RESULTS OF SUBSOIL PLOWING.

As Reported to the United States Department of Agriculture.

The following letter, giving the results of experiments with subsoil plowing, was recently received by the secretary of agriculture from Mr. Peter Youngers, Jr., of Geneva, Neb., and is deemed of sufficient interest to warrant its communication to the agricultural press. Mr. Youngers writes as follows:

Having practiced subsoil plowing extensively on our nursery grounds near Geneva in growing fruit and ornamental trees with gratifying results, we concluded to experiment with grain and vegetables. The ground was prepared by subsoil plowing in the fall of 1892, and the crop of 1893 consisted of corn and potatoes. Corn that year being only a very moderate crop in this vicinity (averaging 40 bushels per acre and we averaging not exceeding 30 bushels), we harvested a crop of 75 bushels per acre from a strip of ground that had been subsoiled. The potato crop was practically a failure in this vicinity. The result of our experiment was a good crop—about 150 bushels per acre.

This season (1894) the crop consists of rye, oats, corn and potatoes. Rye harvested indicates a yield of 35 bushels per acre, while rye on adjoining field—the same soil, planting and harvest, but not subsoiled—will yield 10 bushels per acre. Oats on land subsoil plowed in fall of 1893 will yield 40 to 45 bushels per acre. Oats on land subsoiled plowed in the fall of 1892 will yield 30 to 32 bushels per acre. Oats on land adjoining under ordinary cultivation will yield 10 to 15 bushels per acre (the average crop under the adverse conditions that prevailed), in each instance the soil, soil and planting being the same. The superiority of subsoil cultivation is especially conspicuous in the length of straw and stood on the ground.

The results of experiments with this year's corn and potatoes cannot at this time be determined. With a continuation of the present favorable conditions we will have the largest yield of corn we have ever had. Even under these favorable conditions the corn on subsoil plowed ground seems to possess a special element of strength that will in all probability cause its influence to decrease standing the value of subsoil cultivation.

Shrinkage of Hay.

There is no fixed or established amount of water in hay, but the quantity varies with circumstances. Farmers deciding according to their judgment differ in the amount of drying to which they would subject the drying grass. The more nearly the grass ripens the finer it must be cured to safely housed. In a dry hot summer it is usually found drier, than in a wet season. If made quite dry, it would not lose much if any in weight the next spring. Where wintering has been frequently practiced it has been found actually to increase in weight as the weather becomes more moist in autumn after a dry summer.

The amount of loss of water would vary with the mode of drying it away. If in small and loose masses, it would dry or become hay quicker than when in a large, tight mass, not will much or if packed away in a large barn. As a general rule, it may be laid down that the same quantity of hay is lighter in April than in the previous August, and although the weight is subject to various fluctuations on the whole it becomes lighter in time, but less so than many farmers generally suppose.—Country Gentleman.

Exercise and Feeding Points.

Here is Manager Gilbert's Ottawa station summary of exercise and feeding points for poultry, which contains hints valuable outside of Canada:

Do not gorge the layers by overfeeding.

Use every incentive to keep them from idleness.

Feed as much cut or broken green bones as possible.

Less grain is to be fed when bones and vegetables are supplied in abundance.

The evening ration should be a grain one and generously fed, the object being to keep the crops of the layers full during the long night.

The soft food and cut bones should be fed in a clean narrow trough.

When necessary, take the chill off the drink water and supply regularly.

Keep only young, active, prolific layers and select from them to breed from.

Kill the moulters, for they are only eating away the profit margin.

Keep to male bird with the laying hens. They do better without him.

Keep a close watch on the layers and anticipate every want.

Intending to Winnow.

The idea of intending by means of a windmill and wooden fans does well on paper, but it will not work out quite, says Rural New Yorker. Such a task will no doubt come, the time is sure to come when the same puzzled to a week to determine for a day's winning. There must be storage room enough to keep at least 10 days' work ahead of the windmill. This may be done by erecting on a large reservoir at the top of a hill, as mentioned in former issues, but we believe that a powerful steam or hot water pump to force the water directly from a pond or stream or a deep well will prove the most practical plan. The increased use of water in agriculture is something that must come with time.

Notes of Local Interest.

