

SWEET POTATOES.

We find in the American Agriculturist, for April, an article on the growing of sweet potatoes, in which the editor says:

During the past three years, we have had good home-grown sweet potatoes, produced and culture, which, if successful, and of that both as sugar and syrup, by a new process of with little trouble, and cheaper than we could there is but little doubt, would be a valuable boy them in the New York markets, to which they are brought in abundance from the Southern and South-middle States, and sold at yielded at the rate of 480 bushels per acre, by many, and in states and countries where turesque but much neglected region, is the and there was no reason why a full acre or ten acres, should not have yielded at the same rate. The soil was of but medium quality, the principal articles of food. neither light nor heavy. It had a moderate quantity of manure wo ked into the surface. The manure was a month old compost, made of about four parts of muck to one of horse and cow manure from the stable. We attribute our success in latter years to the method of cultivation. The sweet potato, to be sweet and mealy and to grow vigorously, needs a warm, dry soil, with plenty of sun. To secure this in our latitude, on a soil not clayey, but yet not sandy, we plant in high, round hills, which let in the warmth of the sun and warm air on all sides, and secure at all times perfect freedom from water. For garden culture we proceed thus: After preparing the ground well, as for other potatoes, sticks one foot long are set up about three feet apart each way to mark the center of the hills. from thence introduced into other parts of the With a hoe or shovel the earth is then thrown State. up around the sticks on all sides, so as to form round hillocks, eight to ten inches high. (In field culture a plow run twice in furrows each way, will do the hilling more economically.) When two or three rows of hills are burg Pa, but late of Jefferson City, Mo., in made, the sticks are drawn out, and used for other hills. As soon as all danger of frost is a communication to the Missouri Rubublican -one strong or two weak ones in the center in sugar from sorghum says; of each hill, in the holes left by removing the sticks, using a little water, if the ground be dry. They can be set almost as first as hills of common potatoes can be planted. No further care is needed, except to keep the ground free from weeds, as for other heed cr ps. The vines grow s'owly at first, but but after a time they run vigorously, and are at all times ornamental. The plants we have usually bought in the market at a trifling with the juices of canes grown by himself, be done by cutting off the inferior, d seased cost. We shall this year raise our own bed, or, if need be, in a box of rich earth set in a warm place. They send up a multitude of sprouts with roots attached; these sprouts are broken off from the tubers, for setting out at the proper time.

Subjoined are some extrac's from a communication from Mr. J. C. Thompson to the Agriculturist on the culture of the sweet potato, as follows:

"Sweet potatoes may be grown in hil's or in ridges; the latter requires least labor. Light, sandy loam is best, because it is dry and warm, but small tubers may be produced on quite stiff land, and ev n on sward or old pasture land thus: Turn two furrows nearly together to form the center of a ridge once in three feet, filling in the open space between the upturned furrows with a light, rich compost to form the center of ridge and set the plants eighteen inches apart. It is better not to disturb the ground under the ridges, for then the tubers will not grow long downward, since they meet the hard soil, but they increase in diameter and become nearly round, which improves their appearance and quality. The secret of getting round smooth, chubby, sweet p tatoes, in stead of long, slim things is to have a hard bottom under them. Fine or half-rotted manure will do, using it in the whole soil, or in the hills or ridge, in the same quantity and manner as fer the Irish potate. The best time for p'anting is toward evening, using a little water in the ho'es, if the ground be dry, covering it over with dry earth, to absorb the excess and prevent baking. If in rows in the garden or field, these should run north and south; as the vines extend, lay them lengthwise on the rows, to allow the sun free access to the sides. List season I planted sweet potatoes in rows four feet apart, with rows of carrots between, and from a plot fifty 75 to 100 gallons. by one hundred feet obtained 17 barrels of sweet potatoes and 48 bushels of fine carrots. Three feet is the proper dis ance apart for the vines when grown alone, with the plants set sixteen to eighteen inches apart in the ridge. The Nansemond variety is best for the North. In August and September the largest potatoes may be taken out for use, closely related. And it should be borne in a gimlet-hole so made as to bring the two graphs that all good-humored poets write Run the finger into the ground near the stem, and when a large tuber is found, remove a little of the earth, detach it from the stem, take it out, and place back the earth. When frost kills the vines, choose the first clear, dry day, dig until noon, let the tubers lay on the ridges to dry, and before dew falls, pack them in barrels in the field, with plenty of dry, cut straw, and then store the barrels in a moderately warm, dry place for winter."

