

80 PER CENT OF THE ADULT POPULATION SUFFER FROM ONE PAINFUL AILMENT.

Think what this means. Imagine the amount of misery that exists and is endured simply because people do not know there is an absolute cure.

The only way to cure any complaint is to remove the cause. There are very few diseases or ailments that can be cured by external application—and piles is not one of them. Piles can be cured, the treatment must, however, be internal, for the cause of piles is an internal disorder of the liver or the bowels. Even catarrh of the stomach and bowels can be cured by DR. PERLIN'S PILE SPECIFIC, The Internal Remedy. Here is an instance of what this practically infallible remedy will do:

Dr. C. A. Perlin, Helena, Mont.—Dear Sir: I have nearly finished the former bottle of Perlin's Pile Specific and am practically well. My case was one which most physicians would have pronounced incurable, as I was afflicted with a dysentery and compelled to go to the toilet room from three to five times each day and each time would bleed from one-half to one teaspoonful. I had to resort to bandages and absorbent cotton to check the flow of blood, and now the pain is gone and my appetite is good. I have gained ten pounds in weight and feel like a new lease of life was given me.

Very truly yours, T. R. HARRIS, Verington, Nev.

Dr. Perlin's Pile Specific is sold by all reliable druggists at \$1.00 the bottle, under an absolute guarantee to refund the money should this great internal remedy fail to cure.

DR. PERLIN MEDICAL CO., HELENA, MONT.

Stock Sale \$12.50 Per Ton Standard Grocery Co.

Pioneers' Picnic Tenth Annual Reunion of Umatilla County Pioneers at Weston, Oregon June 2, 3, 4

THE NEW ECONOMICAL IRRIGATOR Phillips Hydraulic Ram

The First National Bank OF PENDLETON. CAPITAL SURPLUS \$70,000

Pendleton Savings Bank ORGANIZED MARCH 1, 1889. CAPITAL \$100,000

FARMING SCIENCE

ADDRESS OF WITHYCOMBE TO FARMERS' INSTITUTE.

Practical Science Applied for the Conservation of Soil Energy—Progress of Difficulties Ahead of the Exclusive Wheat Farmer—What Can Be Done by Crop Rotation—Each Section of the State Has Problems Peculiar to It.

The following able address by Dr. James Withycombe, of the Oregon Agricultural College was read before the institute, Dr. Withycombe being unavailably detained at Corvallis.

"Mr. Chairman, Ladies and Gentlemen—This splendid cooperative effort of the Commercial Association of this city and the farmers of the community merits the appreciation of every progressive citizen of this section of our commonwealth. The very fact of the interest elicited in the discussion of modern agriculture, suggests the future financial and social welfare of the farmers of this vicinity.

"It is a trite but true saying that all wealth comes from the soil, hence every citizen is either directly or indirectly interested in successful systems of agriculture. This body of farmers, who pride themselves on developing the banner wheat producing county of the state, would probably regard it as agricultural heresy if one were to say their method of farming is wrong.

"Nevertheless, if the present scientific knowledge of agriculture be tenable, this is true. While nature has generously endowed this county with a large area of abnormally rich land, it lessens not the scientific fact that all land is susceptible to exhaustion.

"The general principles of agriculture are the same everywhere, but climate and soil variation demand different methods of husbandry. We often hear the expression that our farms are exhausted; it is doubtful if there is a single acre of agricultural land in the state that is really exhausted. It is true that there were once productive no longer produce satisfactory crops, but this is due to physical changes rather than to the exhaustion of its plant food.

"Land in that section, which during our pioneer agriculture produced from 25 to 40 bushels of wheat to the acre and later yielded only 15 bushels, is now yielding from two to four tons of clover or vetch hay per acre, and after a few of these crops will again produce 25 and 40 bushels of wheat per acre. The cause of this is that the growing of these crops increases the vegetable matter in the soil and later yields a better texture, thus making the land very much more productive, as well as making it more easily worked.

"It is probably not an exaggerated statement when we say that faulty methods of farming in Western Oregon have been responsible for a loss of nitrogen that exceeds in value all the wheat shipped from the farms in this section.

"A well-worked summer fallow on land liberally supplied with vegetable matter, will cause the oxidation of sufficient humus to develop enough nitrates to supply four crops of 40 bushels of wheat per acre. As a matter of fact, only enough of the nitrates for the needs of the growing crop is utilized, the balance is lost in the drainage water.

"In this section, where the rainfall is not sufficient to cause leaching of the soil, the valuable nitrates formed as a result of a summer fallow are not lost, but remain in the soil for a succeeding crop. There is no danger that this system of farming may, in time, produce an excess of nitrates which may prove injurious to growing crops. The nitrates are there and thus transform the nitrates into a harmless substance.

