## FOR FARMERS AND GARDENERS.

T. O. C. State of the second

At Mr. W. C. Staines' gardens, while on a visit there a few days since, we noticed two splendid Double Roses-one crimson, the other redtruly the most grateful to our senses of anything we have yet seen, in the floral department, since our residence in the mountains. We were informed by Mr. Staines that he designs propagating these delightful flowers, by budding on native stocks.

We also had the pleasure of tasting his new seedling Strawberry-alluded to by Mr. E. Sayers, in another column on this page-which, we must say, cannot be too highly recommended, as possessing flavor and other desirable qualities it grew, which, without any preparation, was berry belongs to the stock of the old English far surpassing any strawberry hitherto cultivated precisely such as the nature of the grape re- Dine, which it very much resembles. The fruit was but one highly distinguished strain on the turf: and in this Territory, and which will not soon, if ever, quired. Almost any person can readily form an is large and handsome, of an oval form, and when that strain, the stallions of that family were almost exbe excelled in the valleys of the mountains. Mr. Staines designs to dispose of a few hundred at a moderate price, for the purpose of more generally kinds of offal of animal and vegetable substance will compare, in point of flavor and bearing, with introducing this choice variety-which should, as soon as possible, supercede all other varieties, now in cultivation among us.

Melon and cucumber vines, in the gardens of Mr. Staines, have attained greater perfection versed to this source of nutriment and was fed than we have yet seen the present season-with the exception of those in the garden of ex-Gov- temperature was nearly always the same. Sun, ernor Young.

take pleasure in beholding many of the rich and varied vegetable productions which have, with in- be fed in the most natural manner. cessant labor, been successfully cultivated here, will most amply repay the time that may be occupied therein.

concluded in our last number, on "How cane su- ing to its being treated in such a mode that 25 cents; five copies for \$1, eight copies for gar is grown and made" is worthy the attentive nature was in every way assisted. perusal of all. The routine of work on southern plantations is not generally familiar to those who without restraint, or being cramped into the un- son getting up the club. We notice that C. W. have been raised in the northern States, or who come from foreign countries; the article will therefore possess much interest to them. To those of our community, however, who cultivate an unnatural flow of sap, so that the wood could the sorghum variety-though the cultivation of not be matured in a firm and healthy state. the southern sugar cane is quite dissimilar, in most respects, to that of the sorghum-the article will be of peculiar interest, as not only evi- healthy wood; hence, there was a continual supdencing the simplicity of sugar making when reduced to a system, but also affording data from which may be gathered hints applicable in sugar making from the sorghum cane.

Although all the efforts thus far, in this Territory, to manufacture sugar, have proved utterly fruitless-notwithstanding the aid of approved and powerful machinery-we are not the less sanguine of complete success in sugar making, when the work is systematically entered into, upon common sense principles-regardless of the circumlecutive notions of would-be scientific men, who were better versed in their own vague theory than in anything that pertained to the practical business of sugar making.

The Black Walnut tree, says the Genesee Farmer, is one of the most "beautiful, ornamental and useful trees" that grows in this latitude. It is a native of America and, on the banks and islands of the Ohio river, they may be seen from three to six feet in diameter and from sixty to eighty feet in height. Mr. Eleazer Miller, 12th Ward, has one black walnut tree, now in bearing. We believe there are also one or two elsewhere in the Territory.

This tree is a rapid grower, seems to thrive well here and is valuable for its excellent wood as well as its fruit and, in our opinion, no tree is better suited to shade and adorn public streets.

where the shade of his black walnut trees fell, ing to make trees bare prematurely, has a tenduring any portion of the day, his peach and cherry trees had invariably been destroyed, while others adjoining, not so shaded, grew well.

If the shade of the black walnut is thus fatala new idea tous, we confess-care must be taken, when they are set out, to place them where they cannot shade those varieties.

