

most experience in growing wheat, pany visit the vegetable garden, and to the perfect blossoming and ripenfind that it is more prolific on poorer examine the state of the cabbages, ing of grain.

land, deeply tilled, than on richer onions, squashes, beets, potatoes, &c. land, shallow tilled; so that it is the Questions and answers pass as to the subsoil that wheat roots feed on, and best ways of killing the pests, the als of which fully ninty to ninty-eight foot) it is time to plant corn. The national) feast of Thanksgiving, and into the best of plant food. Organic one, it is on the surface that grass feeds. maggots, and vine borers that destroy Hence the patent advantage of seeding the squashes, and Colorado beetles only the two to eight per cent. of tying long stretches of twine to posts There is a wintry roar in the wind. down with wheat. And again : wheat and worms that play the mischief mineral matters which remain as will stand up when oats want to lie with the potatoes and cabbages. From ashes when they are burned, and the them.

one half to two per cent. of nitrogen down on seed. What is wanting the garden the company pass to the which they also contain."-American to ensure a good yield, is to plough outbuildings where the agricultural Agriculturist.

MIXED FOOD FOR STOCK

deeply. Give the team two or three implements are kept, where they disquarts of oats more aday, while plough-| cuss the merits of the several ploughs, ing in the fall especially, and on land the Randal harrows, smoothing drags approaching to clay, which is the best corn and vegetable markers and cul-A correspondent of the Country wheat soil. After ploughing not less tivators, &c.; and then in the waning than ten inches, it will pay 100 per afternoon the visitors and outsiders subject :--

cent on the cost, if the ground is hold an open air meeting of 'the club' drilled as high up as possible, in order beneath the trees of the old homestead, that the action of the frost may pul- at which the speakers, with all due verize it, and prepare it well for the compliments to their host, remark at reception of the seed, and its growth all they have seen and learned on in spring. their tour of inspection.

It must be encouraging to young The merry-making and bees "which farmers to think that now-a-days they used to be" in the olden time so can raise their own bread, not being frequent on the farm have fallen recessitated to buy it like a dependant greatly into disuse. The "field meetmechanic, but like a real farmer, raise ings," where business and it for sale to supply the wants of those pleasure are combined, seem to suit who need it. well the graver and more anxious

Next to wheat the cultivation of the spirit of these modern days. Might turnip, with its deep-feeding, search- not the custom of holding them be ing root, and subsoil proclivities, profitably introduced among the memshould engage the attention of the bers of the different agricultural

tion and growth,

PLANTS

THEIR SUPPLIES OF FOOD.

OBTAIN

farmer. The turnips call for deep societies of the Province? ploughing, and must have it, on most lands, before it will yield a paying WHENCE crops, with little manure. Artificial manure, as it occupies small space and does not invite drouth like barnvard manure, is best adapted for this root. The drills must be quite flat to encourage a good yield, six hundred bushels per acre, say. Any ambitious boy can thin out a quarter of an acre per day, of ten hours, after the cultivator leaving the drill on top about

five inches wide. There are more turnips lost by overwarm than by overcool storage. Yellow turnips are of a much warmer nature than potatoes; and are by horsemen considered better feed than carrots. For many horses standing idle, a bushel of turnips is as good as a bushel of oats. But the turnips

must be raw; if they are boiled, or

To sum up in a few words: "Air When its eaves are as large as a house have gathered from far and near ear (some say a squirrel's to hold the New England (now the and water together vield the materi-|squirrel's

during which it was considered right and proper to take a holiday. The

boys and him go a fishing; the older folks would go a visiting. Modern improved agriculture Gentleman writes as follows on this It is just then "that the bus

turnin-culture begins in earnest Th Cattle, in a state of nature, or if left land must free to their own choice, will feed on and ridging up. All things must be ed as to believe that labor can never put in readiness for sowing, that ad a variety of herbage. It is well, vantage may be taken of herefore, for farmers and stock raisers favorable weather about the middle of to take hints from the natural taste of

