for small things For large work a common culinary fire may be made to effect the desired fusion, though a forge is still more convenient. The fire should not touch the work, nor the ashes be allowed to fall upon it.

lowing composition may be used; four parts of The softsolder melt easily, but are partly brittle silver and three of brass, rendered easily of fusion and therefore cannot be hammered. The solder

for lead is usually composed of two parts of lead prietor, have obtained letters patent for the inand one of tin. Its goodness is tried by melting vention. The wheel resembles a common overit, and pouring about the size of a crown-piece [shot or breast water-wheel, except its motion is a table ; little-shining stars will arise upon it, if horizontal ; and is propelled by the application of it is good. By diminishing the proportion of wind upon the inner surface. By this application, lead, we form what is called stray solder; we the entire circumference of the wheel is kept conmay also increase the proportion, which is advisable when we wish to solder vessels for containing acids : because lead is not so easily corroded ! or dissolved as tin.

The lining of tea-chests has been used for solder, as it sometimes comes mixed about the right proportion. These valuable portions of tea-lead may be distinguished by their brilliancy, having saffered little from oxidation; also, when they principally consist of tin, by the crackling noise while bending; which is peculiar to this metal, and some of the alloys into which it largely enters.

The solder for tin may consist of four parts of pewter, one of tin, and one of bismuth, or two parts of tin, and one of lead the latter is a composition much used.

The soldering iron of the tin-plate workers is an ingot of copper, flattened at the point in a pentamidal form, it is screwed or riveted to an iron stem fastened to a wooden handle. The copper is seldom more than four or five inches long, and when it is worn away, the same stem and handle are used for another piece. The bar of copper is prepared for use, by filing it bright, and tinning it, when sufficiently hot, it will melt and take up the solder, so as to afford a ready means of applying it to the intended juncture Powdered rosin, and sómetimes pitch, is used along with the soft solders, to preserve the metals employed from uxidation.

Tin foil, applied between the joints of fine brasswork, first wetted with a solution of sal ammonine, and held firmly together while heated, makes an excellent juncture, care being taken to avoid too much heat. -N. Y. Far. & Mech.

Wind Wheel .- On Friday last we visited a new and we think, highly valuable invention of slit out his stuff, saw out his felloes, &c., &c. Mr. A. Judd, of this village, called a "Centrific Wind-Wheel." For simplicity of construc- | tined to become one of the most valuable invention and efficiency of action, it exceeds anything tions of this inventive age. And we sincerely in the shape of a wind-mill that we have ever hope and trust, that, the ingenious inventor and the shape of a wind-mill that we have ever his enterprising pattner, Dr. Bridgman, will re-seen. The principles on which it is constructed ever that ample remuneration which is ever due, are entirely new; and the inventor, in conjunc. though not always awarded to genius and entien with Dr. J. B. Bridgman, who as joint pro- I terprise .- Alb. Cult.

stantly before the wind, the whole force of which is brought to bear square upon the lever, producing a power three or four times as great as any other wind-wheel in operation .--- What adds greatly to the value of this wheel is the fact that it is enclosed in a bui'ding, and consequently entirely excluded from the weather. This together with the simplicity of its construction, must extend its durability almost beyond the power of The building is covered with strips calculation of boards, about a foot wide, hung upon pivote, and connected with rods on the inner side like common Venetian window-shutters, and can be opened and shut at pleasure. By this arrangement, any quantity of wind can be admitted and excluded ; and the wheel is as easily managed in a gale of wind as in a breeze; and is as completely under the control of the operator, as any water-power. The building is two and a half stories high, the wheel being located in the upper half story. By opening the shutters to the windward, in the second story, and to the leeward, in the upper half story, the wheel is set in motion by the passage of the wind up through the centre of the wheel pressing upon the inner surface of the buckets. The wheel which the patentee has erected, is a temporary one, merely to exemplify the principles, fourteen feet in diameter, and seven feet high ; and produces from one to five horse power according to the strength of the wind, and propels a grindstone, a circular caw, and he intends to add a pair of mill-stones for grinding provender. It operates admirably,

