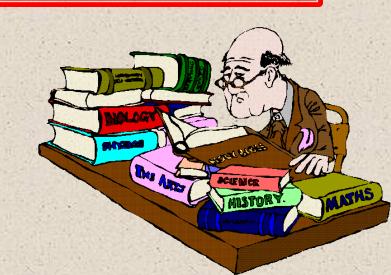




YOU THOUGHT PROTOTYPE RESEARCH MIGHT BE FUN?

By Paul Hobbs



SCOPE OF CLINIC

You have a favorite railroad

- o There are numerous sources of information
- o Some of it is in published materials
- o Some of it is in reports to various agencies
- Some of it is in corporate records
- Some of it is along the original right-of-way
- We will discuss these resources and their potential value to your research project.

ERAS IN RESEARCH

- o If you are researching TODAY, take a camera and look at the operating railroad.
- Recent history is well recorded in Annuals and videos.
- o Earlier times in slides, black and white images plus archived records and published reports.









1972 ANNUA

- o Official Railway Equipment Registers
- o Official Guide of the Railways
- o Interstate Commerce Commission Reports
- Corporate Annual Reports
- Public timetables and brochures
- Newspapers

Official Railway Equipment Register

Published quarterly by United Business Media

Published since 1885 you can find the equipment in service at selected date(s).

Corporate officers and basic details

Roster of Freight Cars

Often contained passenger and outfit rosters until the 1930s

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Official Guide of the Railways

Published monthly since 1868 by National Railway Publication Company, now quarterly by United Business Media

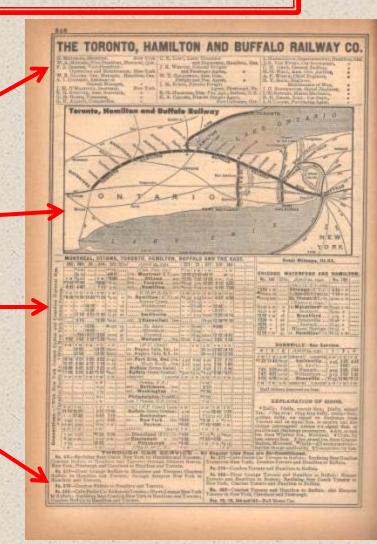
Corporate officers and basic details

Map

Passenger Schedules

Train consists, including sleeping cars

Includes maps for many railroads Index of railway stations noting railroads serving.



Reports to Agencies

- o Interstate Commerce Commission Valuation Reports
- o Interstate Commerce Commission Decisions
- o Interstate Commerce Commission Accident Reports
- o Reports to Association of American Railroads

Interstate Commerce Commission Reports

Established in 1887, functions taken over by Surface Transportation Board in 1995.

Periodically published decisions on various matters brought before the ICC.

Research Hint: Get used to Legalese!



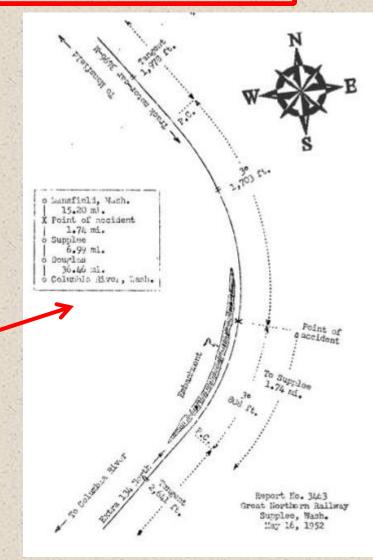


Interstate Commerce Commission Reports Accident Reports

Major accidents required an independent investigation by the ICC.

The resulting report usually includes a map of the accident site, details of the train(s) involved and determine the cause if possible.

This map is for Report 3463, an accident on May 16, 1952 at Supplee, Washington between a freight train and a track motor car, resulting in the death of an employee.



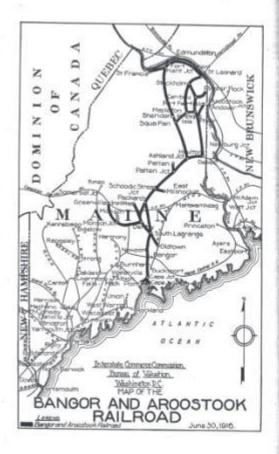
Interstate Commerce Commission Reports

Valuation Reports

From 1916 the ICC required railroads to provide a valuation. In time all were submitted, accepted and published in Valuation Reports through the early 1930s.

The reports inventoried the railroad at a point in time.

This example for Bangor and Aroostook is 18 pages.



BANGOE & ABOOSTOOK B. R. CO.

153

VALUATION DOCKET No. 150
BANGOR AND ABOOSTOOK RAILROAD COMPANY
ET AL.

Submitted July 7, 1922. Decided Petrusry 2, 1925

L Protest of the Bangor and Arcoctock Ballrond Company against the tents tire valuation of its property considered and determined.

Y Final value for rate-making purposes of the preperty of the Bangor and Aroundon's Ealirend Company owned and used for common-carrier purposes of June 30, 1916, found to be \$22,030,000, and used but so owned, \$3,850,006. Final value of the property of the Van Buren Birlage Company, aperated by the carrier a agent, found to be \$75,500.

Henry J. Hart for Banger and Aroostook Railroad Company.

Donald R. Richberg for National Conference on Valuation of
American Railrouds.

REPORT OF THE COMMISSION

BY THE COMMISSION:

A tentative valuation as of June 30, 1916, of the property of the Banger and Aroostook Railroad Company, hereinafter called the carrier, was completed and notice thereof was served upon the carrier and other interested parties on August 6, 1921. The carrier filed a protent within the statutory period. A hearing has been had un the issues presented by the protest, briefs have been filed, and arguments heard.

On date of valuation the carrier operated 630.924 miles of railroad in the United States, all of which was in the State of Maine, the continuous main-line length from Mack's Point at tidesates to Van Buren, near the Canadian boundary, being 930.303 miles. Of the operated road, the main line owned by the carrier stiended from South Lagrange to Van Buren, a distance of 213.827 miles, and from Canadian Junction to Van Buren Bridge, 0.208 mile. In addition, the carrier owned branch lines aggregating 363.532 miles, a total of \$72.307 miles of line.

The main line used but not owned, leased from the Northern Maine Seaport Railroad Company, extended from Mack's Point to South Lagrange, a distance of 55,506 miles, and from Cape Jellison

With reject also includes the valuation of the properties of the Northern Maine Sect Matriced Company and, in part, of the Van Buren Heidge Company, 9 41022 - 352 - 102 - 12 - 12

Interstate Commerce Commission Reports Valuation Reports

From 1916 the ICC required railroads to provide a valuation. In time all were submitted, accepted and published in Valuation Reports through the early 1930s.

The reports inventoried the railroad at a point in time.

This example for Spokane, Portland & Seattle Railway et al is 88 pages.

VALUATION REPORTS INTERSTATE COMMERCE COMMISSION

Valuation Docket No. 896

SPOKANE, PORTLAND AND SEATTLE RAILWAY COMPANY ET AL.¹

Submitted October 27, 1927. Decided July 8, 1932

Final value for rate-making purposes of the property of the Spokane, Portland and Seattle Railway Company, owned and used for common-carrier purposes as of June 30, 1916, found to be \$55,300,000, of the property owned but not used \$113,608, and of that used but not owned \$1,483,033. Final value of the property of the Oregon Trunk Railway, owned and used, found to be \$14,824,086 as of June 30, 1916.

. Charles A. Hart for Spokane, Portland and Seattle Railway Company and Oregon Trunk Railway.

Paul E. Lesh and Arthur G. Nichols, jr., for Western Union Telegraph Company.

