

PORTLAND BUSINESS DIRECTORY

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Make 45 cents on Every Dollar Spent for Fuel. More Power Less Carbon.
More Miles, Less Cost. Cleans cylinders and keeps your engine smooth
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Voice Building from Elementary Stages to High
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Of international reputation. Studio—304-5 Stearns Building. Phone Main 3145.

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Beautifully Furnished Rooms.
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\$1.00 Without Bath
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Excellent Cafe and Roof Garden

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The Portland Hotel
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Rates \$1.50 up
In the heart of the City
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Beautiful Eyelashes
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nothing can compare with
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We Pay Cash for
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Cream, Eggs, Live
POULTRY.
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Easy to erect—low in price—ill last
a lifetime. This is the Silo that
practical farmers say is the Best Silo
in the World.
Send for full information
COLUMBIA DAIRY SUPPLY CO.,
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St. Nicholas Cafeteria
125 Sixth Street, Portland, Oregon.
See what you want and pay for what you get.
A Moderately-Priced Hotel of Merit
HOTEL CLIFFORD
East Morrison St. and East Sixth
\$1.25 per Day. Two in a Room, \$1.75.

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Splendid service and a pleasing price.
Jewelry repairing, watch repairing, via
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Ford Auction Co.—Auctioneers. We
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Motors, gears, bearings, wheels, axles,
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Parts for all cars at half price.

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Prices—\$85 and up.
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dence, East 1797. 361 1/2 E. Morrison St.,
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We will gladly make estimates.

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P. L. Cherry Co., 271 Hawthorne Ave.,
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lty Co., 431 Ch. of Commerce, Main 6127.

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vice send parcels to us. We pay return
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Established 1890 Portland

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Satisfaction guaranteed. Joe M. Rice,
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Goods, Trusses, etc. Postage prepaid.
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K. Stephan, hemstitching, scalloping,
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We pay highest prices—Write us for
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GLASSES AT A SAVING.
Patronage solicited on basis
of capable service and reason-
able charges. Thousands of sat-
isfied patrons. A trial will convince. Chas.
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Dr. R. A. Phillips, 906 Broadway Bldg.
Disorders of the stomach, liver, kidneys,
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We can supply you with any kind of
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We will gladly estimate cost of any job.
Write for prices.
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212 Third St., Portland

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For Paper Mill work.
No experience necessary.
8 hours work
45c per hour. Opportu-
nity for advancement.
Single men preferred. Splendid new
hotel, meals 35c, rooms
35c. Apply
Crown Willamette
Paper Co.,
Camas, Wash.

DR. ELNA SORESENSEN, 508 Panama

Bldg. Drugs—methua, stomach, kid-
neys, rheumatism, constipation, liver
trouble.

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Most highly improved Drag Saw on the
market. Has the only real and practical
clutch. Write for particulars and special
prices. BEAVER MOTOR PRODUCTS CO.,
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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. Ball, Box
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NEW BOOKS

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The Winds of Chance—Rex Beach—\$1.50
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Tarzan & Jewels of Opar—Burroughs 1.35
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Bldg. Drugs—methua, stomach, kid-
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Business Training School in the North-
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with modern training. Permanent positions
assured our Graduates.
Write for catalog—Fourth and Yamhill
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Bought, Sold, Rented and Repaired
WALKER ELECTRIC WORKS
Burnside, cor. 10th. Portland, Ore.

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Do Your Own Plumbing
By buying direct from us at wholesale prices
and save the plumber's profit. Write us to-
day for our list. We will give you our rock-
bottom "direct-to-you" prices, f. o. b. rail or
boat. We actually save you from 25 to 35 per
cent. All goods guaranteed.
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KEWANE WATER SYSTEMS

and Electric Lighting Plants, make life worth
living on the farm. Easy to install and operate.
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Write for prices—we pay return postage
on small parcels. California Plating Works,
214 2nd St., Portland.

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WHY THE MILK CURE? Ask the
Moore Sanitarium. An institution devoted
to doing one thing well. Office 908 Selling
Building, Portland, Oregon.

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Go with the crowd to the Abington
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Real Estate. Frank L. McGuire.

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

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SMOLER BARBER COLLEGE
Wants Men, Women to learn the trade;
positions waiting; send for catalogue.
MISS DECKER'S Private Business Col-
lege. Alamy 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
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The only exclusive Silo factory. No
Hoops, No Nails, No Trouble. Stay
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land, Oregon.

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Suits to order, \$10 down, \$5.00 per
month. Unique Tailoring Co., 104 Fourth
St., Portland.

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**ROCKY MOUNTAIN TEACHERS' AG-
ENCY.** Frank K. Welles, ex-assnt. State
Supt. mgr. Portland, Or. Teachers
placed promptly.

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

Executions Went On.

Some years ago the executioners of
Canton struck against striking off any
more heads unless they were paid an
extra shilling for each head removed.

The prisoners in the condemned cells
were anxious that the strike should
continue until the crack of doom, but
the authorities climbed down and the
executions went on as merrily as be-
fore.

HAVE YOU A SWEETHEART

So or Brother in camp or training for defense?
If so, mail him a package of Allen's Foot Ease,
the antiseptic Powder for Tired, Aching, Swollen
Feet, and prevents blisters and sore spots.
Makes walking easy. Sold everywhere. 25c.

