

PORTLAND BUSINESS DIRECTORY

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 If you want to buy LIBERTY or VICTORY BONDS buy from MORRIS BROTHERS, Inc. We buy and sell at the New York market.

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FRED DUNDEE
 Motor Car Repairing & Machine Works
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SAVE 75 PER CENT OF YOUR TIRE VALUE
 You can avoid the high price of a new tire. As long as the fabric is in good condition, don't throw them away. Build onto them—Excess in your old tires.

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BUTTERFAT We pay Highest Market Price for Butterfat
 Send us your name and we will mail you our quotation.

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 1903 Belmont St., Portland, Oregon. Established 1911.

Genuine Ford Parts
TALBOT & CASEY, Inc. Authorized Ford Dealers
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Hotel Alder
 Rooms \$1 per day and up. Special monthly rates. Out-of-town visitors made to feel at home.

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 Ask Your Grocer SALEM BAKING CO., Salem, Ore.

MUSIC TAUGHT SUCCESSFULLY BY CORRESPONDENCE
 Piano and all hand and orchestra instruments. Personal attention from a personal teacher.

WANTED—HUMAN CURIOSITIES
 Of unusual nature. Long engagement, good salary. Send photo and full particulars in first letter.

LAHER AUTO SPRING You Can't Break Them!
 1900 Spring in Stock. Portland, Ore.

You Will Feel Right at Home Here
SAFE AND CENTRAL REASONABLE RATES
NORTONIA HOTEL
 11th and Stark, Portland, Ore. Excellent Cafe. Bus Meets All Trains.

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 THE BEST IN VAUDEVILLE

FLOWERS TONSETH FLORAL CO.
 The House of Flowers FOR ALL OCCASIONS
 287 Washington St., Portland, Oregon.

BROOMS Keep the Northwest Prosperous by using Northwest Made Goods.
ZAN BROS., Inc.

THE PEPPER BOX When in Portland try this RESTAURANT
 Good Service—Moderate Prices.
 108 Fifth St., Next to New Perkins Hotel

Smelt FRESH COLUMBIA RIVER SMELT Soon to Appear
 Send Orders to HEYES BROS., 205 Yamhill St., PORTLAND, ORE.

HIDES BESSINGER & CO., Wool, Pelts, Tallow. Wool Pullers
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WILLIAM COMPLETE LINE OF STEEL & IRON DEVICES AND SYSTEMS

City Co. is for you!
UNIVERSAL PAUL AUTOMATIC

When in Portland stop at The Portland Hotel
 In the Heart of the City.
HOTEL CLIFFORD
 East Morrison St. and East Sixth St. Two in a room, \$12.00 per day.

Must Work Together.
 Human beings were made to succeed and be happy when they work together on the "each for all and all for each" basis. Put them together any other way and they won't get on at all.

Suggested Change.
 Work—the staff of life. If you want knowledge, you must toil for it; if food, you must toil for it; and if pleasure, you must toil for it. —John Ruskin



MUSKRATS BRING BIG MONEY
 Runtle up all the muskrats you can and send to us now while we are paying the high top prices. You never got as much for your raw furs as we are now paying.

We also want your **OTTER, MINK, RACCOON, OPOSSUM** and all other furs. We pay highest prices. We send your money at once.

We give you a fair deal. Give us a trial.

H. LIEBES & CO.,
 Dept. B, Liebes Bldg. Portland, Ore.

TICKETS and Money Orders
LIDELL & CLARKE
 105 Third St., PORTLAND, ORE.

HIGHEST QUALITY SEEDS SUPPLIES
 Write today for our 1920 Seed Catalog and Buyers' Guide, of vital interest to GARDENERS, POULTRYMEN, ORCHARDISTS & FARMERS.

Routledge SEED & FLORAL CO.
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Renulife VIOLET RAY
 GENERATOR
 You would not be without one for many times the small cost. Free book tells the whole story.

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 Gasco Bldg., Portland, Ore.

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 A live man in each community to handle the "Lass-Vet" Product. An Auto necessary which has proved its success. Good money with fine proposition to right man. Write for particulars.

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 233 Washington St., Portland, Ore.

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 We specialize in fitting trusses. Send for monthly catalog and circular. We carry everything in Drugs, Rubber Goods, Elastic Hose, etc. and pay postage.

