

Fireproof Rope.

Canadian and Italian asbestos will find a serious competitor in the blue asbestos recently discovered in the Cape Colony...

In order to test the resistance of the new material a blue asbestos rope of about three-fourths of an inch in diameter was weighted at one end with 220 pounds and exposed to a constant flame from a large gas jet...

Another novel application of this material is the working of blue asbestos fiber into mattresses for hospitals. They are cooler in summer and warmer in winter than those made either of animal hair or vegetable fiber...

Indian Medicine Bags.

The medicine bags of Navajos, Zunis and Apaches, all kindred tribes in New Mexico and Arizona, contain a curious powder, known as corn pollen or hollidentin. This powder, which is the pollen of a rush, and also of maize, appears to be used as a medicine, being eaten by the sick and put on the head or other parts to ease pain...

Captain Bourke shows many analogies to the use of this sacred powder both in the east and among the ancient Greeks and Romans, and it is clear that similar practices with regard to "medicine"—that is, magic—have prevailed everywhere and in all ages...

Fishy.

A man who resides on the east side relates an incident which may be true, but it sounds fishy.

His boy caught a large sucker a couple of years ago, and since that time he has been experimenting with his finny pet somewhat. The fish has been kept out of the water so much that it gradually became accustomed to it, and frequently flopped out of the water itself and followed the boy around. Finally the boy placed it in a pen and gradually reduced its bathing periods until it became acclimatized, abandoning entirely its native element. It would follow the boy around like a dog, and one day he started over to town across the swinging bridge with the pet fish flopping along after him.

This Is Your Opportunity. On receipt of ten cents, cash or stamps, a generous sample will be mailed of the most popular Catarrh and Hay Fever Cure (Ely's Cream Balm) sufficient to demonstrate the great merits of the remedy.

Rev. John Reid, Jr., of Great Falls, Mont., recommended Ely's Cream Balm to me. I can emphasize his statement. "It is a positive cure for catarrh if used as directed."

Ely's Cream Balm is the acknowledged cure for catarrh and contains no mercury nor any injurious drug. Price, 50 cents.

ROYAL Baking Powder. Highest of all in leavening strength.—U. S. Government Report.

WANTED—TRUSTWORTHY, ACTIVE gentlemen or ladies to travel for responsible, established house in Oregon. Monthly \$65.00 and expenses.

COMMERCIAL FERTILIZERS.

Things Farmers Ought to Know Before Applying Them.

The principal features of a farmer's knowledge of commercial fertilizers by E. B. Voorhees are brought out in the following summary:

Commercial fertilizers are mainly valuable because they furnish the elements—nitrogen, phosphoric acid and potash—which serve as food, not as stimulants. The kind of farming in the past and the demands for special products in the present make their use necessary in profitable farming.

In order to use these commercial fertilizers profitably the farmer should know, first, that nitrogen, phosphoric acid and potash are the essential manurial constituents; second, that the agricultural value of these constituents depends largely upon their chemical form; third, that these forms are contained in specific products of a well defined character and composition, and may be purchased as such from dealers and manufacturers, and may be mixed successfully on the farm.

The agricultural value of a fertilizer bears no strict relation to the commercial value. The one is determined by soil, crop and climatic conditions, the other by market conditions.

The variations in the composition and value of manufactured fertilizers which contain the three essential constituents are due to variations in the character and in the proportion of the materials used.

The ton basis alone is not a safe guide in the purchase of these commercial fertilizers. Low ton prices mean either low content of good forms of plant food or the use of poorer forms. Fertilizers, high grade both in quality and quantity of plant food, cannot be purchased at a low price per ton.

The best fertilizers cannot exert their full effect on soils that are too dry or too wet, too compact or too porous. They can furnish but one of the conditions—fertility.

The kind and amount of fertilizer to use should be determined by the value of the crop grown and its power of acquiring food.

A definite system or plan should be adopted in the use of commercial fertilizers. "Hit or miss" methods are expensive.

The Single Shovel Plow.

A contributor to The National Stockman says:

I have helped to plow hundreds of acres of potatoes with an old fashioned single shovel plow, and there is no modern farm implement that does as satisfactory work in clayey loams or clays that have been packed by beating rains after being planted. This old implement has been practically discarded by growers here for many years, but some have returned to its use this season, and the slow work with it will pay, if any work in growing potatoes pays this year.

