

PORTLAND BUSINESS DIRECTORY

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Pacific Coast Representative, 624 Henry Bldg., Portland, Ore.

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ZAN BROS., Inc.

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Get Springs with written guarantee for year. 15,000 Springs in Stock. Portland, Ore.

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Presenting at all times the Biggest American and European Novelties.
Every SUN, MON., TUES., WED.
Mat. Daily, 10c to 50c. Nights, 10c to \$1.00

ORIENTAL CAFE AMERICAN and CHINESE DISHES.
Service at all hours. Music and Dancing. Meet your friends here and enjoy your stay in Portland. Upstairs, corner Broadway and Washington Sts.

FARM IMPLEMENTS Cleveland Tractors, Studebaker Wagons, Iron Age hand garden cultivators and seeders, horse cultivators and potato planters, Brander Bull Dog auto tires, Tunstun spark plugs, Wade drag saws. F. E. Ebbenshade, 330 East Morrison St., Portland, Ore. Largest retailers in Northwest. Send for Catalogue

AUTO Parts The House of Parts and Accessories for Autos.
We will send you Parcel Post anything you may want for the Auto if it can be secured in the city.
LONG & SILVA, 462 Hawthorne, Portland, Oregon

'L' Cafeteria BEST PLACE IN TOWN TO EAT
We especially invite out-of-town visitors to give us a trial. We will make you feel at home.
Sixth and Alder Streets. PORTLAND, ORE.

CONLEY'S USED CAR CENTER
127 Lowndale Street.
We will pay you cash for late model cars or sell them for you. Remember the place - Brick Building, at intersection of Wash., 15th and Burnside.

GENUINE FORD PARTS TALBOT & CASEY, Inc., Authorized Ford Dealers
When in town, bring your Ford to us. Exceptional repairing facilities by first-class Ford mechanics. Magnets re-charged in car while you wait. Try us for parts. No. 1 Grand Avenue, Portland, Ore.

DYEING, CLEANING BROADWAY, DYE & CLEANING WORKS,
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Expert Watch and Jewelry Repairing. Mail Orders Given Immediate Attention.
310 Washington Between 5th and 6th Sts. PORTLAND, OREGON

Signor G. Taglieri Maestro of "La Voce Pastata"
Italian "Bel Canto" Voice Building from Elementary Stages to High Artistic Finish. Principal tenor Italian and English Grand Opera companies. Of international reputation. Studio-304-5 Stearns Building. Phone Main 3145.

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You Will Feel Right at Home. Beautifully Furnished Rooms. Safe
Central \$1.00 Without Bath
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11th and Stark, PORTLAND, ORE.
Excellent Cafe and Roof Garden

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OFFICE FURNITURE & APPLIANCES
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Wentworth & Irwin, Inc.
A One Horse Motor Cultivator and an All Purpose 4 H. P. Power Plant that Goes from Job to Job on Its Own Power.
WENTWORTH & IRWIN, INC.
Second Street at Taylor
PORTLAND, OREGON

Stop at The Portland Hotel when in Portland. Rate fits up in the heart of the City. Richard W. O'Quinn, Mgr.
BEEMAN GARDEN TRACTOR
and Walking Engine \$285.00
at the factory
Perfecting After Years of Testing and Improving.
A One Horse Motor Cultivator and an All Purpose 4 H. P. Power Plant that Goes from Job to Job on Its Own Power.
WENTWORTH & IRWIN, INC.
Second Street at Taylor
PORTLAND, OREGON

We have a large list of clients wanting to rent farms. They will purchase stock and implements and crops. Write us if you want quick action, we specialize in this line.
201-3-5-7 Board of Trade Bldg.
A. G. BENDER,
RITTER, LOWE & CO.,

CORDON PLEATING
Skirts pleated any style, \$1.00. Hem-stitching, 10c per yd. Buttons covered. Eastern Novelty Mfg. Co., 82 1/2 Fifth St.

AGATE CUTTERS & MFG. JEWELERS
Jewelry and watch repairing. Miller, 228 Wash. St., Majestic Theater Bldg.