No Dope
 In HEPPSON, a eucalyptus and menthol compound for all forms of cough, colds and bronchitis. Contains no narcotics. Is suitable for either children or the aged. Price 60c and \$1.00 per bottle. For sale by the Portland Hotel Pharmacy, Portland, Oregon, and other drug stores.

QUEEN CITY Steam Cleaning and Dyeing Works
 Superior regulation costs reduced and re-angled. Superior process, certain to give satisfaction. We pay postage one way.
 288 Grand Avenue, Portland.

Ground Gripper Shoes
 are made and carried in stock for men, women and children, and can be fit by mail.

SEND FOR LITERATURE GROUND GRIPPER SHOE STORES
 2811 Wash. Street, Portland, Oregon.
 756 8th Helena Ave., Tacoma, Washington

Always That Exception.
 Too few ever speak with absolutely unreserved candor except when we are telling how good we think we are or how punk somebody else is.—Exchange

Calico Rock Progress (reporting illustrated lecture). "You would be horror-stricken to see some of the pictures that are full of blood and horror."—Boston Transcript.

ADJUSTMENTS AND COLLECTIONS
 Pease Bros., Inc., 806 Deion Building.
Short Adjustment Co., 526 N.W. Bk. Bldg.
ARTIFICIAL TEETH SPECIALIST
 Dr. E. C. Rossmann, 307 Journal Bldg.
ATTORNEY-AT-LAW
 Wm. H. U'Ren, Oregonian Bldg., Portland.
 Bakers, Confectioners, Fountain Supplies
 Gray, McLean & Percy, 4th & Glisan Sts.
CIGARS, PIPES
 Rich's Cigar Store, 6th and Wash. St.
DENTIST, LATE U. S. NAVY
 Dr. P. G. Brown, 809 Stevens Bldg., Portland
DENTIST
 R. E. Wright, 208 Raleigh Bldg., 4 & Wn.
ELECTRIC & ADVERTISING SIGNS
 Union Sign Co., 7th and West Park at Oak.
EXPERT GOWN MAKER
 Miss M. E. Cole, 307 Tilford Bldg., 10 & Mor.
FARM LIGHTING PLANT
 Lally Light, 93 1st St.
GOITRE SPECIALIST
 R. M. Erwin, M. D., 100-01 Journal Bldg.
DIAMONDS AND JEWELRY
 Aronson's, Broadway and Washington Sts.
HEMSTITCHING
 Edith M. Stevens, 2nd Flr., 550 1/2 Morrison.
KODAKS AND FOUNTAIN PENS
 Sahly, Portland's Kodak and Pen man.
MILLINERY & BARELEY CORSET
 Jones Millinery, 89 Grand Ave.
MUSIC SCHOOL
 Oregon Conservatory of Music, 16 4th St.
OIL SHAMPOOING & MANICURING
 Myrtle Clarke, 733 Morgan Bldg., Portland
PHOTOGRAPHIC STUDIO
 Hofeleather, 165 1/2 3rd bet. Mor. & Yamhill
PIANOS & TALKING MACHINES
 Siole Bros., 166 Tenth St.
PIANOS AND PHONOGRAPHS
 G. F. Johnson Piano Co., 149 6th.
PIPES, FITTINGS, ALL SIZES
 Zidell-Berenson Co., 208 Front St.
PLASTER DOLLS AND NOVELTIES
 Rose City Novelty Wks., 106 Grand Ave.
PROTECT YOUR EYES
 A. E. Hurwitz, Optometrist, 225 First St.
PYORRHEA DENTISTS
 Smith Long Service, 310 Bush & Lane St.
REALTORS
 Interstate Land Co., 248 Stark St.
SHEET METAL & RETINNING WKS.
 Union Ave. Metal Wks., 411 Union Ave.
SANITARIUM
 Dr. A. V. Downs, 540 Corbett St.
TEACHERS AGENCY
 Yates-Fisher, free registration, Brady Bldg.
WATER PRESSURE SYSTEM
 Luro Pumps, 93 1st St.
CANCER TREATED
 Lowell M. Jones, M. D., 312 Morgan Bldg.