The soil in the rows is solid in many fields this year, packed by incessant rain, and no modern cultivator can be so set that the earth in the rows may be loosened so well as it is done with the single shovel, taking one side of the row at a time. If the shovels of a two horse cultivator were set at the angle we used to hold the single shovel, they would lift the plants out. Two acres a day was called a day's work, and this seems slow, but the plant started life above ground with loose soil in the hill, no matter how packed rains had made it after planting, and loose soil in the hill is a necessity in successful potato growing.

The Value of Cow Manure.

Cow manure does not heat quickly. It is therefore not in favor of forcing beds or for crops where early results are important. For this reason it ought always to be partly composted, so as to reduce its bulk before it is used. It is excellent to mix with manure from the horse stable, because the latter, being drier, is much more likely to become "fire fanged" from the entire destruction of its vegetable fiber. Yet in actual value the slower cow manure is more nearly equal to horse manure than is generally supposed.

From fattening cattle fed as horses are on hay and oats the excrement is quite as rich as that from horses, and it does not differ from the latter so much as is commonly supposed. Careful experiments have shown that on a full ration fed to young growing cattle only 6 per cent of the nutrition of food went to make growth. With milk cows giving milk this proportion was increased to 99 per cent. Considering the amount of nutrition which a cow in full flow of milk manufactures from its food every day this result is remarkable. In fattening animals the food eaten furnishes in flesh or fat far less nutrition than this.—American Cultivator.

News and Notes.

The next meeting of the Association of American Agricultural Colleges and Experiment Stations will be held at Minneapolis, July 13-15.

The farmers' national congress meets at St. Paul, Aug. 31 to Sept. 6.

Cutting timothy with the binder! The arguments on the subject are convincing, says Rural New Yorker.

If you could cover a potato plant with a thin coating of bordeaux mixture, it would be impossible for the blight fungus to start its work. The plant could not blight. That is what you aim to do in spraying.

According to one authority, barley is the best hot weather grain for soiling.

The beet sugar industry in the United States has been practically developed in the last six years.

To keep hen manure use enough land plaster to keep the manure perfectly dry and store it under cover.

YOUR KIDNEYS

filter the Uric Acid and poisons out of the system through the urine if they are acting right. If not, the results are Backache, Bright's Disease, Rheumatism, Neuralgia, Bladder Trouble, Dropsy, Diabetes, Nervousness, Blood Disorders, etc.

CURED

For a number of years I have been troubled with what the doctors term, lithious, or uric acid diathesis. My urine was often deficient in quantity, highly colored, and depositing brick dust and at times very painful. Headache, pain in small of back, vertigo, specks before the eyes, and confusion of memory accompanied this condition, and made it necessary to obtain relief. I am glad to say quick relief was found in Hobbs Sparagus Kidney Pills, and today I feel better than I have in ten years.

S. L. FRADY, Asheville, N. C.

HOBBS Sparagus Kidney Pills.

HOBBS REMEDY CO., PROPRIETORS, CHICAGO, DR. Hobbs Pills For Sale in OREGON, CITY, ORE., by C. G. HUNTLEY, Druggist.

EAST AND SOUTH

—VIA—

THE SHASTA ROUTE

—Of the—

SOUTHERN PACIFIC COMPANY.

Express Trains leave Portland Daily.

Table with 4 columns: Direction, Time, Destination, and Service. Rows include South and North routes to Portland, Oregon City, and San Francisco.

The above trains stop at all stations between Portland, Salem, Turner, Marion, Jefferson, Albany, Tangent, Shedd, Halsey, Harrisburg, Junction City, Eugene, Cottage Grove, Drain, Oakland and all stations from Roseburg to Ashland inclusive.

Direct connection at San Francisco with Occidental and Oriental and Pacific Mail steamship lines for JAPAN and CHINA. Sailing dates on application.

Rates and tickets to Eastern points and Europe. Also JAPAN, CHINA, HONOLULU and AUSTRALIA. Can be obtained from E. E. BOYD, ticket agent, Oregon City.

ROSEBURG MAIL Daily.

Table with 4 columns: Direction, Time, Destination, and Service. Rows include South and North routes to Portland, Oregon City, and Roseburg.

West Side Division.

BETWEEN PORTLAND AND CORVALLIS Mail Train, Daily (Except Sunday).

Table with 4 columns: Direction, Time, Destination, and Service. Rows include South and North routes to Portland and Corvallis.

At Albany and Corvallis connect with trains of Oregon Central & Eastern Railroad. Express Train Daily (Except Sunday).

