

Horticultural.

RASPBERRIES—SPECIES.

ED. FARMER: There are some ten or twelve species of the raspberry. I will, however, notice only some three or four.

Rubus Strigosus—or Wild Red Raspberry.

Rubus Occidentalis—or Black Raspberry.

Rubus Idaeus—European Raspberry.

There is also another, known, all over the western portion of Oregon, as the Salmonberry. This species is classified as

Rubus Macropetalus.—There are two varieties, the red or blue, and the white. I do not know whether the salmonberry has been cultivated to any extent or not. I tried to grow them on our red, basaltic hills, but they do poorly, seeming to require damp land, and such as is found along creek bottoms, or land in which humus abounds. I hope some one along the Willamette and Columbia bottoms will try growing them from seed. Valuable varieties might thus be obtained, and, being natives, would suit our climate. So much for Rubus Macropetalus.

Now for those species which have been cultivated and greatly improved:

Rubus Strigosus.—The varieties of this wild red raspberry are numerous, and some of them quite good, as Allen's Red Prolific, Allen's Antwerp, Scarlet, Pearl Raspberry, Kirtland. The best of these are the Kirtland and the Scarlet.

Rubus Idaeus.—This is a foreign raspberry, and its varieties are very numerous; and many of our best and largest are from this species.—Some of the best are: Belle de Fontenay, Clarke, Col. Wilder, Downing, Franconia, Naomi, Antwerp. These are all splendid raspberries. Every one who owns a rood of land should have them. They are valuable for market, and especially for home consumption. They are very healthy; very good for pies, and to eat with a little sugar. I like them in milk. But they are like the dorky's rabbit, good any way.

The last species we shall notice, for the present, is

Rubus Occidentalis.—In this species are included the Black Raspberries, Black Caps. These are very hardy, great bearers, and fine for market. I am partial to this species, because of the intense flavor and natural richness of the berries, as well as their splendid qualities for culinary purposes. Among the best of these are: Davison's Thornless, Doolittle's Black Cap, Miami Black Cap, American Black. This last I have had in cultivation many years. It is found growing wild all over this country. I have not tried to improve it by growing it from seeds, for it suits me well enough as it is; though, like all of the raspberry family, it can be improved, I have no doubt.

Why raspberries are not grown more than they are, seems strange. They are easily grown, and require but little extra care; but they must have the richest kind of land to come to perfection.

To succeed, the raspberry must have deep, rich, very rich, land—must be kept from growing too thick in the row; must be highly manured every year, and the old ones removed. They are delicious, rich, healthy, and within the reach of all.

PHILO-RUBUS. Salem, Feb. 15, 1872.

FRUIT GROWING IN OREGON.

From the Christian Advocate we copy the following tribute to our own State from a tourist who visited the West last year, and also to one of our real estate agents:

The following correspondence not only shows the increased interest abroad in Oregon, as a first-class fruit producing country, but contains much of encouragement to all who are engaged in the cultivation of fruit in this State. Mr Davidson has rendered exceedingly valuable service to Oregon in supplying strangers and others with full in-

formation—by means of circulars and letters—as to the vast resources of this northwest coast. Hence this letter addressed to him:

St. Joseph, Mich., Jan. 1, 1872. Wm. Davidson, Esq.—Dear Sir: Herewith please find copies of the Country Gentleman, published at Albany, New York, containing my correspondence concerning your State.

I am also writing articles for Tilton's Journal of Horticulture, published at Boston, which will give you the details of my observations on the fruits of Oregon, and will send you the numbers as issued. Being a monthly, it will require some time to publish all my letters on the subject.

Knowing the adaptation of the climate and soil of your State to the production of all kinds of fruits, I feel it a duty to call the attention of those desiring to engage in the business, as well as others, to its superior advantages. At no very distant day will it become an important branch of industry, and a source of great wealth to individuals and the State.

Thanking you kindly for attentions received, I am yours, very respectfully, J. A. DONALDSON.

Scientific.

Another Achievement of the Spectroscope.