"Although the valuable nitrates are not lost as they often are in the more humid sections of our state, still there are much graver agricultural problems confronting the exclusive grain-grower in this section than there are confronting the farmer of our humid sections.

of husbandry are practically inexhaustible. It is comparatively an easy task to point out the probable faults of your present systems of farming, but to suggest a remedy for the parent faults is a most difficult problem. The dominant factor in successful husbandry here is the maintenance of desirable percentage of humus in the soil, but how this is obtained is liable to prove to be a perplexing problem for the farmer to satisfactorily solve.

"It is not a question of soil exhaustion, but of soil moisture. These rich deep soils of volcanic origin should remain productive for ages and they will if properly handled. Soils may be ever so rich, but without moisture crops cannot be successfully grown.

"The first indication of approaching disaster as the results of the depletion of organic matter will be crop failures during dry seasons. These failures will become more frequent as the per cent of vegetable matter in the soil becomes lower, until they may increase in frequency to such an extent as to render agricultural pursuits unremunerative.

"It is usually easier to retain the horse by locking the stable door than it is to gain him after he is stolen. Just so with the farm; it is much easier to maintain a desirable percentage of humus in the soil now than it will be to replace it again when once the soil is exhausted of this substance.

"There are two general systems of farming to be followed, the one being with vegetable matter, viz: plowing green crops under, or what is perhaps better, feeding a goodly portion of the crude product of the farm to domestic livestock. In this way a very large proportion of the vegetable matter and other valuable fertilizing materials are returned to the soil. The farmer should not forget the fact that the plant food in his soil is his capital, hence any system of farming that will unnecessarily exhaust this should be carefully avoided.

"Perhaps a few comparisons as to the effect of different systems of farming on the fertility of the soil may not be amiss. If the farmer were engaged in dairying and sold only the butter fat, a ton of this would be worth from \$350 to \$400, and the value of the plant food in this ton of butter fat would be less than 50 cents. While a ton of wheat worth \$25, would contain plant food to the value of \$750. A ton of dressed beef would contain approximately \$140, would contain 117.75 worth of plant food; a ton of hogs, worth \$110 would have \$7.35 worth of plant food. In this way the sheep, worth about \$30 would contain \$8.15 of plant food.

"This plant food consists of nitrogen, phosphoric acid and potash, and the estimates are based on their commercial value in the open market. These figures strikingly illustrate the value of livestock in maintaining the fertility of the farm.

"The Spanish proverb, 'The sheep's hoof is golden,' evidently refers to the rejuvenating influence on the soil from pasturing the sheep. These figures also show why the cow fattens the land. Wherever conditions will permit of successful dairying, increased crop yields will follow. The fertilizing material in the feed consumed by the cow is practically all returned to the soil. This is also largely the case with all classes of domestic livestock. It is doubtful if the productivity of any agricultural section can be maintained for any considerable period without the aid of livestock.

"Even this country, which perhaps can boast of as good wheat land as can be found in the world, has a limit to its endurance. As a matter of fact, more beef, pork and mutton on the wheat farms of this county means the greater prosperity in wheat production.

"There is no agricultural country that can withstand the evils of exclusive grain growing for any great period of time. The rich valleys of the Nile have frequently been given as examples to disprove this, but even in those phenomenally rich valleys the farmers have been compelled to resort to systematic crop rotation.

"It was thought for a long time that sediment resulting from the annual inundations of these valleys was the source of perpetuity of the fertility of the soil, but agricultural experts who have recently investigated the matter declare that the sediment is a rather unimportant factor, but the growing of burseem, a variety of annual crop, has been the real source of maintenance of the fertility of the soil.

"That the farmers of this section must sooner or later be confronted with agricultural problems which will be difficult to solve is quite probable. As before stated, the problem will not be one of soil exhaustion, but rather an undesirable physical change thus lessening the water-bearing qualities of the soil. The remedy for this is the growing of humus-forming crops in connection with the cereals.

pounds per acre before or at the time of seeding, or the seed can be treated by means of cultures which can perhaps be secured from the national department of agriculture, Washington, D. C.

"The seed sown should be grown from plants that have not been irrigated, or what is popularly known as dryland alfalfa seed should be put in the very best condition possible before seeding to alfalfa. Perhaps a good plan will be to summer fallow thoroughly and sow the seed in the fall or early in the spring so that it will get well rooted before the dry season.

"The principal difficulty with growing alfalfa on wheat land will be getting it started at first. After it has once been successfully grown on the land there will be little difficulty experienced thereafter. If the period between the breaking up of an alfalfa sod and reseeding again to alfalfa does not exceed five years it will not be necessary to again inoculate either the seed or the soil.

"The peas can be drilled in early in the spring similar to wheat, and perhaps hardy varieties can be found that can be sown in the fall.

"Despite the present popular opinion of the average farmer, animal husbandry is not the cornerstone of agricultural prosperity in this section.

