THE DESERET NEWS.

FOR FARMERS AND GARDENERS.

THE GARDENS in various parts of the city and perseverance of our gardeners.

During an agreeable visit to Mr. William Elder W. told us, they blossomed fully and, a Wagstaff's gardens, two or three days since, we few weeks since, were apparently overloaded found vegetation generally in a very forward with fruit. What can be accomplished by an state, considering the locality-3d Ward, on the untiring exertion and patience is encouragingly State road, about one and a half miles from our exhibited here.

office-where the ground is somewhat cold and For the gratification and benefit of our readers the season is later than on the uplands; but, who take pleasure in hearing of our progress, as nevertheless, there are some advantages in cul- a people, in the fruit department, we will here tivating the lowlands-the ground is rich and enumerate some of the varieties now in bearing mellow, does not require so much irrigation and in Elder Woodruff's orchard:

the higher and more gravelly lands.

But we are now at Mr. Wagstaff's. Here, but Pearmain, Red June, Golden Sweet. a tew years ago, was, at certain seasons, but a PEACHES-Carrington's Early, Large Yellow desolate and seemingly irreclaimable marsh. Even Cling, Woodruff's Mountain Sweet. now, after draining, water is obtained within APRICOTS-Choice varieties grown from seed cabbage, beets, carrots, tobacco, peas, tomatoes rington's.

and all the various vegetables commonly culti- PEARS-Bartlett; also another, name unknown vated, growing in the greatest perfection and to Elder W. generally more advanced than in many of the up-PLUMS-Green Gage, Sweet Damson, Large land gardens; and all this the result of untiring Blue; besides fine wild plums from Kanesville, exertion and the practical application of well- Iowa, on which the above are budded. GRAPES-California, in full bearing; Woodruff's founded theories, based on long experience. In the line of fruit culture, he has a fine young Early Clear White Seedling; Isabella and Caorchard, composed of apple, plum, apricot, peach, tawba. The two last named he is bedding for etc. The peach, however, is not suited to the propagation. CURRANTS-English Black, grafted on the nalowlands, though a few may now be seen on tive; also native, very fine, vellow and black. his trees. We were gratified to notice his success in He had also in bloom, this season, the Large root-grafting, of which several hundred healthy White Damask Double Rose. shoots give abundant evidence. This is a system m Hungarian Grass.- A very fine patch of this which is on some accounts preferable to the grass is now growing on the lot of Mr. A. P. common practice of stock grafting, especially Rockwood, nearly opposite the Social Hall. among us, where it is so difficult to obtain choice Those who have not yet seen the Hungarian varieties on their own roots. By this system grass will there have a good opportunity of viewwe are enabled to propagate on their own roots ing it. the choice cuttings received here, often at con-It will be remembered that Mr. Rockwood's lot siderable expense, from other parts of the world. is situated on the hill-side, that the soil is ex-The process of root-grafting is very simple cessively stony, dry and very shallow. and may be easily learned and successfully prac-We were informed by Mr. Rockwood that he ticed by almost any one who has enterprise has several acres planted in this species of grass, enough to set out an orchard. We doubt not having planted on three or four different kinds of blight, insects, etc. that Mr. Wagstaff, as also others who understand soil-the low, wet, mucky, the clayey and the it, would freely impart any information that gravelly upland-to test which is best adapted to might be desired, relative to that matter and, inthe Moha. He says that, thus far, that sown on deed, in relation to anything pertaining to the culthe low, mucky land looks best; although, as tivation of the soil, so far as their knowledge exwill be seen from examination, the piece near his tends. If there be any who feel differently, such residence, on the rocky bench land, presents a are not worthy of patronage, neither have they flourishing appearance and will doubtless well at heart the interest of the community. repay the tiller's toil.

etc., which, there is reason to hope, at no distant day, will be accomplished. minnenmannen

Fruit and Fruit trees .- We took a stroll thro' are in a flourishing condition; tho', on account Elder W. Woodruff's garden last week and were of the unusual pressure of work, the weeds, in at once pleased and somewhat vexed-pleased to some of them, occupy pre-eminence altogether behold his fine assortment of fruit trees, and vexinconsistent with the acknowledged good taste ed when observing that, with few exceptions, these trees were almost destitute of fruit, though, as

heavier crops are raised with less labor than on APPLES-R.I. Greening, English Russett, Twenty Ounce, Sweet Summer Pearmain, Winter

three feet of the surface. However, here are from Prince Albert's garden in London; also Car-

[COFVRIGHT SECURED.] A Treatise on the Present State of Horticulture in Utah.

