Farm, Stock and Fruits.
Facts and Discussions.

BETTER SOIL CULTIVATION.

Subsoiling and its Value—Improvements in Plows.

The John Deer Plow Co., of Moline, Illinois, is sending out a phamplet entitled the "Passing of the Plow," from which the following suggestions are taken:

We believe that we are on the eve of a revolution of the system of soil cultivation, particularly in the methods of plowing, if indeed, the revolution is not already begun. The now famous remarks of Secretary Morton, that "the plow has outlived its usefulness," and that "the plow used by the American farmer is a humbug and an enemy to fertility", were not hastily formed conclusions; but opinions based upon extensive study of the conditions and needs of American farms in relation to crop productions, and they have set a lot of men to thinking along these lines The result will doubtless soon be seen in the production of really improved field impliments which will materially change the method of plowing and cultivation, to bring in practical use the scientific knowledge relating principally to the control of the moisture in the soil by mechanical means, rather than the use of fertilizers, as we believe this is to be the great factor in future crop production.

Secretary Morton further says: We have improved our plows less than any other implement man uses. It is very important, in my judgment, that a plow shall be invented that shall not leave the earth over which it passes so compacted by pressure as do the plows now in use. In shallow tillage, with a cut of say four inches in depth, the leverage of the plow point against the earth, the whole weight or power of the team producing a downward pressure at the cutting edge of share, leaves the base of the furrow that is turned over smooth and hard. In fact, it renders it almost impervious to water. Therefore, when a torrential rainfall comes upon land thus plowed and lying upon a land slope, the wash is enormous.

"I am inspired to allude the inventive genius of all interested to study the possibility of a plow which shall loosen and tear up the bottom of the furrow to a depth of say two or three inches below the cut of the plow. I do not mean to have the ground turned up but simply to have it loosened, so that the rain could percolate below the depth of the furrow, instead of being forced to run off as though the furrow was an cave-trough. Possibly there may be some kind of a revolving cutter attached below the moleboard, or a series of revolving cutters. The object that I seek is to stir and separate the earth at a greater depth with the same plow than it is possible to stir or separate it with the contrivances or implements for plowing now in use."

Subsoiling.—Subsoiling is not a turning of the under soil to the surface—this would be only deep plowing—but it is simply a loosening of the subsoil and allowing it to fall back without bringing it to the surface at all. This operation permits the under soil to receive a greater amount of moisture and to retain it, because, being loose and loamy from the operation of subsoiling, it becomes more like a sandy soil, more retentive of moisture. The benefit, therefore, of subsoiling in a sandy soil is that the water is more readily removed from the the top soil, while it is, at the same time, retained for the future use of the crop. The advantage of subsoiling a heavy soil, on the other hand, is that the water, instead of being removed by surface drainage or evaporation, is allowed to sink into the soil, where it is retained, and when the closer top soil would otherwise become hard and unfit for the growth of the crop, especially if the rains be followed by a long drouth, there is a large amount of water stored away in the subsoil to be drawn upon as needed by the growing vegetation. Subsoiling effectually does away with the hard packing of the bottom of the furrow as left by the ordinary plow.

Is Subsoiling Practicable?—Subsoiling is an expense, and yet when we consider, in addition to the saving to future fertility of this enormous acreage now rendered barren by erosion, the vastly increased crops and improved quality of the product—for these things are a matter of actual experience and not a mere theory—the small additional expense of subsoiling need not enter into our consideration. Besides, it is not necessary to subsoil every year, but only once in two or, in some soils, once in three years. We believe, however, that with the investigation and experiment that are now being put upon this subject, the time is not far distant when an implement will be constructed that will both plow and subsoil at one and the same operation.

HOW TO CURE HAMS.

E. M. Todd, of Virginia, whose cured hams have given his product a reputation that sells them wherever offered, gives the following description of his method of curing:

1 The hams are placed in a large tray of fine Liverpool salt, then the flesh surface is sprinkled with finely ground, crude saltpetre, until the hams are as white as though covered by a moderate frost, or say use three or four pounds of the powdered saltpetre to the thousand pounds of green hams.

2 After applying the saltpetre, immediately salt with the Liverpool fine salt, covering well the entire surface. Now pack the hams in bulk, but not in piles more than three feet high. In ordinary weather the hams should remain thus for three days.

3. Then break bulk and re-salt with fine salt. The hams thus salted and re-salted, should now remain in salt in bulk one day for each and every pound each ham weighs—that is, a 10-pound ham should remain 10 days, and in such proportion of time for larger and smaller sizes.

4. Next you wash with tepid water until the hams are thoroughly cleaned, and after partially drying rub the entire surface with finely ground black pepper.

5. Now the hams should be hung in the smoke house, and this important operation begun. The smoking should be very gradually and slowly done, lasting thirty to forty days.

6. After the hams are cured and smoked they should be re-peppered to guard against vermin, and then bagged. Those hams are improved with age, and the Todd hams are in perfection when one year old.

