

MULCHING

Is a very important part of agriculture, particularly in these regions. It is to keep the surface loose and pulverized two to four inches deep, during the time of vegetable growth.

Without entering into theories, I will simply point out—

1. It breaks the evaporation partly, and causes dampness to remain longer in the ground.

2. It promotes the atmospheric connection with the roots. Farmers and gardeners know that the hard, dry and barked crust, is unfavorable to vegetation of any kind, even large trees.

Irrigation has a tendency to settle the soil and make it hard, more or less, according to its want of humus (decayed vegetable and animal ingredients), hence mulching is more necessary here than in rainy countries.

It has not been alone to destroy weeds, that farmers and gardeners, from times of old, have harrowed their winter wheat in the spring, plowed their potatoes and corn in the summer, hoed their cabbage, or covered the surface between the plants with remains from stack-yards and woodpiles, etc. It has been done also because they have been acquainted with the two abovesaid theories, or their effects.

Facts, farmers and gardeners' experience, is abundant and demonstrating on this subject. To plowing, harrowing, manuring, sowing, irrigating, weeding, etc., much of the success in agriculture is attributable of course; while mulching under many circumstances, and in many localities, should be credited for 50 per cent of the crops.

It is apparent, in traveling through our irrigation districts, that there are farmers and gardeners who do not believe in this. And it is not seldom, that, instead of mulching after irrigation, when the ground in a few days gets dry and hard, repeated irrigation is resorted to, chilling and destroying vegetation.

The statistics of advancement in agriculture and horticulture could probably be taken from the amount of hoes and other mulching implements, distributed in the country by the parent co-operative mercantile institution in Salt Lake City.

By the present system in agriculture mulching can not be applied in cultivation of what is called "small grain"—wheat, rye, barley, and oats; but on account of the great benefit derived from thorough and repeated mulching, it is reasonable to expect that drill culture will be the future mode of agriculture, in these irrigating regions, that the small grain culture also may have the great benefits derived from mulching.

INDEPENDENT JOURNALS.—The New York Herald has an awful dig at the "independent" journals.

The Herald says many journals take to the "independent journal dodge as a cover for any charges of a want of party fealty"—

"It is astonishing to witness the spread of independent journalism about these days. The epidemic is not confined, either, to any particular locality, but extends alike North and South, East and West—wherever the decayed matter of party politics or the shriveled condition of the party press produces symptoms of immediate or prospective dissolution."

"After the Baltimore Convention, however, we expect a good many of these independent journals will show their colors, and the epidemic of independent journalism cease to rage with its present virulence."

A RAILROAD WATCH.

Travelers by Railroad frequently find their watches completely demoralized by the continuous jar of the train. To overcome this difficulty has long been a problem with watch-makers, and it is now successfully accomplished in the new grade made by the AMERICAN WATCH CO. OF WALTHAM.

This watch is made in the most substantial manner, on the most approved principles, and combines all the recent improvements. It has a new micrometrical regulator, by which the slightest variation can be easily corrected. It is carefully adjusted, and may be entirely relied on to run accurately, wear well, and ENDURE THE HARDEST USAGE, without any derangement whatever. We confidently recommend this watch to the trade and the public as the BEST WATCH FOR THE PRICE IN THIS MARKET.

The full trade-mark engraved on the plate of each watch is "AMERICAN WATCH CO., CRESCENT-ST., WALTHAM, MASS." and it is distinctively known as the CRESCENT-ST. Watch.

For sale by all leading Jewelers.
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PROVO CO-OP. POTTERY.

ALL KINDS RED WARE at Greatly Reduced Prices. Large discount to Merchants and Peddlers. For further particulars inquire of WM. D. ROBERTS or J. BUCKNER, Provo City.



Are induced and prescribed by more leading Physicians than any other tonic or stimulant now in use. They are A SURE PREVENTIVE for Fever and Ague, Intermittents, Biliousness, and all disorders arising from miasmatic causes. They are highly recommended as an anti-dyspeptic, and in cases of indigestion are invaluable as an Appetizer and Recuperant, and in cases of General Debility they have never in a single instance failed in producing the most happy results. They are particularly BENEFICIAL TO FEMALES, strengthening the body, invigorating the mind, and giving tone and elasticity to the whole system. The HOME BITTERS are compounded with the greatest care, and no Tonic Stimulant has ever been offered to the public SO PLEASANT TO THE TASTE, and at the same time combining so many remedial agents, induced by the medical fraternity as the best known to the Pharmacopoeia. It costs little to give them a fair trial, and

Every Family should have a Bottle.