ACCORDIAN PLEATING
 Knife and box pleating, hemstitching, 100 yd. Buttons covered. Eastern Novelty Bldg. Co., 45 1/2 Fifth street, Portland.
ARTIFICIAL LIMBS
 Oregon Artificial Limb Co., Inc. Write for Catalog, 425 Wash. St., Portland.
AUTO ACCESSORIES
Classy Bug Bodies
 Prices—\$65 and up.
 Burness & Martin
 15th & Alder Sts., Portland

DENTAL SUPPLIES
 Dents, which Dental Depot, Dental supplies of all kinds. Morgan Bldg., Portland.
BUILDING MATERIAL
 SHIPLEY BRICK CO., face and mantel brick a specialty. Phone East 1235; Res. 1787. 3015 42d. Morrison St., Portland, Ore. We will gladly make estimates.
BEAUTY PARLOR
 Modern Cosmetic Shop. Permanent hair waves. Most modern equipped complete shop in city. 208 Brady Bldg., Mar. 2207.

CARPET WEAVING AND CLEANING
Fluff Rugs From Old Carpets
 Rug Rugs, all sizes. Mail orders prompt. Send for Booklet.
 9x12 Rugs, Steam or Dry Cleaned, \$1.50.
 WESTERN FLUFF RUG CO.,
 54-58 Union Ave. N. East 5216, B-1475

CLEANING AND DYEING
 For reliable cleaning and dyeing service send parcels to us. We pay return postage. Information and prices given upon request.
ENKE'S CITY DYE WORKS
 Established 1890 Portland
DRUGS BY MAIL
 Oregon Herbs (Nature's Tea) for kidney and bladder troubles. 50c a pkg by mail. Chummy Drug Co., 318 Madison, Portland
DOORS AND WINDOWS
 We can sell you Doors, Windows, Roofing, Paint Glass and Builders' Hardware, direct at wholesale prices. Write for price before buying. Heacock Sash & Door Co., 312 First St., Portland.
HIDES, WOOLS & CASCARA BARK
 We have highest prices—Write us for quotation. Kahn Bros., 195 Front St.

FURS—RAW FURS BOUGHT
 Highest prices. The Fur Shop, 606 Sweetland Bldg., upstairs.
HAIR DRESSING
 Mine. Greenell relieves itching scalp. Modern superior hair removal. 250 Fledgler Building.
MACHINERY
 Send in your inquiries for anything in Iron or Woodworking Machinery, Logging, Sawmill, Contractors' Equipment, Locomotives, Rollers, Engines, Crushers, Rail, Cable, Hoists, etc. Burke Machinery Co., 523 Railway Exchange Bldg., Portland, Ore.
HIDES AND JUNK
 L. Shank & Co., 312 Front St. Pay full market values for hides, pelts, old rubber, metals, etc.

HEMSTITCHING
 Hemstitching, hemstitching, scalloping, braiding, accordion side pleats, buttons covered; mail orders. 219 Pittcock block.
 Accordion Pleating, Hemstitching, Buttons covered. Custom made shirts. Art Embroidery & Button Co., Morgan Bldg., Portland.

MONUMENTS
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 264-266 Fourth St.—New Bros.
MANUFACTURING JEWELERS
 Ross & Co., Inc. Specialist watch work. Fine workmanship. Prompt mail service. Mohawk Bldg., Portland, Ore.
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 Dr. Geo. W. Crookwell, Specialist in Female Diseases—704-6 Dekum Bldg.
PAINLESS DENTISTRY
 Absolutely performed by nerve-blocking method without after effects. Let us prove it to you. We make X-ray examinations and specialize in first-class dentistry at reasonable fees. Dr. A. W. Keene, Dr. B. W. Green, Atlantic Theatre Bldg., 351 1/2 Washington St., Portland, Oregon.

Uncle Eben.
 "A man dat keeps talkin' 'bout hisself," said Uncle Eben, "sometimes surprises you by de way he manages to make a purty good speech on a mighty slim subject."

Harnessing the Torrents.
 In Switzerland almost every mountain torrent has its electric plant, the current often being carried for many miles for lighting and power purposes.

Hilarious Bride.
 Because a London bride, aged forty-one, got drunk on her wedding day and kicked a police sergeant, she spent her honeymoon in jail.

Wisdom in New Course.
 Jud Tunkins has quit letting his cows stray on to the tracks, owing to the fact that the packers pay as much for beef as a railroad company, and with less argument.—Washington Star.

Never Touched Him!
 A bullet, traveling straight for the heart of a Toledo policeman hit the officers badge, shattered it, ripped his coat and went off at an angle without touching his body.

New York Bigger Than Switzerland.
 The present dwellings in Greater New York could more than accommodate the whole population of Switzerland.