BY E. SAVERS, HORTICULTURIST. No. 7. THE HOP GARDEN.

In treating on the culture of the hop I shall refer to my early days. Being a native of the row of potatoes or other low growing vegetables vicinity of Canterbury, Kent, England, and my between the rows of hops the first year of plantfather having been a considerable planter, the ing. care of the hop-garden fell to my charge. I shall therefore in this part of my treatise follow the system adopted by the Kentish hop planters.

having male and female flowers on distinct plants, in the spring. the male plants are of no use to the planter, being by nature designed for no other purpose than to fertilize the female; hence i is that the female hop exclusively is cultivated-it being customary with the planter, if by chance a male find its way into the garden, to immediately root it out as useless.

VARIETIES.

There are several varieties of the cultivated hop. The primitive or original, which is called the Flemish or red vine, is supposed to have been first imported from French Flanders. This variety has long, straggling branches, with the hops growing in pairs. They are large and coarse, of hill. poor quality and not worth cultivating.

There is also another variety of the same type, called the Ruffeler, a large, coarse variety, with the singular habit of having small green leaves

the time of cutting the hops. These cuttings are prepared precisely the same as grape cutting, taking off the top so as to leave two or three buds or eyes to each cutting. When planted the ground is kept constantly hoed, the hills worked round and everything is done relative to good culture to encourage the healthy growth of the young plants.

It is generally customary for planters to plant a

SECOND YEAR'S CULTURE.

In the winter when the ground is frozen hard, a quantity of well rotted manure is carted on the The Humelus or hop being a diaceus plant, ground for the purpose of putting into the hills

CUTTING DOWN THE HOP.

Early in the spring when the ground is in good condition, the hills are prepared for cutting by taking off the earth clear to the crown of the hill preparatory to cutting or pruning the hops. For this purpose the hop-cutter has a sharp, crooked pruning knife. The work is performed by taking hold of the tops or straps of the shoots of last year's growth and pulling up all runners close into the crown or top of the hill; he then cuts off every shoot close into the hill to one eye, or more properly two eyes, or buds, as they are in pairs. This is the first formation of the hop

After cutting a second follows and covers each hill with a shovel full of the rotten manure. This done, the garden is ready for digging.

DIGGING THE GROUND.

The variety, size, flavor and yield of his currants surpassed anything we have yet seen in the Territory. One ye low currant measured two inches in circumference. We saw many bushes of the same variety, the currants on which, when ripe, would average, in circumference, one inch and a half. The black currants were large and of good flavor; but there was a smaller currant, of a drab color, particularly attractive for its sweetness, which Mr. W. thought he could much improve in size and probably in flavor also. The seed of this variety was brought from the Platte River plains. The bushes, almost without exception, were filled with fruit to their utmost capacity-some even to total prestration. A correct idea of this uncommon yield may, perhaps be better conveyed by quoting the language of a gentlemen who lately visited the garden of Mr. Wagstaff, when he exclaimed, "It is all currants and no bushes!" Among the varieties from Patent Office seed, we noticed the Sword Pea, having a long, swordshaped pod, well filled with good sized peas and comes into bearing before the Marrowfat. Some varieties of cabbage, from the same source, looked promising; yet none of them surpassing Adams' Early, grown by Mr. Watt.