provide accordingly. Very many, I this outline of the farmer's year, that They do not see that under the pream pleased to say, do thus provide a the course of events has abolished sent condition of things a large part variety of food for stock confined to nearly all the holidays and merry- of the earnings of labor is devoted to the stable or yard; and where this is makings formerly indulged in by th practiced, thrift, health and comfort agricultural community. During the the payment of interest and taxes. of the stock is general, to the advantquiet age of the owner. Without doubt, the path-master was wont to warn out the goods they would be glad to have. good hay is one of the best and most economical kinds of food in our north- the farce termed by stretch

ern climate, as it contains the different | road-mending." elements of nutrition in nearly the was to "make good roads bad, and proportions required ; and when land bad roads worse." This old custom many shoes in a day as fourteen men is cheap and labor comparatively still prevoils in Canada equally with used to in the same time. Then they Hence the amount of nitrogen it can to advantage in raising pigs, and dear, and especially w ere the soil is New England, and our readers will they say thirteen men must remain

most economical food for general use. perceive the sarcasm of the following But we find exceptions to all general sentence : "It is fortunate for those rules. Working animals require some- who travel much upon the high ways, creased facilities which have reduced plied to plants by the natural decay is above suggested, fed liberally, and suckling by the side of its dam. It thing in addition to hay, as do milch that these road-menders do so little, the price so poor people are not now cows and other animals, where great- playing at est returns are sought. Something stopping,

Plants get part of their food from containing more nutriment in smaller compass, admitting of more rapid di- concerning the mode of doing the air, through their leaves and gestion, is wanted. In such case an part of their other green parts, the rest from the ecominical food consists of chopped the watering in the soil through their roots. This was hay, straw or chaff, or some kind of side tree, and spending an unconscion- And so it is in all departments of laproven by a vast amount of laborious meal. Chopped roots mixed with able time in quenching their thirst. and accurate experimenting, carried these other articles, add much to the lighting their pipes, and joking or value of the whole and this is fee on for the most part in European more economically if steamed, or if hood go-sip.

experiment stations, for the purpose Corn-hoeing is on, the long suffer steaming is impracticable, if pressed of discovering the laws of plant nutri- into some confined space, as a ing boy bestrides Old Dobbin, and close box or cask, a day or two guides him he drags back and forth the plough or want of means to buy, Water .- Plants have the power of before feeding, to allow of softabsorbing water through their leaves, ening and partial ferment. Straw cultivator, held, most likely, by one and meal are found adequate to supply too apt

but the bulk of their supply comes, the needs of working animals. Grain misstep of the and must come, from the atmosphere alone is insufficient, being too much beyond resurrection, a hill of corn. It to the soil, and thence to the plant condensed; coarser food being essen is my opinion that to this first odious

per cent, of crops is built up. The finishing touch is given to the job by have dispersed. The last wedge of matter must be always at command soil has to pive for their nourishment setting up a grotesque searcerow, or wild geese has cloven the cold sky. in the soil, and there is no better way ers should have a mixed diet-plenty and hanging bits of glittering tin on swept hills, and as the first snow. flakes and the last sere leaves come Formerly there came a little lull in eddying down together, our year of work between planting and hoeing, farm-life ends.

OVER PRODUCTION.

Many are complaning of over pro luction, and erving out against all kinds of labor-saving machinery as the cause of the present stagnation of

have its final ploughing business, and some are so short sightagain be so fully employed until the machinery, to which they abscribe the different animals of the farm and June. It will be seen in the course of their ills, is put out of existance. 'breathing-spell" just referred to, consequently cannot be used to buy "all hands" to "the performance of In support of the theory, among other things, it is said that with improved machinery one man can make as

adapted to grass, hay is, perhaps, the smile as they recognize the truth and idle. This is not the fact. The demand has kept pace with these inreduced to the shifts they once were out. The work done with sewing ter, and partly by the union of oxygen steady growth. machines is immense, and vet there shade of a way is as much hand sewing as ever. in the air.

