

Agricultural Department.

HINTS ABOUT WORK.

The American Agriculturist says the com mencement of a new year is the most appropriate time to open a day-book and begin to keep not only accounts, but a record of events. Such a record for the past protect of would be profitable reading now, and many hints for one's guidance would be always at hand. What a man knows is but little compared with man knows is but little compared with he has forgotten. When the year's what he has forgotten. When the year's experiences are written down and indexed at the end of each year, the needed information is ready at a moment's notice. This is the appropriate seeson for laying out plans. To have a well-digested plan is the best prepara-tion for a successful year's work. A methodi-cal man, whether farmer or not, is a man of comparative leisure, and yet he accomplish much more work than the one who is without plan of system.

The following hints about work, which are extracted from the above publication, will be found seasonable :---

should be removed from weak or fla r every storm, lest the weight should hch for them. It should be also removed from doorways and yards as soon as it stops snowing.

THE KITCHEN GARDEN .--- Manure is the k stone, the king-bolt, the beginning, middle and end in a successful garden or farm. It is the one thing of which a wide awake gardener never has enough. The home supply is usually supplemented by arrangements with usually supplemented by arrangements is usually supplemented by arrangements with stable keepers, express drivers, and all who keep many horses for the year. The farmer's garden depends upon home supplies. It is too often the case that the best manure goes to the fields, and the garden gets what is left. It will pay to give the best manure to the garden. Unless the heap is so large, that the best of its formentation will prevent freezing. It will pay to give the best manure to the garden. Unless the heap is so large, that the heat of its formentation will prevent freezing, the manure should be kept under cover. Pri-vate gardeners may well follow in some things the example of those whe grow vegetables for a living. Muck, if frozen one winter, and the stables, and if composide with lime, is useful on light lands, deficient in vegetable matter. So with leaves, which is one of those things of which the gardener can parachase to may and in some localities they never have too many, and in some localities they Used as bedding, they can vet be collected. make a valuable addition to the manure heap and mixed with stable manure, for hot-beds they are of great use. One-third leaves and two-thirds manure will hardly diminish the activity of the manure, and make it more activity of the mainte, and make it have lasting; reversing the proportions, makes a mild and enduring heat. Hot-beds, for sowing seeds, will be needed soon and as the time for making these will differ in each locality, we need only repeat the general rule that they should be started about six weeks before it will be and to add the started about six weeks before it will be safe to set the plants in the open ground.

SUNDRY MATTERS .- Look to the horses time, and keep them rough shod. See that cellars, cisterns, and root pits are safe from frost. Procure seeds for the spring, before the busy time of the seedamen arrives, when there may be delay or disappointment. Select seeds from the granary while there is opportunity to choose the heaviest and largest grain. Keep all seeds in a dry, cool place. Watch the out-lets of the drains, that they do not become closed up. Lay up a stock of fuel for the whole year, in a weather-proof shed, cut and prepared for use. Although a man's work lies chiefly out of doors, let him not neglect to give every possible aid to those who keep the house, and relieve them from work which may expose them to the inclemencies of the weather. busy time of the seedsmen arrives, when there may be delay or disappointment. Select seeds

FEEDING STRAW .-- Straw is too valuable to be used for bedding, whenever other ab-sorbents, such as sand, swamp muck, leaves, or sawdust can be procured. Horses working or sawdust can be procured. Horses working moderately may be kept in good condition upon clean, bright straw, cut and mixed with six quarts of meal daily. A feed of long hay six quarts of meal daily. A feed of long hay and oats may be given on Sundays, to save labor, and as a welcome change. Common sheep will do well fed on straw, with a pint of corn, or a quart of bran daily; the heavier bodied breeds will require a pound of oil-cake meal, or some roots, and at least one feed of hay daily in addition. Sheep are not early feeders, and love to lie late. They need not be fed until after breakfast. Other stock should be fed before breakfast. For cows

stalks, she takes with it only 4 pounds, or half a gallon of water, and the remainder must be supplied. Many poor animals oruelly suffer from want of water in the winter season, as neglect in watering is common enough, and ely to be more so this year owing to a general scarcity.

-Liberal feeding will be stock. Observe CARE OF STOOK. found of benefit to all kinds of stock. found of benefit to all kinds of stock. Observe caution with cows in high condition; as they near the period of calving, let their feed be gently laxative, and not stimulating. No corn-meal should be given to such cows. Bran is safe feed, and if there is any sign of fever, a pint of linseed oil, or a dose of salts, should be viven as a procession scale, should be given, as a precaution against milk-fever. Pure air is of vital consequence to stock con-fined in stables. Animals will maintain their natural heat better in pure cold air, than in a warm foul one.