Appearance of Animal is Accurate Measure of Owner—Customers Should Be Safeguarded.
 Pride should compel every dairyman to maintain his cows in an attractive and sanitary condition every day in the year. In a way the appearance of the cow is an accurate measure of the owner. In the same degree that neglected fences, overrun fence rows, tumble-down buildings and abandoned machinery typify the careless ne'er-do-well farmer, dairy cows which are dirty indicate the milk farmer who does not safeguard his customers.

MURINS Rests, Refreshes, Soothes, Heals—Keep your Eyes Strong and Healthy. If they Tired, Smart, Itch, or Burn, or are Irritated, Inflamed or Granulated use Murine often. Safe for Infant or Adult. At All Druggists. Write for Free Eye Book Murine Eye Remedy Company, Chicago, U. S. A.

Are You Satisfied? BEHNKE-WALKER BUSINESS COLLEGE is the biggest, most perfectly equipped Business Training School in the Northwest. Fit yourself for a higher position with more money. Permanent positions assured on Graduates. Write for catalog—Fourth and Yamhill Portland.

P. N. U. No. 7, 1920

PAINTS AND WALL PAPER
 Write us for prices. Pioneer Paint Co., 186 First St., Portland.
PLATING—NICKEL AND SILVER
 Write today for prices—we pay return postage on small parcels. California Plating Works, 214 2nd St., Portland.
PERSONAL
MARRY IF LONELY; for results, try me: best and most successful "HOME MAKER"; hundreds rich with marriage soon; strictly confidential; most reliable; years of experience; description free. "The Successful Club," Mrs. Bell, Box 566, Oakland, California.
PLUMBING & PLUMBING SUPPLIES
 We can supply you with any kind of plumbing supplies at wholesale prices. We will gladly estimate cost of any job. Write for prices.
STARK-DAVIS CO.,
 212 Third St., Portland.

SANITARY BEAUTY PARLOR
 We help the appearance of women. Twenty-two inch switch or transformation, value \$7.50, price \$2.45.
 409 to 413 Dekum Bldg.
RAILWAY TELEGRAPH INSTITUTE
 Young men and women; best returns for amt. invested. Position when qualified. 434 Railway Exchange Bldg., Portland.

STOVE REPAIRS
 Repairs for all stoves and heaters. Prompt attention to mail orders. Spokane Stove & Furnace Repair Works, Spokane.
TEACHERS' AGENCY
 Rocky Mountain Teachers' Agency, Frank K. Welles, ex-ass't State Supt. mgt., Portland, Or. Teachers placed promptly.
WANTED—FIR PITCH
 Will buy Fir Pitch in any quantities. We pay the freight and furnish the barrels. Correspondence solicited. Northwestern Turpentine Co., 1212 Gasco Bldg., Portland, Oregon.

WALL PAPER—PAINT
 At wholesale and retail. Mail orders promptly filled. Smith's Wall Paper House, 108-110 Second St., Portland.

RHEUMATISM—PILES—CONSTIPATION
 Wild Pigeon Springs Mineral Water. Nature's own remedy from the Rock. Drink it and get well.
 Bottled by
 Rock Remedy Co., 7 1st St., Portland, Or.

MODERN TORCH CO.
 Oxy-Acetylene Welding Equipment and Supplies. Write for catalogue.
 329 1/2 East Morrison St. Portland, Ore.

MEN WANTED FOR COMMON LABOR
 Work is at Paper Mill at West Linn, just across the river from Oregon City. Wage to start is 45c per hr. 8 hr. day. Good chance for advancement. Company has own hotel for accommodation of men. Meals 35c; Beds 10c, 20c 25c. Apply Crown Willamette Paper Co. office, West Linn, Ore.

HIDES TALLOW WOOL
 Write for Shipping Tags and Price List
SULLIVAN HIDE & WOOL CO.
 144 Front St. Portland

MULTNOMAH HOTEL
 "Where Home Comforts Abound"
 PORTLAND, ORE.
 The pleasure of your trip to Portland will depend upon the hotel you select. Cozy surroundings, moderate rates, and the welcome you find in your own home town, await you at the Multnomah.
 Garage in Connection.