ARTIFICIAL LIMBS
Oregon Artificial Limb Co., Inc. Write for Catalog. 428 Wash. St., Portland.

AUCTIONEERS - 24 HAND FURNITURE
Ford Auction Co.-Auctioneers. We sell everything. 191 Second St., Portland.

AUTO ACCESSORIES
Motors, gears, bearings, wheels, tires, and trailers. We wreck all makes of cars and sell their parts at half price. David Hodes Co., N. Broadway and Flinders.

Motor Parts Mfg. Co., 325 Burnside St.
Parts for all cars at half price.

LONG & SILVA, 462 Hawthorne Ave.
Auto Wreckers. We wreck cars and sell good parts at 1/2 list price. See us for Engines, Magnets, Carburetors, etc.

Classy Bug Bodies
Prices - \$85 and up.
Burness & Martin
15th & Alder Sts., Portland

CARPET WEAVING AND CLEANING
Pluff Rugs From Old Carpets
Rag Rugs, all sizes. Mail orders prompt. Send for Booklet.

2x12 Rugs, Steam or Dry Cleaned, \$1.50.
WESTERN PLUFF RUG CO.
54-55 Union Ave. N. East 6516, R-1475

BUILDING MATERIALS
SHOPE BROS. CO., face and muntel brick a specialty. Phone East 1535; Residence East 1727. 361 1/2 E. Morrison St., Portland, Ore.

Send for booklet on Farm Buildings of Denison Interlocking Tile: It is free. P. L. Cherry Co., 371 Hawthorne Ave., Portland, Oregon.

U. S. GOVERNMENT READY CUT HOUSES
Have for sale some new U. S. Government ready cut houses, size 14x45. Best of material: T and G lumber (not ship-lap) siding, 10 small windows, 2 doors, double floors and first class roofing and all complete. Ordered for officers' homes and U. S. inspected. Made with two rooms but easily made into three. Ideal for a little home, store building or country cottage. Cash price Portland \$295. Material cost twice the price asked. Blue print and complete bill of material furnished. Address: A. M. Rinehart, 325 Railway Exchange Building, Portland, Ore.

CITY AND FARM PROPERTIES
We protect your interests. Farms, timber, acreage, city, exchanges. Glen Realty Co., 431 Ch. of Commerce, Main 4127.

CLEANING AND DYEING
For reliable Cleaning and Dyeing service send parcels to us. We pay return postage. Information and prices given upon request.

ENKES CITY DYE WORKS
Established 1899 Portland

KEWANEE WATER SYSTEMS
and Electric Lighting Plants make life worth living on the farm. Easy to install and operate. M. D. Spencer, Distributor, 333 East Morrison, Portland, Oregon.

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St. Nicholas Cafeteria
125 Sixth Street, Portland, Oregon.
See what you want and pay for what you get.

Mark Your Shipments to We Pay Cash for
DAIRY BUTTER,
Cream, Eggs, Live
POULTRY.
Neighborhood Co.
PORTLAND, ORE. Write for Prices and Tags

J. C. ENGLISH CO.
Electric Washing Machines
Sold on Easy Terms.
148 Fifth St. Portland, Ore.
Second Floor Between Morrison and Alder.

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Everything for the Dairy, Creamery and Cheese Factory.
Distributors of
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Write for prices or information.
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Portland, Oregon
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With the Finest Dessert Serve
"English Style"
WELLINGTON
A Distinctive Cake Creation
Ask for It!
From the Daylight Factories.
TRU-BLU BISCUIT COMPANY
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CLEAN YOUR CARPETS AND RUGS
right on the floor. Save money and avoid wear and tear. Use T. R. Carpet and Rug Cleaner, the only preparation in emulsion form especially for this purpose; it thoroughly cleans; brightens and sets colors; destroys moths and moth eggs. One bar will clean 12x14 Rug; being a semi-dry process your carpets are ready for immediate use. Price 50c postpaid. ORDER TODAY. AGENTS WANTED.
THE RELIABLE MFG. CO., P. O. Box 140, Portland, Ore.