SCRAPING and washing the trunks and larger limbs, as soon as they can be got at, will destroy many eggs of injurious insects. Use a wash of common soft soap, thinned to apply destroy many egrs of injurious insects. Use a wash of common soft soap, thinned to apply readily. The best implement for soraping off the losse bark, is a triangular plate of iron, having 3 inch sides and the edges ground. This may be fastened by its centre to a handle 2 to 3 feet long. The eggs of the tent catar-pillar may be readily seen on the ends of last year's twigs, and removed now, thus asving much work in destroying their nest next spring. Oncut ap Targa I new orthards are to be

ORCHARD TREES .- If new orohards are to be set in the spring, the trees should be ordered this winter, when there is abundant time to this winter, when there is sound a more a proper consider the matter and to secure a proper and agents, has often been given. First-alass nurserymen have a reputation which they deare to keep; they are careful not to send out any trees not true to name

CORN STALLES.—Cows will thrive upon well-cured corn stalks. As good butter, both in color and flavor, has been made in winter from color and mayor, has been made in winter from oo ws fed wholly upon out stalks, with bran and meal, as when they had the best hay. But the stalks should be cured green, and well saved. One bundle of stalks, cut less than half an inch long, will go as far as four bundles thrown whole to the cows.

DWARF TREES may be broken by mew and ice, if not logical to after severe strength in the point branches are broken, pare the wound smooth, and then cover with grafting wax, paint, or shellan varnish.

A WINDOW GARDEN.

A WINDOW GARDEN. Miss. J. C. Batcham writes to the Ohie Farmer: A few house plants we can not dis-pense with, even if they do fill up the room somewhat. The great objection I have had to them has been, that even with oil-cloth under the pots, the carpet would be damaged; but I have learned a better way, and now I wish you could see my window garden, for we give up one double window to the plants. I have bought a zine pan, four feet long, twenty inches wide and four deep, and have this put on a board raised a foot or more from the floor. inches wide and four deep, and have this put on a board raised a foot or more from the floor. Of course, if the window is single, and does not come to the floor, the pan should be smaller and raised higher. In this pan I have arrang-ed my plant pots, and all the intervening spaces are filled with rich dirt, in which are growing little fern plants, vines and little bits of moss. The pots are mostly hidden, the space is all used, the whole is more attractive, and the plants can be smithing. the plants can be sprinkled and kept more evenly damp. On the floor at the end of each pan there is

On the floor at the end of each pan there is a large garden vase of luxuriant plants, that of course did not need repotting. In fact I usually leave some of my house plants in the pots all summer, sinking the pots in the ground, and the result is entirely satisfactory. The rest of the tender plants are now put in boxes, ready to place in a frost-proof cellar as soon as necessary. A few winter-blooming plants, a sprinkling of ferns or pretty foliage plants, and plenty of vines, are what I want in the sitting or dining-room, and of course the vines are prettiest, trained all about the walls, pio-tures and windows. Of these, the English and windows Of these, the English **** ivy, which is hardy and retains its foliage in sheltered positions out of doors, is the most valuable, as it will bear more changes of tem-perature than others. Equally pretty, though not so hardy, are the passion vine and smilax. The German ivy, Madeira vine and vines are also good.

Dry fodder contains about 16 per cent (or one pound only, out of six of fcdder) of water. If a cow consumes 20 lbs. of dry, solid matter, a day, in the shape of green fodder, she takes with it 80 lbs., or nearly 10 gallons of water; if this 20 lbs. is in the shape of hay or cornin it, and a fibrous root from the oak crept in-to the seam, grew, and lifted the rock, weigh-ing over a ton, to the height of one foot. The thickest and heaviest of our Hartford flagging stones, as shown in the case of several on Main street, has been lifted out of position by the growth of tree roots; and on the corner of Main and Pleasant streets one of these roots of Main and Pleasant streets one of these roots has thrown up the solid half-foot thick flags of freestone there imbedded. Here is an account of the action of forces in vegetable growths in the case of a squash—the locality being Am-herst, Mass. The squash in the Durfee plant-house is now lifting 4,000 pounds. It is now ten weeks since it was harnessed, and something has been continually breaking loose. Fivelevers have been used, each larger then the perceding and a set of larger ions loose. Five levers have been used, each larger than the preceding, and a set of larger irons, overlapping the first, was found necessary. The leverage is a curiosity, the seven weights comprising buckets of sand, boxes of paint, an anvil, a chain, a pipe-stake, and innumera-ble other miscellanies. The vine is between 50 and 60 feet long, and this dynamic squash is the only fruit it is allowed to bear."

