

MAKE OUR OWN SUGAR

Best Beet Land in the World Is in the Palouse Country.

World's Average Is 14 Per Cent Sugar Value—Palouse Average Is Over 18 Per Cent.

At the town of Waverly, just over the Whitman county line is Spokane county, at the end of the R. & N. Company line, is located the best sugar factory of the Washington State Sugar Company, and which is said to be one of the largest and best equipped plants for the manufacture of beet sugar in America.

The Washington State Sugar Company plant is owned principally by D. C. Corbin of Spokane, builder of the Spokane Falls & Northern Railroad, and several times a millionaire. The buildings were erected and plant installed in the summer of 1899, and that fall the factory had a "campaign," as the sugar making season is called, of about twenty days. Sixty tons of sugar was manufactured, but through difficulty in obtaining skilled labor, the product of the factory was unmarketable.

Mr. Corbin did not despair, however. While last year but 3300 tons of beets were obtainable, this year the quantity of beets has been in excess of 5000 tons, and the total output of the factory for a campaign of less than thirty days will be between 1,000,000 and 1,200,000 pounds of granulated sugar, that in fineness, sparkle and purity will compare favorably with the product of the best refineries.

An inspection of the factory was made a few days ago by a Gazette representative under the guidance of Assistant Superintendent Woodall, who explained the different processes by which ten tons of beets were taken from the fields and within a few hours a ton of fine granulated sugar was seen in sacks, ready to ship to market.

Process of Manufacture.

Reduced to plain English, the making of beet sugar seems simple enough. The juice of the beet is extracted, the albuminoids removed, the juice filtered, its acidity corrected and made alkaline, the juice boiled in vacuum until the condensed syrup candies, when it is dumped in a machine very much resembling a milk separator, which revolves at the rate of 1200 revolutions a minute, throws off the molasses, leaving a sugar that is washed, dried and sacked, and is then ready for use. The actual operations by which this result is obtained are not so simple as the telling would seem. To accomplish them requires the constant employment of ninety men in the factory, divided into two twelve hour shifts, with an initial investment of \$500,000.

Come in By Carloads.

The beets are brought to the factory in carload lots, and also by farmers in wagons, and are first stored in a long roofed shed, of which there are three, each holding 500 tons of beets. In the center of each of these sheds, is a trough through which flows a stream of water. By this stream the beets are conveyed to the factory, and automatically are washed, weighed and fed into the slicing machine, which cuts the beets into cassettes, or shreds, each about the size and length of a small lead pencil. These shreds are packed into the cells of the diffusion battery. There are fourteen cells in the battery, each of which will hold 3800 pounds of beet shreds. But twelve cells are connected up at once, of the other two one being in the process of emptying, while the other is being filled. Water is turned into the cells at a temperature of about sixty degrees, and the process of driving out the saccharine properties of the beet begins, the sweet beet juice being supplanted in the cassettes by the water. The fluid from each cell passes through the next cell, extracting the saccharine properties of each cell's charge as it goes. In twelve minutes on an average the saccharine value of a diffusion cell full of beet cassettes has been extracted, the cell is opened, the beet pulp is dumped and the cell charged again. About every fifth or sixth cell in the battery the beet juice is drawn, and is pumped to the measuring tanks, and then to the mixing tanks where about ten per cent of milk of lime is added, and after a thorough stirring the saccharate of lime is pumped into a carbonation tank, where carbonic acid gas is added, which precipitates the lime, carrying with it the albuminoids that were in the beet juice. An elaborate system of filtering follows, the liquid being forced through closely woven jute cloths, the lime and other impurities forming a lime cake in the filters. The beet juice is now a thin liquid, slightly green in color, and with a sugar value of from 17 to 20 per cent. The juice is now evaporated in what is termed the quadruple effect, four immense vats, in which steam pipes are contained in cells, and is then pumped into the sulphitation tanks, where the natural acidity of the beet juice is changed into an alkaline. The beet juice has become a syrup and the making of sugar actually begins. The beet syrup, now become a dark greenish brown in color, is fed into a vacuum tank, and boiled at a temperature of 65 to 70 degrees until a candy is formed. Then the candied mass drops into a mixer, where a set of revolving knives, stir it around and about, until it becomes a plastic mass of syrup and sugar mixed. A charge of this, about 400 pounds, is dropped into a centrifugal machine, 1200 revolutions a minute, quickly throws off the thick syrup still uncandied, leaving the sides of the receiver with a thickness of sugar of a light brown color. A hose with a sprinkler nozzle, through which is pumped a stream of water slightly impregnated with ultra-marine blue, throws a spray on the rapidly revolving sugar mass, and the light brown color fades into a white, and within ten minutes of the time the plastic mass is dumped from that machine 300 pounds of white sugar, which after drying is the granulated sugar of commerce.