the East, that they can be successfully culti- to be obtained, shall require. vated in most of these valleys, and why greater exertions have not been made to introduce them into the State, particularly into those parts of it most favorable for their production we are not advised. With existing facilities, potatoes for planting in any desira- succeeded uniformly in obtaining a good ble quantities can be imported readily and safely if properly put up; and it is a matter of some surprise that so little interest has been recommended by Mr. Lovering-by the method addition to the tuberous esculents cultivated for general use, and contribute largely to the

The culture of sweet potatoes was commenced in Washington County some two years a purpose the soil which covers the beautiful since, the seed having been brought from bluff highlands all along the river from Kaneas Lower California, but it is understood that no great progress has been made in the business and but few have, as yet, been grown. The impetus that has been and will be given to matters and things in that part of the State, by the recent addition to the population of many of the most energetic and experienced cou se, tend greatly to the d velopment of the in consequence of the cold stormy weather, agricultural resources of the country, and not only the Convolvulus Batatas, but many other exotics will be produced there abundantly, and

PRODUCTION OF SORGHUM SUGAR

An experienced sugar grower, of Canonsover, and the ground warm, the plants are set some months since on the subject of produc-

but people have been slow to realize the fact that a certain and abundant yield of a good quality of sugar c n be obtained from this

skill as a refiner rendered him a compet nt experimenter, from repeated trials in 1857 molasses. Since that time no pull shed statements of actual experiments have led the attainable uniformly, and by appliances with- chilling blasts of winter. in the reach of people of ordinary means. Since then, there have been repeated experiments wit hrep ated failures, and occasion ally an example of success, but nothing like uniformity of result has been claimed.

The w.iter of this has been informed of no instances in which sugar has been obtained from every po tion of the stalk of the plant, nor with certainty and regularity from any part

great number of experiments made by myself with great care, are given to the public with great confidence in their accuracy:

1st. Crystallizable sugar can be readily ex Chinese cane, when completely ripe-from the extreme tops as well as the lower joints; the juice from the lower parts of the stalk being, however, in re abandant, richer in sugar, and

2d. The soil best suited to its sugar-producing qualities is a light, well-drained, sandy loam, in a climate the mean summer temperature of which is about 75 ieg. Fahrenheit. It of four sheep, wool, carcass and al', of the will r pen often when the summer mean does not fall be ow 70 deg., as at Pittsburgh, Penn.; Cleveland, Onio; Chicago, Ill.; Madison, Wis., and Southern Mintesota, but along this ine it a tually nothing. If any difference, it is in is more uncertain. The summer iso herm of favor of the finer breeds. 75 degrees, passng through Washington City, Louisville, Ky., St. Louis, Mo., and Leavenworth, Kansas, defines a limit, along and south of which it will ordinarily ripen perfectly and early, and it will often mature perfectly two degrees north of that line.

perience in the growing of sweet potatoes in acted upon, and that of the product designed

5th. With the aid of suitable method and materials no more difficulty attends the manufacture of sugar from the Chinese than from the Louisiana cane; the expence of the former is much less, the product equal if not superior in quality, and in quantity nearly equal. As to the methods practiced, I may say that I have article of brown sugar from ripe cane, by the ana, (without vacuum pans,)-by the method my own. I reserve for another occasion an estimate of the comparative value of these that during a residence of nearly three years they are easily raised, they constitute one of futue seat of a new department of Western in ustry, which will one day contest the palm of production with Louisiana herself. The climate is all that can be desired, and for such to its mouth -a peculiarly rich pulverulant, s licious loam - I believe to be unmatched.

Fruit Trees.