Table with 4 columns: Direction, Time, Destination, and Service. Rows include South and North routes to Portland and McMinnville.

R. KOEHLER, Manager. C. H. MARKHAM, Ass't G. F. and Pass. Agent.

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THE INDEPENDENT

130 Fulton Street, New York City

Notice.

IN THE MATTER OF THE ESTATE OF Joshua Lyons, deceased. Notice is hereby given that the undersigned has filed his final account as executor in the above entitled matter on the 1st day of October, 1897, at 10 o'clock a. m. at the court house in Clackamas county, Oregon, has been fixed upon by the judge of the county court of Clackamas county, Oregon, to be the place for hearing any and all objections to said account and to the final distribution of said estate in accordance with the terms of said last will and testament of said Joshua Lyons, deceased. Dated, Sept. 20, 1897. Jesse Cox, Executor.

Summons.

IN THE CIRCUIT COURT OF THE STATE of Oregon for the county of Clackamas, ss. D. W. James, plaintiff, vs. Wm. Ohlenkamp & John Dahke, defendants. To Wm. Ohlenkamp and John Dahke said defendants in the name of the state of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the 1st day of October, 1897, and if you fail to so appear and answer said complaint the plaintiff for want thereof will apply to the court for the relief demanded therein, which is for the foreclosure against you of a first mortgage on real property dated Dec. 9, 1889, and recorded in Book V, page 330 mortgage records of said county, given by Chas. A. Brodbeck to secure a purchase money debt of \$200.00 and interest, on the following tract of land to-wit:

Beginning at a point on the section line between sections 21 and 22 in T. 38. N. 2. E. of the Willamette meridian in Clackamas county, Oregon, far enough south of the quarter section corner on said line so that a line running east from such point across the donation land claim of R. A. Workman to the west boundary of the donation land claim of Lorenz D. Kirk will include 120 acres of the part of the said Workman D. L. C. Lyon north of and east of said west line exclusive of 7.08 acres heretofore sold and conveyed by Isaac Fort to P. Goodwin, and for an area of the court for the sale of said mortgaged premises to pay said debt and accrued interest (since Dec. 9, 1889, attorney's fees, costs and see also copy). Pub. sold by order of Hon. Loya B. Stearns, Judge of the circuit court of Multnomah county, Oregon, acting in the absence of the circuit judge of Clackamas county, which order is dated Sept. 25, 1897. G. H. Dye, Attorney for plaintiff, Oregon City, Oregon. 9-17, 10-29

Summons.

IN THE CIRCUIT COURT OF THE STATE of Oregon, for the county of Clackamas, ss. A. Knapp, plaintiff, vs. George W. Owen, defendant.

To George W. Owen, the above named defendant. In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled action within ten days from the date of the service of this summons upon you, if served within this county, or if served within any other county of this state, then within twenty days from the date of the service of this summons upon you, and if served by publication then by the first day of the next term of this court, to-wit, the 1st day of November, 1897, and if you fail to so answer for want thereof, the plaintiff will apply to the court for the relief demanded in said complaint to-wit: For the sum of twenty-five dollars and forty-five cents and interest thereon, at the rate of eight per cent per annum, from the 1st day of July, 1897, until paid, and for the further sum of eight dollars and fifty cents, and interest thereon at the rate of eight per cent per annum, from the 1st day of June, 1897, until paid, and for the further sum of eight dollars and fifty cents, with interest thereon at the rate of eight per cent per annum, from the 1st day of January, 1897, until paid, and for the further sum of one dollar and five cents, and for his costs and disbursements in this action, that said plaintiff will also apply to the said court for an order to sell lots 9 and 10, block 7, Gladstone, Clackamas county, Oregon, which are now under attachment in this action to satisfy said judgment. Hou. T. A. McBride, judge of the 3d judicial district, being absent from the court at this time, this summons is issued by order of Hon. Alfred J. Serra, judge of the circuit court of the Fourth Judicial District, of the state of Oregon, duly sworn and entered of record, on the 15th day of September, 1897. G. B. PRINCE & J. W. LODGE, Attorneys for plaintiff. 9-17, 10-29

Summons.

IN THE CIRCUIT COURT OF THE STATE of Oregon for Clackamas County. Robert J. Buehl, plaintiff, vs. Philip S. Bates, Jane M. Bates, O. C. Melend, Florence M. Melend, Henry W. Cox, Viola M. Cox, and D. W. White, defendants.