Since writing the above, we have learned that brs. Levi Jackman, of the 16th Ward; Charles Cowley and Charles Lambert of the 7th Ward, also have the black walnut tree growing in their seventy feet, with a stem some fifty years old, gardens. mmmm

the Present State of Horticulture in Utah," covering its top with young branches. printed in number 14, under the sub-heading "Its Annual Yield," fourth line, "twenty thousand pounds" should have read "two thousand grape at the dessert. The bunches are well letters from some of the most intelligent practical breedpounds." In the last line of same paragraph, "eighteen pounds of grapes" should have read licious, vinous flavor and are remarkable for eighteen hundred pounds of grapes."

~~~~~ Green Peas are becoming plentiful. Also early turnips.

[For the Deseret News. A Treatise on the Present State of Horticulture in Utah.

BY E. SAYERS, HORTICULTURIST. NO. 5. LONGEVITY AND FRUITFULNESS OF THE GRAPE VINE.

The Great Vine of Hampton Court.

[Continued.]

After giving the history and manner of culture treating the vine.

## Cause of its Great Success.

It will readily be seen that the success of this first plants, which were set out last August. vine has been in part owing to the soil in which | The bed is now in full bearing. The strawidea of what compost an old choked up drain ripe, of a dark red color and a fine, rich flavor. contains, which is nothing more or less than the | I am really glad that Mr. Staines has been sucsition.

## Natural Food, Heat, Air, &c.

penetrated under the wall of the house and trafor a number of years on this aliment. In this ard strawberry, adapted to the valley." instance the roots were also in a place where the air and water was in a measure excluded from al decay and preparation, so that the vine might

## Recapitulating and Concluding Suggestions.

In closing these remarks the reader may readily discover that the principal cause of the vine

The vine was allowed at the first onset to extend its luxuriant branches to the full extent natural forms of hoops, &c., to check a free and (H?) Oliphant, G. S. L City, Utah, gained the natural flow of sap in one year and in another, all the branches cut down to the trunk, in order to throw out rank, succulent shoots, and cause

in close, to keep up a succession of young and ply of sap flowing to every part of the vine in the wood, and the vine was by this means more capable of producing regular crops of fruit than if it had been pruned down every two or three years to its trunk.

Every precaution was taken against the inroads of insects, by keeping the leaves and wood in a that the leaves and young summer wood was regularly distributed, so that every part might have its due share of sun, air, &c.

Indeed, everything was always done to give

health and vigor to the vine.

Before closing I will now say a few words to the general reader, as this article was partly this vicinity, by the strong easterly gales of last as to whether I had ever cultivated the grape. What has been written may serve to answer.

Respecting any opinion I may have to advance on the culture of the vine, I will here say that, in my judgment, the system which has been given is the only true way of culture that can be practiced to bring a vine into a proper size and healthy state.

The cutting down grape vines to a stump every last year. year and twisting the shoots into hoops and all manner of forms to check a regular flow of sap is not only artificial but unnatural; when every gardener and vine dresser well knows or should know that the true system of pruning and cultivating the grape, as well as every other vine or fruit tree, is to assist nature by applying every judicious means of art.

It is much to be regretted that, in the present enlightened age of horticulture, the cramping trees into a dwarfish, pigmy state is often follow-A writer in the Genesee Farmer states that, ed; which, with the unmerciful manner of prundency to bring trees and vines into a weak, sickly state. Instead of this, trees, vines, &c., should be permitted to spread their natural, free born limbs to their full extent and vigor.

It is really surprising that cultivators in the Western States should adopt the system of cutting down the grape vine every year, like a raspberry bush, while its natural growth at once shows, by the wood dying down to the ground every year after bearing, that the object of the pruner should be to prune out the old wood; but let any cute observer go into the western forest and he will there find the native grape clinging to the top of an old oak or other tree, from fifty to clinged to the young sapling oak and grew with Errata .- In article No. 4, of "A Treatise on its growth, always having the ascendancy by of the disputant.

> formed and the berries, when well ripened, are ers of the Race-Horse-from all of which I conclude. of a fine, rich, dark purple color, possessing a deleaving an agreeable flavor on the palate for some time after tasting the fruit.

best connoissenrs of the grape-who, after par- close breeding, but the contrary.

taking of the rich, musky, flavored varieties of turn to the old black Hamburg to finish their (the 1st to Anne's reign. dessert-to enjoy, as it were, the last relish of the grape.

Staines' Seedling Strawberry. - Relative to this fine strawberry, we have been favored with | So much for the general facts of the stud-book. Now for the following descriptive notice, from the pen authority and special proof. of Mr. Edw. Sayers:

"By the politeness of Mr. W. C. Staines I had of the old Hampton Court grape vine, it will be the pleasure of seeing a new seedling strawberry well to make a few remarks on the manner of at the garden of Mr. W. Woodruff, which far surpasses any strawberry I have seen in the valley. This strawberry was raised from seed by is to combine DIFFERENT STRAINS, and of these strains Mr. Staines, who furnished Mr. Woodruff with the

sediments from sinks and other places, where all cessful in producing so good a strawberry, which Fresh importations of English blood came to our relief, were collected, going into a state of decompo- the best varieties of strawberries of the present

The plant is dwarf and compact and well The roots of the vine, by instinct, as it were, adapted to this locality, and will doubtless become a universal favorite. Indeed, it is doubtful whether it will ever be surpassed as a good stand-

The Genesee Farmer for May came by last Eastern mail. About one hundred dollars is of-A visit to these gardens by those who would acting too powerfully on them at any time, and fered in cash premiums, varying from one to where the components were going under a gradu- twenty five dollars, to be awarded to those persons who obtain the largest number of subscribers, the next largest, the third largest, and so on to the twelfth-for the half volume commencing with July. The Farmer is also offered, during the growing to so large a size and continually yielding last six months of the present volume-July to The Article from the American Agriculturist, so good a produce, was, in a great measure, ow- September inclusive—to single subscribers for tains my theory with regard to the race-horse to the ful-\$1 50, sixteen copies for \$3; and a copy of Rural Annual and Horticultural Directory to the perseventh prize-\$14-for forwarding, previous to April 15, sixty five subscribers.

> As the main branches of the vine extended, them, says Sir George Stephens, "do it in the care was taken to lead off lateral shoots, spurred morning." He thinks it is unnatural and absurd to wash a horse's legs, when he enters the yard, immediately after being heated with exercise. growing season and, as the leading branches They should be rubbed down with straw and a grew old, they also became firm and solid in dry brush and next morning washed clean with soap and water. To pick and wash the soles of a horse's feet in the evening is beneficial. mmmm.

> Farmers and others, in any of the settlements, who wish to obtain the American Agriculturist, clean and healthy state, and care was also taken can do so by forwarding one dollar to the publisher in New York City, or, if they prefer, they may remit their names and the amount to this office and we will forward them.

> The Apple crop has been seriously injured in written to gratify the many inquiries often made, month. We were informed by Mr. P. H. Young, that his trees would not yield more than a quarmmmm

The Peach crop, in the warm, gravelly uplands, bids fair for a good yield, while that in other localities, particularly in and around this city, is reported as not so promising as that of 

Apriont trees are generally very full of fruit. We noticed several fine trees, a few days since, in the gardens of Mr. W. C. Staines, that were overloaded with this excellent fruit.

Cucumbers, grown to his garden, in the open air, have been on ex-Governor Young's tables, we have been informed, for some two weeks.

[From the American Agriculturist.] Breeding In-and-In-C. M. Clay's Re-

> ply to a Cattle Breeder. No. II.

"A Cattle Breeder's" 21 No. is before me. Its length is formidable; but the importance of the subject will warrant a close scrutiny of all he has said. He prefaces his ox sufficient food, and he will fatten; give a man any. argument by saying, "I do not advocate the breeding inand-in' in all cases; and do not recommend others to do so at all, except under circumstances of perfect health he is speculating, he is in love! But let his mind become and condition of the animals so proposed to be bred." This is for all practical purposes giving up the whole theory; for as no man can tell when an animal is in perfect health and condition, he can never be sure but that sentimental phenomena, but only obstructed, retarded, he is committing a grave offense against Nature's law, or deranged by them! Indeed the same phenomena 'menwhich will certainly not go unwhipt of justice! Here I tal and physical, are common to man and the lower anilike a large cable. Now these vines, when young, might rest the argument, but that I desire to place this mais: though the mental are more faint in brutes. Rematter beyond cavil; which if not done, will be the fault | move the ox from his accustomed mates, and he will not

Before parting with my old favorite I will pass er's" advice, I have posted up myself in relation to the a remark on its quality as a table grape. The Stud Book, never fearing that all the laws of animal life milk. It can be proved by dissection that a dog when fed Black Hamburg is not surpassed by any other would fail to run parallel. I have before me, in addition, and put upon a hunt, does not digest his food in the usual

a .- The Race-Horse so far from being advanced by 'close' breeding is not a pure breed, but a composite of the Arabian. The Barb, the Persian, the Turkish, and the Arabian, mingle in his veins. Even if these are of Indeed, while at the dessert table with the quasi specific type—they can not claim excellence from law is violated, I should look for (what experience proves)