The prospects for fruit in Great Salt Lake Valley were never more promising than they farmers from the older counties, will, of are this season. Although late in blooming, the trees as a general are healthy and suffered less from the effects of frost during the winter than usual. Apple, plum and apricot trees kinds this spring, unless it has been some one that had been browsed or injured by stock. as a general thing, both on high and low well be, and in some orchards, if there beo: ehalf as many peaches grow as there are Mr. J. S. Lovering, w'ose experience and support, and the fruit will be of an inferior spell of a potent moral enchantment. kind unless thinned by trimming, which should all kinds, in this country the less they are ex-

-----Heavy Fleeces.

The Knight's L nding News of April 19th five imported Merino sheep, which yielded and a ram of the Spanish merino breed-prowool was of the finest texture and long staple low figure for this quality—and we have from the Spanish sheep \$7 10 as the yearly product for each, more than the price common breeds; and the difference in the feed consumed, between a fine and course sheep, is

Grafting the Grape Vine.

monnement

We have met with many experienced persons who have never seen the grape vine | CHIROGRAMMATOMANCY .- A German writer 31. In such soil and climate, and with grafted, The process is so easy, that thou- - Adolph Henze by name-has just published suitable apparatus, the yield of crystallizab e sands who are anxicus to possess the newer in Leipzig a book entitled "Chirogrammatosugar will vary with culture, &c., from 1,400 varieties, should especially take care of their mancy," intended to prove that a person's to 1,800 pounds to the acre, and m lasses from old roots and insert scions of the new. No character may be suggested by his writing, 4th. Such results are to be attained by no sary, beyond the natural soil below which the faithful and unalterable hand of a mental empirical means, but require such a theoreti- graft is to be inserted . Saw off your stalk and clock; it is the wondrous telegraph of the cal and experimental acquaintance with the put in you scion with two or three buds, mental being; it produces a daguerreotype of process of sugar manufacture as is p ssessed wedge fashion, as in the cleft-grafting of fruit the internal workshop, and supplies us with by the most in elligent cultivators of the trees, and then cover up a few inches, leaving the key to the most hidden's crets of the mind Southern cane-to which pla t the so ghum one or two buds above the ground; where the and he heart." Mr. Henze maintains-with in the chemical character of its juice is very stalk is very large, and convenient to split, proofs from his collection of (0,000 automind, that however easy the routine of sugar barks together answers. The sprouts of the with a smooth hand, and all savage ones with production from either plant m y seem, there olds alk, as they spring up to rob the graft, a spluttering hand, and advances many other are difficulties which beset the whole process must be pulled off. Grafts often bear some similar theories or, shades of theory. in practice on the large scale with which no fine clusters, the first season of growth, and inexperienced person or reckless experimenter many more the second. In this way the old -Louis Napoleon has commenced to decorcan successfully cope. Good results cannot stalk of wild grapes removed from the woods, ate the banks of the Seine in Paris, with be secured except by intelligence and ca e in are very useful with due care. We have statues of eminent civilians, Fenelson, Monthe cultivation-and especially in the express- lately seen an old Catawba vine that was tesque, Arago and others. ion of the juice and the use of such aids, wanted for shade forty feet off, laid down for -It has been so muddy at Cairo this spring It is believed by many who have had ex- the juice, as the peculiar nature of the material the first year .- [Horticulturist.

Boiled Corn for Hogs.

A correspondent of the Cincinnati Gazette says: 27 and 1 mandate mainte will be town and

I have just killed the hogs I was feeding corn to, and can now more accurately determine the value of that kind of food. The reported experiment of Clay, of Kentucky, wherein he states that the gross pork made on boiled corn cost one cent nine mills per process used by the sugar growe's of Louisi- pound, valuing corn at 28 cents per bushel, and that made on dry corn costs four cents eight mills, is, from some cause, very incormanifested in relation to their introduction of Wray, and an article of much finer quality, rect. I feed sixteen hogs but I tile more than half the time usually considered necessary to fatten them, and about half the qua tity of corn. Of these hogs two were fully grown, methods and other details. Permit me to add and were well fatted, but not so much as hogs fed three months to as much corn as they will moderate prices. Last year a garden plot sustenance of life. They are deemed a luxury in the valley of the Lower Missouri, I have eat. The other hogs were not grown, and been convinced that in that rich and pic- were not as fat as these two, but were excellent pork, and made a rapid increase in weight during the time I fed them. I am the more confirmed in the opinion that boiling corn on the ear is a saving of at least onethird, and perhaps as much as one-half, but not more. This is from 30 to 50 per cent., but according to Clay's experiment the saving is nearly 300 per cent The hogs I fed were a cross of Poland, white Chester and Suffolk, a very excellent cross. The hams a d should rs we e square and heavy, but the Suffolk cr ss inclined the accumulation of fat to the shoulders, instead of the sides.