To defendants Philip S. Bates, and Jane M. Bates: In the name of the state of Oregon, you are hereby notified and required to appear in the above entitled court on or before the first day of the next regular term thereof, to-wit, on Monday, November 1, 1897, to make answer to plaintiff's complaint filed in the above entitled cause; and if you fail to so appear and answer, plaintiff will apply to said court for the relief demanded in his complaint, namely: For a decree annulling and setting aside a certain decree foreclosing a certain mortgage on the premises hereinafter described, made and entered by the court on the 1st day of April, 1896, wherein the said Robert J. Buehl was plaintiff and said Philip S. Bates, Jane M. Bates, and Henry W. Cox, were defendants; and the sale of the mortgaged premises made under said decree; for a decree awarding plaintiff judgment against you for one thousand dollars, with interest thereon at eight per cent per annum from June 1, 1894, in U. S. gold coin, less forty-six and 88-100 dollars, with interest thereon at eight per cent per annum from December 31, 1891, and one hundred and twenty-five dollars attorneys fees; for the further sum of sixteen hundred dollars, with interest thereon at eight per cent per annum from June 1, 1894, in U. S. gold coin, and for one hundred and twenty-five dollars attorneys fees; and for the further sum of sixty-two and 80-100 dollars as tax, with interest thereon at eight per cent per annum from February 15, 1895, and 10c plaintiff's costs and disbursements of this suit; for a decree foreclosing a certain mortgage given by you to plaintiff on March 30, 1888, to secure the same real property situated in Clackamas county, in the state of Oregon, and more particularly described as follows: A portion of the George Abernathy estate, to-wit, lying and being in section twenty-five (25) north-four (4) and south two (2) east of the Willamette meridian, described as follows: Beginning at a point on the south boundary line of the George Abernathy donation land claim, two (2) acres and 90-100 centavos westerly from the northeast corner of the Ezra Fisher donation land claim; thence north 15-20 (42) degrees east fourteen (14) chains to the north boundary of the Abernathy claim as determined by judgment of the circuit court of the state of Oregon for Clackamas county; thence westerly on said north boundary line forty (40) chains to the center of a thirty-four (34) minutes west to the center of the county road eleven and 70-100 centavos thence south forty-two (42) degrees west along said county road to the southeast corner of the Abernathy donation land claim; thence along said Abernathy claim line to the place of beginning (see four acres on the east side of this tract owned by J. M. Taylor to Robert Findley), containing eight and one-half acres, more or less, together with the tenements, the edifices and appurtenances thereunto belonging, situate in address aforesaid, excepting therefrom lot one and two in block A, in Frank T. Stokes' addition to Oregon City, in Clackamas county, Oregon, according to the map and plat of said addition on file in the office of the recorder of counties in said county; and for a decree that said mortgaged premises be sold as on execution, and the proceeds of said sale applied to the discharge of the debts of said estate and to the payment to the plaintiff, including attorneys fees and taxes; and that if said proceeds be insufficient to satisfy said judgment in full, plaintiff may bring his action against you for such deficiency; and that you and all persons claiming under you or either of you subsequent to the execution of said judgment and the sale of the defendants in said suit, be barred and foreclosed of all right, title and interest and equity of redemption in and to said mortgaged premises and in and to said parcel thereof; and for such other and further relief as to the court may seem equitable.

This summons is published by order of Hon. E. B. Stearns, judge of the Fourth judicial district of the state of Oregon, acting in the absence of Hon. T. A. McBride, and on account of his inability to act, said order being made at Chambers on September 9, 1897. F. C. COYNE, TRASK & MASON and C. A. MOORE, Attorneys for Plaintiff. 9-11, 10-22

The Marketing Point OF CLACKAMAS COUNTY

The factory towns of the East are noted for affording the best market to the neighboring farmers and gardeners in proportion to the population of any of the towns in that section. The reason for this is that the people of these towns have a fixed income upon which they can always depend, and, as a consequence, they are liberal buyers, paying cash for all their purchases.

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OREGON CITY.

Is Coming to be One of the Best Marketing Towns in the State

This is proven every day by the number of farmers, who are to be seen on its streets selling their produce, who, until just the last few years, sought the markets of other towns. The system of macadamized roads that is being built into all parts of Clackamas county, will enable all the people of this county to share in the profitable market that Oregon City affords. If, as it is sure to do, the demands of Oregon City increase in the next five years as it has in the past five years, this city will rank next to Portland as a market place for

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