REPORT OF THE COMMISSION

Division 1, Commissioners Meyer, Aitchison, and Lewis By Division 1:

Tentative valuations as of June 30, 1916, of the properties of the Spokane, Portland and Seattle Railway Company, hereinafter called the carrier, and of the Oregon Trunk Railway, hereinafter called the Coregon Trunk, were completed and notices thereof sent to these carriers and other interested parties. The carriers filed protests within the respective statutory periods, and the Western Union Telegraph Company intervened. Hearings have been had on the issues presented by the protests, briefs submitted, and argument heard.

The carrier was incorporated August 23, 1905. It owns and uses 493.95 miles of road in Washington and Oregon and uses but does not own 35.29 miles in Oregon. It controls the Oregon Trunk, which was incorporated November 3, 1909, through ownership of all outstanding capital stock. The Oregon Trunk connects with the carrier at Fallbridge, Wash., and extends to Bend, Oreg., a distance of 156.88 miles. Further details as to the locations and descriptions of the above properties are found in the order and appendixes to this report.

The carriers protest generally against the rules, methods, and principles employed in the preparation of the tentative valuations and also

¹ This report also embraces Valuation Docket No. 240, Oregon Trunk Railway, 41 Val. Rep.

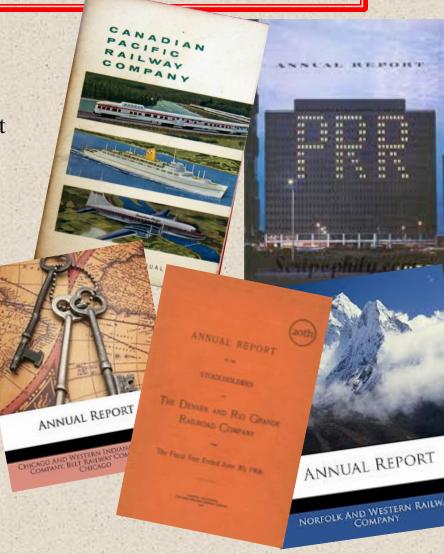
Corporate Annual Reports

Each year railroads prepare and provide to stockholders and authorities reports of the past 12-months business.

See Kevin Feeney's clinics most years about local large railroads through their annual reports.

Reports for privately held and wholly owned subsidiaries are hard to find.

Research Hint: Follow the Money!



Newspaper Archives

Local libraries usually hold microfilm archives of newspapers of the area.

I have used the facilities at Multnomah County Library, Portland, Oregon, Clark County Library, Vancouver, Washington and Spokane Public Library, Spokane, Washington.

I found:

- Reports on the opening up of the railroad
- News of disruptions by snow and water
- News of important events and accidents
- Advertisements by the railroad

Increasingly these archives are appearing online. Some libraries have computer driven readers.





Corporate Records

- o President's Subject Files
- Authority for Expenditure (AFE)
- o Engineering Department
- Locomotive and Car Departments
- o Traffic
- Operating departments



S920915p Paul Hobbs image GNRHS Excursion at Everett, Washington, July 1992

Let us follow several documents showing the history of this passenger car.

Item E is two Sleeper-Lounge cars at \$97,000.00 per each, the same price as the NP sleeper in Item B.

Only the GN sleeper in Item A and diner in Item D are more expensive.

The AFE is ordering 13 streamlined passenger cars to 8 different floor plans from Pullman.

5 x coaches for local service

1 x baggage-dormitory

1 x diner-lounge

2 x sleeper-lounge

1 x coach, 1 x sleeper for through service on Empire Builder

1 x coach, 1 x sleeper

for through service on North Coast Limited

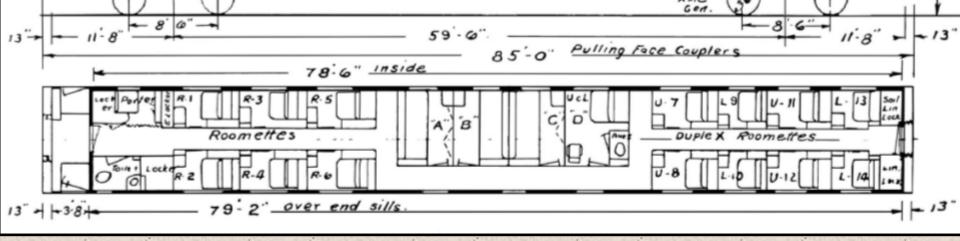
Motive Power Department files, Pacific Northwest Chapter, NRHS Collection

ACTIONITI FOR BATEMOTIONS	,
Authority for an expenditure of \$1,167,212.05 is requested for the purpose of	ddition
Change) to the property of S. P. A. S. (Manne of Own	
Change) O tale property of (Name of Own	er)
that is now operated by Sa Pa R Sa RYa GOs. (Name of Operating Company)	
that is now operated by S. P. A. S. Ry. Co. (Name of Operating Company) Portland, Ors., Sept. 16, 1946 Requested by E. R. Shownlter, Superin (Name)	tendent (Title)
Location of proposed project: State	
Statics or M. P	
Description of Project: Purchase the following light weight passenger equip	nent.
A. 1 . 48-seat day-night cosch (G.N. type) Sketch 7496 G	95,000.
1 - Sleeper (GN type) 8 duplex roomettes, 4 rooms, 4 sections.	105,000.
Sketch 4107 J	80,000.
B. 1 56-seat day-night coach (N.P. type) Shetch F-426	00,0001
8 duplex roomettes Plem F 446 A	97,000.
C. 1 - Heed end beggage dormitory ear (Dormitory section sir	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
conditioned) Plan F 449	70,000.
D. 1 - Dinar-parlor car, per N.P. plan F 451 A Revised. 4 tables	
each side diming section, secting 32, and 10 pivoted	
parlor car sests	109,000.
E. 2 . Sleeper-lounge cors - 6 roomettes, 3 rooms, buffet & lounge	
Reasons and necessity for the extension, improvement, or other change, section secting 25,	
Sketch F 450 A nevised (for oper, bet, Fortised & Spotses	194,000.
F. 5 - Common - 56 seets in body of cer, 3 seets in smoking room	410,000.
Sketch F 411 H G 82,000	1,160,000.
Two of these coeches available for new train Purtlend- Spokune service.	1,150,000.
Two coaches for service Trains 3 and 4 or other service,	
and one coach for extra corvice.	

REASON: Purchase of above light weight passenger equipment is to provide now fast trein to connect with fast passenger train service to be insugurated by Great Northern

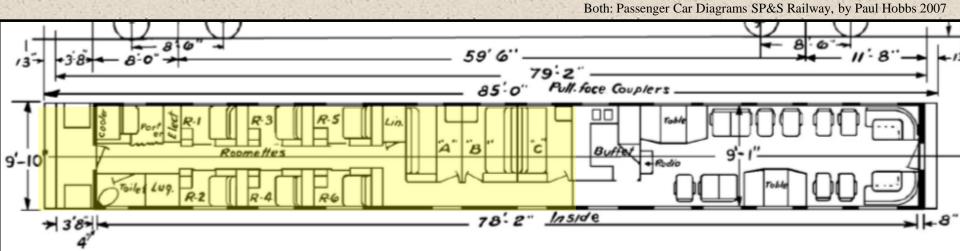
SUMMARY OF ESTIMATE		
Setimate gross cost of project	8	1167212.0
Amount chargeable to operating expenses for property retired		
Value of Salvage recovered	-	
Cost of property retired		
Incidental costs chargeable to operating expenses.		
To other accounts		
Net charge to property investment account.	\$	13,67212.0
Total Cost to be horse by S. P. & S. Ry. Co.		