What constitutes the great value of this novel and highly ingenions invention, is the cheapness of its construction, and its consequent adaption to the almost infinite variety of objects for which power is required. It can be constructed of any size, to produce from one dog power to a hundred horse power, and from its simplicity and consequent ease of management, is brought within the reach of every farmer and mechanic By its aid the farmer may thresh his grain, saw his wood, draw water for his stock, cut his feed, grind his provender, churn his butter, grind his axes and scythes, &c. &c. &c. The mechanic, by its aid can propel his planing machines, his turning lathe, his trip hammer, his circular saw, grind his bark, split his leather, saw his shing!es, grind his tools,

In fact, we can see no reason why it is not des-

A Good Bank .- We are not particularly in jummersed in the liquid. In this way but very a bank that we would vote for, the vault should be mother earth, accure and always profitable, the exchanges the transplanting of the nursary and garden, always natural and therefore aqual in value. The Jeposius should be happiness, sobriety and noble imdependence, a reliable source of investment; the assents would be smiling fields waving with golden harvests to gladden the beholders' hearts, the liabilities would be unavoidable yet agreeable indebtedness to God alone, while dividends would be health, wealth and honest joy. There is a bank worth sustaining and one that may have a million of branches and still the business would never be overdone,-Far. Mech.

" e king Cranberries .- To each quart of bernes very shortly after the cooking of them is commenced, add a tea-spoonful of salaratus. This will so much neutralize the acidiferous juice, which they contain, as to make it necessary to use only one fourth part as much sugar as would have been requi. 'te had they been cooked without using salaratus .- Mich For.

birth, who has had much experience as a practi- luck, or anything of the kind .-- Maine Cult. cal dyer, has been for three or four years past experimenting on leather. He extracts the tannin days. Some have spent much money in attempt- and where buildings join together, ing to exhaust the air after the hides have been -Prs. Far,

favour of banks as a general thing for certain rea- little effect is produced. If, however, the air is sons of our own, but we have somewhere read of first exhausted, and the tanning liquid then let in upon the hides, it will readily enter the pores of the leather, from which the air has been extracted, Mr. G. the inventor of this process, considers that tannin, in the ordinary method, crystillizes in the pores, and thus lessens the elasticity of the leather, and cuis the fibres under the hammer of the shoemaker, and under the pressure of the wearer-Fermentation destroys the tendency to crystalise. and gives a much increased affinity for the leather, Mr. G. estimates the leather made by this proces to be 20 to 50 per cent. superior to any other. S. F.

How to make Soap-First, set your tub us usual with sticks and straw, and then put your lime (slaked) on the straw, to the depth of 3 or 4 inches-then take a long stick that will come a few inches above the top of the tub-wind a hay rope around the stick, nearly its whole lengthlet the stick go through the tub two or three inches, then you can draw your lye without putting your hands into it underneath. Put your grease into the kettle, and turn in about two quarts (or enough to cover the bottom of the kettle) of your Improvement in Leather .- The durability strongest lye. Boil a few minutes, and then turn which tanning gives to leather, without destroying in a little more lye, and continue to pour in as its elasticity, is an illustration of the adaptation the lye boils over, until your kettle is about twoof our substance to enchance the value of another. [thirds or three-fourths full, when you can fill up The immense consumption of leather, and the the kettle, and after skimming the contents well, great difficulty in augmenting its quantity, renders dip out and empty it in the barrel. Put in any improvement in quality of no ordinary im_ two pounds of rosin to one barrel of soap If portance. Various efforts have been made to les- your lye is of sufficient strength, you will be sure sen the time, labor, and expense of tanning leather. to have good soap. I have heard people com-They have been successful in a degree; but I am plain a great deal that they did not have good not aware that any very decided improvements luck in making soap; but if the above directions have been made in giving to the leather any are carefully followed, I can assure them that greater durability. A gentleman of German they will have no reason to complain of poor

A DURABLE AND CHEAP CEMENT .- Take two with greater facility, and in greater quantity by parts of fine and clean ashes, three parts of pure the aid of a moderate portion of alkali. The clay, and one part of sand; mix all well together liquid tannin afterwards undergoes a fermentation, then add linseed oil, and have all intimately mixwhen it becomes ready for the immersion of the led to the consistence of thin mortar. This, if well hides. The time required for the thickest hides applied will resist the inclemency of the weather is thirty days, but by the aid of Lander's air and will be found useful to stop the leaks round pump, the time is reduced to three, four, or five chimneys, and leaks in gutters on roofs of houses, S. L.

