

Potato Culture.

The po'ate crop in Deseret for several years past has not been, in many instances, very productive, having been often an entire failure in some locations, not in consequence of the potato rot which has been so common and universal in the States and other parts of the world for many years past, but from of some blighting influence no tubers have been produced larger than peas or small bullets, and not unfrequently there has been no appearance of bulbs on the radicles what-

There have been quite a diversity of opinions entertained and expressed relative to the potato blight, which has so materially lessened the crop of late, some attributing the failure, from time to time, to one thing and some to another, and various have been the ways knife. which have been proposed to remedy the evil and make the crop productive, but no very satisfactory experiments have been made, of a practical or scientific nature, to determine the cause of the blight, neither the efficacy of the remedies that have been suggested, at least, ir any such experiments have been made among the farmers, the results have not been

When, if ever, the real cause of the unproductiveness of potatoes in these mountain merous and perhaps poor, set a graft in each valleys shall be fully understood, it will, side, in our humble opinion, have been made to appear that the barrenness is proat or before the time the potatoes begin to is good. form, the searching rays of the sun heating the vines or plants to that extent that the functions of their organs are measurably suspended, the plants become diseased, and pro. alone important. duce no fruit. If the extreme heat, so often experienced in this and other valleys in mid- readily press through the soil f it starts well. summer, does not exert a greater influence in making the potato crop unproductive than any other blight-producing agency, we are certainly mistaken in our conclusions.

It is the testimony of many that potatoes planted late in the season, say in the old of the moon, the last of May or first of June, are not generally much effected by b'ight, and almost than two. invariably produce better crops than those planted earlier in the spring. Such has been the result of what little experience we have had in to die, let one sprout grow from the bottom, the premises, and, with only one or two ex- to become a future stock. ceptions, for the last five or six years, whatever has been the mode of culture, have any been produced when the seed has been planted early in the season. The result of late planting in other locations may have been different, and it would be well if those who have had experience in the culture of potatoes in various parts of the State, would communicate what knowledge they may have acquired for the benefi of the public.

On Grafting Grapes.

The following communication on the subject of grape-grafting published in the Country Gentleman, is from the pen of Mr. C. E. Goodrich, of Utica, N. Y .:

REASONS FOR GRAFTING THE GRAPE.

You are thus able speedily to change a large unto one whose fruit is valuable. vine of moderate size in a favorable year, will of Yuba, O. A. Peck of Napa, and S. B. Butfruit the second year, and a h avy one the third year.

Occasionally, too, in some varieties of grapes the organs of frutification are imperfect from would make a garment almost as soft as the excess of stamens; hence the vine is a shy bearer. Here the advantage of grafting, with a free and perfect flowering variety is appa-

able to mildew, in hot, damp weather, as when grown on their own roots. The scions I have mostly used where the early Black July, Miller's Burgundy, Violet, and Golden Chasselas.

TIME OF GRAFTING.

Very early in the spring, as soon as the frost is out of the ground, which is here from the 1st to the 10th of April usually, at least in protec ed positions, where the grape is usually plan'ed. Grafted at this time, the grape does not bleed when finally the sap starts.

In the early summer, when the vine has made considerable growth, and the larger leaves had atttained a full expansion. This period here is usually from the 25th to the 30.h

of June. At this time the sap begins to It will be seen that the swiftest workman thicken and granulates readily. Even now, was Scott, who sheared, on an average, one the winter, especially where early autumn frosts occur.

STOCKS USED.

and Catawbas.

MODE OF GRAFTING THE GRAPE.

Saw off the stock two or three inches below the ordinary surface of the soil, cutting it a private. little higher or lower, if you can thereby get a clean split for your scion. The vine will sometimes exhibit a collar just below the surface, which will not give a good split; I prefer to go below this, even at the expense of cutting off some of the side roots.

Pare off the stock smoothly with a sharp

Split it two or three inches as in ordinary e'eft grafting, and open it with a wedge if the stock is very large.

Let your graft be two buds long, leaving one inch of wood at least, above, and two or three below to constitute the wedge.