DOORS AND WINDOWS
We can sell you Doors, Windows, Roofing, Paint, Glass and Builders' Hardware, direct at wholesale prices. Write for prices before buying. Heacock Sash & Door Co., 212 First St., Portland.

DRUGS BY MAIL
Anything in Drugs, Rubber goods, Toilet Articles, etc. We pay postage. Satisfaction guaranteed. Joe M. Rice, 265 1st St., Portland.

Send to us for anything in Drugs, Rubber Goods, Trusses, etc. Postage prepaid. Plummer Drug Co., 260 3d St., Portland.

FARMS WANTED
If you have a farm for sale write us, giving detailed description. We are specializing in the sale of farm lands. G. S. Smith & Co., Chamber of Commerce Bldg., Portland.

FARM TRACTS
Own a farm tract where everything grows year around; fine climate, boating, bathing, fishing, shell roads. Let me send you one hundred views of this wonderful country between Houston and Galveston. Easy monthly payments, over five hundred producing oil wells in sight. Company drilling on this property now. Write or wire today - 1/2 sold out. Have parties who will plant your tract on shares. Let me tell you about it.
W. E. COGDELL,
Chamber of Commerce Bldg., Portland.

FARM LOANS
On improved farms in Oregon - Long time if desired, and at lowest current rates. Wm MacMaster, 221 U. S. National Bank Bldg., Portland.

HEMSTITCHING
K. Stephan, Hemstitching, scalloping, braiding, accordion side pleat, buttons covered; mail orders. 215 Pittcock block.

HIDES AND JUNK
L. Shank & Co., 312 Front St. Pay full market values for hides, pelts, old rubber, metals, etc.

HIDES, WOOL, TALLOW
BISSINGER & CO., P. O. Box 4578, 148 to 154 13th St. N., Cor. Irving, Portland. Main Office, San Francisco. Branches: Seattle, Spokane, Boise, Salt Lake, Reno, Billings, Missoula, Vancouver, B. C.

OPTOMETRIST AND OPTICIAN
GLASSER AT A SAVING
Patrons solicited on basis of capable service and reasonable charges. Thousands of satisfied patrons. A trial will convince. Chas. W. Gooding, optometrist, 209 Morrison, Portland, Oregon.

HIDES, WOOLS & CASCARA BARK
We pay highest prices - Write us for quotation. Kahn Bros., 195 Front St.

MEN WANTED
For Paper Mill work. No experience necessary. 8 hours work 42c per hour. Opportunity for advancement. Single men preferred. Splendid new hotel, meals 35c, rooms 35c. Apply
Crown Willamette Paper Co., Camas, Wash.

MONUMENTS
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264-266 Fourth St. - Neu Bros.

PHYSICAL THERAPEUTICS
Dr. R. A. Phillips, 905 Broadway Bldg. Disorders of the stomach, liver, kidneys, bowels, gut, high blood pressure and female disorders.

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

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; descriptions free. "The Successful Club," Mrs. Purdie, Box 556, Oakland, Calif.

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Paints and Auto finishes. Wholesale and retail. BOLLS Wall Paper Co., 229 Morrison St.

Write us for prices. Pioneer Paint Co., 188 First St., Portland.

PORTABLE DRAG SAW
Most highly improved Drag Saw on the market. Has the only real and practical price. Write for particulars and special prices.
BEAVER MOTOR PRODUCTS CO.,
246 Hawthorne Ave., Portland.

PORTLAND
Go with the crowd to the Abington Bldg., Portland to buy, sell or exchange Real Estate. Frank L. McGuire.

FORD STARTER
The new Ford Starter has arrived. Guaranteed to start any Ford at zero weather from driver's seat. Instantly. Demonstration 500 Burnside St., Portland. Distributors wanted. Price installed \$25.00.

SANITARIUMS
WHY THE MILK CURE? Ask the Moore Sanitarium. An institution devoted to doing one thing well. Office 905 Selling Building, Portland, Oregon.