The factory has a capacity of 350 tons of beets a day, of 14 per cent sugar value, can be safely depended on to manufacture 35 tons of sugar a day. This year the daily output has not been in excess of 20 tons, the factory working up not to exceed 175 tons a day of beets with a sugar value of 18 per cent or more. Those in charge complain that the lime in use sticks with much diffi-

culty, and for that reason the operation of carbonation and filtration are much slower than they should be.

Finest Beets on Earth.

In a conversation with Superintendent of Agriculture Ram it was learned that during this year the beets worked up came from 1300 acres of land, and that the yield of an average of 4 tons an acre, was in his opinion not more than a third of a crop. Mr. Ram said:

"The Palouse country, and particularly that portion of Union flat lying south and west of Pullman, is the best sugar beet land in the world. In sugar beet countries it is expected that beets will average from 12 to 13.5 per cent richness and 80 per cent purity. The 5200 or 5300 tons of sugar beets that the factory has worked up this year have averaged over 18 per cent sugar richness, and have closely approached 90 per cent purity. In making contracts with the farmers, the scale was fixed this year at \$4 a ton for beets of 12 per cent sugar value, with an addition of 25 cents for each added per cent of sugar value. The farmers have been given an average price of \$5.50 per ton, and many of those who raised beets for the factory made a very good thing of it—one farmer reporting that he had made a profit of \$27 an acre on a 30-acre patch, while several state that beet growing had proven profitable. In my opinion beet culture will pay as well as any branch of farming that can be pursued in this country. This land will produce from ten to fifteen tons of beets an acre, under proper cultivation. The cultivation of an acre of beets, I know from long experience, does not cost more than \$30, and this includes everything that can possibly be charged against the land, including the harvesting of the beets, and its loading on the cars. That is the cost for a ten ton crop. If the crop is fifteen tons, perhaps the cost may reach \$35. Even if the beets are not richer in sugar than 12 per cent, the return would be from \$40 to \$60 an acre, while if the beets were as rich in sugar, as the crop of this year, the return would be from \$55 to \$82.50 an acre. I can see no reason why the beets of the future seasons should not be as rich as those of this year. Many of the batches of beets sold to the factory during the present season, were of even higher sugar value than 18 per cent, one lot reaching over 23 per cent, while there were many that were greater than 20 per cent. I have made contracts with farmers who will raise beets on 2500 acres of land during the coming season, and I have hopes of getting at least 20,000 tons of beets to be ground up into sugar.

"The sugar output of the factory is being handled by the wholesale grocers of Spokane, who are loud in their praise of our product. The company figures that even when the mill is pushed to its full capacity, the people of the inland empire will consume the full product of the plant. Perhaps it may be of interest to show what this plant will pay out to the farmers during future years. A full campaign is accounted from 110 to 120 days. Assuming that the latter figure is the right one, and that we pay as we did this year, an average price of \$5.50 a ton for the beets, we will then pay out to the farmers for 42,000 tons of beets, \$231,000. Then the factory will have to pay the railroad company at least \$1 a ton, or \$42,000. It will take at least 150 men to run the factory during the campaign, whose pay will average \$2.50 a day, or \$45,000 in all. Then for repairs, general supervision, superintendent, etc., add \$50,000, or a yearly total of \$368,000."

One Way to Prosperity.

Henry Schlehuber, after trying to make exclusive wheat farming pay for a number of years, came to the conclusion that raising a few head of stock in connection with his farm was the sure way to make money with a small amount of work, says the Farmington Times. Last spring while still putting in a large acreage in wheat, Mr. Schlehuber reserved a portion of his land for pasture, and commenced to buy calves whenever he could find one or more for sale. To buy calves or yearlings in the spring for the purpose of making money on the deal, would naturally be the first thought to a farmer. However, he concluded to try the experiment, and has realized a handsome profit on his investment. In conversation with Mr. Schlehuber a few days ago, he informed us that altogether he had purchased 25 head of calves and yearlings for about \$275, and had a short time ago disposed of the entire band for \$552, a yielding him in about six months a profit of \$277 as interest on the money invested.