bor: as labor-saving machinery in-

through the roots. keeping the digestive organs and the boys of my generation, is due the How it is possible for any human edly to the same land. In the absence ever purchasing one that had been when the colt is perfectly familiar Organic matter .- Carbon, oxygen, bowels in good condition. Straw, also falling into disuse of equestrianism in being to assume such a thing as a of humus, no vegetable fibrine or " fitted for the fairs."-Live Stock with all the suroundings. When it and hydrogen.-The carbon of plants contains phosphates in considerable New England. Who th well scalded, it will make a difference mystery. It is hardly possible to find vegetable caseine can be formed- Journal is taken fron the atmosphere. The proportions, so essential to supply ridden a horse at snail's pace among man women or child that has enough Alkalies, with animal manures, have leaves absorb carbonic acid, and with osseous materials for the wasting the corn-rows in the lazy days of early summer, when he knew he ought to of everything. The great mass of the the power to form nitrates and become SPADING HEN YARDS .- As often as and care to avoid giving fright, should bones. the aid of light wrests its carbon oxy-The chaffing of hay or straw makes be catching the fish or hunting the people would gladly double their con- very effective. Peat has the power once a week, through the hot months be practised. Place portions of the gen asunder, setting oxygen free, and quite a saving of waste in more than birds' nests he was dreaming of it sumption if they could. Very many to form alkalles, and this power is of of July and August, it will be found a harness on him at a time, and let him thus purifying the air, while they reone way. The waste caused by drag- ster d of being a clothes-pin to the thin good plan to dig over and turn up carry it in his stall until he finds that would gladly consume more food, and great service. tain the carbon. Carbon unites with ging from the feed box and soiling blanket on Dobbin's sharp back, and most people who have food enough Dr. Dana says that one cord of the soil, spade-deep, in the earth floors it will not harm him; then lead him byddrogen, oxogen, and nitrogen, to and trampling under foot, is saved, the mark for the sharper tongue of of your fowl-houses, as well as through out with the harness on, alone, and while time and strength are saved in the plough-holder, would ever, of his would be glad to improve its quantity. fresh muck will neutralize one hunmake up the various tissues of the mastication, and more time is had for own free will, mount a hores? I can There is hardly one person in a hun- dred pounds of soda ash; and that the runs about the outside of the poul- again by the side of another horse, plant, the root, stem, leaf, and seed, digestion and assimilation. Cooking speak for one. Happily this particular dred who would not double his con- one cord of barnyard manare will dethe wood and bark, the gluten, starch, also develops the nutritive matter of boy-torture has gone out of fashion, try quarters. sumption of clothing, and more than compose from three to six cords of sugar, and so on. The atmosphere the feed, saving the animal system and in the tillage of hoed crons as in supplies carbon far in excess of the this labor which is more economically hay-making, the horse is guided by double his supply of furniture and peat. One dead horse well covered demands of plants. The best experi- expended in ordinary work, or other the man who cultivates or rakes." Not articles of personal use and adorn. with peat, will convert fifteen or productions. Whatever cutting, bruis- only was this old-fashioned plan a ment, such as watches and jewelry twenty tons of peat into a manure ments indicate that the carbon is all, ing, grinding, cooking or fermenting species of "boy-torture," but it entail- if he could afford to do so. There are equal to the average from the stable or nearly all, obtained from the air. food is practicable-and where is it ed much needless toil on the horse. It very few people who would not be for it will separate nearly all its The source of the oxygen hydrogen not in some of these ways?—they all only requires a little careful training glad to spend more than twice as introgen from the other constituents, is not definitely settled. It is very tend to fit it for a rapid digestion and to make a steady horse trusty in doing much as they do in building dwellis not definitely settled. It is very tend to fit it for a rapid digestion and to make a steady horse trusty in doing this work, not only without the punish- ings and improving their surround- and hold it in a heap. He thinks, assimilation. probable that the water absorbed ously. In adopting a mixed food much of ed boy-rider, but even without reins, ings. If it were possible for once to also, that the salt contained in one through the roots is the main, if not the coarser products of the farm can As turnips and other root crops re- fully satisfy the wants of all men, cord of peat are equal to the dropor four times a month, will clean the breaking the most fiery tempered be worked up, which now go directly quire the same culture between rows, new wants would arise, impelling to pings of a cow for three months lhe entire source of supply. and, by anylisis, they are found to premises under foot, and render the colt.-National Live Stock Journal. The farmers of New England have Nitrogen .- Our cultivated plants get to the manure heap. Scarcely any of it is well that the importance and further industry. All the manual a custom of holding, what are called the bulk of their nitrogen from the the vegetable products of the farm practicability of thus training horses labor of men, supplemented by ground healthier for the stock to wanall the aid he can possibly derive have the same chemical qualities need be wasted till they have first should be understood. contributed all the nutriment they The disuse of "bees," formerly so from machinery-from the force of excepting that there is less actioning whether it is an universal custom of labor of the best investigators, and contain to the support of animal life. common for logging, barn-raising, nature reduced to service-will never and odor in the peat or muck. there, it is, at least, in vogue in Massa- many thonsands of dollars, have been True, by mixing them with the sheep shearing, and other objects, is be able to satisfy his wants. It is the In his concluding summary on the chusts. The members of a farmer's devoted to the study of the sources of manure they afford whatever of value one of the characteristics of the pre- very fact that human wants are not wheat. And in this way you may self. This being second, third, fourth club, will, on invitation, during the the nitrogen of plant food. The theory they have to the next crop, when sent as compared with the past of supplied -that production is not equal valuable properties of peat or muck incorporated in the soil; but what an New England farm life. It is the to demand-that imperils our labor Mr. Fuller says : " Decomposed with harvesting season, visit the farm of that plants avail themselves of the absurd waste to undergo the labor of same in Canada. "These jolly gather- reformers to write essays, and make animal manures it is undoubtedly one of their number, and walk over free nitrogen of the air, of which there producing for the use ings, though by many years out living speeches in favor of reducing the an admirable manure; especially for the fields and inspect and critise the are thousands of tons over every farm, of the stock what we have already se- the old-fashioned husking-bee, have at hours of labor. They have not enough high lands, or sandy, gravelly, or growing crops, and the methods of must be regarded as wrong. The cured ! Straw and hay often are use- last fallen into disuse, and their hearty themselves, and they see others about loamy soils. In fact it is good on any culture pursued. Pleasure and busi- theory that plants in general, and ful for absorbing and retaining valu- New England flavor is poorily suppli- them who have not enough themsoil. It is valuable as a great retainer plucking the feathers from her more you can soon know as much as any able portions of animal excrement ed by the insipid sociables and abomi solves, and they see others about them and feeder of these; it is valuable as a docile companions' necks.-Poultry one. Let no day pass without some ness are combined. The guests, who the "large-leaved plants in particular, which often are left to waste; and nable surprise parties that are now in who have not enough, and they imhave travelled a long distance on the as clover, turnips, corn, etc., obtain a where this is the case, they are valu- vogue." constant collector and renewer of sup- Yard. agine that somehow they and these plies, and as a great assimilator of various lines of railway by which good deal of combined nitrogen able for enriching the soil far beyond It is worthy a moment's reflection others can get enough by assuming plant food." their destination can be reached, are (ammonia and nitrates) from the air the materials they naturally possess- how much the tendency of things has that there is two much in existance, but why allow this waste at all when been of late years to increase the iso- and thereupon producing less. Anything about dog days is appropo be killed when they are in the coolest fast as your means will admit. Whatthere are so many substitutes for straw lation of farmers and their families. by the good ladies of the homestead. The gain of nitrogen from this source available on nearly every farm? Other Formerly, hay-making and harvest that things are not produced in due now; An exchange says : The real trouble is, briefly stated. By the time that they have finished seems to be very small indeed. The means can be provided for saving the were occasions for comparatively proportion. Relatively too much of "Dog days were so named because active. Their flesh will then keep and study how to improve, how to