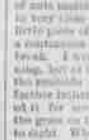
The present season has added numerous entrants to the necessity for irrigation in many regions outside of the usual districts.

A western exchange says that the city's day is coming—in fact, is near at hand.

The following is going for results: The United States irrigates about 4,000,000 acres of land. Europe gives 6,000,000 and Egypt gives 5,000,000, while in India the little considerable trifle of 54,000,000 acres.

Acts Winning the Green.

"I came without an interesting but peculiar specimen in animal life, but one which I have never been able to account for," remarked Abraham I. Guyse of Freeman, Tex. "I was going across just at sunrise over a newly mowed wheat field directly in front of me what appeared to be a long line of green ribbon about one half an inch thick. I stopped to examine it, and to my astonishment found that it was a procession of ants marching three or four abreast in very close order, each one carrying a little piece of green leaf. The effect was a continuous line of green without any break. I went back to find the beginning, but it I found from the grass at the position I was inclined to trace it further in that direction. I then followed it for several rods until it entered the grass on the other side and was lost to sight. Whether it was Palm Sunday or St. Patrick's day with the ants or some political jubilee, they were celebrating has always remained a mystery to me."—St. Louis Globe-Democrat.



HEADACHE CURED IN 20 MIN.

A Free Sample of Dr. Whitehall's Mrs. Phelps' Headache Wafers will be sent to any sufferer who sends his or her address. These wafers are not a patent medicine, but a prescription used for 40 years in Boston and elsewhere with unfailing success. Send an address of the patient. Send to J. P. Brigham, Boston, Mass.

Dr. Whitehall Mfg. Co., So. Bend, Ind.

Chas. W. Stayner,

LAWYER,

McCornick-Richards Building,

First South Street, Salt Lake City

ESTATES.

Heirs and others having an estate to settle should consult Chas. W. Stayner. He has had an experience of over twenty-five years as attorney for estates. Wills drafted and estates settled. Office McCornick-Richards Building, Salt Lake City.

LAND CASES.

Persons having land contracts, or whose patents are delayed, should consult Chas. W. Stayner. He has just returned from Washington, where he has been conducting a successful practice in the General Land Office. Congressional work attended to. Office McCornick-Richards Building, Salt Lake City.

Correspondence solicited. Send stamped envelope for reply.

MECHANICS, Mechanical Journals, including issues of Scientific American, Engineering News and Railway Gazette, Engineering Magazine, Journal of Electricity, Power and Mechanics, Scientific American Supplement, Technical Books, Sent Free. Address, MUNN & CO., 361 BROADWAY, N. Y.

DISSTONS' CELEBRATED

SAWS

Cross Cut, Drag, One Man, Uprights, Mill, Hand, Rip, Panel, Tenon, Pruning, Compass, Butcher, Cook, Keyhole, etc.

—ALSO—

CIRCULAR.

Both Solid and Chisel Point Teeth, and "DISSTON'S," for filing them, are selling at lower prices than ever. Also a full stock of Saw Rings and Files always on hand.

Z. C. M. I.

PROFESSOR MIER,

The Great and Wonderful

Magnetic Healer,

Cures the Following Diseases:

Blood Poison, Impotence of the Reproductive Organs of the Male, Loss of Memory, Nervous Weakness, Insomnia, Heart Disease, Dyspepsia, Liver and Kidney Complaints, Chronic Diarrhoea, Rheumatism, Piles, Tumors, Small Pox, Chronic Diseases of the Lungs, Asthma and Bronchitis, Cancer, Yellow Jaundice in 48 hours, Catarrh, Inner Consumption, Scrofulous, Chronic Diseases of Kidneys, Bladder, Liver, Stomach, Bowels, Tetanus, Fever, Malaria, Scrofula, Lung Diseases, Lumbago, Kidney Disease, Female Complaints, Nervous Debility, Spinal Complaints, Paralysis, Sciatica, Neuralgia, Epilepsy, Fits, Deafness, Blindness, Tumors in the Breast and 53 others. Delicate Diseases of the Heart and a Private Disease. Deafness, Cold Hands, Poor Circulation, Dropsy, Baldness, Deafness, Throat Disease, Spine and Hip Diseases, Impotence, Dull Feelings, etc.