Expenditure and change approved



Pullman Plan 4163 was unique to the two SP&S 6-3 [6 Roomettes-3 Double Bedrooms] Buffet-Lounge cars.

Pullman did not start the design from scratch – taking an existing NP sleeper floor-plan (above – and item B-2 in the order), changing only the zone to the right of the third bedroom.



The Mount Hood and Mount St.

Helens were delivered in February
1950 for local service Portland –
Spokane on SP&S trains 1 and 2.

The car at Spokane was open for occupancy from 9:30 p.m., the train departing just after midnight, with through cars from Chicago off Great Northern's Empire Builder.



Sleeping accommodations were not made down Eastbound in daylight.

The cars were equipped with full buffet facilities. Unused, the equipment was quickly sold back to Pullman.

On March 29, 1958 service was changed to turn one car at Spokane, for a round-trip each day. Just one car was needed, and that was the Mount Hood.

The Mount St. Helens was released from the Pullman contract, now serving as a dining crew dormitory when extra sections were run to connect with late Westbound trains, and with the business car on occasion.

Both cars are preserved today.

Inventories from documents found in Commissary Department records

Inventory at car delivery – assuming breakfast service:
6 each Bowls, Oatmeal; Platters, Med;
12 each Chips, Butter; Creamers, Ind.;
Cups, Coffee; Saucers, Coffee; Plates, B&B;
Plates, Tea; Forks, Dessert;
3 each Pots, Tea, Ind.; Pots, Hot Water;
2 each Bowls, Sugar, Sm.; Caster Set,
8 each Pots, Coffee, Silver



An inventory check on January 2, 1969 showed the Mount Hood carried:

Glassware: 22 Ale, Highball; 21B&S; 4 Brandy; 3 Cocktail, Stem; 11 Cocktail O.F.; 2 Cordial; 11 Highball 5oz; 2 Mixing; 1 Sherry; 6 Whiskey; 57 Stirrers.

Silverware: 1 Bowls, Sugar, Small; 1 Shaker, Lemonade; 2 Shaker Salt and Pepper; 2 Spoons, Iced Tea; 1 Strainer, Bar; 1 Tongs, Ice; 2 Trays, Cash 12"; 2 Trays, Cash 14"; 1 Wine Cooler.

Pantry: 1 Board, Lemon; 1 Brushes, Bottle; 1 Brushes, Silver; 1 Extract, Juice, Kg. Arnold; 1 Humidor, Aluminum; 2 Knife Cap; 1 Knife, Orange; 2 Opener, Cap; 1 Pails, Garbage, Qt; 1 Picks, Ice; 1 Pitcher, Bar, Alum.; 1 Scoops, Ice; 1 Shavers, Ice; 1 Squeezer, Lime; 1 Steels, 1 Strainers, Manel?; 2 Tray, Bolta. Cash; 1 Tray, Bolta. Round; 4 Tray, Bolta. 13 ½ x 18; 1 Tray, Cigarettes

Car equipment: 1 Berth Key; 4 Smoking Stands; 1 Knife Rack.

Consumables included: Tomato Juice, Maraschino Cherries, Lemons, Oranges, Cocktail Olives, Black Pepper, Table Salt, Worcester Sauce, Straws, Granulated Sugar, Peanuts, Toothpicks, Cocktail Napkins, fifteen different cocktails, seven different beverages, two brands of cigars, eight brands of cigarette, regular and bridge packs of cards.

ANE-MILES STANDISH DO

P. 4(S. Ry. Form 1207B 3M-6-64

OREGON ELECTRIC MILWAY COMPANY

E 53-65

AUTHORITY FOR EXPENDITURE

Authority for an expenditure of \$ 1,025,000 is requested for the purpose of retirement	,
to the property of U. E. Ny. Co.	(Character of
that is now operated by Gregon Electric Ballway Company	
Portland, Oregon, Chate Character 10, 1965 Requested by Character Company Traffic Manager (Name)	(Title)
Location of proposed project: State Valuation Section Sential Prench	(2106)
Station or M. P. Sweet Home Eleventh Sub-Division	

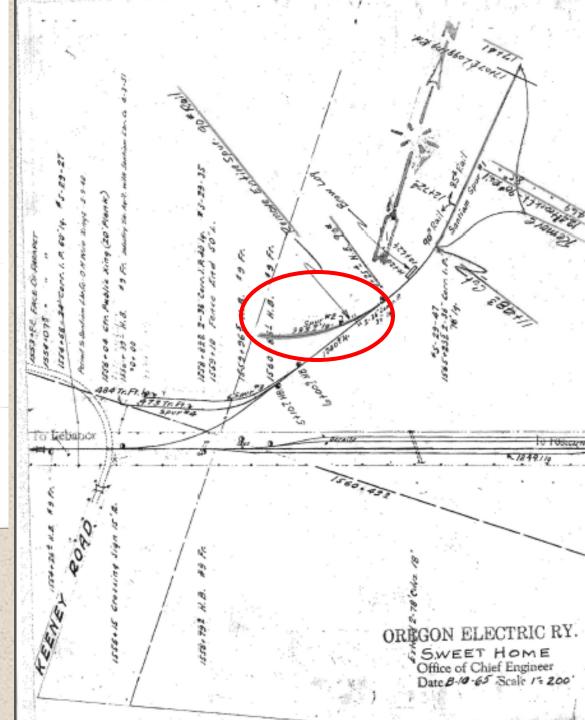
Description of Project: Remove and ratire 592.7 track feet of plywood spur number one, and all of spur number two, 395.7 track feet, serving Santiam Lumber Company.

Reasons and secessity for the extension, improvement, or other change. Santiam Lumber Company have requested the removal of 592.7 tracek feet of spur number one, as they plan to fill the log pend and cold deek logs in this area and across spur. Spur track number two is no longer required for their mill operation and should be removed to avoid future maintenance expenses and release material for salvage.

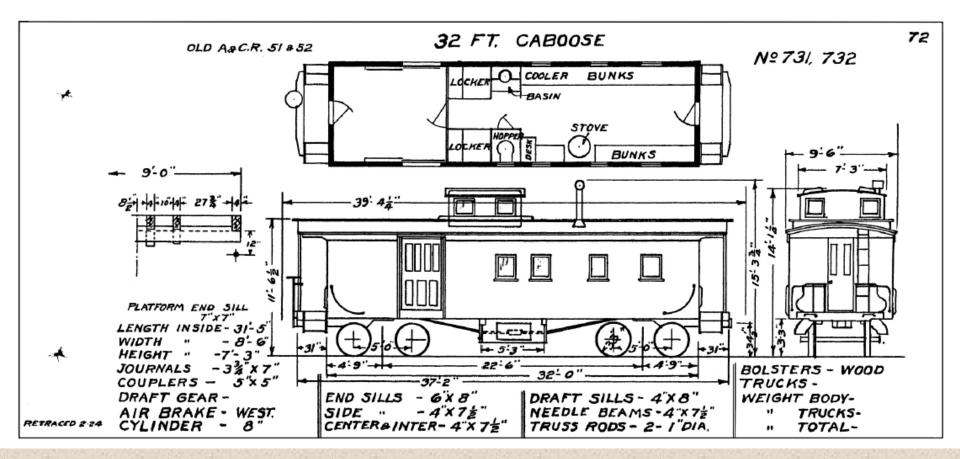
SUMMARY OF ESTIMATE	
Estimate gross cost of project.	s1,083.00
Amount chargeable to operating expenses for property retired. 3 598 .12	
Value of Salvage recovered. 2,597 of	00
Cost of property retired 8 3,1954	2
Incidental costs chargeable to operating expenses	ю
To other accounts	7,550°75
credit	4,220,12 3,137,12
Total state of Company) (Yame of Company)	
(Name of Company)	
Or participated in by	
Or participated in by	
Approved Approved	Superintendent
H. F. Moy N. S. Westergard	

This AFE in 1965 retired a spur at Sweet Home, Oregon, and included a map of the location.