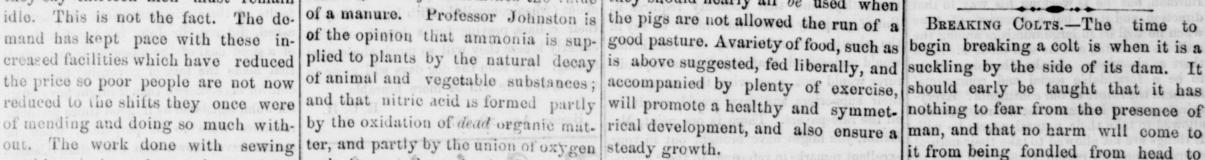
winter weather, and all and not too much flooded, it will re- poses, or to be kept to mature age be in the speculation, and the benefit it the sons and daughters of the old tain its tannin, nitrogen, and fertiliz- fore being fattened for pork, such has been to them. The Maryland ing salts, which may be converted course will not prove a profitable Farmer puts it in this way: "If farmers who think poultry does not pay, would give their feathered stock Pigs that are to be kept for breed to their sons or daughters, with preof supplying this organic matter than of bone and muscle-forming foodmission to enjoy and own any profit by mixing peat with animal manures, and ample opportunity for exercise that might accrue from them, they These manures not only tend to If permitted the run of a good pasture is something in it." There certainly modify the mechanical texture of the (clover is the best), a moderate supply is no more health promoting exercise soil, but they furnish carbonic acid of corn will do them good, and aid in that that affords by caring for, or and ammonia, or nitric acid, and the promoting a healthy growth ; but if earthly and saline compounds required the circumstances of the breeder are poultry, and if the flock is any of the by plants. They assist in the decom- such that he cannot have the benefit pure bleeds-there is in addition to position of the vegetable matter, of pasture for his pigs, then he must the exhilarating influence, an enthuwhile the absorbing muck seizes and endeavour to supply a substitute by siasm that causes what might otherretains all the volatile parts, one-half using a variety of food-such as skim- wise be considered a task to become or two-thirds of which might other- ed milk, wheat middlings, ground a pleasure- and therefore profit and wise escape. It has been estimated oats, mixed with oil-meal occasionally pleasure are combined. A young that one cord of animal manure, pro- A most excellent food may be pre- lady in Bethel, Pa., during the year perly composted with muck, will paired by mixing six parts of good of 1874, kept a strict account of all