Frozen Sugar Beets.

About five carloads of sugar beets on the Burrell ranch have been frozen, says the Garfield Enterprise. This loss represents more than the profit on this year's crop. These beets were pulled and ready to be delivered. There were 160 acres in beets. Of these twenty-five cars had been shipped to the factory. On account of the lack of June rains the crop was not a good one. The high grade of the beets, 20 per cent saccharine matter, in part compensated for the low tonnage. Not only this year but last was discouraging, still it is stated that another trial will be made next year.

Returned From Iowa.

E. O. Ankerson of Penawawa returned recently from a visit to his old home at Davenport, Iowa, to which he had been absent for twenty years. He says methods of life there are too slow for him, and that the country and the people look just as they did a score of years ago.

Beware of Ointments for Catarrh that Contain Mercury.

As mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physicians, as the damage they will do is ten fold to the good you can possibly derive from them. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., contains no mercury, and is taken internally, acting directly upon the blood and mucous surfaces of the system. In buying Hall's Catarrh Cure be sure you get the genuine. It is taken internally, and made in Toledo, Ohio, by F. J. Cheney & Co. Testimonials free.

Sold by Druggists, 75c per bottle. Hall's Family Pills are the best.

EXPERIENCE IS THE BEST TEACHER, use Acker's English Remedy in any case of coughs, colds or croup. Should it fail to give immediate relief money refunded. 25 cts. and 50 cts. The Elk Drugstore.

Gunter's chocolates and bonbons are a delicious candy. At The Elk Drug Store.

MONEY FOR THE SCHOOLS.

Amounts Apportioned to the Various County Districts

County Superintendent Roberts has completed the apportionment of school funds for the November quarter. The total amount apportioned is \$9254.95, divided among the various districts as follows:

Table with 4 columns: Dist., Amt., Dist., Amt. Lists various districts and their corresponding amounts.

Many Cars of Apples.

L. A. Porter of Lewiston is buying a large quantity of apples at this city for shipment to various markets to the east, west and north. He expects to secure at least 50 carloads at Colfax and nearby points. Forty cents a box, packed, or 45 cents a hundred pounds in bulk is the price being paid. Mr. Porter's agent here has already used nearly three carloads of the extra boxes in the apples already packed for shipment. The quality of the fruit received has been of uniform high grade, and the quantity would be greater if the price was better. The large crop of apples grown this season, especially in Washington, has been fully up to, if not greater, than the demand and low prices have resulted.

Removed to Moscow.

T. W. Clagett, recently of Sunset, has gone to Moscow where he will have charge for several months of the extensive business interests of Mr. Ryrie. The latter gentleman is traveling for the benefit of his health. Mrs. Clagett is at present visiting Colfax friends, but will soon join her husband at Moscow, where they will reside.

Woodpile Fell.

Prosecuting Attorney W. A. Inman was laid up several days last week through a fall. In manipulating a woodpile in his shed the stack fell. In backing out of its way Mr. Inman fell over a sawbuck, striking up his back upon one of its sharp corners, badly hurting him.

Xmas Sale and Woman's Exchange.

The ladies of the Congregational church will have an Xmas sale and woman's exchange Friday evening, December 7, at 7:30 o'clock, at the Bank of Colfax. Fancy articles in embroidery, drawn work and many useful and ornamental things suitable for Xmas gifts will be on exhibition. The woman's exchange will offer a variety of good wholesome eatables. Come and see for yourselves. No admission.

Do You Need a Bond?

If you hold a position of trust, and require a bond, why ask your friends and be refused when you can obtain one from The American Surety Company of New York at a nominal cost. For information, apply to Geo. H. Lennox, Colfax, Wash.

Mail Them to Your Friends.

Centemeri Glove Orders, a most acceptable present, issued by A. Kuhn, exclusive agent for Colfax, will be honored at any time at Centemeri, San Francisco office, 200 Post St.

For Sale.

A 7-room house and lot 100 feet square, in South Colfax on flat. Will be sold cheap if taken at once. W. O. Carley, at Carley Bros. Foundry.

For Sale.

A span of 1600-pound horses, well broke. A. Overly, Garfield.

Mrs. M. M. Donnelly, manager for the Viavi remedies. Will mail a Health Book on application.

For bargains in real estate, call on Eacho, Larue & Co., Davis building, Colfax, Wash.