Narrative explains purpose. May include correspondence.



Railroad Equipment Diagrams

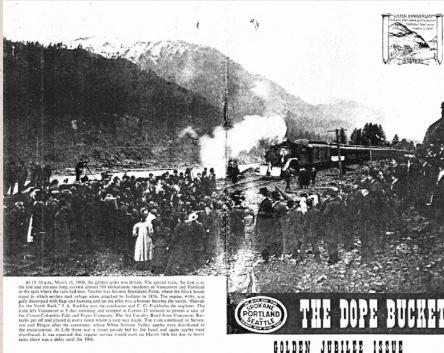


Equipment Diagrams provide dimensions and information about appliances.

Often includes former owner and builder information.

Company Employee Magazine





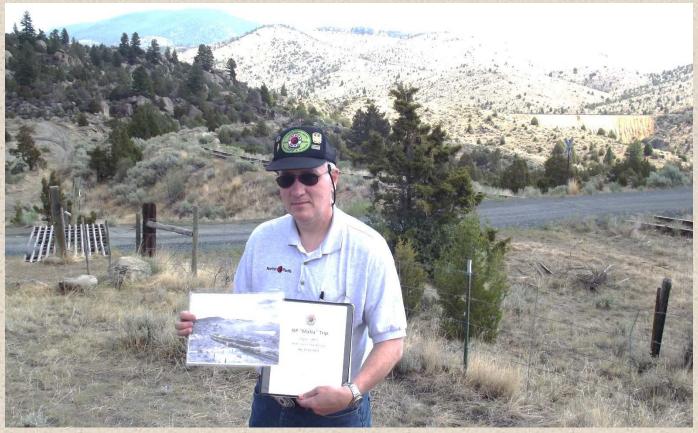


The SP&S Company newsletter "the Dope Bucket" was started in 1938 by the Safety Department. Early editions were strictly safety information.

In time the magazine evolved into a folksy commentary, sometimes celebrating significant events. Employee names are a genealogical resource.

- o In 2012 I was invited to join an NPRHA "Mafia" tour before the convention at Butte, Montana.
- We visited a number of nearby NP track sites, some abandoned, some still active.





DSCF0923 Jul. 15,2012 Paul Hobbs

Bill Kuebler holds a photo of the North Coast Limited on the now abandoned track behind.

http://trainweb.org/DOMEmain/picCBQ557c.jpg



Missoula, Montana, on June 10, 1962, incurring the only fatality, a 3-year old girl, in the train's 71-year history.

The North Coast Limited

DSCF1030 and 1034 Jul. 16, 2012 Paul Hobbs

Bill Kuebler invited the girl's sister from Seattle, and current family, to visit and see the site of the wreck today. We are at the spot where the dome-coach stopped. The lady and her parents were aboard that car - 50 years ago.

- With friends Greg and Suzy Madsen, we researched the Spokane & British Columbia Railway, which operated between Republic, WA, and Grand Forks, BC until 1919.
- o This involved comparing historic USGS, Sanborn and modern Google maps for locations.
- o In some areas everything is gone.
- o Some bridges still exist (as highway or trail).
- o Right of way is visible in places.
- o Scenery and some town structures are the same!

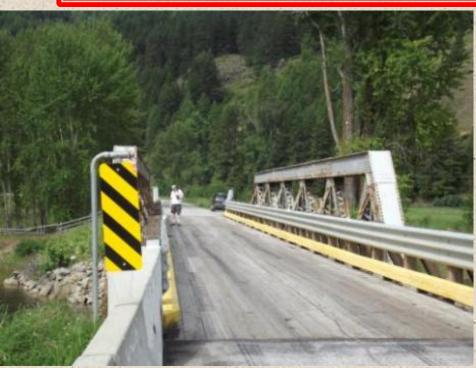


DSCF5350 Paul Hobbs photo June 2014

Part of Great Northern Railway Washington State map of 1910. Spokane & British Columbia route shown parallel in light line.

The Grand Forks Railroad uses this former CP Rail SW-8 to switch industries on former S&BC, Great Northern and Canadian Pacific Railway track within Grand Forks, British Columbia.





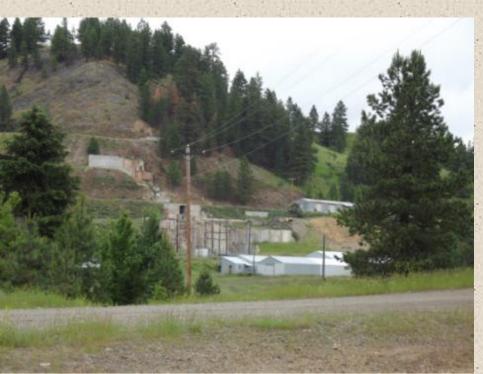
DSCF5323 Paul Hobbs photo June 2014

This Spokane & British Columbia Railway bridge is today part of a rural road. Greg is inspecting elements of its construction.

Former railroad grade becomes smooth and broad curved county road.

DSCF5315 Paul Hobbs photo June 2014





DSCF5261 Paul Hobbs photo June 2014

Former mine site, with visible railroad grade.



DSCF5275 Paul Hobbs photo June 2014

Seemingly abandoned mine sites are still owned, posted and dangerous.



DSCF5265 Paul Hobbs photo June 2014

Gathering samples of rock and ballast for authentic appearance on the model to be built.



DSCF5215 Paul Hobbs photo June 2014

This industry in Spokane, Washington was once served by rail – still visible in the street.





DSCF5301 Paul Hobbs photo June 2014

DSCF5299 Paul Hobbs photo June 2014

Downtown Republic is little changed in many years – excepting the modern automobiles!

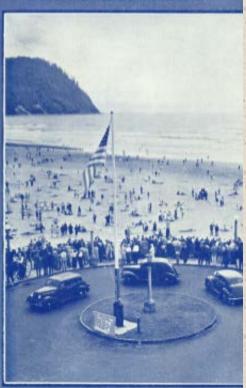
The Northern Inn is a good place to stay.

Railroad Brochures

Columbia RIVER CASCADE MOUNTAINS PACIFIC OCEAN







Railroads promoted travel to their destinations with many colorful brochures.

Some are designed for following the route of the train.



Spokane, Portland & Seattle 1939 Brochure Paul Hobbs Collection

Northern Pacific 2000 Miles of Scenic Beauty - 1936 Brochure Paul Hobbs Collection

Railroad Brochures



LORD STAMP OF SHORTLANDS, G.C.B., G.B.E.

You responded magnificently and the train was crowded wherever it stopped, from morn till Tour respondent magninestry and the train was trowded wherever it stopped, irrition merit thin might. Millions went miles just to watch her go by. New as to-morrow, it yet mide thousands feel a touch with the Old Country. The Royal Scot made many friends for Great Britain, for those Officers of my Company who were associated with the venture, and for myself.

The Cornastion Soct, which comes to you set he latest product of the science of British Railroylling.

The Coronation Scot, which comes to you as the latest product or the science or portish nairroaping, comes then as a cementer of these friendships, it will make a tour of the United States, yid be our exhibit at the World's Fair in New York, where we of the London Midland & Scottish Railway feel that we are providing a representative worthy of this important occasion. We believe, too, that the Coronation Scot provides visible evidence of the advance that has been made in Great Britain in railroad transportation since the Royal Scot visited you six years ago.