make four times its original value in peas with five parts of good corn-expenditures for food, etc., for her meal and one part of oil-meal; or the yard of fowls, and at regular market As ammonia is the natural food of peas, corn, and flaxseed may be cook- prices for eggs and chickens and she plants, the best manure is that which ed, and fed without grinding if desir- cleared above all expenses \$300, bewill produce and retain the greatest ed. Oats and peas ground together, sides having more stock on hand than amount of nitrogen, which is the base and cooked, make an excellent food. she started with, Is not this an inand principal ingredient of aminonia. Cooked potatoes, mixed with corn- centive sufficient to awaken an in-If nitrogen is furnished in the solids meal, and make a good combinationthe atmosphere will supply the hy- in short all the various grains and ers of the farmers in favor of gallinadrogen needed to form the ammonia. roots raised on the farm may be used ceous stock? It is certainly worthy furnish, mostly determines the value they should nearly all be used when of emulation."

BREAKING COLTS .- The time to it from being fondled from head to and nitrogen through the electricity Such a course of feeding as over- foot. A very little pains at this per-

loads the pig with fat, or forces him jod will soon make the colt perfectly The humus of peat is continually to an unnatural growth, is quite like- gentle, and he may then be broken to

decaying, and is thus continually ly to result in loss of the reproductive lead by the halter, and to stand when discussing some matter of neighbor- creases the facilities for production, forming carbonic aci.; it is also tak- powers. Great disappointment has tied. All his subsequent lessons prices are reduced and the wants of ing up nitrogen from the air and often resulted from the purchase of should be by gradual approaches; the people multiply, and the present converting into nitrie acid and am- unnaturally forced pigs at fairs by in- the main point being to inspire him apparrant over-production is but the monia. It gives warmth and porosity experienced breeders. The writer with confidence that he will not be to the soil, and supplies it with soluble himself has bought his knowledge harmed. He should be accustomed All the talk about prosperity by materials; while the insoluble earths dearly-having on several occasions to the bridle by no means of the "bitame the boy for every doing less work, arises from the are consumed by the acids, and there- paid extravagant prices for premium ting rig" before any attempt is made horse, which buries, assumption that too much is produced by adapted to vegitation. Nitrates, pigs, and found them utterly sterile- to ride him; and the mounting should -that there is too great an abundance and other salts (without animal and long since adopted the practice of always be made by "gradual aptial for distending the stomach, and compulsory equitation entailed upon of exchangeable and useful products. manures,) must not be applied repeat- requiring a special guarantee when- proaches "---in the stall or the the lot



For the " Agriculturist."