A new and another most wonderful achievement of that remarkable instrument, the spectroscope, has just been announced by a German astronomer, Dr. Vogel, who has successfully applied this instrument to the measurement of the sun's rotation. The form of instrument used by him was that known as a reversion spectroscope. As originally constructed, it consisted of two direct vision prisms, with their refracting angles facing opposite ways. Hence a beam of light falling upon them produces two spectra, one of which has the colors above the other, and in an inverse order. The object-glass being divided horizontally, and each half being movable microscopically, it is possible not only to juxtapose, but even to superpose the spectra, and to measure the distances of the lines with great accuracy.

The instrument was devised for the purpose of measuring the direction and velocity of astronomical motions, one of the problems proposed by the inventor being the very one now solved by Dr. Vogel. If the two spectra in the instrument represent, as they may be made to do, different and opposite limbs of the sun, then, since one is approaching us and the other is receding from us, there ought to be a difference in the position of certain spectrum lines. The difference in velocity is about a mile per second; an amount which Zollner says ought to change the position of the sodium lines by a quantity equal to 1-80th of the distance between them.

With his instrument as originally constructed, he was unable to observe any displacement; but with a more powerful instrument, consisting of a circular train of five highly dispersive prisms thus arranged, which he furnished at Kiel, Dr. Vogel has been able to detect a displacement of the fine line F of the solar spectrum, by an amount which gives a velocity of rotation of two miles per second. Subsequent observations, made with more care and with a higher dispersive power, have reduced this number to 1.52 miles per second. This is only 0.28 mile more than the velocity given by Carrington's observations on the spots, which was 1.24 miles per second; an approximation which is remarkable.

RAIN.—In a lecture at Norwich recently, Mr. James Glaisher, F. S. R., said: The whole of the rain had its origin and fell 800 feet from the earth. Desiring to discover the influence of the moon on the elements, he took observations, and discovered, after a long series of observations, that on the ninth day of the moon there was the most rain, and that on the first and last week of the moon there was the least amount. He had taken account from 1815 to 1869 of every day on which there had been an inch of rainfall, and he had found that on July 26, 1867, the rainfall amounted to 3 7/10ths ins.—the largest amount that had fallen in one day at the Royal Observatory. From careful observations he had made, he had no doubt that the moon did exercise an influence upon the rain. Another investigation that he made was as to the time of day that rain fell most, and he had found that the largest quantity of rain fell at about 4 o'clock in the afternoon.

THE FOSSIL PLANTS OF CANADA.—Dr. J. W. Dawson, of the Geological Survey of Canada, has just published his report on the fossil land plant of the Devonian and Upper Silurian formations of Canada. In this report, he has catalogued or described more than 120 species of land

plants found in formations older than the carboniferous in Canada, thus placing the knowledge of this old flora in advance of that of any other portion of the world.

VOLCANIC ERUPTIONS.—Archdeacon Pratt, by discussing the amount of precession in a globe with a molten nucleus, finds conclusive evidence of Sir Wm. Thomson's opinion that the earth is solid, and that, therefore, volcanic eruptions are attributable to some other cause than the one popularly assigned. His view is confirmed by numerous recent observations, which indicate that the increase of temperature, below the earth's surface, soon reaches a limit.

A NEW BREED OF FOWLS.—Some genius out West has been playing "pranks" on the Judges of poultry at the Muskingum (Iowa) County Fair lately. An exchange gives the following particulars of the "sell":—A deformed chicken of common breed, the deformity resulting from a broken back, was entered at the Muskingum County Fair as a Hungarian cock of the "Slavi Magyar breed," just imported, and the Judges, after inspecting it, awarded it the first premium over one of the finest poultry shows ever seen in the country.

Special Notice. Intention is the cause of nine-tenths of all diseases the living machine is subject to! Give tone to the stomach and digestive organs, and you will save more than half in your doctor's bills. Dr. Huxley's Celebrated Bitters are recommended by all physicians to Dyspepsia and for ALL COMPLAINTS of the LIVER AND BILIOUS ORGANS. See advertisement in another column.

Professional Cards.

J. QUINN THORNTON, ATTORNEY AND COUNSELOR AT LAW.—Office, in Patton's Brick, State street, Salem, Jan 27-ly.

DR. E. R. FISKE, SALEM, OREGON. Office, No. 1, Moore's Brick. Residence, Court street, opposite the University, Oct 25-ly.

S. HUGHES, REAL ESTATE AGENT AND NOTARY PUBLIC. Deeds, Mortgages, and Powers of Attorney drawn. Acknowledgments taken. Forest Grove, Oregon, Aug. 5, 1871-ly.