We ask every one to read the following Certificates from many of the most eminent physicians in the country:
St. Louis, July, 1870.—JAMES A. JACKSON & CO.: Gentlemen—As you have communicated to the medical profession the recipe of the "Home Bitters," it can not therefore be considered as a secret or patent medicine, no patent having been taken for it. We have examined the formula for making the "Home Bitters," and unhesitatingly say the combination is one of rare excellence, all the articles used in its composition are the best of the class to which they belong, being highly Tonic, Stimulant, Stomachic, Carminative and slightly Laxative. The mode of preparing them is strictly in accordance with the rules of pharmacy. Having used them, seen its effect in our private practice, we take pleasure in recommending them to all persons desirous of taking Bitters, as being the best Tonic and Stimulant now offered to the public.

L. CH. BOISLINIERE, M. D. F. G. PORTER, M. D.
ALFRED BEACOCK, M. D. C. GERICK, M. D.
DRAKE McDOWELL, M. D. C. A. WANE, M. D.
J. C. WHITEHILL, M. D. E. A. CLARK, M. D.
Dr. C. V. F. LUDWIG, R. G. MOSES, M. D.
W. A. WHITCOMB, M. D. HUBERT PRISM.
U. S. MARINE HOSPITAL, St. Louis, Mo., Oct. 8, 1870.—JAS. A. JACKSON & Co.: I have examined the formula for making the "Home Bitters," and used them in the Hospital for the last four months. I consider them the most valuable tonic and stimulant now in use.

St. Louis, July 6, 1870.—JAS. A. JACKSON & Co.: Having examined the formula from which your celebrated "Stomach Bitters" are prepared, and having witnessed the method of combining the different ingredients, we can safely recommend them as the best tonic with which we are acquainted. From the great care with which they are compounded, and from the choice materials which enter into them, we have no doubt that they will prove, as they deserve to be, the most popular tonic and stimulant in use. Respectfully yours,
T. J. VASTINE, M. D. T. G. COMSTOCK, M. D.

We cheerfully concur with every word contained in the above testimonial.
JOHN CONZELMAN, M. D. JOHN HARTMAN, M. D.
CHAS. VASTINE, M. D. JOHN T. TEMPLE, M. D.
G. S. WALKER, M. D. E. C. FRANKLIN, M. D.
CINCINNATI, Oct. 19th, 1870.—Messrs. W. B. KENNEDY & Co., Agents "Home Bitters": Gentlemen—In answer to your request, I have examined the formula of the "Home Stomach Bitters," and find the remedies it contains such as are in general use by the Medical profession. They are very scientifically and pleasantly combined, and as stimulating tonics will be found especially adapted as corroborants to the treatment of low or debilitated stages of the system, whether arising from impaired digestion, or from malarious diseases.

Dr. J. L. VATTIERS, L. A. JAMES, M. D.
R. S. WAYNE, Chemist. C. T. SIMPSON, M. D.
W. T. TALLAFERRO, M. D. S. P. BONNER, M. D.
J. J. QUINN, M. E. C. S. MUSCROFT, M. D.
J. H. BUCKLE, M. D. G. W. BIGLER, M. D.
W. R. WOODWARD, M. D. G. A. DOWNEY, M. D.
CHICAGO, Sept. 30, 1870.—J. L. SMITH, Esq.: We have examined the formula of the "Celebrated Stomach Bitters," and find it to be composed of articles that are considered the best tonics used by the Medical profession, and one of the best bitters we know of now in use. Very respectfully,
H. S. HAHN, M. D. E. M. VIVIAN, M. D.
J. B. WALKER, M. D. G. A. MARINER, M. D.
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For Sale by all Druggists and Grocers,

Jas. A. Jackson & Co., Proprietors,

Laboratory 105 & 107 N. 2d Street,

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ESTABLISHED: SALT LAKE CITY, 1871.
CHICAGO, 1851.
C. C. WALLIN & CO.,
WHOLESALE DEALERS IN
LEATHER AND SHOE FINDINGS,
SADDLERY, HARDWARE, U. T.
2nd SOUTH ST., 1st Door } S. L. City, U. T.
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CACHE VALLEY STAGE

LEAVES Corinne at 6 and Brigham City at 8 a. m. Mondays and Thursdays and arrives at Franklin at 6 p. m. Leaves Franklin at 8 a. m. Tuesdays and Fridays and arrives at Brigham City at 6 p. m. w9t

140,000

SINGER SEWING MACHINES

WERE SOLD DURING THE PAST YEAR.—Scientific American, June 10, 1871

The Singer Manufacturing Company,

AT THE

WORLD'S FAIR,

Constituted by the homes of the people,

Received the Great Award of the Highest Sales! and have left all

Rivals far behind them! As the following article shows:

"SEWING MACHINE SALES FOR 1870.