To Get Rid of Roaches.

The United States department of ag-
riculture considers ridding a house of
roaches important enough to give in-
structions how to accomplish this. Mix
equal parts of sodium fluoride and
flour (or starch). Use like ordinary
roach powders, forcing it into crevices,
sprinkling it around drain pipes, etc.

Faults.

Do not think of your faults; still
less of others' faults; in every person
who comes near you, look for what is
good and strong; honor that; rejoice
in it, and as you can, try to imitate it;
and your faults will drop off like dead
leaves, when their time comes.—
Ruskin.

The Cuticura Toilet Trio

Having cleared your skin keep it clear
by making Cuticura your every-day
toilet preparations. The soap to cleanse
and purify, the Ointment to soothe and
heal, the Talcum to powder and per-
fume. No toilet table is complete
without them. 25c everywhere.—Adv.

Intelligence of Animals.

The hog is the most intelligent ani-
mal on the farm, except the dog.
Horses are next, then cattle. Sheep
have the least sense.

Knew Where it Would Land.

Lawyer—"Yes, sir! We can settle
up this estate for you in about eight
months." The Principal Heir—"But
can you wait that long for the
money?"—Judge.

J. E. VANDENBURG, Mail Order Art- ist.

Films developed 10c. Prints 2-4-5
cents. Satisfaction guaranteed. 10 West
Jessup St., Portland, Oregon.

\$5.25 for an evening's home work. In-
structions 10c. John C. Hahn, Cullom, Ill.

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is the biggest, most perfectly equipped
Business Training School in the North-
west. Fit yourself for a higher position
with modern training. Permanent positions
assured our Graduates.
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Do Your Own Plumbing
By buying direct from us at wholesale prices
and save the plumber's profit. Write us to-
day for our list. We will give you our rock-
bottom "direct-to-you" prices, f. o. b. rail or
boat. We actually save you from 25 to 35 per
cent. All goods guaranteed.
Northwest headquarters for Leader Water
Systems and Fuller & Johnson Engines.
STARK-DAVIS CO.
212 Third Street. Portland, Oregon



DRAG ROADS AT PROPER TIME

Fully as Important as It Is That High-
ways Should Be Done Right—
Keep Ruts From Forming.

(Prepared by the United States Depart-
ment of Agriculture.)

It is fully as important that a road
be dragged at the right time as it is
that the dragging be properly done.

Furthermore, the difficulties involved
in prescribing definite rules for deter-
mining when dragging should be done
are equally as great as those already
encountered in attempting to define
how it should be done. Only very gen-
eral statements concerning this fea-
ture of the work can properly be made
here, and much must be left to the ex-
perienced judgment of those who de-
cide when the dragging of any particu-
lar road is to be started and when it
is to be stopped.

The rule frequently cited that all
earth roads should be dragged immedi-
ately after every rain, is in many
cases entirely impracticable and is also

very misleading because of the condi-
tions which it fails to contemplate. It
is true that there are many road sur-
faces composed of earth or earthy ma-
terial which do not become very muddy
under traffic, even during long rainy
seasons, and since such surfaces usu-
ally tend to harden very rapidly as
soon as the weather clears up, it may
be desirable to drag roads of this kind
immediately after a rain. Such roads,
however, would not ordinarily need to
be dragged after every rain, because
of the strong tendency that they natu-
rally possess of holding their shape.

On the other hand, many varieties of
clay and soil tend to become very
muddy under only light traffic after
very moderate rains, and, it is evident
that roads constructed of such ma-
terials could not always be success-
fully dragged immediately after a rain.
Sometimes, in fact, it may be neces-
sary to wait until several consecutive
clear days have elapsed after a long
rainy spell before the road is suffici-
ently dried out to keep ruts from form-
ing almost as rapidly as they can be
filled by dragging.

Well-constructed sand-clay topsoil
roads should not often become muddy
after they are once well compacted.
They may become seriously rutted,
however, under heavy traffic, during
rainy weather, and are almost sure to
need dragging several times each year.
Such roads should ordinarily be drag-
ged as soon after a rain as prac-
ticable as otherwise the surface soon
becomes dry and hard, so that it is
necessary to do considerably more
dragging in order to fill the ruts. Fur-
thermore, the material which the drag
moves will not compact readily unless
it contains a considerable amount of
moisture.

Gravel roads can be effectively main-
tained with a road drag only when the
gravel composing the surface is fine
grained and contains a considerable
quantity of clay earth. Gravel road
surfaces in which this condition pre-
vails not infrequently get badly out
of shape during wet weather, and may
sometimes require considerably more
attention than well-constructed sand-
clay topsoil roads. The time for drag-
ging gravel roads is unquestionably
while they are wet. In fact, the best
results are sometimes obtained by do-
ing the dragging after the road has be-
come thoroughly soaked and while it
is still raining.

In general, it may be said that the
best time to drag any type of road is
when the material composing the sur-
face contains sufficient moisture to
compact readily after it has been
moved by the drag and is not suffi-
ciently wet for the traffic following the
drag to produce mud.



Drag on a North Carolina Road.