DAIRY BUTTER, Cream, Eggs, Live POULTRY.
 We Pay Cash for
Haystack Co.
 PORTLAND, ORE. Write for Prices and Tags

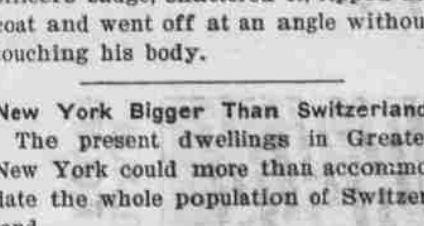
FEEDING SKIM MILK TO PIGS
 Resume of Many Tests Made for Purpose of Ascertaining Most Economical Method.
 A good many tests have been made for the purpose of ascertaining the most economical way of feeding skim milk to hogs. A resume of the work done along this line at the Indiana, New York, Iowa, Wisconsin and Ontario experiment stations shows that young pigs, that is, pigs weighing less than 100 pounds, may be fed as much as three pounds of skim milk per pound of grain, and by grain we mean any one of the cereals fed singly, or a number of them together. As pigs grow older the amount of skim milk should be reduced to about two pounds per pound of grain. The reason for this is that less protein is required as the pigs grow older and still less is required during the fattening period.

KEEP DAIRY COWS SANITARY
 Appearance of Animal is Accurate Measure of Owner—Customers Should Be Safeguarded.
 Pride should compel every dairyman to maintain his cows in an attractive and sanitary condition every day in the year. In a way the appearance of the cow is an accurate measure of the owner. In the same degree that neglected fences, overrun fence rows, tumble-down buildings and abandoned machinery typify the careless ne'er-do-well farmer, dairy cows which are dirty indicate the milk farmer who does not safeguard his customers.

Convenient Wagon Rack.
 Several farmers here have a handy rack for handling almost everything on the farm. Especially are they meant for crops which are taken to the market or cellar in crates or boxes. The best and cheapest one I have seen is 14 feet long, 6 feet wide, with sideboards 14 inches high, writes H. E. Rogers of Ohio in Farm and Home. The floor is solid of matched lumber one inch thick. The two stringers which run lengthwise are 4 1/2 by 6 1/2 inches and 14 feet long.
 Around the outside there is a piece 2 by 2 which is used for holding the sideboards in place when they are wanted. Along the sides there are four holes in the floor next to the strips, which take one-half inch iron bolts fastened to the bottom of the sideboards. This makes everything hold solid and there is no danger of a load of produce slipping after it is inside the boards. The side and end boards are held together by a short rod bolted on the end boards with a ring in the end. Another bolt comes through the side board with a hook in the end of it. These two join and are easily turned up tight.
 On this rack, with no sides on, we hauled onions, and put on 78 bushel crates. This rack on a low wagon is hard to beat. There is hardly a place where either a rack or a box is used that this sort of rack will not do the business of both. When thrashing there is a rack with no holes to let your legs down through when you don't look where you step. In hauling seeded grain, such as clover, a tight rack means a mighty big saving in the seeds that are bound to shell.

ATTENTION TO DISK HARROW
 Implement Should Be Gone Over Carefully During Winter Months and Put in Order.
 (By L. B. BASSETT, University Farm, St. Paul, Minn.)
 The disk harrow is a tillage tool found on nearly every farm. Its useful life is about 20 years, as shown by carefully compiled statistics. Thus it is a long-lived tool. There is very little about a disk to wear out. It has few moving parts and, if given good care, should cause little bother.
 Disks should be gone over carefully every season. During the winter months the boxes should be taken apart, carefully cleaned and, if badly worn, replaced. See to it that the oiling system works and that the bearings are getting oil. Keep the arbor bolt tight. This holds the disk firmly in place.
 If the disk is used much it should be sharpened at least once each season. This greatly increases the penetration and decreases the draft, as it will do more work with less set. It will also do better work; and because it does not need so much angle or set, there is less strain and wear on the boxes. While a dull disk will cut, it is like a dull ax, inefficient and expensive to work with.

Handy Rack Handles EVERYTHING ON FARM
 Especially Useful in Carrying Crops to Market.
 No Danger of Load of Produce Slipping After It Has Been Placed Inside of Boards—Big Saving Made in Hauling Seeds.



Wanted at Once
 A live man in each community to handle the "Lass-Vet" Product. An Auto necessary which has proved its success. Good money with fine proposition to right man. Write for particulars.

Wanted at Once
 A live man in each community to handle the "Lass-Vet" Product. An Auto necessary which has proved its success. Good money with fine proposition to right man. Write for particulars.