

UTAH.

labor has been nearly or quite lost. cherry, grape, and many small fruits may be years old and from six to eight feet high. It successfully cultivated here, is evident to the consists in cutting off about one half of the intelligent observer. It may be asked, why last year's growth over the whole of the outthen has not the cultivation of fruit been side of the head of the tree, and also upon the more successful? In answer, I will say that growth of the inner branches. This may be It is, in a great measure for the want of proper | done any time after cold weather has set in, management in cultivation. There are about until the first of March. Fruit trees on dry as many opinions on the subject as there are gravely land are often affected by too great a cultivators, and in this peculiar climate, degree of heat in the soil, the effect is to force under such varied treatment, the results are, them to make an unnatural growth, the pores in many instances, discouraging. The query of the leaves become obstructed by an overmay arise, what has the culture to do with flow of sap, hence it is not properly elaboratthe damage done by frost in our severe ed, the leaves turn yellow, and the tree is winters? In most cases it is the result of checked in its growth. I have seen the apple improper treatment. The intense cold of the and peach on land in this city that part was winter of '59 and '60, and the severe frost of in clover, the other in tillage; the trees on the the following May, were exceptions to the former were in a healthy condition, while those former seasons, as far as my knowledge ex- on the latter were not. In the Eastern States tends, and it may not be expected that like it would have been the reverse. I have no weather will often occur. Under proper cul- doubt that if our orchard lands in dry locations, ture, the wood of the peach tree, and fruit were put in good condition and sown to clover, buds, may be considered safe from injury any the trees would become more healthy; indeed winter that the thermometer does not range it would be better than the present mode of more than 10 degres below zero. The gather- culture. In this case the land should receive ing of ice or sleet on trees might destroy the a top dressing of manure every year or two, fruit buds, but that has not occurred here to and the soil turned over once in four or five my knowledge. The heavy coating of frost years and re-sown. that gathers on the trees in winter, is not in- | The apple tree may be cultivated on the jurious to the fruit buds.

received in the winter of '59 and '60, would proper attention, if the water does not rise not have been serious, if severe frosts had not within eighteen inches of the surface. The followed, the next May, after the rising of the |soil should be tolerably free from alkali or sap. The former injury discolored the wood, salt, and drained, so as not to be flooded in the but the inner bark was unhurt, in most cases.]

The last frost injured the inner bark to a great extent, and thereby the tops of many trees perished. On examining the trees that survived, it was ascertained, that the new wood did not adhere to the old and could be freely peeled from it; proving that wood may be cosiderably injured, and if the bark remains inhurt, the tree stands a fair chance to recover, and should not be hacked and the bark peeled off because it is loose on the trunk, as was done by some to the injury of the tree. There may be much knowledge gained by carefully observing the different treatments which fruit trees receive. The health, thrift, and hardiness of the tree, is the evidence of the correctness of the culture.

This climate is unnatural to trees, which is evident from the valleys being destitute of them, excepting on some favored spots on streams of water. The Cedar may be an exception, as it is found growing on the benches, is suitable, and there is a sufficiency of water. nine or ten months in the year. Where the climate is unnatural the cultivator must supply what is wanting by art, so that the natural wants of the tree may be furnished.