May we also hope that the visit of the Coronation Scot can have an even wider significance than

mere commercial objects. There is nobody in Great Britain who does not admire the courage and foreight shown in organizing the New York World's fair at a time when trade has been receding and when the world outlook is not wholly peaceful us us as in 1933, the visit of the Royal Scot preceded a revival in business and industrial activity on both sides of the Atlantic, so may we hope the World's fair and this new tour of an L MS train will coincide with a new period of peace and prosperity for both our nations





UNITED STATES OF AMERICA

Prior to Exhibition at the New York World's Fair 1939



Some brochures promoted now historic events.

The new LMS

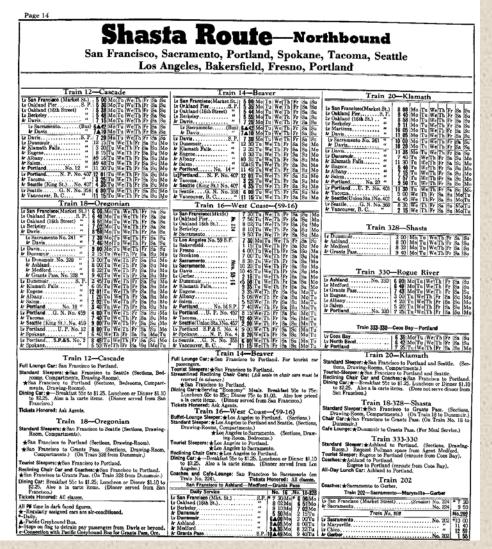
Coronation Scot

(actually Duchess of **Hamilton**) **4-6-2** and train visited and toured the United States in 1939, then exhibited at the New York World's Fair.

AND SCOTTISH RAILWAY

http://www.brightontoymuseum.co.uk/w/images/1939_pre_New_York_ Worlds_Fair_Coronation_Scot_brochure_blue.jpg

Railroad Passenger Timetables



Railroad timetables included schedules and equipment information.



Union Pacific Timetable of June 10, 1939
Paul Hobbs Collection

Railroad Employee Timetables



Spokane, Portland & Seattle Railway Employee Time Table No. 80 Sunday, October 17, 1937 Paul Hobbs Collection

Shows scheduled trains, mileages, station facilities.

Park Rolls		Car		THIRD	SECOND	CLASS	FIRST	FIRST CLASS					PIRST	CTARE	SECOND CLASS		THIRD	
	-			301	275	273	3		1,	TIME TABLE No. 80		E-	FIRST CLASS				CLASS	
	Numb	102	119		Seri.	Time		-	1	133	1	OCTOBER 17, 1937	riband	4	2	274	276	302
1000	4	Biding	Otto	Freight	Freight	Enight	Ponsiger	Panenger	age.		arm a management	100	Passenger	Foreign	Projekt.	Freight	Local Freight	
MERR	2	16	56	Tu. Th. Sut.	Daily	Duty	Daily	Linky Daily		D.	STATIONS		Arrive Dully	Arrise Daily	Arrive Delly	Arrive Dully	Antive Mo., We.,J	
KL,	286		Yard	6.00#	2.30M	1-00%	3.10%	4.204	pts.	(pa	WIERRAM BC	106.5	11 354	*12 OB#	10.15*	4.150	2.00	
Y .				6.03	2.32	1.03	3.12		224.3	1	CELILO WYS SWITCH	jm.0	11.29		10.13	4.12	1.58	
	101	80		6.07	2-38	1.07	3 15	4.26	278.3	18	AVERY	200.8	111.25	12.01#	10.09	4.05	1.52	
111	. 19	n	7/ 2	6-16	2.50	1.18	1 3 22	4.32	260:1	1	SPEARFIER	95.0	111-18	11-55	10.00	3.55	1-42	
	144	.00	20	6.25	3.04	1.30	1 3 30	4.40	385.7	P.	NORTHDALLES	94.0	11.12	11.50	9.51	3.43	1.30	
ano	AR.	-	105	7.05	3.45	1-50	3.45	4.59	204.1	DW		85.1	10.59	-11-38	9.34	3.20	1.00	
	24	80	110	8-30	4.17	2.16	4-02	1.5-14	380.7	Det	SINGEN-WHITE SALMON . BA	35.1	10.44	-11.24	9.14	2.54	12.30	
	22		402	8.45	4.26	2.24	1.4.07		395.0	e.	UNDERWOOD	70.7	10.40	-	9.08	2.46	11-15	
	23	30	1	8.51	4.34	2.28	1 4.10	5.21	200.0	Or.	воор	31.6	110-37	11-17	9-04	2.42	10.51	
W	90	NI.	22	9.15	4.52	2.40	1 4.18	5.28	310.1	1	COOKS	65.6	110.29	11-10	B-54	2.28	10.21	
	28	-39	111	9.50	5-20	3-02	1 4:32	5.41	321.6	œ.	CARBON	87.7	110-16	11.00	0.38	2.07	9.4	
	34	79	47	10.10	5-35	3-11	4.39	5-47	318.2	D.	STEVENSON NS	51.5	10 10	10.55	8-30	1.56	9.32	
	п	11	m	11.00	5.53	3-23	- 4-47	5-54	310.3	DH	HORTH BONNEYILLS . N	43.6	10.02	10.48	8-20	1.43	9.15	
W	41	88	17	11:25	6.15	3.38	4.57	6:03	310.7	P.	EKANANIA	47.5	9.52	10-40	8-08	1.27	8-55	
	28	26	97	11-45	6-32	3.51	1 5 06	6.11	201.2	P.	PRINDLE	37.6	1 9 44	10-33	7.58	1-13	8-40	
	24						5.10		361.1		CAPE HORN (No Soling)	31.4	9.40		-	-	-	
	10	90		12-10%	6-52	4.06	5 16	6-19	342.5	P	MT. PLEASANT	32.2	9.35	10.26	7.47	12.58	8.25	
W	28	301	.30	12.32	7.07	4.17	5.24	6-27	DILA	P	WARROTGAL	27.6	9.28	10-20	7.37	12.46	8-10	
	28.	(0)	280	1.20	7 30	4.25	5.30	6-36	ms.s	DH	CAMAR MA	21.4	9.22	10-15	7.30	12.38	8-00	
	29	124	+	1.35	7.52	4.37	5.39	6.45	2601.2	P.	PIRMER	19.2	9.14	10.08	7-18	12.24	7.24	
	18	19		1.47	8.12	4.49	5.48	6.54	745 A	P	Miloughen	14.5	9.06	10.02	7.09	12-11	7.13	
ORL	10		Tard	3.00%	8-30%	5 00M	6-00%	7 05W	1607.8	DN	VANCOUVES MX	10.0	9.00#	9.56%	7.00%	12-014	7.05	
16		38	TWE	EN PORTI	AND AND	VANCO	UVER TRA	INS WIL	L BE	de	VERNED BY TERMINAL	S DI	VISION T	IME TABL	E AND R	ULES		
KL	4		Yard	0-19	(11)	10.0	1-2-0		_	_	PORTLAND, Union Deput . VC	0.0	8.304	9.30%		1		
KL.			Yard		10.00%	6.00%			20v.)	DN	PORTLAND, Hoytforest Dayest GO	8.0	0.00	7 30	6-15m	9.00%		
				Tu. Th. But.	Dully	Active Dully	Dally.	Apriles Unity					Louve Dully	Leave Daily	Leave Daily	Laure Duly	Leave Ma.,Wm.,	
			9	12.6	10.0	20.0	3 At 33.9	2.43			Time Over Dietelet Average Speed For Heur		37.33 37.3	2.12	3.18 20.4	#.14 22.7	8.80 0.8	

No. 2 will stop at any station to pick up revenue passengers for Spokane or east of Spokane when advance arrangements are made for it with Agents.

