

OREGON-WASHINGTON RAILROAD & NAVIGATION Co.

NORTHERN DIVISION

EMPLOYEES' TIME TABLE

To Take Effect Saturday, May 10, 1913

At 12:01 A. M. "Pacific Time"

For the Government and Information of Employes only, and not intended for the use of the public.

The Company reserves the right to vary from this Time Table at pleasure.

J. P. O'BRIEN

Vice-President and General Manager.

M. J. BUCKLEY

Assistant General Manager.

J. D. STACK

Assistant General Manager.

WESTWARD													EASTWARD														
Second Class						First Class						First Class						Second Class									
Length of passing tracks in Cars	691	363	35	33	31	29	369	311	27	25	23	361	21	364	20	22	24	26	362	28	30	32	370	312	34	692	
	Fast Freight	Owl	C.M.&St.P. 15	C.M.&St.P. 18	C.M.&St.P. 42	C.M.&St.P. 103	Oregon-Washing'tn Express	Shasta Limited	C.M.&St.P. 17	C.M.&St.P. 16	C.M.&St.P. 46	Local	C.M.&St.P. 101	Owl	C.M.&St.P. 16	C.M.&St.P. 41	C.M.&St.P. 17	C.M.&St.P. 102	Local	C.M.&St.P. 18	C.M.&St.P. 45	C.M.&St.P. 15	Oregon-Washing'tn Express	Shasta Limited	C.M.&St.P. 104	Fast Freight	
	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY
		PM 11.15	PM 8.15	PM 7.15	PM 6.10	PM 4.20	AM 11.45	AM 11.30	AM 11.20	AM 10.15	AM 7.35	AM 7.30	AM 7.20	AM 6.15	AM 10.00	AM 10.15	AM 11.10	AM 2.00	AM 3.15	AM 7.00	AM 7.10	AM 8.00	AM 8.30	AM 9.00	AM 9.45		
	WFT	PM 7.00	PM 11.27	PM 8.27	PM 7.27	PM 6.22	PM 4.32	AM 11.57	AM 11.42	AM 11.32	AM 10.27	AM 7.47	AM 7.42	AM 7.32	AM 9.48	AM 10.03	AM 10.58	AM 1.48	AM 3.03	AM 6.46	AM 6.58	AM 7.48	AM 8.18	AM 8.48	AM 9.33	AM 6.45	
75		PM 7.04	PM 11.28				AM 11.58	AM 11.43				AM 7.43							AM 3.02			AM 8.17	AM 8.47			AM 6.40	
35		PM 7.20	PM 11.40				PM 12.10	AM 11.55				AM 7.55							PM 2.50			PM 8.05	PM 8.35			AM 6.25	
	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY
	20	25	12	12	12	12	25	25	12	12	12	25	12	25	12	12	12	12	25	14	12	12	25	25	12	20	
	18.6	22.8	16.5	16.5	16.5	16.5	22.8	22.8	16.5	16.5	16.5	22.8	16.5	22.8	16.5	16.5	16.5	16.5	22.8	14.1	16.5	16.5	22.8	22.8	16.5	18.6	

Eastward trains are superior to trains of the same class in the opposite direction.

GRAY'S HARBOR LINE—Centralia and Hoquiam.

WESTWARD							EASTWARD						
Second Class			First Class				First Class			Second Class			
Length of passing tracks in Cars	93	51	103	1	101	3	4	2	102	104	52	94	
	C.M.&St.P. Fast Frt.	O.-W. R. & N. Fast Freight	C.M.&St.P. Passenger	O.-W. R. & N. Passenger	C.M.&St.P. Passenger	Grays Harbor Owl Passenger	Grays Harbor Owl Passenger	O.-W. R. & N. Passenger	C.M.&St.P. Passenger	C.M.&St.P. Passenger	O.-W. R. & N. Fast Fr't	C.M.&St.P. Fast Frt.	
	DAILY Ex. Sun.	DAILY Ex. Mon.	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY Ex. Sun.	DAILY Ex. Sun.	
WFYOP	AM 3.20		PM 12.05		AM 3.00	0.0	AM 1.45	AM 10.20			AM 1.10		

BETWEEN BLAKESLEE JUNCTION AND CENTRALIA, TRAINS WILL BE GOVERNED BY NORTHERN PACIFIC TIME TABLE AND RULES.