the preparation of the ground for the transplanting of trees, and it cannot be too strongly inforced on the minds of the inexperienced pear, which appears to be more hardy when that the ground should be dug at least eight- worked on it, than upon its own stock. It is een inches or two feet deep, as far in extent better adapted to the soil and climate, than as the roots will naturally spread; indeed, the the quince or any other stock that has been whole plot should be well dug to the above tried. The stock should be two or three years depth and have a good dressing of manure. old, of thrifty growth, and grafted at the root. The roots will be better protected from the On dry land, fruit trees should be irrigated influence of the sun, and the soil in a better every six or seven days after dry weather has condition to retain moisture, One tree prop- set in, till the first of September, and the erly transplanted and cultivated, is worth ten water so applied that the subsoil will be kept that are badly planted and neglected. Man- suitably damp, otherwise the water is soon ure should not be put in the hole so as to come evaporated, and the trees receive but little in contact with the roots, but may be applied benefit, and become sickly. The soil at the as mulching; indeed, every tree should be well bottom of the irrigating furrows, should be mulched when transplanted, and manure kept suitably loose and the water should run mixed with straw, cornstalks, or any litter slowly, so that it may freely penetrate. In about the stack yard, spread around the trees case of a scarcity of water it is better to keep in a propper manner will repay the labor by up the irrigating of fruit trees, to the damage making double the growth that they would of other crops, than to have them checked in without, and in some cases save them from their growth. If there has not been a suitable perishing by drought or sun-scald. It fre- quantity of water applied through the sumquently occurs here that newly planted trees do not take a vigorous start, and there being a sap, the young wood is prematurely repend, results, not only so, but from men of experideficiency of circulating sap, the stock be- and the tree is left nearly in a dormant state comes sun-scalded in July or August. In such to be influenced by the rains in the fall, to instances the tree seldom recovers, except it is cut down below the injury and a new stock till late in the season, and be followed by a grown from a sprout at the root. It would be few warm days, the sap will naturally be set a good plan to protect the stock the first in motion although the tree may not make season from the influence of the sun, by wind- any new growth. These two results would be development of our home resources. ing it with rags or straw, from the ground to the same, in effect, the sap not properly elabthe limbs; but not so tight as to interfere with the growth of the tree. There has been many thick and clammy, and by severe freezing the trees transplanted here, on ground with an sapvessels are ruptured, and in the spring or uneven surface and in irrigating, the water early summer; patches of black, shriveled, the North, the soil becoming florded. The effect in such the top of the tree. The irrigating of fruit trees cases, is to settle or pack the soil; and when the water dries off, the ground becomes hard, September; but a little water should be appiled and does not admit of a proper circulation of occasionally to keep them from becoming too air in it; the soil heats by the sun to that dry before the fall rains. degree, that small roots or spongioles become scalded. The leaves of the tree turns yellow; often nearly white, shrivel up and frequently perish; the growth of the tree is checked (except to mature fruit). and it often becomes worthless. The surface of

of the ground, should, in the first instance, be fruit trees should undergo a state of drought made uniform, so that the water may run to cause the young wood to ripen. When freely in the irrigating channels to every tree, cool weather comes in Autumn, the growth

them back, in April, to within four or five feet duce a late growth For some three years past many of the in- of the ground, and let them form new wood. On account of the injured condition of fruit That the apple, pear, peach, apricot, plum, shortning-in system when the trees are three as their merits will warrant.

low lands, that have a rich, deep, and moist winter or spring. Apple trees in such locations would not be injured by heat as they are on dry soils. The trees would blossom later in the season and be quite as sure to produce fruit as those in higher locations. The fruit may not be so large but may generally be expected to be of better flavor and to keep longer, than that grown on uplands. There is evidently a great difference on the high land or benches, in regard to frost in the spring and fall, and the effect of the cold in winter. It appears that the difference is produced by the east wind, which sets in soon after sun set. These winds coming from the high mountain ranges, are very severe in winter, and the than in those that are sheltered from those currents of air, as may be seen in the seventeenth and nineteenth wards in this city, and in other places which are equally as well protected. These sheltered locations are very

From eastern reports, it appears that the peach is more hardy grafted on the native plum-stock, and putting out the blossoms late, escape the spring frosts. The native plum, a similar piece of land after four years wheat thrives and bears well worked on the peach; There has been considerable written here on | and probably is a valuable stock to work the peach on for this climate.

The native thorn, is a good stock for the mer months to keep up a suitable supply of make a second growth. If the rains h ld off dead bark appear, which will destroy a part or should not be altogether stopted by the first of

If the general irrigating has left the subsoil quite moist, but little will be required after,

without flowing over the whole of the soil. ceases, the sap goes down, and they are Experience teaches that apple trees should not equally as well prepared for rest till another set more than fourteen or sixteen feet apart; spring as they can be by art. Water should be they are much benefitted by their own shade. used with caution in Autumn. A very exuber-The peach and apricot, twelve or fourteen. ant growth is not desirable, as it seldom be-A REVIEW OF FRUIT CULTURE IN The plum, eight or ten feet. The peach trees comes properly matured; and liquid manure, or that have become large and the fruit small or any other fertilizer, should not be applied in the APPROVED BY THE DOMESTIC GARDENERS' CLUB. insipid, would be much improved by cutting summer as it would have a tendency to pro-

habitants of these valleys have been growing They can be kept, by this method, in a healthy trees, there cannot be a correct judgment formed fruit trees to some extent, and the results of state a much longer time, and the fruit will on the merits of imported or native fruit which their labors are various: with some their improve. After the tree is cut back, there will came into bearing the past year; indeed it will exertions have been crowned in a great be a great number of sprouts start from the take two or three years for the trees to recover | nterest the public. measure with success, while others have not stumps which should be thinned out, so as to produce true types of their fruit, realized their expectation, and the outlay and leave only a suitable number to form the new Those varieties that received the least injury top. It would be a good practice to adopt the should be selected from for cultivation, as far

L. S. HEMENWAY,

How to Prevent Smut in Wheat.