"It is true farmers have grown rich and still yet amassed wealth from exclusive grain growing, but the system is retrogressive in its effect upon the soil, hence cannot be successfully continued for a great length of time.

"However, there is no occasion for immediate alarm in the magnificent grain belt of Umatilla county. While the scientific principles of agriculture are not being applied, the farmer at present, his keen business acumen will impel him to attempt the control of nature when the perpetuity of his vocation is threatened.

"Finished Shearing at Heppner. Jess Lisenell, of Weston, returned this morning from Heppner, where he has been engaged in sheep shearing for the past month. Shearing is now in full swing and the clip is in the warehouses. The Heppner sheep were in an excellent condition for shearing this year, and the clip was very heavy and clear of sand. The surplus sheep in the country will be sold and shipped out as possible as the summer range area is limited.

Darnell Still in the Race. To the voters of Pendleton justice of the peace district. This is to notify you that while I am too busy teaching in Cabage Hill district No. 35, to make an active campaign, I am still in the race for justice of the peace for this district.

Democratic Candidate for Justice of the Peace in Pendleton District. Will Be Buried at Walla Walla. The remains of Mrs. Margaret Thorne and her daughter, Miss Mary Thorne, who died in this city on Wednesday, were sent to Walla Walla this morning for burial in the family lot. The relatives of the deceased ladies accompanied the remains.

Democratic Candidate for Congress. J. E. Simmons, of Portland, democratic candidate for congress from this district, was a visitor in town today while on his way to Athena to mix with his prospective constituents.

Daughter Was Born. A girl was born to the wife of A. J. Molstrom this morning at the family home about six miles northwest on Birch creek. Mr. Molstrom is a prominent farmer of the Birch creek country.

LOCAL OPTION AT PILOT ROCK

DATE OF THE ELECTION.

"It is Better Not to Know So Much, Than to Know So Much That Ain't So." If the republican and democratic candidates for county offices and two or three of the small papers printed in Pendleton and in some of the other small towns of this county will take a look at their almanac they will see the first Tuesday after the first Monday in June falls on the 7th of the month. By doing so they will avoid the suspicion of being careless when they speak of the "election that is to occur on the 6th of June next."

Since coming to town today, Editor McManis has taken a look at the Oregon law, with the help of his attorney, and has come to the conclusion that the carelessness is on the other side. He had been smoking the presidential pipe for the November election.

ADMINISTRATRIX APPOINTED. Will Handle the Estate of Her Deceased Husband. The estate of Harvey E. Young, deceased, was admitted to probate this morning in the county of Eva Young. It consists of 370 acres of land in township 6, north of range 34 east, in the Hudson Valley country, and is valued at \$25,000. There is also stock to the value of \$2,500, and notes and securities to the value of \$5,000, making an aggregate of \$32,500. Eva Young, the petitioner, is the administratrix to serve without bonds, she being the widow of the deceased.

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Shoes for Everybody. Did you see that great assortment of Oxfords and Slippers we are showing? All sizes, all prices, \$1.00 to \$4.00, heavy and light soles.

Lee Teutsch's Dept. Store. Corner Main and Alta Streets. Scare Ribs, Cold Boiled Ham, Sausage, Fresh Pigs' Feet, Pure Lard, Ham and Bacon and the choicest fresh meats in the city.

The Schwarz & Greulich Meat Co. 607 MAIN STREET. TELEPHONE MAIN 181.

We Want to Do Your Plumbing. Our long experience, together with our unexcelled facilities for doing the best work, are at your service without extra charge.

BECK, the Reliable Plumber. Court Street, opposite Hotel Bicker.

Farm Machinery for all Purposes. Racine Buggies and Hacks, Bain Wagons. FLYING DUTCHMAN AND CANTON PLOWS and HARROWS SUPERIOR DRILLS

Celebrated Hodges Line of Headers, Mowers, Binders and Rakes. Houser & Haines' Combined Harvesters, Machine Oils and Extras of All Kinds. Agent for Walla Walla Weeder. FRED WEBER. Successor to Umatilla Implement Co. Pendleton, Ore.

Hardware, Paints, Oils and Varnishes. We sell the Superior Steel Range. No paints will be spared on our part to offer you a line of goods excelled by none. Our prices are as low as the lowest.

SONES & WALKER HELIX, OREGON. Real Estate. \$2,400.00. Will buy an 8-room house and two lots, has 5 rooms on 1st floor, 3 rooms on 2d floor, bath and toilet, good cellar. Five blocks from Main street.

Farmers wanting to raise big mules should breed to Big Ben. W. W. HARRAH, Owner. HAY BUNCHER. The new invention of Harrah and Flint, which gathers hay in rows ready for loading, is now on the market and can be seen at the Missouri blacksmith shop on Webb street, where it is on sale.