With a very sharp knife, bring your graft to a wedge shape, as in the case of ordinary cleft grafting, having the lower bud on the outside of the stock.

Insert your graft so that bark meets bark, If your stock as cases.

If your vine is small, tie the graft in, being man, sure." careful to use strings that will decay readily, so that you need not subsequently have to

duced by the extreme heat of the weather loosen them. A narrow strip of cotton cloth I sometimes have clayed or waxed the graft, and often not. The earth falling into the

cleft seems harmless, as that part of the stock immediately in contact with the graft is Bring the earth back around the graft,

leaving the lower bud just covered. It will I like to put a drop of the shellae varnish on the top of the graft, to prevent its drying

Stick down a shingle or half a barrel stave just south of the grat so as to shield it for a few weeks from the noon-day sun, until it is weil estab ished.

If both buds start vigorously, break off the upper one, as one vine at the base is better

Carefully pull up the sprouts which almost proper quantities. always spring up from below the graft.

Should your graft not start, or seem likely

The first time you trim, cut back your vine severely it it be feeble, or the stock were small. Otherwise leave plenty of wood for a crop the second year.

Cu tivate around your graft as you do in the case of any other grape.

Sheep Shearers' Festival.

A premium having been offered by Mr. A. L. Bingham for the best sheep shearer, arrangements were made for a sheep shearer's festival at Marysville, Cal., which came off on the 6th instant. The following statement of the proceedings is from the Appeal:

There were over sixty fine French Merino shearing commenced in the forenoon, under the supervision of the following Committee: Messrs. McDonald, of Alameda county, Montthri ty vine whose fruit is poor gomery, of Butte, and J. W. Moore, of Yuba A The shearers were as follows: J. C. Cutting sometimes show flowers the year it is grafted. ler, P. Anderson, T. Galbrai b, L. Scott, S. You may always expect a moderate crop of M. Wel er and L. C. Hodge of Sutter county. The shearing was prefaced by weigh ng the sheep, and splendid looking animals they were, too, with just such fine merino wool as cashmere were the wool pr perly dressed and worked up. The average weight of the fleeces may be judged from the fact that the aggreclip was 15th and 514 ozs. The average weight of the clip from eighteen bucks-of which all but three were year-olds - was 4511 ths; the average clip being 25 ths and 113 ozs. each-the weight of the sheep before shearing being 2,6601/2 fbs. For the benefit of those who have an interest in what shearers

> Weller, 6 sheep in 6 hours and 25 minutes. Scott, 9 sheep in 5 hours and 50 minutes. Reck, 10 sheep in 6 hours and 38 minutes. Cutting, 5 sheep in 6 hours and 38 minutes. lets God, conscience and religion go. Galbraith, 8 sheep in 6 hours and 25 minutes. Butler, 8 sheep in 7 hours and 5 minutes.

A General Blunder.

From about 1845 to 1852, I grafted perhaps | An amusing dialogue lately occurred in one 150 stocks. They comprehended two or three of the American camps between a private native sorts, said to have been brought origin- | who was acting as sen inel near a hospital, ally from Connecticut, two or three native and a general. On the approach of the latter, sorts of unknown origin, and many Isabellas the former neglec'ed to give the accustomed salute. The general then sharply asked:

"Who stands guard here?" "A chap about my size," answered the

General- "What are your duties here?" "To allow the sick to come out, and to keep the well in.22

"Call your cerporal."

"You won't catch me doing that. I don't intend to stand here two hours longer than usual to please you." [The sentinel alluded here to a rule which gives corporals the power, when they are unnecessarily called by sentinels, to punish them by imposing on them two hours' extra duty.]

facing the sentinel, said: in relation to saluting superior officers?"

The Minerals in our Bodies.