b .- The original stock imported in the reign of Edward the Muscatines and Muscat of Alexandria and the Third were reinforced repeatedly by new importations other choice kinds,-I have often seen them re- at various times, and especially from the time of James

c .- Since which time the improvement of the racehorse has been the result of culture.

d .- There were great numbers of horses for selection, and the four breeds were combined in infinite variety.

e .- James K. Duke, Esq., of Scott co., Ky., one of the most successful breeders and racers in America, says in reply to my questions: 'It has been a maxim with the English and American breeder to AVOID IN-AND-IN BREEDING of the race-horse. In England the practice there are many. In America it has not always been practicable to breed so judiciously, because the field for selection was compartively small. It has sometimes occurred, as in the case of the Arabian family, that there clusively bred from. But the conjunction of the mares with the horses of that strain was deplored as an evil. and the ARABICS FADED FROM THE SCENE: BOSTON AND WAGNER ONLY OF THE OLD AMERICAN AND ARABIC BLOOD PROVED GOOD ENOUGH TO SUR-VIVE!' [The small caps are mine.]

f .- Lexington, bred by E. Warfield, Esq., of Ky., made the best time on authentic record, either in England or America. The time of Flying Childers is merely traditional, and regarded by modern racers as a myth. Lexington was by Boston, an American; his dam by Tarpedon, an English horse. Boston and Tarpedon were of distinct strains; the one the grandson of Sir Archie, the best American; the other the son of Emilius, the best English stallion of his day.

g .- Mr. Duke concludes by sustaining generally my theory, abating somewhat its stringency as you descend in the animal scale of intellectual and muscular action.

h .- Landers D. Bruce, Esq., Secretary of the Ky. Trotting Association, who is about getting up an American lest extent; giving many special examples of entire failures of the best racers by 'close' breeding! Time will not allow me to introduce them.

2. ANALOGY: MAN. a .- The Jews were not only warlike' requiring 'great bodily health and energy in action,' (which so far is giving up the argument as drawn from Jewish history, in my favor) but highly observant of natural and psychological and physical laws. Their theory and destiny are on my side. I hold that it is unphilosoph-Horses Legs, when it is necessary to wash | ical to go back to the mythical times of 'Adam and Eve' in these discussions, and leave my opponent in full possession of all that field, as I propose to discuss a practical common sense subject, with practical common sense

b .- I deny the statements as regards the Greeks and Romans generally, and call for the data. Great excesses were committed in various ways among the Greeks and Romans in their semi-Barbaric State, as well as in their corrupt decline; but the best specimens of both races were clear in thought and deed of the imputations of my opponent.

c .- In the case supposed of 'close' marriage, I am not willing to admit the conclusion. And whilst all the effects of a good law are not at once lost, nor all the effects of a bad law (or rather abused law), at once visible, it does not prove them therefore to be disregarded as a general rule. Besides it is simply a 'petitio principil' which is worth nothing.

d .- Brains' I agree are 'desirable,' but close breeding is not the way to get them, as I will show presently. The example of Georgia is not conclusive: but so far as authority goes, is certainly worthy of respectful consideration; and so far as the observation of men can determine a law of nature, as testimony, is certainly cumulative in my favor. That cousins may come over the line and marry with impunity! certainly does not prove the Georgians the less 'Solomons' in their action. The same objection might be urged against legal adultery or even marriage itself! which is a clear case of 'reducto ad absurdum' against my opponent. A great many men have married cousins, and many more propose to do so, which brings a strong force against legislation on this subject, and when in the face of the natural vis inertiæ of legislative reform. and these powerful interests, such acts are passed in intelligent communities, and projected in others, the sneers. of even 'A Cattle Breeder,' (whose abilities I certainly do. not despise) will not fail to have due weight with sensible

e .- I repeat, that outside of mental and sentimental phenomena, man is governed by the same physical laws as other animals. This is not an unmeaning dictum, as my opponent would intimate. I don't use that sort of filling up; nor will such practice go unobserved in others! If he grants that 'make men savages then they are like other brutes. then he yields all that I ask from the argument of 'analogy:' although in paragraph 2d (2 a.) he asserts the contrary! Let me explain a little: give an quantity of food, and he remains the same. Why? Because his mind is over active, his sentiments are engaged, inert, and his sentiments stagnant (all possible!) and he will fatten also! The physical law is, nevertheless, the same in man and animals because of the 'mental and take on fat so well, or at all, for a time; here his senti-1st, THE STUD BOOK. - Following up "A Cattle Breed- ments control the natural law. So the cow when separated from, her cast ceases for a while to yield her usual time. Here the mental law simply controls the physical.

If 'close' marriages were forbidden on account of 'mental and sentimental phenomena' only, then in the case supposed (2. c.) the issue would be the same as if 'wide' breeding was practised; but as in addition to the

a malformed issue!