Portland and Vancouver.

No. 2 will stop at Stevenson to discharge revenue passengers from

Nor 3 and 4 will stop on flag at Elloworth, M. P. 16.5 and Fort Rains

Eastward trains are superior to westward trains of the same class.

No. 1 will stop at any station to discharge revenue passengers from

No. I will stop on flag at Stevenson for revenue passengers for Vaneouver

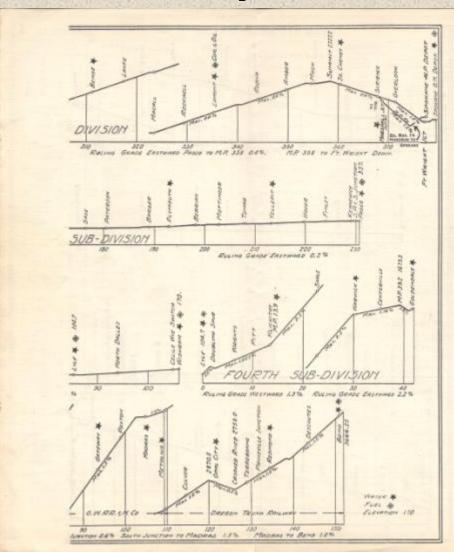
Registering stations: Wishram, Vancouver, Portland.

Spokane or east of Spokane.

Railroad Employee Timetables

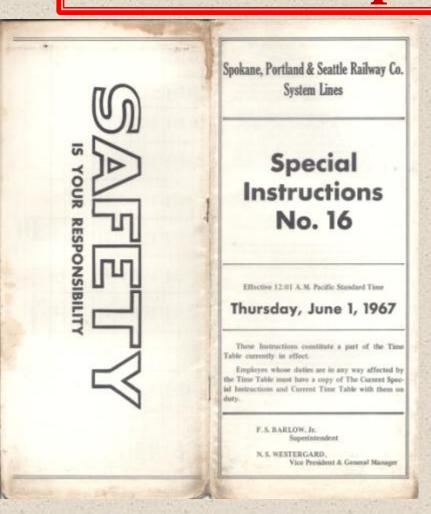


Often include track profile.



Spokane, Portland & Seattle Railway Employee Time Table No. 80 Sunday, October 17, 1937 Paul Hobbs Collection

Railroad Special Instructions



Special Instructions detail track facilities along the line and include tables like:

Stock Pens

26. Location, Capacity and Facility of Stockwards-

						Bull R
	Location	No. of Free	Capacit in: Can			Roy a Zell B N.L. N
	Wisheam	6	19		W.L. 1	
	Roosevil	2	4	Water		Robs. Crates
	Plyroceth	2	4	Water		Harold Bob's
	Pance	27	38	Water		L.H. M
	Controlle	1	2	Water nour		Steven F.M. F
	South Junction.	4	9	Water		Seth L
	Gateway	4	11	Water		W.E. W Kollan
	Redmond	4	7	Water & Ford Racks		
	Beed	7 cattle 2 steep	14	Water & Feed Hacks		Sta
	Cliffon	Portable Chute		None		29. Stand
27.	Belletis Stations	Bulle	tin	Stations	5	Fortia
	Portland.	-Union Sta Resolding Yard office		Vanco Vanco Vistas		
	Willtebigs	- Yard Offs				Pancu
	Vancouver	Yard offic	te Cyand	nd roundhouse men only)		Spokar
	Webcam	Talegraph		Hittype		
	Birnil	-Telegraph		Parking		
	Goldenfale	- Telegraph		Yardie		
	Paico	- Passetger Resembles		Bend		
	Spokane	-G.N. pane		Airtoma		
	Hillyant	-Yard offic		Semide		
	Parkwater	-Roundbox		Salem		
	Yardiry	-Yard office		Albuny		
	St. Helens	-Depot		Eugene		
	Autoria	- Depot	4			
	Seaside	Deput				
	Solem	-Depot				
	Alberty	- Yard office	e and ro	southouse:		
	Hagree	- Deput				
	Sweet Home	Dayort				

Watch Inspectors

-	water imperiors
	Bull Railroad Time Serv. Of Objo
	2020 Co. Co. Co. Co. Co. Co. Co. 284 Endicott Bldg., St. Paul Miss
	Roy and Molie
	Zell Brothers
	N.L. Nielsen
	W.L. Runyan Vancouse Rolet, G. Tyuck The Dalles, On
	Craters Jewelry
	controlled at Manager
	Bob's Jewstry
	Canade Jewelers Ben
	L.H. Marion
	Stevens & Son
	F.M. French & Sons
	Seth Largery Bugger
	W.E. White
	W.E. White
	Kisflander's Jewelry StoreVernous

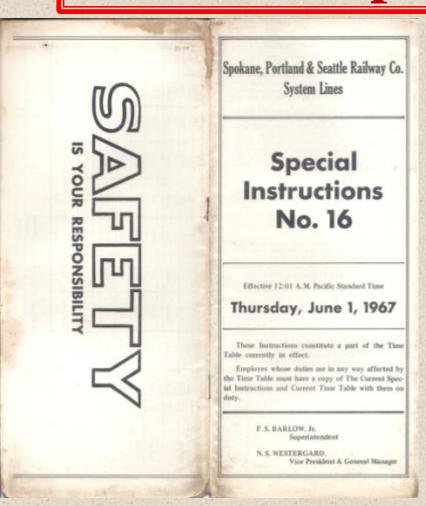
Standard Time Clocks

Telegraph office

20.	Stanford Time	en a									
	Fortland	 Union Station felograph office Roundhouse and yard office 									
	Willbridge	-Yard office									
	Vancouver	- Telegraph office and roundhouse									
	Wishners:	-Telegraph office									
	Pencii	-Pamenger Station tolegraph office Roundhouse and Yard office									
	Spokane	-G.N. Passenger Station									
	Hillyand	-Yard office, coundboose									
	Parkwaler	-Roundbouse									
	Yardley	-Yard office									
	Bend	-Telegraph office									
	Airtonia	-Telegraph office									
	Seatide	Tolograph office									
	Scient	-Telegraph office									
	Album	March - William									

Spokane, Portland & Seattle Railway Special Instructions No. 16 Thursday, June 1, 1967 Paul Hobbs Collection

Railroad Special Instructions



Special Instructions detail track facilities along the line and include tables like:

Tonnage	Rating of 1	Locomotives	bv	location and	direction
Tomage	runing of i	Docomoti ves	~ ,	iocution und	difection

	or sincered	1	i	1	3	1708	21100	휘	ij	1115	ı	1111	41000	1780	41900	I.	100	111	I	1700	11900			I
	in behood till qe't	387	2	100	1	90	130	*555	1888	1	Ì	188	9 9	1100	4110	1	1	433	110	1111	9884		Г	300
	Ben Spar to Corneller Tel.	1110	9111	1	1	1388	1300	2	4100	-	-	all l	100	1300	110		1	1	1	90(1	8574			1111
	indicated benedice to Ban Sport	1	830	1000	100	0110	100	101	111	500		1000	I F	1180	1131		1	8.0	911		2115			-
	or shorts. ended all	9112	1110	1812	1888	0 1	3850	2424	11413	101				34111	19494		100	3800	anni .	1111	265	ì		0000
NES.	withouth in	etts	HILL	2111	3138	100	3116		13,000	1	4	4	17,000	_	_		-	State	_	ļ	-1			1000
TOPOWER RATINGS OF LOCOMPIENTS	controls of effection	1	I	1	+-	-	0010	+	-	1388	1	1						9900	-	10019	4	1		
NGE OF E	or sealest hand					9 10 10		1000	11400	1000	4	4		╙	4		-	i	_	5600	4	Ì		i
GR RATE	extract dand unise o					1100	1100	1000	1990	8	-	4	1000	ш	4	1100	9	1424	-	1000	+			1
TONE	to mediality professed, durality					911	811			1		2 100	2110	3000	3110		1	1	1	H	3198		Г	960
	er shyż sisteodosi					1 1	1		*T388	3100	-	+	100	H	4	100	1	1	₩	001	+	ī		000
	an region tools dools					1880	1		1,490	1090	1	1000	1,100	1600	11400	1000	1	1	i	1001	1001			858
	or relative two?					1	21,600	1444	11000	1	-	+	1000	Н	11000	-	-	1	-	1000	+			9039
	Samily Amali					23000	2340		2000	1	-	÷	31000	Н	2000	2000	-	3310	1000	+	1000		П	1100
	Vancinent in					911	100.00		2000	100	1		3000		1	100	1	1	41110		1100			3358
	UNIT NO.	1518	46-43	43.45	30.00	10-45	15.00		90-00	110-113	*********	111111	288-201		304.204	212	300-314	118.313	336.337		110-110			103-101