Preparation of Tomatos.

We condense the following modes of cooking and preserving the tomato from the Ohio Cultieator, which appear to us to be worthy of the attention of housewives and cooks.

To make Tomato Omelet .-- Take a stew-pan and melt a piece of butter the size of a nutmeg. Muce up an onion very fine, and fry it until quite brown. Add ten peeled tomatos, season with pepper and sait, and sur them until cooked to a soft puls. Then stir in four beaten eggs, until the underside of the mass becomes brown. Lay a plate on top, turn the pan upside down, and the dish is ready for the table.

Tomato Mermalade .-- Gather full-grown tomatos while quite green. Take out the stems and stew them until soft, then rub them through a sieve, put the pape over the fire, season highly with pepper, sait, and powdered cloves, and let it stew until quite thick. The article will keep well, and is excellent for seasoning gravies.

French Mode of Cooking Tomatos .--- Cut ten or a dozen tomatos into quarters, and put them into a sauce-pan with four sheed onions, a little pound of butter. Set the pan over the fire, stir the mixture occasionally for three-fourths of an hour, and then strain it through a coarse sieve or colandar. It may be served with mutton-chops or a beef-steak.

Tomato Preserve .- Take good ripe tomatos, peel and boil them, and preserve them with good peeled they burst, and do not so well retain their consistency.

Tomato Catsup .- One gallon skinned tomatos, 4 tablespoons of salt, 4 do black pepper, 2 do alispice, 8 do mustard seed, 8 pods red pepper, These articles to be bruised fine and simmered strained through a hair sieve. To be stewed down to a half-a-gallon of catsup.

Succotash.

Succotash in Winter .- Take, when green, your corn either on the cob or carefully shelled, and your beans in the pod, dip them in boiling water, and carefully dry them in the shade where there is a free circulation of air. Pack then up in a box or bag, in which they should be kept in a dry place ; and succosash may be made from them These five hands will make a beautiful tumbler in as well in winter as in summer.

How to make Succolash .- To about halta pound of salt pork add three quarts of cold water, and set it to boil. Now cut off three quarts of green corn from the cobs, set the corn aside, and put the cols to boil with the pork, as they will add much to to the richness of the mixture. When the pork has boiled, say half an hour. remove the cobs and put in one quart of freshivgathered, green, shelled beans; boil again for fifteen minutes ; then add the three quarts of com and let it boil another fifteen minutes. Now. turn the whole out into a dish, add five or six large spoonsful of butter, season it with pepper to your tasle, and with salt, also, if the salt of the pork has not proved sufficient. If the lignor has boiled away, it will be necessary to add a little more to it before taking it away from the fire. as this is an essential part of the affair .- West. Farmer and Gardener.

Manufacture of Glass .--- A correspondent of the Christian Mirror gives the following account of of the manufacture of tumblers :

As the manufacture of the pressed glass tumblers may not have been witnessed by many of your reaparsley, thyme, one clove, and a quarter of a ders, I will describe it in a few words. In the first place, they have a brass mould, consisting of a solid mass, about as large over as a half-peck measure, containing a hollow in it, exactly in the form of the tumbler to be made, with a follower of brass, of the same form, but so much smaller as to fit the inside of the tumbler. When the two parts of the monld are put together, the space between them is the exact thickness of the vessel required.

In the process of manufacturing, three men aud brown or loaf sugar, or with molasses. If not two boys are required. The first thing done, is occled they burst, and do not so well retain their for one of the men to dip in iron rod in the melting glass, and move it about till he has a sufficien quantity of the fluid mass on the end of his rod; he then holds it over the hollow of the mould, and with a pair of shears, cuts of what he judges to be just enough to constitute the tumbler. Instantly the other man brings down the follower with level power. inese articles to be bruised fine and simmered and the melted glass is so compressed, as to fill slowly in a pint of vinegar three hours, then the cavity of the mould. He then turns his mould bottom up, with a little blow, and the tumbler drops red hot upon a stone table. One of the boys, with an iron rod having a little melted glass on its end, pressed it on the bottom of the tumbler, and it slightly adheres. He then holds it in the mouth of a glowing furnace, turning it rapidly, till it is almost in a melting state, when the third man takes it, and whirling the rod and tumbler on a sort of arm of a chair, he holds a smooth iron tool against the edge of the tumbler till all the roughness is removed from its edges, when a boy takes the rod from him, and by a slight stroke to the end of it, drops the turnbler, and places it in a hot oven, to cool gradually. about 40 seconds, or about 100 in an hour.

