

A. & C. R. R. A DIRECT LINE

TIME CARD.

Leave	PORTLAND	Arrive
8.00 a.m.	Portland Union depot for Astoria and way points	11.10 a.m. 9.40 p.m.
7.45 a.m.		
7.00 p.m.		
7.30 p.m.		

Leave	ASTORIA	Arrive
7.45 a.m.	for Portland and way points	11.30 a.m. 4.00 p.m.
6.10 p.m.		7.50 p.m.

SEASIDE DIVISION

Leave	ASTORIA	Arrive
8.15 a.m.		7.40 a.m.
11.30 a.m.	for Warrenton, Hammond, Ft Stevens, Seaside	10.30 a.m. 4.00 p.m.
5.50 p.m.		5.50 p.m.
7.55 p.m.		

Leave	SEASIDE	Arrive
6.15 a.m.	for Warrenton Ft Stevens, Hammond, Astoria Flavel	9.25 a.m. 12.30 p.m. 1.30 p.m. 7.30 p.m. 10.50 p.m.
9.40 a.m.		
2.30 p.m.		
5.00 p.m.		

* Daily except Saturday.
 † Saturday only.
 All trains make close connections at Goble with all Northern Pacific trains to and from the East and Sound points.
J. C. MAYO,
 General Freight and passenger Agent.

To Chicago and all points east; Louisville, Memphis, New Orleans, and all points south.



See that your ticket reads via the Illinois Central R. R. Thoroughly modern trains connect with all transcontinental lines at St. Paul and Omaha.

If your friends are coming west let us know and we will quote them direct the specially low rates now in effect from all eastern points.

Any information as to rates, routes, etc., cheerfully given on application.
B. H. TRUMBULL, Commercial Agent, 148 Third street, Portland, Or.
J. C. LINDSEY, T. F. & P. A., 143 Third street, Portland, Or.
P. B. THOMPSON, F. & P. A.,

Special Excursion to the World's Fair.

The Denver & Rio Grande, in connection with the Missouri Pacific, will run a series of personally conducted excursions to the world's fair during June. These excursions will run through to St. Louis without change of cars, making short stops at principal points enroute. The first of these excursions will leave Portland June 7th, and the second June 17th. The rate from Astoria will be \$67.50 to St. Louis and return. Excursionists going via the Denver & Rio Grande have the privilege of returning via a different route. This is the most pleasant way, as well as the most delightful route, to cross the continent. The stops arranged give an opportunity to visit the various points of interest in and about Salt Lake City, Denver and Kansas City. If you wish to accompany one of these excursions write at once to W. C. McBride, 124 Third street, Portland, for sleeping car reservations.

The Northern Pacific Railway Company will place round trip tickets from Portland to St. Louis and return on account of the world's fair on sale as follows:

- June 16th, 17th and 18th.
- July 1st, 2nd and 3rd.
- August 8th, 9th and 10th.
- Sept. 5th, 6th and 7th.
- October 3rd, 4th and 5th.

The round trip rate to St. Louis and return from Portland will be \$67.50. Tickets will be good for return via any direct line.

A round trip rate of \$72.50 will also be made from Portland to Chicago and return.

If a passenger desires to take in both Chicago and St. Louis the round trip rate will be \$75.00.

All tickets will be good for 90 days from date of sale. Tickets will be good going ten days from date of sale so that a limited stop-over can be had on the going trip and on the return trip passengers can stop at their pleasure west of the Missouri river or St. Paul. These rates apply via direct lines, but if passenger wishes to return through California tickets can be sold accordingly, but at an increased rate of \$13.50 added to above.

For any additional information desired, call or address A. D. Charlton, Assistant General Passenger Agent, Northern Pacific Ry., 255 Morrison street, corner of 3rd, Portland, Ore.

NORTHERN PACIFIC

Time Card of Trains

PORTLAND		Leaves		Arrives	
Pugot Sound Limited		7:25 a.m.	6:45 p.m.		
Kansas City-St. Louis Special		11:10 a.m.	6:45 p.m.		
North Coast Limited		8:30 p.m.	7:00 a.m.		

Tacoma and Seattle Night		Express	
		11:45 p.m.	3:05 p.m.

Take Pugot Sound Limited or North Coast Limited for Gray's Harbor points. Take Pugot Sound Limited for Olympia direct.

Take Pugot Sound Limited or Kansas City-St. Louis Special for points on South Bend branch. Double daily train service on Gray's Harbor branch. Four trains daily between Portland, Tacoma and Seattle.

CHLOROFORMING PLANTS.

Method Employed to Make Them Blossom Early.