In the body of a man weighing 154 pounds - [Mining and Sientific Press. there are about 71/2 pounds of mineral matter, consisting of phosphate of lime, 5 pounds ounces and 49 grains, with minute quantities who proposes this plan of a "Sardin de Ceinof potash, chlorine and several other sub- ture" is said to be a celebrated botanist and stances. The rest of the system is composed agriculturist. He proposes to the State to of oxygen, hydrogen, nitrogen and carbon; transform the fortifications and the earthworks 111 pounds of the oxygen and hydrogen being facing the city, both of which are now so combined in the form of water.

stances is very small, it is found absolutely of every possible kind, wheather from co'd or essential to health that this small quantity hot countries, according to the aspects of the should be supplied; hence the importance of sitch, wall, and earthworks. The administraa variety of food. If we furnish nature with tors of this garden, which he guarantees to all the material required, she will select such form with a given capital for the commence-

FEATS OF THE REINDEER. - At the palace of Drotningholm, in Sweden, there is a por trait of a reindeer, which is represented, on an occasion of emergency, to have drawn an officer with important dispatches, the incredible distance of 800 English miles in 48 hours. The event is stated to have happened in 1699, and tradition adds that the deer dropped down lifeless on its arrival. M. Pictel, the French astronomer, made some experiments in the year 1769, in order to ascertain the speed of the reinceer, when exerted to the full, 8 inches in two minutes—that is, at the rate of nearly 19 miles an hour; the second did the same distance in three minnes, and the third in three minutes and twenty-two seconds.

his knowledge of human nature. He was sheep from the Brannan ranch on the ground, traveling in Germany, in entire ignorance of and eight shearers presented themselves. The its language and currency. Having obtained small change for some of his French coins, he used to pay drivers and others in the following manner: Taking a handful of the numismatical specimens from his pocket, he counted coin deposited in the hand, and returned it tree-an oak-grown on the estate. with the remaider to his pocket. He afterward found that in pursuing this method he had not overpaid for anything.

THE TEST .- "When you see a dog following two men," says the Rev. Ralph Erskine gate weight of the clip of forty-four year-old in one of his sermons, "you know not to which There is no perceptible gain to hardiness, in ewes was 6741/2 lbs. - the sheep weighing one of them he belongs while they walk tografting a tender variety on a hardy stock; 4,7261/2 lbs before being sheared. The average gether, but let them come to a parting road, and one goes one way, and the other another way, then you will know which is the dog's master. So at times you and the world go estimated or tested by his speed, but by his hand in hand. While a man may have the world and religious profession too, we cannot tell which is the man's master, God or the world; but wait till the man comes to a partcan do, we append the result of each man's ing road; and God calls him that way, and the world calls him this way. Well, if God be and at intervals a fresh batch took up the his master he follows religion, and lets the running. It was stupid work to us, and as the world go; but if the world be his master, then he follows the world and the lusts thereof, and

> with a rigid heart. Lastely act superd

Machinery for Setting Type.

if on trial the tocks are found to bleed much, in thirty-eight minutes; and the slowest was A machine has at last been introduced, the operation should be deferred a few days. Weller, who sheared one in two hours and which it is claimed, accomplishes successfully There is but little difference in the success of eight minutes, but his work was beautifully the operation of type-setting. The machine grafting at these two periods. There are, done, being absolutely perfect. But as the is driven by steam or foot-p wer, and conhowever, two very obvious advantages in committee were instructed to consider the trolled by the operator through a key-board, early grafting. The first arises from the diffi- handling of the sheep, amount of injury done but the arrangement is, as far as may be, in culty of preserving your grafts from sprouting to the animal and cleanness of the clip, as close analogy with the present method of setand blackening until the later peri d. The well as the time consumed, they awarded the ting type. When it is desired to change the second is the superior ripeness of the young premiums: First, \$10 to T. Galbraith, and size of type, the cases are taken out of the wood, and its consequent ability to meet second, \$5 to L. C. Hodge. | machine and others put in their place, just as the cases are changed at present on the ordinary stands. The cases are of metal, and the types are arranged in columns, and are taken from the case by a small pair of pincers corresponding with the fingers; they are gathered into a stick which holds but a single line, and has a little bell attacked which gives the operator warning when he approaches the end of the line. When the line is finished the operator touches the justifying key, which throws the line out of the stick, and the line is justified and leaded if desired, add fed out upon a galley ready for the press. It both composes and d stributes, and as one of these operatio s is but the reverse of the other, so in the machine, if the motion be communicated in one direction it will set type. while if communicated in the opposite direction it will distribute.