H. W. Goff writes reliable insurance.

Advertisement for Laxative Bromo-Quinine Tablets, featuring the E. W. Goff logo and text: "Highest market price paid for country produce of all kinds."

Commitment of Homesteads.

Nelson Allen of Almota has received the following letter regarding commitment: Land Office, Walla Walla, Wash., Nov. 22, 1900—Nelson Allen, Almota, Wash.—Dear Sir: Replying to your letter of the 16th, I have to state that we have no copies of the act of June 5, 1900, which is the last act passed by congress relative to homesteads, and which, very likely, is the one you refer to. Said act provides that where a party made a homestead entry prior to June 5, 1900, and for any reason failed to complete title and lost the claim, can make a second homestead entry. Said act also provides that where a party made a homestead entry prior to said date, he can make a second homestead entry, but he would not be allowed to complete the second entry. Command me for any further information you may desire. J. M. HULL, Register.

European Grain Reports.

Washington, Nov. 24—European reports to the department of agriculture show that the conditions of fall sown wheat, spelt and rye in Germany, as officially reported, are considerably above medium. The preliminary official estimates of French cereal crops for 1900 show the production of 43,612,498 bushels of barley and 252,877,918 bushels of oats. Both grains were a little lighter in yield than in 1899, besides returning a smaller yield per acre in measured bushels.

Scarlet Fever.

Helen, the young daughter of Mr. and Mrs. Otis Hamilton, is ill with scarlet fever. The case is not considered a dangerous one and is under strict quarantine. No other cases have so far been reported in the city.

Made Young Again.

"One of Dr. King's New Life Pills each night for two weeks has put me in my 'teens' again," writes D. H. Turner of Hempstead, Pa. "They're the best in the world for Liver, Stomach and Bowels. Purely vegetable. Never gripe. Only 25c at The Elk Drug Store, F. J. Stone, Prop'r."

Stops the Cough and Works off the Cold.

Laxative Bromo-Quinine Tablets cure a cold in one day. No cure, no pay. Price 25 cents.

Eacho, Larue & Co. have bargains in fruit farms, wheat lands, stock ranches and town property in Colfax, Pullman and Garfield.

If you want insurance, or a collection promptly made, call on Eacho, Larue & Co., the real estate hustlers.

For rent—Six-room house, South Colfax. Inquire Mrs. E. E. Lommason.

Call on H. W. Goff for insurance.

Notice to Creditors.

In the superior court of the state of Washington, in and for the county of Whitman, in the matter of the estate of Nancy Beasley, deceased. Notice is hereby given that the undersigned, administrator of the estate of Nancy Beasley, deceased, to the creditors of and all persons having claims against said deceased, or said estate, to present their claims with the necessary vouchers, within one year after the date of the first publication of this notice, to said administrator, at his office in the city of Colfax, Whitman county, Washington. Dated November 9, 1900. M. L. KRAUSE, Administrator of the estate of Nancy Beasley, deceased.

Notice for Publication.

Frank M. Busby. Land Office at Walla Walla, Wash., October 20th, 1900.—Notice is hereby given that the following named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before the County Clerk and Clerk of the Superior Court of Whitman county, Washington, at Colfax, Washington, on Friday, December 7th, 1900, viz: Frank M. Busby, who made Homestead entry No. 3568, for the N.W. 1/4 section 33, township 16 N., R. 45 E., W. 2 M. He names the following witnesses to prove his continuous residence upon and cultivation of said land, viz: I. K. Luce, William Burton and John H. Shelton of Fallons, Wash.; William Ewert of Guy, Wash. JOHN M. HULL, Register.

Notice for Publication.

Albert Guske. Land Office at Walla Walla, Wash., November 20, 1900.—Notice is hereby given that the following named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before the County Clerk and Clerk of the Superior Court of Whitman county, Washington, at Colfax, Washington, on January 10th, 1901, viz: Albert Guske, who made H. E. No. 5423, for the S.W. 1/4 Sec. 28, Tp. 10 N., R. 40 E., W. 2 M. He names the following witnesses to prove his continuous residence upon and cultivation of said land, viz: L. S. Warner, of Endicott, Wash.; George Bush, Barney Essendrop and Oliver Broyles, all of LaCrosse, Wash. JOHN M. HULL, Register.

Notice of Dissolution of Partnership.

Notice is hereby given that the co-partnership heretofore existing under the firm name and style of Davis & Moffatt, has been dissolved by mutual consent. Dated this 1st day of November, 1900. A. J. DAVIS, H. M. MOFFATT.