Station	Distance from Centralia	Westward	Eastward
BLAKESLEE JUNCTION	1.5	3.30	12.10
LINCOLN CREEK	4.6	3.40	12.18
HELSENG JCT.	11.8	AM 4.00	PM 12.35
INDEPENDENCE	13.3	4.15	12.40
BALCH	17.9	4.30	12.52
CEDARVILLE	21.8	4.42	1.00
FORD	26.1	4.55	1.08
SAGINAW	30.5	5.07	1.16
SOUTH ELMA	32.1	5.15	1.20
SOUTH MONTESANO	42.1	5.32	1.40
MELBOURNE	43.5	5.38	1.43
PREACHER'S SLOUGH	46.6	5.48	1.51
NORTH RIVER JUNCTION	49.7	6.02	1.59
COSMOPOLIS	50.9	6.10	2.04
SOUTH ABERDEEN	52.8	6.18	2.10
ABERDEEN	53.6	6.30	2.15

BETWEEN ABERDEEN AND HOQUIAM, TRAINS WILL BE GOVERNED BY NORTHERN PACIFIC TIME TABLE AND RULES.

Station	Distance from Aberdeen	Westward	Eastward
HOQUIAM	57.2	7.00	10.00
		7.30	7.50
		9.50	8.35
		2.30	4.20
		12.45	8.15
		7.15	7.30
		DAILY Ex. Sun.	DAILY Ex. Sun.
		3.00	4.10
		1.48	2.25
		1.47	4.15
		28.3	28.4
		25.4	13.8

Eastward trains are superior to trains of the same class in the opposite direction. All trains must receive proceed signal from bridge tender before passing on to draw of Aberdeen Bridge.

TONO BRANCH—Centralia and Tono.

WESTWARD				EASTWARD			
Second Class		Second Class		Second Class		Second Class	
Length of passing tracks in Cars	57	55	56	58			
	Mixed	Mixed	Mixed	Mixed			
	DAILY Ex. Sun.	DAILY Ex. Sun.	DAILY Ex. Sun.	DAILY Ex. Sun.			
WFOP	PM 2.00	AM 8.45	AM 8.15	AM 1.35			
40	f 2.25	f 9.20	f 7.40	f 1.10			
	PM 2.35	AM 9.30	AM 7.30	AM 1.00			
	DAILY Ex. Sun.	DAILY Ex. Sun.	DAILY Ex. Sun.	DAILY Ex. Sun.			
	35	45	45	35			
	15.0	11.7	11.7	15.0			

Eastward trains are superior to trains of the same class in the opposite direction. No clearance will be issued to westward trains at Tono.

SPECIAL INSTRUCTIONS

- No. 1. Special instructions supercede "Rules and Regulations of the Transportation Department."
- No. 2. A white flag displayed will indicate cars or L. C. L. freight to be moved. Trains doing local work will be governed accordingly.
- No. 3. All trains (except passenger) consisting of more than 15 cars, will cut off engine to take water or to spot way cars.
- No. 4. A buffer car (not to be occupied by passengers) must be used on all passenger trains between locomotives and coaches.
- No. 5. Slow boards and caution signals will be erected one-fourth of a mile from the point which they are intended to cover.
- No. 6. Trainmen must be particular to see that air is cut in on all cars picked up by them and must provide themselves with a supply of Defective Air Brake Cards (Form 4365) and Air Brake Cut-out Cards (Form 4366), and apply to such cars as are found to have defective brakes.
- No. 7. Train registers must not be used as a means of identifying extra trains.
- No. 8. First class trains on Grays Harbor Line will stop on flag for passengers at the following points: Meadows, M. P. 7; Callow, M. P. 22; Fuller's, M. P. 35; Hall's M. P. 37.
- No. 9. Trains must not exceed a speed of 10 miles per hour between Argo and Corgiat Street.
- No. 10. Main Line switches at Black River will be left set for C. & P. S. track. Junction switch at Helsing Jct. will be left set and locked for line to Centralia. Junction switch at Tacoma Junction will be left set for C. M. & St. P. track. O.-W. R. & N. switch west of N. P. crossing at Blakeslee Junction will be left set for N. P. track to Centralia. O.-W. R. & N. switch east of N. P. crossing at Blakeslee Junction will be left set for O.-W. R. & N. track. Double track switch, Aberdeen, located 250 feet east of passenger station, will be left set for eastward trains.
- No. 11. Black River is initial station for all eastward trains. Argo is initial station for C. M. & St. P. eastward trains. First class trains will register by registering ticket (Form 2642) at Black River and Argo. O.-W. R. & N. westward first class trains will procure check of register (Form 2529) from operator at Argo. Lower arms on train order semaphore at Argo will govern movement of trains on O.-W. R. & N. tracks.
- No. 12. Referring to Rule 504, trains will wait five minutes after flagman has departed.
- No. 13. Trains must not exceed a speed of 15 miles per hour between Aberdeen and South Aberdeen. Passenger trains must not exceed a speed of 50 miles per hour and Freight trains must not exceed a speed of 35 miles per hour at any point.
- No. 14. Referring to Rule 221-A, trains will not whistle for train order Signal at Aberdeen or Cosmopolis but will be governed by position of Signal.
- No. 15. O.-W. R. & N. Northern Division trains will be governed as follows:
 Between Black River and Tacoma Junction by C. M. & St. P. Time Table and Rules.
 Between Tidewater and Vancouver, Centralia and Blakeslee Junction and between Aberdeen and Hoquiam, by Northern Pacific Time Table and Rules.
 Between Vancouver and North Portland Junction by S. P. & S. Time Table and Rules.
 Between North Portland Junction and Portland, by Oregon Division Time Table and Rules.