Spokane, Portland & Seattle Railway Special Instructions No. 16 Thursday, June 1, 1967 Paul Hobbs Collection

Railroad Historical Societies

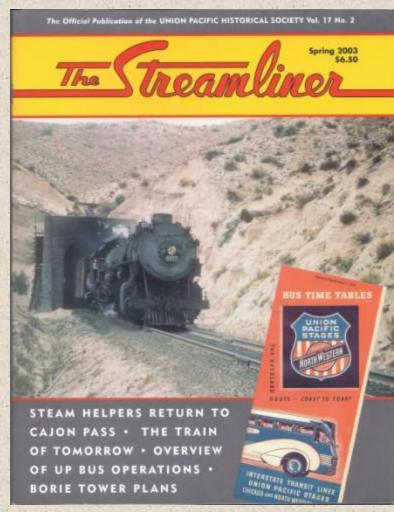


At the Depot, on the Street in Renton Map and Photo Tour of the CSP Slaght Land Case in Palouse



Historical
Societies usually
publish a
quarterly
magazine and
host a
convention
each year.

Excellent source of railroad specific data of all kinds.



Northern Pacific Railway Historical Association Mainstreeter for Winter 2013 Paul Hobbs Collection Union Pacific Railroad Historical Society Streamliner for Spring 2003 Paul Hobbs Collection

Railroad Archives

Historic Corporate records for many railroads have been donated to regional historical societies.



The Minnesota History Center has records from the Great Northern and Northern Pacific Railways, once headquartered at St. Paul, Minnesota.

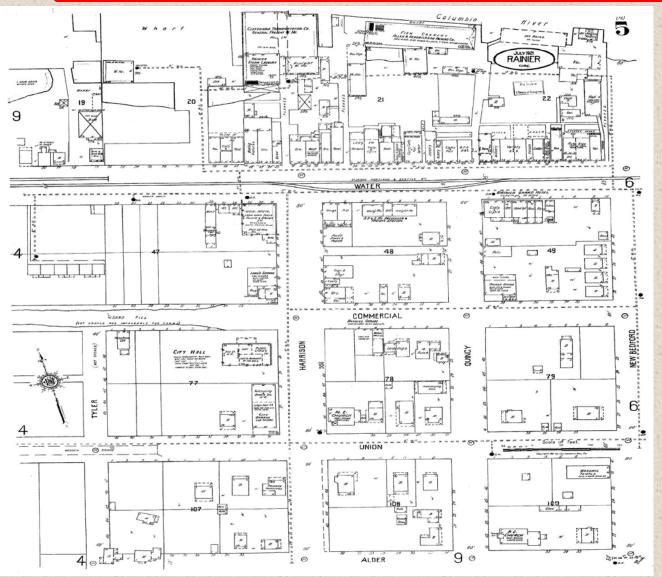
Chicago, Burlington & Quincy records are at the Newberry Library, Chicago, Illinois.

Atchison, Topeka & Santa Fe records are at the Kansas Historical Society, Topeka, Kansas.

Pennsylvania Railroad records are at the Pennsylvania Historical and Museum Commission, Harrisburg, Pennsylvania.

http://mn.gov/admin/images/history%2520center.jpg

Sanborn Insurance Maps



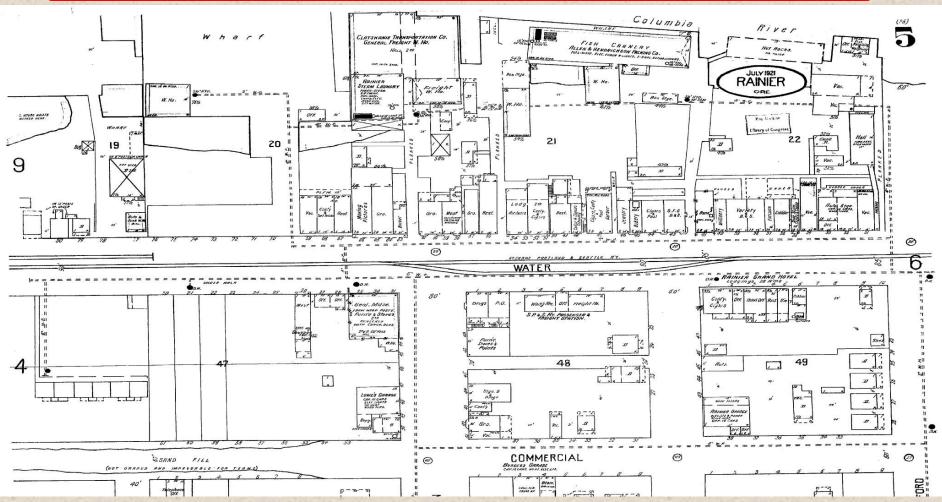
Sanborn maps have served the insurance industry since 1867.

They provide details of structures and other insurable assets.

This map of Rainier, Oregon dated July 1921 shows the tracks in the street, location of the passenger depot among other businesses.

The siding is enough for a short train at the depot.

Sanborn Insurance Maps

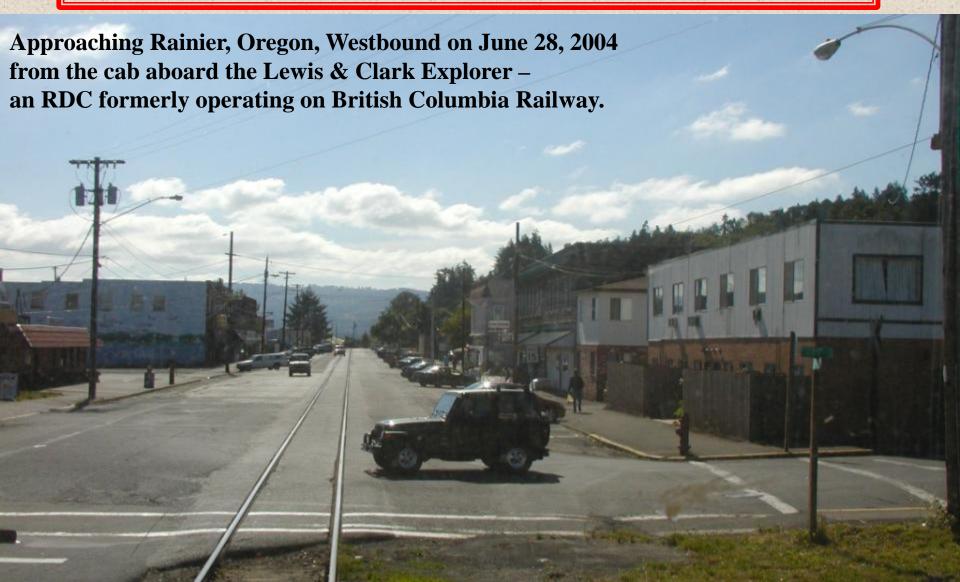


Business structures can be identified.