The magnitude to which the manufacture of sewing machines has attained is shown by the "SWORN" returns (to which anyone can have access) of the manufacturers for the year 1870 to the owners of the leading patents, on which they pay a royalty. According to these returns the number of machines sold by each manufacturer in 1870 is as follows:

The Singer Manufacturing Company.....	127,833.....	Difference.
Wheeler & Wilson Manufacturing Company.....	83,208.....	44,625
Howe Machine Company.....	75,156.....	52,677
Grover & Baker Sewing Machine Company.....	57,402.....	70,431
Weed Sewing Machine Company.....	35,002.....	92,831
Willcox & Gibbs Sewing Machine Company.....	28,890.....	98,943
American Buttonhole & Overseaming Company.....	14,573.....	113,260
Florence Sewing Machine Company.....	17,690.....	110,173
Gold Medal Sewing Machine Company.....	8,912.....	118,921
Atina Sewing Machine Company.....	5,806.....	122,027
Empire Sewing Machine Company.....	3,560.....	124,273
Finkle & Lyon Manufacturing Company.....	2,420.....	125,413
Parham Sewing Machine Company.....	1,765.....	126,067
Wilson.....	500.....	127,333

And several other Companies who sold a few Machines.

It will be seen by this table that the popularity of the Singer Machines far exceeds that of all others, their sale being one-half greater than even that of the famous "Wheeler & Wilson" Machine. This is owing to the fact that the Singer Company have lately commenced making, besides their old and well-established manufacturing machine, what is known as their "New Family Machine," which is selling at the rate of nine to one better than the old style. Their total sales for 1869 were 86,731 machines against the 127,833 of 1870, showing an increase of one half in the latter year.—New York Sun.

The total Sales of "Singer" Machines are very nearly

THREE QUARTERS OF A MILLION!!!

Two thirds of which were sold within the last three years, and all are in

SUCCESSFUL DAILY USE!

And still there are Agents, for even the poorest Machines, who persist, in the most "unblushing manner," in decrying ours, as if it were possible for the "Overwhelming and rapidly increasing Majorities of Singer Purchasers" to be mistaken.

We are not so vain as to suppose that these large sales are due to superior business capacity so much as to the superior merits of the Singer Machines, as well as the

OBSERVATION OF THOSE WHO BUY AND USE,

And are personally interested in comparing the merits of the different Machines before making a selection.

THE

'NEW FAMILY SINGER' SEWING MACHINE,

WITH ATTACHMENTS FOR ALL KINDS OF WORK,

We claim and can show is the cheapest, most beautiful, delicately arranged, nicely adjusted, easily operated, and smoothly running of all the Family Sewing Machines. It is remarkable not only for the range and variety of its sewing, but also for the variety and different kinds of texture which it will sew with equal facility and perfection, using silk twist linen or cotton thread, fine or coarse, making the INTERLOCKED-ELASTIC STITCH, alike on both sides of fabric sewn.

The only STITCH that is Universally Approved, or is at all adapted to FIRST-CLASS WORK.

Thus, beaver cloth, or leather may be sewn with great strength and uniformity of stitch, and, in a moment, this willing and never-wearying instrument may be adjusted, even by a child, for fine work on gauze or gossamer tissue, or the tucking of tarian, or ruffling, or almost any other work which delicate fingers have been known to perform.

All Machines Sold Guaranteed to give Entire Satisfaction!

Terms to Suit All!

OTHER MACHINES THOROUGHLY REPAIRED AT REASONABLE RATES!

WE MAKE NO CHARGE FOR CARTAGE WITHIN SALT LAKE CITY!

BEWARE of Spurious Needles, Poor Silk, Twist, Linen and Cotton Thread,

Bad Oil, etc., Which may render the Best Machine Useless. The Singer

Company manufacture their own Needles, Silk and Twist; furnish

Linen and Cotton Thread and Oil—all of Superior Quality—

but which can be relied on only when obtained through their

Principal or Branch Offices.

THE SINGER COMPANY have, for the past three years, been unable to supply the demand for their machines; though much has been done to increase their manufacturing facilities. Much more is being done at home and abroad in enlarging their present manufacturing, building new ones, availing of the best machinery, and the services of the most skillful artisans, in the hope of being able to accept propositions for agencies, where such are not already established, though they are now tolerably well represented throughout the civilized world.

Be Sure to get the Best. Before you Purchase be sure to see the "Singer" at the Central General Agency, Singer Sewing Machine Depot Z. O. M. I., EAST TEMPLE ST., second door South of Eagle Emporium, SALT LAKE CITY.

H. B. CLAWSON, Supt.