YARDS

- No. 16. All trains, yard engines, and light engines, must proceed under control within defined yard limits at Seattle, Argo, Tacoma Junction and Tidewater, Helsing Junction and Independence, Cosmopolis and Aberdeen. In other yards, which refers to stations shown on time table schedule, the station S whistling posts will be considered the yard limits. Extra trains must approach such stations expecting to find main track occupied without flag protection. Trains occupying main track at such stations must protect against regular trains, and will also be governed in regard to meeting and right of track orders.
 Yard limits extend from Seattle Passenger Station to one-quarter mile west of west switch of Georgetown siding, from Tacoma Junction to Northern Pacific crossing at Tide Water, from C. M. & St. P. switch. Helsing Junction to Independence, and from one-quarter mile east of Cosmopolis to Aberdeen.

LIST OF SURGEONS

NAME	LOCATION	DISTRICT	NAME	LOCATION	DISTRICT
DR. K. A. J. MACKENZIE, Chief Surgeon.	PORTLAND, Corbett Bldg. { Home 1267 Pac. M 267	O.-W. R. & N. Co., Northern Div.	DR. R. H. CAMPBELL.	VADER, WASH.	Winlock-Castle Rock
" MONTGOMERY RUSSELL, Division Surgeon.	SEATTLE, 620 Leary Bldg. } Main 90	O.-W. R. & N. Co., Northern Div.	" C. P. FRYER, District Surgeon.	CASTLE ROCK, Wash.	Winlock-Kelso.
" F. R. UNDERWOOD, Assistant Surgeon.	SEATTLE, 620 Leary Bldg. } Main 90	O.-W. R. & N. Co., Northern Div.	" C. W. BALES, District Surgeon.	KELSO, Wash.	Castle Rock-Kalama.
" WOOD & SAMUELS, Oculist and Aurist.	SEATTLE, Cobb Bldg. Main 2205	O.-W. R. & N. Co., Northern Div.	" LUTHER M. SIMMS, District Surgeon.	KALAMA, Wash.	Kelso-Vancouver.
" WM. P. O'ROURKE, Assistant Surgeon.	SEATTLE, (Georgetown).	Argo.	" J. T. GUERIN, District Surgeon.	VANCOUVER, Wash.	Kalama-Albina.
" F. D. MERRITT, District Surgeon.	AUBURN, Wash.	Seattle-Tacoma.	" CURTIS C. HOLCOMB, District Surgeon	ALBINA, Oregon.	Vancouver-Portland.
" CHAS. JAMES, District Surgeon.	TACOMA, 304 Berlin Bldg.	Auburn-Tenino.	" GEO. AINSLIE, Consulting Oculist and Aurist.	PORTLAND, Ore., Oregonian Bldg.	O.-W. R. & N. Co., Northern Div.
" CHAS. E. ROBSON, District Surgeon.	TENINO, Wash.	Tacoma-Centralia.	" FRANK M. TAYLOR, Assistant Surgeon.	PORTLAND, Ore. { Corbett Tel. Home 1267	O.-W. R. & N. Co., Northern Div.
		Tenino-Winlock.	" D. H. JESSUP, Assistant Surgeon.	PORTLAND, Ore. { Bldg. } Pac. M 267	O.-W. R. & N. Co., Northern Div.
" DAVID LIVINGSTONE, District Surgeon.	CENTRALIA, Wash.	Centralia-So. Elma.	" HANNIBAL BLAIR, District Surgeon.	ELMA, Wash.	} Grays Harbor and North River Branches.
		Centralia-Tono.	" EDMUND A. SIZER, District Surgeon.	COSMOPOLIS, Wash.	
			" I. R. WATKINS, District Surgeon.	ABERDEEN, Wash.	
			" R. F. HUNTER.	HOQUIAM, WASH.	

STANDARD CLOCKS

PORTLAND - - - - -	TELEGRAPH OFFICE
ALBINA - - - - -	DISPATCHER'S OFFICE
CENTRALIA - - - - -	DISPATCHER'S OFFICE
SEATTLE - - - - -	TELEGRAPH OFFICE
COSMOPOLIS - - - - -	TELEGRAPH OFFICE
ABERDEEN - - - - -	TELEGRAPH OFFICE
HOQUIAM - - - - -	TELEGRAPH OFFICE

LICENSED WATCH INSPECTORS

WEBB C. BALL, General Time Inspector, - - - - -	SEATTLE.
HOUGHTON & HUNTER, Local Watch Inspectors - - - - -	SEATTLE.
ANDREWS JEWELRY CO. " " " - - - - -	TACOMA.
BEN SALIK, " " " - - - - -	CENTRALIA.
H. H. HEIDE, " " " - - - - -	ALBINA.
F. W. STRAUB, " " " - - - - -	HOQUIAM.