Description of Rome.

One of the new chapters of Mrs. Stowe's "Agnes of Sorrento" contains the following beautiful description of Rome:-

"A vision rises upon us from the land of shadows. We see a wide pain, miles and especially were uninjured, and we have not miles in extent, rolling in soft billows of seen a sickly or decaying tree of either of those green, and girded on all sides by blue mountains, whose silver crests gleaming in the setting sunlight te I that the winter yet lingers on their tops, though spring has decked all Peach trees as usual, excepting in favorable the plain. So silent, so lone y, so fair is this p sitions, were somewhat injured but not to waving expanse, with its guardian mountains, that extent they have been some seasons and it might be some will solitude, an Americ n prairie or Asiatic steppe, but that in the midst thereof, on some billows of rolling land, In many parts of the West, syrup of a good grounds, all the tre s which are old enough to we disc-in a city, sombre, quaint and old-a quality has been made from the Chinese cane, bear fruit are as full of blossoms as they can city of dreams and mysteries - a city of the living and the dead. And this is Romeweird, wond rfu, ancient, mighty Rome once by phys cal force and grandeur, mightier now blooms, there will be more than the trees can in physical decadence and weakness by the

"As the sun is moving westward the who'e air around becomes flooded, with a luminousness which seems to transfuse itself with perestimated the probable yield pr acre at and useless branches and the t p rather than valing presence through every part of the plants thus: The last of March or early in 1,406.22 pounds of su ar, and 74 39 gallons of the lower fruit trees are, of city, and make all its ruinous and mossy age bright and living. The air shivers with vibrations of hundreds of bells, and the evening public to believe that such results were posed to the high winds of summer and the glory goes up and down, soft-footed and angelic, transfiguring all things. The broken columns of the Forum seem to swim in golden mist, and luminous fl ods fill the Col seum as it stands with its thousand arches looking out into the city like so many sightless eye-holes in the skull of the past. The tender light says that Mr. J. W. Brownell, of Yolo County, pours up streets dark and ill-pared-into California, had, the week previous, sheared noisome and cavernous dens called houses, where the peasantry of to-day vegetate in contented subservience. It illuminates many 106 pounds of wool. The largest-a French a dingy courtyard, where the moss is green The following statements, based upon a merino ram-produced 35 poun's for an 18- on the walls, and gurgling fountains fall into month fleece. The other four-three ewes quain old sculptured basins. It lights up the gorgeous palaces of Rome's modern princes, built with stones wrenched from ancient ruins. duced 71 pounds, or an average of 1734 pounds It streams through a wilderness of churches, tracted from any portion of the stalk of the each. They were two-year old sheep, and each with its tolling prayer-bell, and steals the fleeces one year's growth. All of the through painted windows into the dazzling confusion of pictured and gilded glories that glitter and gleam from roof and wall within. Estimating the wool at 40 cents per pound-a And it goes, too, across the Tiber, up the filthy and noisome Ghetto. Here, hemmed in by ghostly superstition, the son of Israel are grow ng without vital day, like wan white plants in cellars; and the black mournful obclisks in the cypresses in the villas around, it touches with a solemn glory. The castle of St. Angelo looks like a great translu ent, lum nous orb, and the statues of saints and apostles on the top of St. John Lateran glow as if made of living fire, and seem to stretch out glorified hands of welcome to the pilg ims that are approaching the Holy City across the soft, palpitating sea of green that lies stretched like a misty veil around it."

clay or covering of the grafted part is neces- for, says the author "hardwriting is the

mechanical and chemical, in the clarification, one year till it had rooted well, and then was that the soldiers call the soil which adheres filteration, evaporation and crystallization of grafted with with perfect success, and fruited to their boots, "bounty land" which they have "drawn."