CITY DRUG STORE.

J. W. SOUTHER, DRUGGIST AND APOTHECARY. Moore's Block, Salem, Oregon. May 6, 1871-ly.

Real Estate Agency.

G. W. ROYAL, Real Estate & General Agent, SALEM.

IF YOU WISH TO BUY, RENT, OR SELL Farms or City Property, call on or address July 22-ly. C. W. ROYAL, Salem, Or.

Agent for Willamette Farmer IN EUGENE CITY.

James F. Brown, BOOKSELLER AND DEALER IN MAGAZINES, Periodicals, Newspapers, Books and Novels. Subscriptions taken for the WILLAMETTE FARMER, and all Eastern Publications, at Publisher's prices. Willamette street, second door to the St. Charles Hotel, Eugene City, Oregon. April.

MALLORY & SHAW, ATTORNEYS AT LAW, SALEM, OREGON. Office over Gray's store, corner of State and Liberty streets. May 17-ly.

GEO. E. CHANCE, (Assisted by T. L. Nicklin) DENTIST, Salem, Oregon.

THE CONTINUED PATRONAGE of those appreciating PERMANENT AND FINISHED OPERATIONS, earnestly solicited. Artificial work as good as the best and as cheap as can be had at any office in the State. Nitrous Oxide, for painless extraction. Rooms over Wade's Store, and adjoining Montgomery's Gallery Commercial street.

J. D. JORDAN. G. W. JORDAN.

JORDAN BROTHERS, DEALERS IN

HARNESS, SADDLES, BRIDLES,

Saddlery Hardware ETC., ETC., ETC., State Street (nearly opposite Patton's Block) Salem.

A Good assortment of Concord Stage and Buggy Harness.

Harness Made to Order.

Repairing promptly attended to, and a general assortment of Farm harness kept constantly on hand, or made to order on short notice.

Having removed from our old stand on Commercial Street to the place formerly occupied by Sam'l Gray on State Street, we respectfully solicit a further share of public patronage. Recommendation: Our Work. April 17

JOHN HUGHES, Corner of STATE and LIBERTY Streets — DEALER IN — GROCERIES.

Bacon, Lard, Butter, Cheese, Flour, Grain, Feed, AND DOMESTIC PRODUCE OF ALL KINDS.

Paints, Oils and Window Glass, American and English Coach Varnishes, English and American Furniture Varnishes, Gum Shellac, and Japan Varnishes, White Damar and Asphaltum Varnishes.

CASTOR OIL, LARD OIL, NEATS FOOT OIL, CHINA NUT OIL, ELEPHANT OIL, DOGFISH OIL, POLAR OIL, COAL OIL, LINSSEED OIL, PUTTY COLORS, LAMPBLACK, RAW AND BOILED OIL, GRAINING TOOLS, &c., &c.

Wholesale and Retail at JOHN HUGHES. Cash paid for all kinds of Merchandise Produce at Cash Rates. JOHN HUGHES.

TREES AND PLANTS!

East Portland Nursery.

I INVITE THE ATTENTION OF DEALERS and planters to my large and complete stock of Standard Fruit Trees OF EVERY VARIETY.

GRAPE VINES, Small Fruits, Ornamental Trees, Shrubs, Plants, Bulbous Flowering Roots, Roses, etc.

Fruit and Green House Catalogue sent free on application. Address, H. HANSON, East Portland, Oct 25-ly.

FARMERS OF Oregon and Washington, LOOK HERE.

I HAVE RAISED AND HAVE FOR SALE quite a quantity of the celebrated MAMMOTH ORANGE DENT CORN for seed, now ready to supply orders.

This corn yielding at the rate of sixty-eight bushels per acre on my farm the first season, maturing itself thoroughly, and growing from ten to twelve feet in height and bearing frequently two ears on a stalk, and producing from twenty to twenty-four rows on an ear. Prices per bushel sacked and put on board cars, \$2 00; peck do, \$2 00; 4 lbs by mail postage paid, \$1 50. C. P. BURKHART. Albany, Dec. 25th, 1871.

Willamette Nursery, G. W. WALLING & CO., OSWEGO, OREGON.