A subscriber in Upper. Woodstock desires information on the following matter; will some of our readers be so kind as to give the needed advice? He writes :--

"Could you or any of your readers inform me what to do with a valuable mare, seven years old, by way of a cure. She had a colt two years ago, which died when three months old. Ever since the dam has milk in her bag. Last spring her milk veins broke out in scabs, but they are now healed over. The mare has a beautiful coat but it has lately faded."

FIELD MEETINGS.

"field meetings." We do not know soil, through their roots. Many years received with bounteous hospitality by their leaves, is hardly tenable. the bounteous mid day meal, and feel most of the nitrogen of our crops is manure, and the stock can be kept social gatherings. What with change some things and too little of other the season of greatest heat in summer much longer fresh, and be more beau- market it so as to get the highest

like giants refreshed, friends and got from the soil through the roots. equally comfortable in their stalls of work, and the eng and beds. neighbours of the host have assembled The soil gathers some nitrogen comuntil there is a goodly gathering. pounds from the air, however, and it

The farm to be inspected, is, of is extremly probable that it assimilates stock before cold weather, and by fol- Machinery has done away with all depend wholly upon their personal antiquity ascribed a malignant infiu- flesh will take longer to cool through, fourth or at the foot. -Rural World. course, operated on by a farmer who free nitrogen, and thus, in two ways, lowing out some of these suggestions that. The mower or reaper is used to efforts cannot find employment at ence. The precise time when the dog spoil sooner, while the flesh and fat has pride in his calling, and who bears stores up atmospheric nitrogen for much may be added to the value and cut so much hay or grain as can be good wages. Every man and women star rises with the sun is very inde-will have a dark, feverish look, caused ing to the Guelph Herald, to be set in has pride in his calling, and who bears stores up atmospheric nitrogen for the reputation of being a man of pro-plant food. The nitrates in the soil, is what most farmers work for—would by being farmers work for—would is what most farmers work for—would employed on the farm. "Bees" are gressive ideas, who has always some formed mostly from the decay of it not then be wise to add to it by things of the past. Threshing is al- out "gorging" the markets, if only he heat of summer is over. Dog days not be so inviting in appearance, or the north of Wellington. We wish experiment on hand; who pursues vegetable and animal matter, are the adopting economical courses ?

There is still time to prepare for a the most part, acquaintances who came duction is arrested. It is because the dog star rose at the same time

greater variety of food for the farm together in force at such times. production is arrested, that men who with the sun. To this conjunction mediately after a hard drive, the the head of the class, not third or

most the only job that brings a num- or she knew exactly what to produce. end Sept. 5th."

also in harness. Accustom him per-This easy process affords means for feetly to the use of the lines, then let exercise again for the birds that are him make the acquaintance of the limited to contracted space. A great acquaintance of the sulky, and push number of worms, grubs, etc., are thus it after him, until he has found that brought to the surface, which the hens it also is harmless. By pursuing this and chicks will devour greedily, and system of gradual approaches with they will search for these vigor. perfect gentleness of manner on the part of the groom or other attendant, This method, if followed up three there need never be any trouble in

is desired to break him to harness,

the same principle of gentleness, and

STAND AT THE HEAD .- Young man, der over. Before the earth is thus if you are going to be a farmer, be a loosened and mellow, scatter whole good one. Don't play second fiddle grain over it-oats, barley or whole to any one, be the chief musician your-

keep the strived up fowls busy, affords or fifth rate is not just the thing, It them needed exercise, purify the is the first that always wins esteem earth under their feet, and prevent and respect. Study, observe, listen many a viciously-inclined hen from and gather information pertaining to acquiring the troublesome habit of your business from every source, and increase of knowledge. Whatever stock you have, let it be good and All meat-producing animals should take good care of it and improve it as state, or when respiration is the least ever fruit you have, let it be choice,

ent of spare things is produced. The result is in the latitude of the Mediterranean, tiful, sweet and healthful. When price, If you have a garden let it be anges are clogged, and pro- nearly correspond with that in which killed in a heated condition, or im- the first in the heighborhood. Be at

so healthy as food.

operation this spring in the country to them every success.