The florist who is first in the market with reasonable blossoms can command extraordinary prices for his product. Consequently, experiments are constantly being made in greenhouses in the direction of "forcing" early blooms. Quite recently scientific horticulturists have learned that plants are extremely sensitive to the effects of anaesthetics, and that the fumes of ether, for example, will cause their blossoms to develop several days earlier than in the course of nature.

The discoverer of this interesting fact is Johannsen of Copenhagen. The action of the vapor of chloroform and that of ether in arresting the movements of the leaflets of the sensitive plant (*mirabilis*) have long been known, but the action has been considered to be purely local.

Johannsen's experiments have been repeated on a large scale in Germany and in France, the general method of procedure being the following: In a case, as nearly air tight as possible, the lilac bushes are placed at a temperature of about 65 degrees Fahrenheit. Light is excluded. From the top of the case is suspended a small cup into which the ether is poured by means of a funnel through an aperture made for the purpose, and immediately closed. Owing to the explosive nature of the vapor the greatest care must be taken to avoid the presence of any flame. Thirty or 40 grams of ether are enough for 100 cubic liters of air. The plants are subjected to the influence of the vapor for 48 hours. On their removal from the ether chamber the leaves fall, if they have not already done so. The plants are then removed to a cool house and gradually subjected to forcing in the ordinary manner.

By these means the expansion of the blooms is hastened, the etherized plants producing their blossoms several days before those treated in the ordinary manner. The gain of a few days is a matter of great importance to the grower for market in the winter season, as he gets so much better a price for his goods. Moreover, the cost of fuel is reduced, for the same amount of heat is not required for forcing, as we have seen that the time required is diminished. Not only lilacs, but many other flowering shrubs have been experimented upon, and with such good results that the process has been adopted on a large scale.

Women from nearly all countries are constantly arriving at Manila in search of work, but it is said that few of them are from the United States. American girls are in demand there, and especially stenographers and typewriters, who receive larger salaries than they do in America. It is noticed that most of the "want ads," say American girl preferred.

What Shall We Have for Dessert?

This question arises in the family every day. Let us answer it to-day. Try

Jell-O,

a delicious and healthful dessert. Prepared in two minutes. No boiling! no baking! add boiling water and set to cool. Flavors:—Lemon, Orange, Raspberry and Strawberry. Get a package at your grocers to-day.

Every Woman is interested and should know about the wonderful **MARVEL Whirling Spray**. The new Vaginal Syringe. Injection of Sterilized, Best-Safest—Keeps Cleanest. It Cleanses Instantly.

Ask your druggist for it. If he cannot supply the MARVEL, accept no other, but send stamp for illustrated book—seeed. Have full particulars and directions invaluable to ladies. **MARVEL CO.,** 61 Park Row, New York.

The DENVER & RIO GRANDE RAILROAD

DELIGHTFUL ROUTE
DAYLIGHT RIDE
IZZY CRAGS
DEEP CANONS

A GOLDEN OPPORTUNITY

See nature in all her glorious beauty, and then the acme of man's handiwork. The first is found along the line of the Denver & Rio Grande Railroad, the latter at the St. Louis World's Fair. Your trip will be one of pleasure—make the most of it. For information and illustrated literature write

W. C. McBRIDE, Gen. Agt.
 Portland, Or.



"I'd like to see the Zulus an' the Kulis an' the Japs, The Moosiks an' the Moslems an' the Romanys an' the Lapps, I don't much care about the names they have, but I must say it'll be right smart instructive just to see 'em anyway. What's the use to cross the ocean and for weeks or months to hike when the world in twenty minutes can be seen along the Pike?"
 "A Ballad of the Pike," by Wallace Irwin. Copyrighted by Collier's Weekly. Published by permission.

\$67.50 To St. Louis and Return

June 16, 17, 18, July 1, 2, 3, August 8, 9, 10, September 5, 6, 7, October 3, 4, 5.
 Return limit, ninety days.

The Rock Island System offers two routes to the World's Fair City—via St. Paul-Minneapolis, and through Scenic Colorado. No change of cars, Ogden to St. Louis and St. Paul to St. Louis.



Full information on request. Call or write.
A. H. McDONALD, General Ag't.
 140 3rd Street, cor. Alder Street, Portland, Ore.

O. R. & N. OREGON SHORT LINE AND UNION PACIFIC

70 hours from Portland to Chicago. No change of cars.