Worn by all who can be discovered by our health can be cured and quickly, by the Great and Wonderful Magnetic Healer.

Massage is Medicated Baths administered by Electric Diseases when necessary.

101 South, West Temple Street. Room No. 17.

BEST

SIX-CORD

Spool Cotton

Burlington Route

BEST LINE

DENVER

TO

KANSAS CITY

AND

ST. LOUIS

W. F. McMILLAN,

General Agent.

Room 11, No. 10 West, Second South St., Salt Lake City.

THEY ARE BOUND TO GO!

WHAT? Our new men's Winter Suits and Overcoats. Why? Why to the tunes of all the best dressers here in Utah. They are going fast now, they're going fast. Make it impossible, like a check to the Sunk Ship. Whether you want one or not, you certainly will be tantalized if asked in one's is or suits or sovereigns. Don't delay but do the proper thing at once and procure for winter. Overcoats is the month in which to present the wife with one, and what can be more delightful than one of our ones you will not be too begging the more every time you return out of doors.

ONE PRICE.

J. P. GARDNER,

151 Main Street

NOTICE OF SALE UNDER TRUST DEED

NOTICE IS HEREBY GIVEN, THAT on Wednesday, the 1st day of August, 1894, John W. Dwyer, acting under the trust deed hereinafter mentioned, and at request of the holders of Bonds secured thereby, duly executed, sold at public auction to the highest bidder, for cash, the following described property, situated in Salt Lake County, Utah Territory, to wit: The South half of Lot Four (Section 33, Township 1 South, Range 1 East, Salt Lake Meridian), the city and county of Salt Lake, Utah Territory, and that said trust deed was given to secure the payment of certain bonds therein described, and that said property was sold to satisfy said bonds and the interest and costs and expenses of said sale, amounting to the sum of $[illegible] of which said sale the undersigned trustee has given notice by advertisement in the Deseret Evening News, a newspaper published in Salt Lake City, Utah Territory, for more than three weeks next preceding said sale, and by posting notices of said sale in three public places in said County of Salt Lake, Utah Territory, for more than two weeks next preceding said sale, and by recording such notice of sale in the office of the County Recorder of said County of Salt Lake, Utah Territory, and by publication of said notice of sale in the Deseret Evening News, a newspaper published in said County of Salt Lake, Utah Territory, for more than two weeks next preceding said sale, and by mailing such notice of said sale to the trustee herein named and beneficiary under said trust deed, at their respective places of residence and business, without notice.

Notice is hereby further given that default has been made in the payment of any interest coupon of said bonds, thereby and by reason of such default the said trustee, at the request of the said holders of said bonds, did on the said day, at the place of business of said trustee, in said city, at the hour of one o'clock p. m., sell the property above described, at public auction, to the highest bidder for cash, in the manner and at the place and time specified in said notice of said sale, and that the said property was then and there struck off to the said trustee, as the highest bidder and purchaser, for the sum of $[illegible] in gold coin of the United States of America, and that the said trustee has received the proceeds of said sale, and has made and executed a deed to said property to the said purchaser, and has paid over the said proceeds of said sale, amounting to the said sum of $[illegible] in the following manner and to the persons and for the purposes following, viz.:

First, to the payment of the costs and expenses of said sale, including the trustee's fees, counsel fees, and the costs of the publication of this notice, amounting in all to the sum of $[illegible]; Second, to the payment of the said coupons or interest so in default, with interest thereon at the rate of six per cent per annum from the date of default, amounting in all to the sum of $[illegible]; Third, to the payment of the principal of said bonds, with interest thereon at the rate of six per cent per annum from the date of default, amounting in all to the sum of $[illegible]; Fourth, to the payment of the balance of said proceeds of said sale, amounting to the sum of $[illegible], to the trustee herein named, for the use and benefit of the holders of said bonds, subject to the order of said holders.

Wherefore, Atwater Adams is the legal holder of said bonds and has succeeded to all the rights of the original trustee under said trust deed, and has duly succeeded to the rights of said original trustee in and under said trust deed, and has duly succeeded to the rights of said original trustee in and under said trust deed, and has duly succeeded to the rights of said original trustee in and