Iron and Steel Manufactures.

A consecutive series of chemical researches The general, i dignant at these replies, into the different processes of manufacturing hunted up the lieutenant of the guard, and iron, from the calcinning of the ore to the producting of the bar, has led to a complete "What instructions do you give your men and thorough revolution; and although it is just at the present time in a state of transi-The Lieutenant said to the sentinel, "Have tion, it nevertheless requires no very great I not to'd you to salute your superior officers discernment to perceive that steel and iron of -- do you not know that this is your general?" any required tenacity will be made in the The sentinel, with a look of amazement, same furnace with a certainty never before attained. This has been effected, to some exand the is not halfer acquainted tent, by improvements in puddling; but the with him as a general than I am, he is a lost rew process by Mr. Bessemer is regarded as affording the highest promise of certainty of perfection in the operation of converting the metal pig direct into steel or iron, and is likely to lead to the most important developments.

PARIS TO BE ZONED WITH FLOWERS .- A 13 ounces; carbonate of lime, 1 pound; salt, curious project has just been submit ed to the 3 ounces 3.76 grains; per xyde of iron, 150 municipality of Paris. The plan is to gird grains; silicia, 3 grains-making 7 pounds 5 Paris with a zone of flowers. The gentlen a much unproductive waste ground, into a great Though the quantity of some of these sub- peoiniere d'acclimation, or a nursery for exotics as the system needs, and always just in the ment of operations, would pay to the State a certain rent per hectare; undertake to cultivate no species of parasitical fruit or flower that would be injurious to the wall or difficult to remove in case an enemy was expected; to sell at a low market price the produce of the fortification, and, in the space of two years and a half, to clear all the expenses that the society may incur in carrying out the project. Nothing can be more brilliant than the results which are promised.

Oaks in England .- The Parliament Oak in Clipston Park is said to be fifteen hundred for a short distance. Of three deer yoked years old. This park existed before the Conto light sledges, the first performed 3,089 feet quest, and belongs to the Duke of Portland. The tallest oak was the same nobleman's property. It was called the Duke's Walking Stick, and was higher than Westminster Abbey. The largest oak in England is the Calthorpe Oak, Yorkshire; it measures STUDY THE FACE .- A story is told of a seventy-eight feet in circumference at the great French satirist, which finely illustrates ground. The Three Shire Oak at Worksop is called so from forming part of the counties of Nottingham, Derby and York. This tree had the greatest expanse of any recorded in this island, drooping over 777 square yards. The most productive oak was that of Gelenos, in Monmouthshire, fell d in 1810; the bark brought £200 and its timber £670. In the them one by one into his creditor's hands, mansion of Tredegar Park. Monmouthshire, keeping his eye fixed all the time on the re-there is said to be a room forty-two feet long ceiver's face. As soon as he perceived the and twenty-seven broad, the floor and wainleast twinkle of a smile, he took back the last scot of which were the production of a single

> Horse RACING IN JAPAN. - A few days afterward I was invited to witness their races. The race-course was betwee two rows of houses, and every verandah was crowded wi h occupants of both sexes. At a given signal ome thirty horses started off amid shouts and yells, and went away as well as they could, their riders not being extremely anxious to go fast, as it was soon discovered the qualities and perfection of a horse in Japan are not powers of endurance. So the thirty h rses, after going up and down this street as long as they could, gradually fell off, tired and beaten, until one only remained. This was declared the wenner. The race lasted quite an hour, day was hot we left early .- Hodgson's Japan.

-Why is Boston called the Hub of the Universe?" Because history shows that from -Where the mouth is sweet and the eye it have gone out spokes-men for the weat of Anderson, 6 sheep in 7 hours and 5 minutes. intelligent, there is always the look of beauty mankind, who never tire of doing good for their felloes. It should be the selfer and