Depart	TIME SCHEDULES From PORTLAND	Arrive
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Chicago Portland Special 9:15 a.m. via Huntington	Salt Lake, Denver, Ft Worth, Omaha, Kansas City, St. Louis, Chicago and the East	5:25 p.m.
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Atlantic Express 9:15 p.m. via Huntington	Salt Lake, Denver, Ft Worth, Omaha, Kansas City, St. Louis, Chicago and the East	7:15 a.m.
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St. Paul Fast Mail 6:15 p.m. via Spokane	Walla Walla, Lewiston, Spokane, Minneapolis, St. Paul, Duluth, Milwaukee, Chicago, and East	8:00 p.m.
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OCEAN AND RIVER SCHEDULE

—From Astoria—
 All sailing dates subject to change.

For San Francisco every five days.

Daily except Sun. Portland and Way day steam	Columbia River to Portland and Way Landings	4 a.m. Daily except Mon
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Direct Line to St. Louis World's Fair.

Steamer Nahcotta leaves Astoria on the tide DAILY FOR ILWACO, connecting there with trains for Long Beach, Tlaga and North Beach points. Returning arrives at Astoria same evening. Through tickets to and from all principal European cities.

G. W. ROBERTS, Agent,
 Astoria, Ore.

ASK THE AGENT FOR TICKETS VIA



OVERLAND TRAINS DAILY

The Flyer and The Fast Mail

SPLENDID SERVICE UP TO DATE EQUIPMENT COURTEOUS EMPLOYEES

Daylight trip across the Cascade and Rocky Mountains.

For tickets, rates folders and full information call on or address **H. DICKSON,** City Ticket Agent, 123 Third Street, Portland, Or. **S. G. YERKES,** G. W. P. A., 612 First Avenue, Seattle, Wash.

Scott's Santal-Pepsin Capsules

A POSITIVE CURE
 For Inflammation or Catarrh of the Bladder and Diseased Kidneys. No cure so perfect. Cures quickly and permanently the worst cases of Gonorrhoea and Gleet, no matter of how long standing. Absolutely harmless. Sold by druggists. Price \$1.00, or by mail, postpaid, \$1.50, 3 boxes, \$2.75.
THE SANTAL-PEPSIN CO., BURLINGTON, VT.
 Sold by Chas. Rogers, 458 Commercial

GOING EAST

TRAVEL IS GENUINE PLEASURE ON **Baltimore & Ohio R. R.**

ROYAL BLUE TRAINS

—BETWEEN—
Chicago and New York
 via WASHINGTON, D. C.

Finest and Fastest series of trains in the world. Palatial Coaches, Pullman Buffet Parlor and Drawing Room Cars.

The Finest Dining Car Service in the World.
 Is operated by the Baltimore & Ohio Railroad.
B. M. AUSTIN, General Pass. Agt. - Chicago, Ill.

TIME TABLE T. J. POTTER

DATE	LEAVE PORTLAND	P. M. Arrive Astoria	P. M. Leave Astoria	P. M. Arrive Ilwaco	Leave Ilwaco	Arrive Astoria	Leave Astoria	Arrive Portland
Tues. July 12	7:30 a.m.	1:30	1:30	2:45	8:30	9:45	9:45	4:45
Wed. " 13	8:15 a.m.	2:15	2:15	3:30	9:15	10:30	10:30	5:30
Thurs. " 14	9:00 a.m.	3:00	3:00	4:15	10:15	11:30	11:30	6:30
Friday " 15	9:00 a.m.	3:00	3:00	4:15	4:30	5:45	5:45	12:45
Sat. " 16	10:45 a.m.	4:45	4:45	6:00	.....	.....	.....	.....
Sun. " 17	.....	.....	.....	.....	6:00	7:15	7:15	2:15

G. W. ROBERTS, Agt., O. R. & N. CO.

"Best by Test"

A transcontinental traveler says: "I've tried them all and I prefer the

North-Western Limited

It's the best to be found from coast to coast."

It's "The Train for Comfort" every night in the year between Minneapolis, St. Paul and Chicago.

Before starting on a trip—no matter where—write for interesting information about comfortable traveling.
H. L. SISLER, General Agent,
 132 Third St. Portland, Oregon.
T. W. TRASDALE,
 General Passenger Agent,
 St. Paul, Minn.

Famous Trains

The Southwest Limited Kansas City to Chicago, The Overland Limited to Chicago via Omaha, The Pioneer Limited St. Paul to Chicago, run via

Chicago, Milwaukee & St. Paul Railway

Each route offers numerous attractions. The principal thing to insure a quick, comfortable trip east is to see that your tickets read via the Chicago, Milwaukee & St. Paul Railway.

H. S. ROWE, General Agent, 134 Third Street, Portland