DWARF CHERRY TREES .- Lack of succe DWARF CHERRY TREES.—Lack of success with the dwarf pear has prevented general trial of dwarfed trees of other kinds of fruit. But the dwarfed cherry is well worthy of be-ing largely planted. It is beautiful as a shrub, in or out of bloscom; but when in spring it pope out in one rich white ball of bloom it is unsurpassed for beauty. When, again, it is studded full of scarlet fruit it is a charming object. Those who have but little space can bardly do better than to plant a few dwarf object. Those who have but little space can hardly do better than to plant a few dwarf cherries. The tree need not occupy more than a square of eight feet, allowings for inter-spaces as well as trees. They should branch from the very ground and be headed in so as to assume a globular shape. The height will be about four to six feet. The borders can be kept out by packing coal-aches about the trees and by a strip of tarred paper, occasionally renewed. The ourculio can be watched with great ease and from one or two trees be kept renewed. The curculio can be watched with great ease and from one or two trees be kept off by hand-picking. The amount of fruit will be very large for the space occupied. Success, however, will have obtained with dwarf cherries, any mere have with dwarf pears, without mulching. The best as with dwarf pears, without mulching. The best as with dwarf of manure.-N. Y. Independent.

of manure.—N. Y. Independent. APPLES FOR Cows.—There is a prejudice against isoding apples to cows which, accord-ing to the Newburyport Herald, does not al-ways had good. A writer in this journal says the will be materially benefited in fed in moderation. One experimenter gave out his small apples at the rate of half a bushel a day for each mileh cow, and reports a marked improvement as to color and flavor in the but-ter made during the winter months. Another improvement as to color and navor in the but-ter made during the winter months. Another who tried a like experiment found that his cows yielded a third more milk than those of cows yielded a third more milk than those of his neighbors, while he was suspected of using anato on account of the deep yellow color of his butter. Still another declares that older apples are worth much more for feed than for cider, and as the crop all over the country is very abundant, this year, the time is favorable for testing the truth of the foregoing state-ment. At least to it is as to try with one or At least it is easy to try with one or two animals and note the result.

AGBICULTUBAL EDUCATION .- I am not able to are what benefit agricultural colleges will be to the farming community, unless they have experimental farms attached to them, and the various questions as to the best and cheapest mode of feeding live stock, and manures and crops, &c., are solved by a series of careful experiments which farmers have not the means, time or knowledge to prepare and carry on. Students should not be admitted until they Stridents should not be similar they have sequired a good general education, and their times at the college should be devoted to special training in the theory and practice of the most improved system of farming, so that they might, when they returned home, enlighten their respective neighborhoods. their enlighten their respective neighborhoods. Merely to give a few farmers' sons a good general education, is not conferring, any benefit on the farming interest.-S. W., in Cultivator and Country Gentleman.

" Farm CARBOLIC ACID FOR HOUSE PLANTS. er's wife" writes: Several of my nice geraniums began to look sickly, and upon examination I found little worms at the roots. I applied a uegan to look stokly, and upon examination 1 found little worms at the roots. I applied a solution of weak carbolic acid quite freely to the earth, and found it restored the plants to health and beauty in a very short time. It will also kill lice upon the stalks, if applied with a swab or feather to the plants, without injuring the foliage injuring the foliage.

bodied breeds will require a pound of oil-cake meal, or some roots, and at least one feed of hay daily in addition. Sheep are not early feeders, and love to lie late. They need not be fed until after breakfast. Other stock should be fed before breakfast. For cows straw is very poor feed. WATEE.—The consumption of dry fodder makes an ample supply of water necessary for the stock. Green fodder contains about 80 per cent (or four pounds out of five), of water.

DOMESTIC.

To MAKE PEPPER VINEGAR.—Take six large red peppers, slit them up, and boil them in three pints of strong vinegar down to one quart. Strain it, and bottle for use. It will keep for vears.

PLAIN PUDDINGS .- Bread crumbled and put PLAIN FUDDINGS.—Bread crumbled and put into a pie-dish with alternate layers of stewed apples and a little sugar, when baked makes an excellent pudding, the juice of the apples making the bread-orumbs quite moist.