GROWERS OF THE CHOICEST VARIETIES of Fruit Trees & Shrubbery

Particular attention given to CHERRY AND PLUM TREES. Persons intending to purchase Trees during the season of 1871-2, should call and examine our stock which is the Largest and Best in the State

Send for Catalogue, distributed gratis. Nov 11-ly.

Why Delay Insuring?

SECURE THE PROTECTION OFFERED BY THE OLD NEW ENGLAND.

Facts Little Known RELATING TO LIFE INSURANCE:

THERE IS NO FORFEITURE IN the New England Mutual Life Insurance Company, and the following examples prove the fact: PORTLAND, Nov. 15, 1869.—Loss paid on a policy where the premium was six months overdue—A. C. E. Miller, Portland, Oregon. Amount insured, \$5,000. The payment of this claim was attested by Cincinnati Bills, Jacob Mayer, Geo. H. Flanders, M. S. Sells.

COLUSA, Jan. 27, 1870.—Loss paid on a policy where the premium was four months overdue—J. W. Jones, Colusa, Cal.; amount insured, \$10,000. The payment of this claim was attested by Frank Spaulding, W. F. Goad, J. M. Wilson, J. W. Goad, A. J. Johnson M.D., Henry Peyton.

WALNUT CREEK, Jan. 26, 1871.—Loss paid on a policy where the premium was eleven months overdue—Lawrence G. Pool, Walnut Creek, Cal.; amount insured, \$5,000. The payment of this claim was attested by John Siltz, Orris Fales, John J. Kerr, M. Colver, D. F. Majors.

COLUSA, Feb. 28, 1871.—Loss paid on a policy where the premium was four months overdue—Jas. H. Cadden, Colusa, Cal.; amount insured, \$3,000. The payment of this claim was attested by W. F. Goad, J. W. Goad, John Boggs, John Cheney.

SAN FRANCISCO, July 25, 1871.—Loss paid on a policy where the premium was two months overdue—J. Levinson, of Boise City, Idaho; amount insured, \$10,000. The payment of this claim was attested by M. S. Barnett, S. A. Gyle, J. Cerf, Rosenthal, Feder & Co.

The above claims were paid under the Massachusetts non-forfeiture law. The New England Mutual Life Insurance Company was incorporated in 1825, and is therefore the oldest purely mutual life insurance company in the United States. It has CASH ASSETS OF OVER \$10,000,000, and is the only company on the Pacific coast governed by the Massachusetts non-forfeiture law. DIVIDENDS declared and made available in payments of premiums ANNUALLY. WALLACE EVERSON, General Agent, N. E. cor. Sansome and California sts., San Francisco. JOSEPH HIDDLEBURN, Superintendent of Agencies, 10 Front st., Portland. CAPT. LYMAN S. SCOTT, Local Agent, State st., Salem. Decided

C. N. FARMENTER. F. J. BABCOCK. FARMENTER & BABCOCK, Commercial Block Salem.



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Coffins and Caskets Made to order at short notice, and on reasonable terms. Nov 6-ly.

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HAVING ESTABLISHED A First Class Bookbindery in Salem, is now prepared to do all manner of work known to the trade.

Magazines, Newspapers and Music, Bound in any desired style. Old Books re-bound. BLANK BOOKS, of every description, with or without printed headings, manufactured to order. BLANKS, of every kind, ruled and printed to order. PRICES REASONABLE. In Gray's Block, State street. May 17-ly.

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Groceries and Provisions, Tobacco and Cigars,

Foreign and Domestic Fruits, FARMERS' PRODUCE, CROCKERY,

Glassware & Stoneware Salem, July 30, 1870.

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CUTTING ENGINES, SAW MILLS, GRIST MILLS, Reapers, Pumps, and all kinds of styles of machinery made to order. Machinery repaired at a short notice. Pattern making done in all its various forms, and all kind of Brass and Iron Castings furnished at short notice. my 6-ly

LOOK HERE! 100,000 Hop Roots for Sale

ON REASONABLE TERMS. The above are the far famed HUGLENS CLUSTER. The only variety that matures early and produces largely in Oregon. They are thoroughly acclimated, healthy and thrifty. Five year's cultivation have shown the average annual yield to be 100 lbs to the acre. Apply at Hop Yard of WELLS & CO., Kantian Bottom, or address them at Buena Vista, Sept. 25-ly.