For three or four years, on a small scale, this excellent grass has been grown in Utah-and had culture of the hop. The year previous to plantdue care been taken of the seed, the Territory might have been pretty well supplied with it, ere this; but, instead of saving the seed, so valuable while scarce, most of the farmers who were fortunate enough to obtain it, thoughtlesssly fed it to their animals, seed and stalk. This should not have been done. Mr. Rockwood, however, and perhaps one or two others, carefully thrashed out, cleaned and preserved the seed, which readily sold for eight dollars per bushel-thus satisfactorily remunerating him for his labor and at the same time conferring lasting benefit on the community. The present season there are probably ten or twelve acres of the Moha growing in this vicinity. Whether there was any sown last spring in other counties, we do not know. At all events, we say to every man who has a plot of ground sown with Hungarian grass: carefully attend it, harvest it accordingly to the directions already given planting. in previous numbers of the News, save all the seed and sell it at reasonable rates-say two or three dollars per bushel. We doubt not it can be raised as cheap as oats. When the excellence of this grass is generally known, it will be largely cultivated for fodder and the fact that it grows well on dry, gravelly plant," which is so arranged that the hills are soils will render it, in such localities, a standard substitute for other cultivated grasses that require moist soil and continual summer showers to sustain them. Besides all this, it is our firm con-Hungarian grass is the most profitable variety

growing between the leaves or chives of the hop.

RUNNING WILD.

When a hill of hops "runs wild," as it is called. it returns to its primitive state-into either of these varieties-and is marked at the time of picking for being rooted out as useless.

THE CULTIVATED VARIETIES

Are, first, the Canterbury White Grape, which is universally cultivated as a standard variety for the London porter brewers. This variety has fine large bunches, in form like bunches of grapes; the hops are of a moderate size, white, of an oval form, small cored and are of the very best quality.

2d. The White Early Grape, comes into maturity ten days before the above, is a larger hop, of a bright white color; large bunches in form of bunches of grapes, of good quality and is well adapted for fine pale ales, for which it is used. The planter manufactures this hop and packs in year. pockets for the London merchants, who export it to all parts of the kingdom for private brewing to make fine ale.

There is another of the same variety called the Green Grape, the bunches being more closely set with large green hops of a coarse, inferior quality; the only good property of which is, its hardiness and bearing when other varieties fail from the hop

To the above may be added several sub-varieties of hops; as, the Born Grape, Farnham, etc., merely arbitrary, assuming names of cultivators, places of growth, etc.

PREPARING THE GROUND FOR THE HOP GARDEN. The culture of the hop is so general in Kent that almost every kind of land is chosen for the hop garden; although the hop, like every other production, gives the best produce on a rich, well-cultivated spot of land. A rich hazel loam of a good, mellow subsoil is the best land for the ing, the planter prepares the ground by plowing into it in the fall a heavy coat of good rich manure; plants the ground with potatoes and gives extra culture during the season to prepare it for planting the hop.

When the hops are cut and the hills are manured, the ground is neatly dug over with a threepronged spade, made for the purpose. This done, the next thing to be done is to stick the hops, which is done by placing in the ground one stick cut for the purpose about four feet long, to each hill. When the plants begin to make vines, they are neatly tied to the sticks with rushes, by women, who tie the hops at a certain price per acre.

CULTURE.

The manner of culture is the same as the first year-keeping the ground loose and free from weeds, and every thing is done for the encouragement of a strong, vigorous growth of the young plantation. In the fall the sticks are cleared from the garden, the hops are picked and a quantity of manure is carted on the ground for manuring the hills in the spring as in the preceding

THIRD YEAR'S MANAGEMENT.

Early in the spring the hills are uncovered the same as before stated, the shoots are cut, the hills replenished with manure, and the ground is again dug preparatory to poling.

The hops are now arrived at an age for bearing a crop of hops, and poles of from 12 to 14 feet long are placed to the hills at 3000 to the acre which gives two poles to the hill of 1500 plant, three poles to the hill of 1000 plant and four poles to the hill of 750 plant, the poling the hills being performed by the workmen making holes with an iron crow-bar by the side of the hill in such a manner that when poled they form straight lines each way of the garden.

When the holes are made, the pole is inserted by throwing it in the hole with a smart jerk, by which it is fastened to the ground.

The first thing to be done after the poling is the thinning out, regulating the young vines and tying them to the poles, in which the person leads two of the best young shoots in the hill to each pole and ties them neatly with rushes. She then pulls out all other shoots and runners that come from the hill.