TO THE EDITOR OF THE DESERET NEWS: Sir:-None will contravene the axiom, that but one had grown, is a benefactor to his species; if this is correct in regard to grasses, that purpose. it is yet more beneficial in connection with the increase of cereals, particularly those which state of the treasury at the next meeting.

forms the staple of man's consumption. each year bears witness to a great diminution tary for the ensuing year. in the anticipated yield of wheat, consequent on the prevalence of smut. It will be unnecessary to enter into all the theories which have been formed with regard to the causes of this diseased development of grain culture, but we can understand a few facts in connection with the subject. Whenever smut is produced instead of wheat, it is a public sacrifice of labor, and consequent wealth, there is the same trouble in sowing, irrigating, reaping and thrashing, but in the results, many hundreds of dollars, annually, in the accumulated industry of our commonwealth.

Ever anxious to fill the responsibility de-The injury that the wood of fruit trees soil, and may be expected to thrive with "Deseret Agricultural and Manufacturing Society' have sought by debate and experience, to provide a remedy for this evil. At the last weekly meeting of the board, a very interesting, and animating discussion, elicited from two members, very positive testimony as to their experience, with a nearly similar

process. Mr. Levi E. Riter said: "On the 16th March 1860, I purchased from Mr. Thomas Turbet, eleven bushels of wheat, as perfect in I discovered, that my crop was one half smut. I submitted the remaining four bushels to the following process: In a strong salt brine, I stirred the whole four bushels, carefully skimming whatever floated. I drew off the brine frost or cold is more fatal in exposed places, large buckets full of hot white wash, made for future use, then poured on the grain two from fresh burnt lime, stirred the whole till each grain was coated with the mixture. I covered with boards for twenty-four hours, and then sowed where wheat had been grown for four years in succession. The result was a produced. I also applied the same process to some of my own wheat, which had become very foul and degenerate, the lime was so strong as to perfectly skin the grain. I sowed cropping, and with the same results. I had tried many experiments, washing in water lye, lime, etc., but to the use of lime I owe my immunity from the evil of smut

Exchanging wheat for seed will not accomplish the object as I, in common with others, have often proved. It would be advisable to purchase lime in the fall and cover it up that from \$500 to \$700 each. it may not become air-slacked. Every farmer his necessities might require, and, by using as I have suggested, we can banish the appear- a profitable Placer. ance of smut from our Territory.

Mr. Nebeker said the following remedy was suggested to him by Mr. Ethan Pettiti, myself

The board earnestly recommends a trial of the above practice, in the hope that a general | ing from \$250 to \$900. good will be secured, and would be pleased to ence in each settlement, we solicit communications on any improvements in agritulture, horticulture, floriculture, and kindred sciences, that when new our corresponding Secre-

tary may prepare them for publication. We have a great work before us, the

By order of the President and Directors. HENRY W. NAISBITT, Corresponding Secretary, D. A. & M. S. G. S. L. CITY, March 11, 1861. www.

With proper culture, it is not necessary that lions of dollars annually in artificial manures pending struggle.

D. A. & M. Society

G. S. L. CITY, March 9, 1861. 7 p.m. The board of the Deseret Agricultural and Manufacturing Society met at the house of President Edward Hunter.

Present: John R. Winder, John Nebeker, William Wagstaff, Albert P. Rockwood, N. H. Felt, Levi E. Riter, Directors. Jesse C. Little, Treasurer. Thomas Bullock, Secretary. On motion, Mr. Winder was elected President pro tem.

Prayer by Mr. Rockwood-

Mr. Winder reported what the committee had done in selecting. Books and Periodicals for premiums to stimulate the people and

Mr. Bullock read the list of agriculturalbooks and publications with the prices.

Mr. Rockwood moved that the committee continue their labors, and obtain funds to pay for the books and periodicals; carried.

The board then took into consideration the propriety of buying or renting a piece of ground on which to sow seeds and plant roots and cuttings that may be forwarded to this Territory.

Messrs. Rockwood, Wagstaff, Riter and he who produces two blades of grass, where Nebeker were appointed a committee to examine and select a suitable piece of land for

The Treasurer was requested to report the

On motion, Henry W. Naisbett was unani-It is well known that in this Territory, mously elected to be the corresponding secre-

Messrs. Nebeker and Riter gave their experience on the prevention of smut in wheat and were requested to write out the same for publication.