POULTRY YARD FACTS.

Thomas Bolton, of Salem, reports to this department of THE JOURNAL some facts about a small home poultry yard he has conducted for two years. In 1894 he began with 41 fowls and at the end of the year he had 75. He kept account carefully of fowls that were eaten, sales of eggs and increase, deducting cost of feed and the yard for the year netted $75. The flock for 1895 began business with 75 fowls, but fifteen broilers were killed off, so it left only 60 to start with. At the end of the year he had 90, but during the year 28 full grown hens and cocks were killed, and enough broilers and friers to make the total killing for 1895 come to 129 birds valued at $16.15. The egg sales amounted to 438 dozen that brought $54. Estimating the increase at $4 the total product of the year was $74.15. Deducting cost of grain fed, the yard this year netted $50. A great many more were used for the family table in a half grown state and eggs and fowls sold did not bring as good prices. But the two years show useful and suggestive figures.

PLANTING FRUIT TREES.

Experience has taught a good many men, but not all, that it is better in almost every way to plant fruit trees one or two years old in the nursery rather than those four or five years old, says the California Fruit-Grower. Some men buy nursery trees as some Chinamen buy boots. They get the largest size possible for the money paid. But others, and probably the better orchardists, do not care to buy cordwood of nurserymen and hence take younger trees that have more fibrous roots. The smaller trees generally cost less, are more easily handled in transporting and planting and in a few years' time will be likely to outstrip those which were much larger at time of planting. Many good orchardists maintain that at five or six years from planting the smaller trees will show the best results both in fruitage and heathfulness of the orchard. Those contemplating planting orchards during the coming season may well consider the subject of size and age of trees they select. In any event, it is always well to make selections early in the season and take plenty of time to prepare the ground and plant.

EGG PRICES.

Examination the past week show that egg prices were about as follows: San Francisco, 27 cents; Portland, 20 cents; Salem, 15 cents, As freight to San Francisco is only 40 cents a hundred, and commissions and all cannot reach over 3 cents per dozen, the prices at Salem are relatively too low. What we need is some one to gather up and ship out the egg product to larger markets. By encouraging the stage lines to bring them in there is no reason why one to two thousand dozen per week could not be exported to 'Frisco and Puget Sound markets The absence of extreme heat and cold ought to make it easier to handle this class of produce than in climates where refrigeration is necessary

DIVERSIFIED THOUGHTS.

Give the children a few pennies now, or give them a chance to earn some money to buy a few flower seeds and bulbs to beautify your home in the spring. It will not only give you more attractive surroundings, but add a treasure to your childrens' storehouse of culture which will bloom as long as they live.

Western Oregon has the best irrigation system on earth. It is run on correct principles and there is no patent on the method. The inventor and operator is impartial and treats his patrons all alike. They can depend upon just 48 inches of water year in and year out. It is furnished without stint, and there are no agents or middle men.

A fertile piece of land is a good thing, but a fertile mind is needed to get the fullest good out of it. Nearly every farmer knows how to make his land rich, viz., by giving it the necessary food. The same rule applies to the mind, and as with the land, it requires work to bring about the improvement.

It is a fact that only the best bred hogs are subject to the fatal disease, "hog cholera." It would be a blessing if more Oregon hogs were subject to the complaint. If it only strikes thoroughbred stock, let us pray for an epidemic of cholera. In the meantime, let us have more good hogs.

Any one with 25 or more fruit trees should own a spray pump, and use it, too. This is the time of the year to prune your trees to shape and spray them with winter washes, such as Bordeaux mixture, lime, salt and suphur mixture, and vitrol water. It pays.

Keep your buildings well painted. It is almost as good as a certificate of character says an eastern man. The truth is, its better than a certificate of character, for it is seen by everybody and the latter is not.

Oregon fruit growers ought to spend the balance of the winter's leisure in looking up their business as well as getting together and discussing methods of culture and the best methods of marketing.

Pet your young stock and save the trouble of "breaking" it in later years.

A. F. STOWE'S LECTURE.

A Brief Synopsis of His Statements at the W. C. T. U. Rooms.

The rooms of the W. C. T. U. were crowded Sunday afternoon, and if he will speak again the crowd will be larger than can be accommodated in the rooms.

To establish his theory that drunkenness is a disease the speaker quoted Dr. Talmage, and showed that the use of the Keeley remedies were authorized by the United States government in the army and navy. That seven states had passed laws authorizing their use for destitute drunkards at the expense of the county. That New York requires by law ten weeks of instruction each year in her public schools that the use of alcohol produces a diseased condition of body and mind.