SANITARY BEAUTY PARLOR
We help the appearance of women. Twenty-two inch switch or transformation, value \$7.00, price \$2.45.
400 to 412 Dekum Bldg.

SCHOOLS AND COLLEGES
EMPIRE BARBER COLLEGE
Wants Men, Women to learn the trade; positions waiting; send for catalogue.
MISS DECKER'S Private Business College, Alisky Bldg., 3d & Morrison Sts.

Hawthorne Auto & Gas Engine School, 462 Hawthorne Ave. Practical experience in overhauling and repairing every make of auto and gas engine. Oxyacetylene welding. Established 1907.

SILOS AND GRAIN BINS
The only exclusive Silo factory. No Hoops, No Nails, No Trouble. Stay Round Silo Co., 561 Dekum Bldg., Portland, Oregon.

TAILORED SUITS
Suits to order, \$10 down, \$5 per month. Unique Tailoring Co., 104 Fourth St., Portland.

WALL PAPER AND PAINTS
Wall paper and paints. Wholesale and retail. BOLLS Wall Paper Co., 229 Morrison St.

Gather roses while they blossom; tomorrow is not today.

PLANT CORN FOR ENSILAGE EARLY

Expensive Mistake Generally Made in Northern States by Planting Crop Last.

BEST FOR LARGE VARIETIES

Crops Are Made Much More Profitable When Judged by Feeding Value and Not by Its Height or Weight - Cultivation Pays.

(Prepared by the United States Department of Agriculture.)

Planting ensilage corn last instead of first is an expensive mistake very generally made in northern portions of the United States. Strong germinating seed of ensilage varieties from farther south should be planted two or three weeks earlier than the home-grown seed, which is planted for the production of grain.

Earlier Planting, Better Yields.
When large ensilage varieties from Virginia or Missouri, for example, are planted in northern states late in May, they make a rapid, long-jointed, tender, succulent growth, and are so green when fall frosts occur that they are heavy to handle, low in feeding value, and make ensilage which is sloppy and too sour. But when planted in April, or very early May, they make a slower, harder growth, better withstand spring frosts and summer droughts, and reach a more advanced condition of maturity and produce more grain than when planted later.

Early maturing, home-grown varieties do not need and may not be benefited by unusually early planting, but large-growing ensilage varieties are benefited. Though somewhat dwarfed by very early planting, the large en-

silage varieties will, by nature, make ample stalk growth, and because of early planting will yield more and riper grain and make richer and sweeter ensilage. Early planting supplies the age necessary for maturation and reproduction.
Early Cultivation Warms Soil.
Ensilage crops in the North are made much more profitable when these two points are observed:
Judge the crop by its feeding value and not by its height or weight, or the amount of labor necessary to silo it.
Although earlier planting necessitates earlier cultivation, it pays. Early cultivation dries and warms the soil surface. If it remains wet it remains cold, and the young corn cannot grow. Stirring causes the surface to dry rapidly, absorb heat, feel warm to the hand, and the corn to grow, while near by, uncultivated soil will remain cold, with corn at a standstill.



This Crop Was a Failure Because the Soil Moisture Became Exhausted Just When the Plants Should Have Begun to Form Ears

INCREASED SUPPLY OF FEED
Increase in Production of Hay Is Recommended by the Department of Agriculture.
The United States department of agriculture recommends an increase of 25 per cent in the production of hay, so as to maintain an increase, if possible, in the supply of live stock. The production of hay in 1918 was only 90,000,000 tons, as compared with 98,000,000 tons in 1917 and 111,000,000 tons in 1916.

Feed for Milk Cows.
Milking cows require generous feeding, otherwise the yield will fall very rapidly.

Spraying Essential for Potatoes.
Spraying potatoes is not only profitable but is essential to a continuance in the business of potato growing.

Care of the Brood Sow.
It is doubtful if any phase of the boys' pig club work merits more serious attention than that of the proper care of the sow at farrowing time.