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Silver and Leud.

A very considerable item of the mineral wealth of the West, consists in the silver which is found to exist in lead. The mines of Dubuque and vicinity are understood to be particularly rich in this respect, some specimens furnishing as much as one hundred ounces of silver to the ton of lead, though it is estimated that five ounces to the ton will pay for the process of separating it.

The process of separation, as followed at the upper mines, we learn, is as follows :- A number of cast iron vessels, capable of holding five or six tons of lead each, are prepared. In these the metal is melted and suffered to cool slowly, being stirred constantly with an iron rod. As the liquid cools, a partical chrystalization takes place; this contains a large proportion of silver, and falls to the bottom ; it is removed by means of perforated ladles, and subjected again to a similar process in other vessels, while the residue in the first set of vessels continues to be heated and stirred till it ceases to chrystalize. Finally, the richest parts separated by this process are placed in what is called a cupel. This is a shallow vessel, made of bone ashes, and very porous. The metal is subjected to a high degree of temperature, and then a stream of cold air from a bellows passed over it. Oxidation of the remaining portion of lead takes place, in the form of litharge, and the pure silver falls to the bottom. The lutharage is valuable in commerce, and the lead which failed to chrystalize by the first process, is run into pigs, and is just as useful for ordinary purposes as though the separation had not been made.

entirely dispensed with. This is when it is in- milk teeth remain. tended that the entire portion of the lead shall be of air. of oxidation.

pared for commerce as litharge or reconverted into a metallic state .- St . Louis Republican.

1 20 Age of Oattle by their Teeth.

A subscriber asks, can you give me any information concerning the telling the age of cattle by their teeth ?--- say yearlings, two-years olds, and from six months and upwards.

A calf at birth, in respect to its teeth, presents no uniform appearance ? the state of these organs as in other animals, depending upon the maturity it has obtained .- Sometimes there will be no teeth? but usually it will have two incisors on the front of the lower-jaw. About the middle of the second week a tooth will be added on each side, making four; at the end of the third week there will be six, and in a month eight; which is the full complement of its temporary incisor teeth. At the end of the fourth month the two front ones will begin slowly to wear down on the edges, and to diminish in size, and assume a triangular shape till the end of the eighth month; these two will scarcely be one half the size of the others, which will be sensibly lessened. The dimunition now extends to the four central teeth, which at eleven months will be plainly separated from each other. At fifteen months the same will be true of the six contral ones, at eighteen months the whole eight will be so diminished that it would seem difficult for him to procure his food.

The process of diminution is now a little retarded and continued to the two central teeth, which waste away to the size of crow quills.

At the age of two years two plump permanent At some of the manufactories the iron pots are teeth have come up in tront, while the other six

A little before the commencement of the third turned into litharge. A large earthen receiver year, the second pair of incisors will disappear, is formed, under which is a furnace. Above the and in their place will come up two permanent receiver is an arched covering, communicating leeth, the four outside milk teeth still remaining. with a bellows, and an aperture for the free egress These latter will now diminish very fast, but will The mass of lead in the receiver is now not give way. At the age of four years there will kept at the melting point, while a current of air be six permanent teeth, and apparently no milk continually passes over it, faciliating the process teeth but if the mouth is examined the tooth that As the exide of lead, litharge-or should have disappeared, and milk tooth that is what is commonly known as dross-is formed to remain, will be found huddled together behind an aperture in the side of the receiver is cut below the six permanent ones. At the c_{e} emencement the level of the melted liquid, and the oxide thus of the fifth year the eight permanent incisors will coopes. This continued until the process of ox- be up, but the outside one will be small. When Idation ceases, and nothing but the pure silver is the animal is six years old it will be fail mouthed. left. Eventually the oxide of lead is either pre-lihat is, the incisors will be fully grown-Pro. Far-

GR'AND PROVINCIAL EXHIBITION

' OF

AGRICULTURAL, MANUFACTURING, AND HORTICULTURAL PRODUCTS, THE FINE ARTS, &c.