The California Ground Cherry thrives well here.

Before leaving Mr. W's we will state that, in cultivating his currants, he has adopted the bush form-cutting off all side shoots and leaving a stem, trunk or pole a foot or eighteen inches long, thro' which the sap is dispensed to the viction, from various considerations, that the branches; instead of being distributed among a dozen or more stems, all springing from the same that can be cultivated for fodder, whether on high root. The plan here recommended is, in our or low lands; and we repeat, by all means save opinion, the handsomest way of cultivating the the seed till every farmer in the Territory is supcurrant and, aside from inducing the largest plied with it. growth of fruit, greatly facilitates the gathering. mannana A large number of the California grape cuttings Farmers who are making experiments or adoptwere in a flourishing condition. This is an excel- ing means to arrive at the yield per acre of a given lent grape and, though not so hardy as other varie- variety, under different modes of culture, etc., will ties, may be profitably cultivated till the Territory confer a favor on us and the community at large is supplied with the Catawba, Isabella, Concord, by reporting to us the various results.

PLANTING THE HOPS.

Early in the spring the ground is prepared for planting by plowing it deep and dressing it down fine and level. The ground is then set out for planting. This is done by squaring off the ground, when a garden line is laid on the outside row. This line is marked at equal distances with red worsted fied in the line to show the place of the hills. When the line is properly placed, the planter marks off the place for the hop-hills by putting in a small stick exactly at the red marks of the line which gives the proper distance from hill to hill when planted. When the outside line is laid out, the line is placed to the second row and marked off in the same manner. When the whole plot is thus marked off, the hills will be in straight lines as correct as a checker board, which is necessary, because the hops are to be cultivated by horse culture each way of the garden, after

DIFFERENT METHODS OF PLANTING.

There are several different plants of the hop, as the planter calls it, viz., 1,500, 1,000 and 750. hills to the acre. The 1500 to the acre are planted in lines so that the hills are separated double the distance between the rows. The 1000 and 750 to the acre are what is called the "square equal distances apart, each way.

NUMBER OF POLES.

Three thousand poles is the given number for an acre of hops; hence, the first plant of 1500 the second, of 1000, will require three poles to the hill and the third, of 750 hills, four poles to the hill to give a full complement of poles.

As the season advances and the vines make their growth they are daily looked over and tied to and led up the poles in a regular manner until each pole is well furnished and there is no more need of tying and the vines run up the poles.

GENERAL CULTURE.

The culture of the hop garden is one regular routine-namely in cutting the hops early in the spring, digging the ground, poling, tying up the vines to the poles, etc. The ground is often loosened by stirring with a small one-horse plow, harrowing it fine and level, and a continual use of the hop cultivator between the rows; the hills are also hand worked by digging round each hill, which is called rounding and is done to keep the ground loose and mellow. This is done when the vines are fairly started; when a little more grown, the hills are again dug round and while doing this the workman forms a small hill, digging around in such a manner that the earth lies highest in the centre. This is done to nourish the young, fibrous roots and give strength to the vines.

THE GROWING SEASON.

During the season of growth everything is done to add strength and vigor to the vines; indeed there is nothing more highly cultivated and better cared for than a hop garden.

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The Budding Season has again come and should not pass without improvement. Get some choice cuttings from your friends, sharpen your knives and enter upon the labor of improvehills to the acre will require two poles to the hill; ing (not destroying) your orchards, all ye that have them! Those who have not, should not let another season pass without setting out one. If no more, plant on your lot at least one tree that will bear fruit, that you may rejoice in the fruits of your own labors.

PREPARING THE HOLES.

When the ground is laid out, a laborer digs out small holes where the sticks are placed for the hills, and another follows, filling the holes with good prepared compost of well rotted manure. This done, the ground is ready for planting.

PLANTING

In answer to a question, "How long will the Grape Vine live?"-the editor of the Genesee Farmer replies:

Is done by putting two cuttings or sets into a So long that we can not answer your question. It will hill with a dibble. The cuttings are prepared from live as long as the oak. Pliny speaks of a vine which the straps or cuttings taken from the old hills at had existed 600 years. There are vineyards in Italy