APPLE CHARLOTTE.—Line a pie-dish with thin slices of bread, buttered on both sides; fill it up with layers of apples, out up very small, placing a little apricot jam between each layer, some grated lemon-rind, and plenty of brown sugar; cover the dish up with slices of bread in the same way, and bake it till the bread is well browned.

BEFFTEAR SAUSAGE.—Take coarse, lean beef, with a small quantity of suet, run it through a sausage cutter, or chop it very fine-ly; add pepper and salt, make into cakes three-quarters of an inch thick, and cook as you would beefsteak. To those whose masticating powers are deficient this mode is well adapted.

OVERTER SOUP.—Take one hundred oysters out of the liquor. To half of the liquor add an equal quantity of water. Boil it with one teacupful of orushed allspice, a little mace, some cayenne pepper and salt. Let it boil twenty minutes, then strain it, put it back in the star page and add the overters. As some twenty minutes, then strain it, but it back in the stew-pan, and add the oysters. As soon as it begins to boil, add a teacupful of cream, and a little grated cracker, rubbed in one ounce of butter. As soon as the oysters are plump, serve them.

TO DO RED CABBAGE .--- Slice right across perfect ones, and put into a tray or jar, first a layer of cabbage well salted, then salt, then cabbage salted, layer upon layer. Then after draining off the brine, heat vinegar enough to over, adding an ounce of mace to each quart of vinegar and a handful of whole pepper. Just let it heat well—not boil. Then pour it Over the cabbage. When it is cool, the it up. Use white wine vinegar; about six quarts of vinegar will be sufficient for eight good sized cabbages.

GOOD CHILDREN'S CARE. -- Mix a quarter of a pound of butter, or good, fresh dripping into two pounds of flour; add half a pound of a pound of outter, or good, tread dripping into two pounds of flour; add half a pound of pounded sugar, one pound of currants, well whether and dried, half an ounce of caraway scots, a gradient of an onne of pitching spine, or allspice, and mix all thoroughly. Make warm a pint of new milk, but do not let it get hot; stir into it three teaspoonfuls of good yeast, and with this make up your dough light-ly, and knead it well. Line your cake-tins with buttered paper, and put in the dough; let it remain in a warm place to rise for an hour and a quarter, or more if necessary, and then bake in a well-heated oven. This quan-tity will make two moderately-sized cakes; thus divided, they will take from an hour and a half to two hours baking. Let the paper inside your tins be about six inches higher than the top of the tin itself. QUEEN OF PUDDINGS.—1. Soak a pint of

QUEEN OF PUDDINGS.—1. Soak a pint of bread-ornmbs in boiling milk, add the yolks of four eggs, well beaten, and sugar to taste; bake in a pie-dish; when cold, spread jam over the top, and over that the whites of four eggs, beaten to a stiff froth, with four table-spoonfuls of white sugar; put into the oven, and bake to a very light brown; flavor with essence of vanilla or lemon.

2 .-- Cut stale bread into slices, butter them, 2.— Cut stale oread into shoes, butter them, and lay them ina pie-dish; sprinklethem with a little brown sugar and a fow currants. Re-peat this until the dish is quite full; then pour on the bread boiled milk mixed with one up egg, until the bread is soaked; bake it light brown. You can make a still plainer bread-pudding of odds and ends, when too stale to use otherwise, by soaking them in skim milk, then beating the bread to a pap, adding a few currants, and a little brown sugar, and boiling in a cloth. Or another very palatable and economical pudding may be made as follows: —Boil the pieces of bread, crust and orumb together, until so soft that it can be beaten up with a fork; add a little chopped suct, some skim milk, and a few sponfuls of molasses; put it into a pie-dish, and bake it brown; leave the top of it quite rough, or soratch it rough with a fork.

3.--Put the scraps of bread, crust, and crumb, into a basin with sufficient milk to cover them well. Cover the basin with a saucepan-lid or a plate, and put it into the oven to seak for about half an hour. Take it out and mash the bread with a fork till it is almost a pulp; then add a handful of raisins, and as many currants, a teacupful of brown sugar, some candied lemon-peel, and one egg. Stir it up well, grease a pie-dish, and pour the pudding in. Grate over a little nutmeg, put it into a mo-derate oven, and let it bake for an hour and a half or two hours. Cover the basin with a saucepan-lid or well.