To be held at Caer Howell Grounds, Toronto, on Wednesday, 21 t Oct., 1846.

LIST OF THE PREMIUMS TO BE AWARDED.

CLASS A-Horned Cattle. Durhams.	1st best Mare and Foal 5 0
	2d do do Farmers' Library.
1st Best aged Bull £7 10	3d do do Diploma.
2d do do Farmers' Encyclopedia.	1st best Thorough-bred Stallion 5 0
3d do do Diploma.	2d do do Howitt's Rural Life of Eng.
1st best Bull calved since the 1st Jan. 1845 5 0	3d do do Diploma.
20 do l' do Youtt on Cattle.	CLASS D-SheepLeicester.
Jat host Come mills or is a lf	1st best aged Ram
2d do do Shipper's Frances Library	2d do do Complete set American Ar
2d do do Deland	3d do do Diploma.
let hest three wave' old Heifer in calf - 1.0	1 best Pen of three Shear Ewes 5 0
2d do do 1et & 2d rol on Brit Huch	2d do do Complete set Albany Cult
31 do do Dinlama	3d do do Diploma.
1st best Bull Culf not exceeding 1 year old 9 0	South Dames
24 do do Combendium of Cottle Med	Let hast pand Par
31 do do Dinlomu.	1st best aged Rum 5 0
1st best Yearling Heifer 2 0	2d do do Dinlong
24 do do 3 vols. American Ag.	Let hast Pan of three aged France
24 do do Dinluna.	19d do do Formard Frank
1st best Fat Bullock 2 10	3d do do Dinlong
2d do do 3 vols. Albany Culturator.	
31 do do Diploma.	Merinos or Saxons.
	1st best aged Ram 5 0
CLASS B—Herejords, Devons, and other	20 do do Farmers Library.
Improved Breeds.	3d do do Diploma.
1st best aged Buil 7 10	1st best Pen of three aged Ewes - 5 0
21 da da Farmere' Encuelonadia	20 00 do ressenden's Work on Am, Ag.
3d do do Dinlana	La do do Diploma.
Ist best Cow, in milk or in calf 5 0	2d do do Human 7 - 30
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3d do do Dinlama.	a do to Dipiona.
1st best Yearling Heifer 2 0	CLASS E-Pigs.
2d do do 3 vols, Albany Cultinator,	11st best Boar
31 do do Dintoma.	2d do do Robinson's Designs for Fi Tuil
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2d do do 3 vols. American Ag.	1st best breeding Sow 5 0
3d do do Diploma.	2d do do Farmers Encyclopedia.
1st best Fat Bulleck 2 10	3d do do Diploma.
21 do do Howitt's Rural Life of Eng.	CLASS F-Agricultural Implements.
3d do do Diploma.	1st best Plough 2 10
CLASS C-Horses	21 do do 1st & 2d vol. on Brit. Hush
	3d do do Diploma.
1st best Station for Agricultural purposes - 10 0	Ist best Subsoil Paugh 2 10
21 do do Inviden's Encyclopedia.	2d do do Farmers Library.
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3d do do Dielona	20 ab do 3 vois, Atoany Cultivator.
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Agricultural Implements-(continued.)	Domestic Manufactures—(continued.)
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with a number designating the article; Members of the Association will se upon the corresponding numbers on the cure each a Badge, which will entitle article the Judges will decide. No in- them to admission to all the different Deciation.

There will be a Dinner provided. Tickets for admission to which can be he maintained, and no pains spared by obtained from the different Stewards, or the Managing Committee to make the at the Ticket Office.

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Toronto, Sept. 1846.

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W. G. EDMUNDSON.

Whitehurch, Ang. 25, 1846.

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and Sheep Skins. Imer. She

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C. BEADLE

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F Editors of Provincial newspapers will oblige the Proprietors, by giving this advertisement a few insertions.

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