J. D. MATHESON, Superintendent, Seattle, Wash.

D. J. COMAN, Assistant Superintendent - - - - -	Seattle, Wash.	D. A. SAUNDERS, Train Dispatcher - - - - -	Centralia, Wash.
M. B. BAYER, Assistant Superintendent - - - - -	Tacoma, Wash.	W. A. STILES, Train Dispatcher - - - - -	Centralia, Wash.
H. L. BUCHANAN, Assistant Superintendent - - - - -	Centralia, Wash.	G. B. WILLIAMS, Train Dispatcher - - - - -	Centralia, Wash.

RATING OF LOCOMOTIVES IN TONS OF 2000 POUNDS

SEATTLE AND PORTLAND

CLASSIFICATION	Engine Numbers	East								West					
		Portland to Kalama	Kalama to Olegua	Olegua to Winlock	Winlock to Napavine	Centralia to Rainier	Rainier to So. Tacoma	Tacoma to Seattle	Seattle to Tacoma	Tacoma to So. Tacoma	So. Tacoma to Centralia	Centralia to Napavine	Napavine to Portland		
T-63 $\frac{20}{24}$ 113.....	136- 146.....	1580	1200	990	720	790	1120	1280	1280	315	900	655	1580		
	170- 207.....	1900	1440	1190	870	960	1310	1540	1540	370	1080	800	1900		
T-69 $\frac{22}{28}$ 159.....	250- 305.....	2200	1680	1380	1000	1110	1560	1790	1790	440	1250	900	2200		
C-57 $\frac{15\frac{1}{2} \times 26}{30}$ 176.....	330- 349.....	2335	1790	1475	1075	1190	1680	1900	1900	500	1335	985	2335		
C-57 $\frac{22}{30}$ 187.....	350- 400.....	2940	2250	1860	1360	1490	2120	2380	2380	560	1680	1220	2940		
Mik-57 $\frac{23\frac{3}{4}}{30}$ 208.....	500- 551.....	3100	2340	1930	1450	1550	2200	2490	2490	580	1700	1250	3100		
P-77 $\frac{25}{28}$ 170.....	208-209.....	2500	1900	1550	1160	1280	1800	2000	2000	500	1420	1050	2500		
S-55 $\frac{19}{26}$ 130.....	39-42.....									380					

GRAYS HARBOR LINE

CLASSIFICATION	Engine Numbers	East		West	
		Hoquiam to So. Aberdeen	So. Aberdeen to Centralia	Centralia to So. Aberdeen	So. Aberdeen to Hoquiam
E-57 $\frac{17}{24}$ 51.....	57-64.....	390	780	1000	390
E-64 $\frac{18}{26}$ 68.....	80-87.....	470	965	1220	470
M-57 $\frac{18}{24}$ 91.....	103-111.....				
T-55 $\frac{18}{24}$ 71.....	112-119.....				
T-63 $\frac{20}{24}$ 113.....	136-147.....	624	1260	1620	624
T-57 $\frac{20}{26}$ 125.....	174-178.....	710	1425	1835	710
C-57 $\frac{15\frac{1}{2} \times 26}{30}$ 176.....	330-338.....	1020	2041	2625	1020

TONO BRANCH

CLASSIFICATION	Engine Numbers	East	West
		Centralia to Tono	Tono to Centralia
E-57 $\frac{17}{24}$ 51.....	57-64.....	855	Maximum
E-64 $\frac{18}{26}$ 68.....	80-87.....	1034	Maximum
M-57 $\frac{18}{24}$ 91.....	103-111.....		
T-55 $\frac{18}{24}$ 71.....	112-119.....		

These ratings include total weight of train, exclusive of engine and tender, which the different classes of locomotives will haul in each direction between the stations shown.

Between stations for which no rating is shown, maximum will apply.

- CLASS**
- "E," Eight Wheelers
 - "A," Atlantic Type
 - "P," Pacific Type
 - "T," Ten Wheeler
 - "M," Moguls
 - "Mik," Mikado
 - "C," Consolidation Engines
 - "TW," Twelve Wheelers; S, Switch.

Example.—Consolidation engine having 57 inch drivers, cylinders 22-inch diameter and 30-inch stroke, and weighing 187,000 pounds on drivers:

C-57 $\frac{22}{30}$ 187



PACIFIC OCEAN

MAP OF THE OREGON-WASHINGTON R.R. & NAV. CO. LINES IN OREGON, WASHINGTON & IDAHO.

SCALE OF MILES.