NERVITA PILLS

Restore Vitality, Lost Vigor and Manhood. Cure Impotency, Night Emissions, Loss of Memory, all wasting diseases, all effects of self-abuse or excess and indigestion. A nerve tonic and blood builder. Brings the pink glow to pale cheeks and restores the fire of youth. By mail \$2.50 per box, 6 boxes for \$2.50, with our bankable guarantee to cure or refund the money paid. Send for circular and copy of our bankable guarantee bond.

Nervita Tablets EXTRA STRENGTH

(YELLOW LABEL) Immediate Results. Positively guaranteed cure for Loss of Power, Varicocele, Undeveloped or Shrunken Organs, Paresis, Locomotor Ataxia, Nervous Prostration, Hysteria, Elix. Insanity, Paralysis and the Results of Excessive Use of Tobacco, Opium or Liquor. By mail in plain package \$1.00 a box, 6 boxes for \$2.50, with our bankable guarantee to cure or refund the money paid. Send for circular and copy of our bankable guarantee bond.

NERVITA MEDICAL CO.

Clinton & Jackson Sts., CHICAGO, ILL. For Sale by W. J. Hamilton, Druggist, Colfax, Wash.

ALLEN BROS.

Dealers in General Merchandise DUSTY, WASH.

Highest market price paid for country produce of all kinds.

Lands for Sale. Large advertisement for land sales, including details on mortgage and interest.

MONEY TO LOAN

Why pay a high rate of interest when you can renew your mortgage with me at a better rate? We do not sell our mortgages, and charge no commission. Call or write,

D. RYRIE, Representing Balfour, Guthrie & Co.

THE FIRST NATIONAL BANK Of Colfax, Washington. CAPITAL - \$60,000.00. LEVI ANKENY, Pres. JULIUS LIPPITT, Vice Pres. EDWIN T. COMAN, Cashier.

J. A. Perkins & Co. \$100,000 to loan on improved farms in the Palouse country. No delay in closing loans.

CITY PROPERTY FOR SALE. GENERAL FIRE INSURANCE AGENTS. Office in BANK OF COLFAX

THE WHITMAN ABSTRACT CO. R. G. HARGRAVE, Manager. Abstractors and Conveyancers. Only Complete set of abstract books in Whitman County

SECOND NATIONAL BANK OF COLFAX DOES A GENERAL BANKING BUSINESS. Alfred Coolidge, President. Aaron Kuhn, Vice President. Chas. E. Scriber, Cashier.

Modern Warehouse Elevator Co. MODERN WAREHOUSE ELEVATOR. And is agent for a number of standard gasoline engines, from one to twenty horse power.

WOOD! COEY MERCANTILE CO. ROCKFORD, WASH., Can fill all orders for Wood on short notice.

Best Grade \$2.25, Buckskin \$2.00 per cord, by carload

Holiday Advertising will pay You. We can supply you with Circulars, Folders, Pamphlets. Or anything in the Printing Line.

Fine Office Stationery. Bramwell Bros. Colfax, Wash.

W. G. BUSSE has just received a nice line of Chamber Suits, Cheffoniers and Side Boards. Also a good line of Stoves and Ranges.

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Warm Them Before Serving. LACEY & SHELDON, Telephone Main 481. Main St., Colfax, Wash.

CLOSING OUT SALE. 75 thoroughbred, high-scoring White Plymouth Rock Chickens, at \$1.50 each. B. BURGUNDER. COLFAX, - - WASHINGTON.

THROUGH TICKETS TO CHICAGO, WASHINGTON, PHILADELPHIA, NEW YORK, BOSTON, And All Points EAST and SOUTH.

Through tickets to Japan and China, via Tacoma and Northern Pacific Steamship Co. For further information, time cards, maps and tickets, call on or write GEO. H. LENNOX, Railway and European Steamship Agent, Colfax, Washington.

A. D. Charlton, Assistant General Passenger Agent, No. 255 Morrison street, corner Third Portland, Oregon.

F. A. Blackstone sells Mason & Hamlin pianos and organs. The best is the cheapest. Subscribe for your periodicals through The Gazette and save money.

Tracts in all Variety. Some were taken under mortgage and must be sold. Farming and Pasture Lands, Fruit and Gardening Tracts, Orchards. Houses and Lots in Colfax, Pullman, Palouse and Moscow. Desk room to rent. Harry Cornwell.

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