Then he said if it was a disease, what a national shame and sin, what a travesty upon national honor and justice it was to license thousands upon thousands of low grogeries and gilded palaces to spread the germs of disease broadcast throughout the land; and what was infinitely worse to imprison the unfortunate man who happened to contract the disease. If it is a disease we have no right to hit the poor drunkard over the head with a policeman's club and lock him up unless we lock up a physician with him to take care of him. He said the drunkard needed to be treated by something more than a moral pharmacy. He did not believe in faith cures or that there was any moral cure for the disease. That the Keeley, or any cure of equal merit, if there be such, was a helper to the church, as it placed the drunkard where the church could reach him. That the brain was where will power lies, and when that is paralyzed the drunkard has nothing upon which to base a moral effort.

That you might as well ask the victim of yellow fever why he does not cure himself with will power, as to ask the same thing of the confirmed drunkard. He handled his subject "From Bondage to Freedom" in a scholarly and graphic manner and held the rapt attention of all.

He paid an earnest tribute to the W. C. T. U. and to all Christian Temperance women, and showed by reference to the pioneer mothers, Joan of Arc and the famous Captain Molly, that when men were wanting or powerless, women were to be found who were equal to the emergency.

W. C. T. U.

Hood's is Wonderful.

No less wonderful are the cures accomplished by Hood's Sarsaparilla, even after other preparations and physicians' prescriptions have failed. The reason, however, is simple. When the blood is enriched and purified, disease disappears and good health returns, and Hood's Sarsaparilla is the one true blood purifier.

Hood's pills are prompt and efficient and do not purge, pain or gripe. 25 cents.

Free Pills.

Send your address to H. E. Bucklen & Co., Chicago, and get a free sample box of Dr. King's New Life Pills. A trial will convince you of their merits These pills are easy in action and are particularly effective in the cure of Constipation and Sick Headache. For Malaria and Liver troubles they have been proved invaluable. They are guaranteed to be perfectly free from every deleterious substance and to be purely vegetable. They do not weaken by their action, but by giving tone to stomach and bowels greatly invograte the system. Regular size 25c. per box. Sold by Fred A. Legg, druggist.

Children Cry for Pitcher's Castoria.

Will Not Perform Miracles But It Will Cure.

DR. MILES' RESTORATIVE NERVINE cures nervous prostration. Not miraculously, but scientifically, by first removing the germs of disease, and then supplying healthy nerve food, increasing the appetite, helping digestion and strengthening the entire system. Desperate cases require prolonged treatment as shown by that of Mrs. M. B. Reed, of Delta, Iowa, who writes: "As the result of a lightning stroke, the physicians said I had a light stroke of paralysis, my limbs would all draw up. I would have throbbings in my chest that seemed unendurable. For three months I could not sleep and for three weeks did not close my eyes. I prayed for sleep, and felt that if relief did not come I would be dead or insane. I took Dr. Miles' Restorative Nervine and the second night slept two hours and from that time on my health improved; slowly at first, but steadily and surely. I took in all 40 bottles, and I cannot express how grateful I am, for I am now perfectly well, and have taken no medicine for over four months." Dr. Miles' Nervine is sold by druggists on guarantee that first bottle benefits or money refunded.

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I mean what I say, am also going to add a large line of wall paper and moulding to my stock

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New factory shoes, plain	1 00
With toes and calks	1 50
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Suits $15 upwards. Pants $5 upwards.

NOTICE

Notice is hereby given that sealed plans and specifications will be received until February 3, 1896, at 10 o'clock, a. m., for a hospital building at the Soldiers' Home, Roseburg, Oregon. Said building to be of wood, one story high, with basement; separate rooms for four inmates and a ward large enough for 20 persons, and the estimated cost not to exceed $5000. These plans and specifications must include every thing necessary for a complete structure, modern sanitation strictly observed, and addressed to the undersigned, State House, Salem, Oregon.

B. F. ALLEY,
Chairman Executive Committee.

1-8-2w

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8:50 p. m.	lv. Portland ar.	7:10 a.m.
11:00 p. m.	lv. Salem lv.	7:00
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Above trains stop at East Portland, Oregon City, Woodburn, Salem, Turner, Marion, Jefferson, Albany, Albany Junction, Irving, Eugene, Creswell, Drain, and all stations from Roseburg to Ashland, inclusive.

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8:30 a.m.	lv. Portland ar.	4:40 p.m.
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5:20 p.m.	ar. Roseb'g lv.	8:30 a.m.

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A. P. T. L.

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"The object of this League shall be to protect American labor by a tariff on imports, which shall adequately secure American industrial products against the competition of foreign labor."

There are no personal or private profits in connection with the organization and it is sustained by memberships, contributions and the distribution of its publications.

FIRST: Correspondence is solicited regarding Membership" and "Official Correspondents."

SECOND: We need and welcome contributions, whether small or large, to our cause.

THIRD: We publish a large line of documents covering all phases of the Tariff question. Complete set will be mailed to any address for 50 cents.

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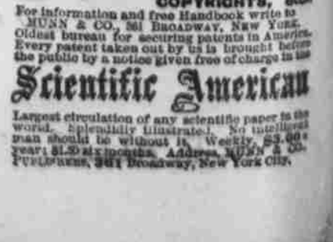

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