Mr. Riter then gave his views on sowing red top grass, and which, he declared, willrun out all the wild grasses.

Min tes read and accepted. Adjourned to next Saturday at 7 p.m. THOMAS BULLOCK, Secretary.

The Spoils of Office.

The New York correspondent of the Boston Post thus enumerates the federal offices in that city, with the corresponding salaries:

First in importance and revenue is the collectorship, with its fixed salary of \$6,340, and some \$2,000 more in the form of pickings and fees. In the Custom House, as subordinate to the Great Tycoon above referred to, are an auditor at \$4,000; an assistant auditor, \$3,000; cashier, \$3,000; assistant cashier, \$2,500; seven deputy collectors, \$2.500 each; general appraiser \$2,500; three appraisers, \$2,500; appearance, as any I ever saw. Seven bushels clerk, \$2.000; warehouse superintendent, \$2. six assistant appraisers, \$2,000; chief entry I sowed, upon a five acre lot, following barby, | 000; drug examiner, 2,000; thirty-three clerks it made a beautiful growth, but on heading at \$1,000; thirty-three weighers, gaugers and measurers at \$1,485; twenty-six clerks at \$1,-400; one liquidating clerk at \$1,600; ten clerkships at \$1,300; thirty-one at \$1,200; fifty-eight at \$1,100; two hundred and sixty-one inspectors at \$1,095; th rty-four clerks at \$1,000; and one hundred and twenty-two regularly salaried clerks etc., whose pay varies from \$400 to \$800 per annum. I need not enlarge upon the suggestive items of extra service, fees and the long detail of similar methods of increasing both the number and pay of officials in this department of Uncle Samuel's household; nor prefect success; scarcely an ear of smut was need I refer to the local light house service, with its immense patronage-say \$30,000.

Then as a sort of corollary, must be named the naval office, with its chief officer, at \$4,950; and the indefinite (or rather infinite,) fees; three deputies, \$2,000; two subordinates, at \$1,500; seven at \$1,400; two at \$1,200; five at \$1,050; twenty-five at \$1,000; and thirteen at from \$500 to \$800. Let me not omit mention of the Surveyor's office, which furnishes easy chairs for the following officials:-Surveyor, \$4,900; two deputies at \$2,000; one clerk at 1,200; four at \$1,100; five at \$1,000; and several "subs" at

The post office is always vastly over-estimashould purchase from one to five bushels, as | ted as a source of income to its incumbent, albeit the late lamented Mr. Fowler found it

The actual salary is only \$2,000, with a commission upon the rent of the boxes, and sundry fees and grubbings, which united, make and others have tested, and proved its value: the place worth from 5,000 to 8,000 honest Cleanse the wheat by washing, slake too dollars per annum. The patronage, however, quarts of good lime to each bushel, add water is quite extensive, as will be seen from the sufficient to cover the grain, allowing it time fact that there are some 265 employees connecto soak from twenty-four to thirty-six hours, ted with our dirty, dilapidated Dutch church then sow. The best of lime should be had, or in Nassau Street. Of these, six get \$2,000, thirty-six from \$1,000 to \$1,500, and more than two hundred subsist on yearly stipends vary-

The District-Attorneyship and the Marshalreceive communications as to the individual ship are put down in the appropriation at \$2,000 and fees. This last item is of a varying magnitude, but is most remunerative in the case of the Marshal, whose office is worth probably \$10,000 honestly, and can be made to pay twice as much by such as cannot afford to keep a conscience.

The Apitant Treasurer gets \$4,000, his chief clerk \$2,160, and nine clerks, messengers orated, and being acted upon by frost, becomes labor of love, and for our common weal, till 000 annualy. The Superntendent of the Assay Zion shall become fair as the sun, clear as the office, receives \$3,500, and the Assayer and Refiner, each \$3,000; then there are eight Refiner, each \$3,000; then there are eight assitants and clerks who receive from \$1,500 to \$2,500 each.

Steamboat hulls and boilers baveto be inspected by two officials, who pocket\$2,000 for this service. A Supervisory Insector gets \$1,000. Of course there is a longlist of non-Artific'al Manures .- In a late lecture, Dr. desript public officers, whose emolments avail Anderson, chemist to the Highland and Agri- to keep from starving, hundreds if not thoucultural Society of Scotland, stated that the sands of our citizens. The abve, however, farmers of Great Britain expend twenty mil- are such as will first be exhauted in the im-