Local libraries hold these maps for their area.

Library of Congress has a large collection.

Sanborn Insurance Maps



Tracking Equipment History

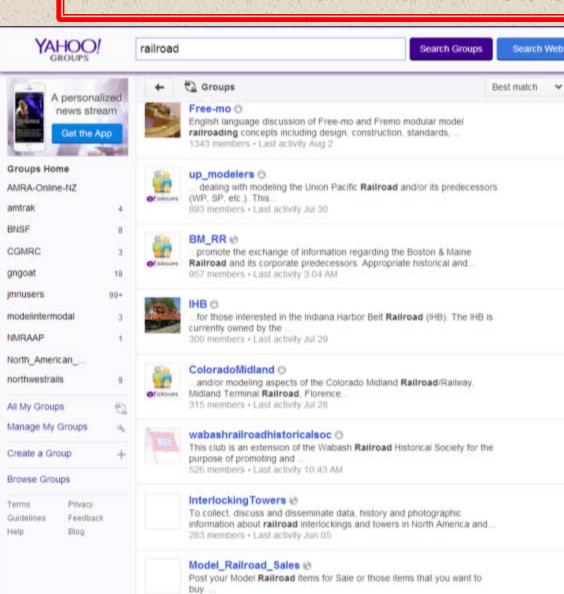


RDC3 ORRX 31 is former BCR 31, Amtrak 43 and built new in July 1956 for Great Northern Railway as its 2350, and only RDC car.



Railpictures.net is a member contributed photo archive.

It has half a million images searchable by several criteria.

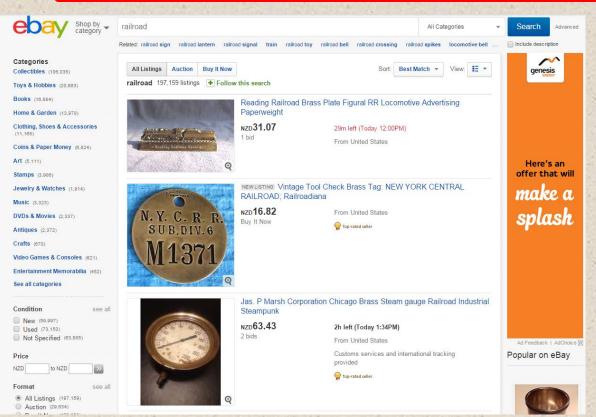


Yahoo Groups is a popular forum for numerous topics.

Many railroad historical societies host sites here.

Specific interests like: steam era freight cars, JMRI, railroad operations

All host discussions you can participate in and learn from.

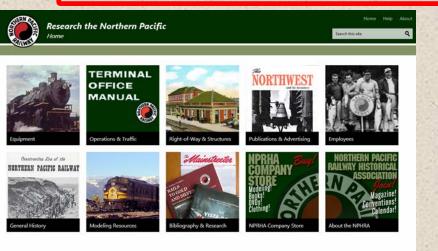


eBay can be a source of significant material towards your research project.

On this day the search word railroad yielded 197,159 items.

You may want to refine it a bit!

Research Hint: Start with broad term, then filter!



http://www.nprha.org/Pages/Home.aspx



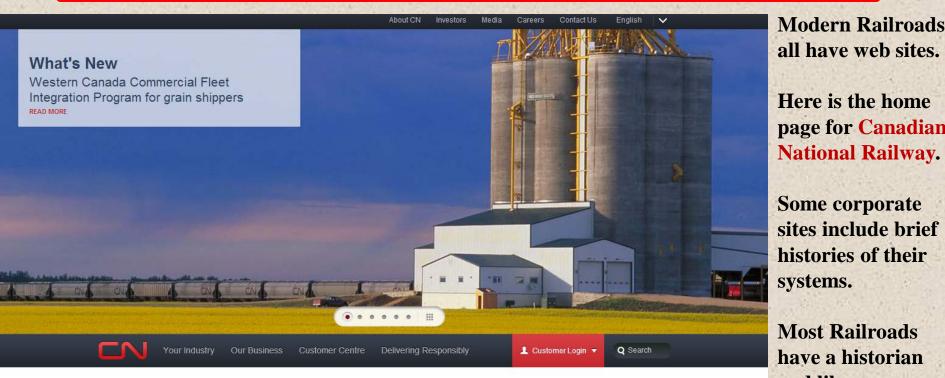
Railway Historical Societies have web sites of variable utility.

The Northern Pacific Railway
Historical Association has significant
collections on their web site.

They include photos, equipment diagrams, depots, track plans, operating information.

The New York Central System Historical Society site provides links to internal and outside resources.

The Union Pacific Historical Society provides some of each.



all have web sites.

Here is the home page for Canadian National Railway.

Some corporate sites include brief histories of their systems.

Most Railroads have a historian and library.

Railroads are operating a business. They do not necessarily know minutiae of their history.

Shipping Solutions



Destinations

Whether you're importing to or exporting, we can help you capitalize on market opportunities.



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Products

Whether it is shipping bulk, industrial or consumer products. CN is ready to help you transport your goods to market

Latest News

August 8, 2014

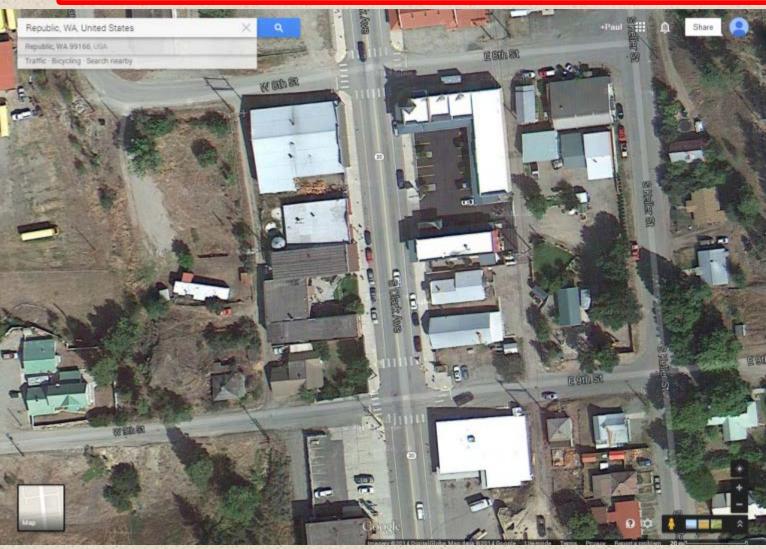
CN Western Canada Commercial Fleet Integration Program for grain shippers read more

July 31, 2014

CN Optional Services Carload -Changes Effective September 1, 2014 read more

Customer Essentials

Maps



Google Maps with Satellite view.

Here is the Northern Inn at Republic, Washington.

https://www.google.co.nz/maps/place/Republic, +WA+99166, +USA/@48.6451589, -118.7376198, 177 m/data=!3m1!1e3!4m2!3m1!1s0x549d6ea629f11965:0x5905f1f1bf44886d?hl=en



https://www.google.co.nz/maps/place/Wishram, +WA, +USA/@45.6557441, -120.9606823, 2999 m/data = !3m1!1e3!4m2!3m1!1s0x5496274973eb0ead: 0x6efa8738004c0a41?hl=en

Google Maps with Satellite view.

Wishram,
Washington,
100 miles up the
Columbia River
from Portland.

You can zoom in to detailed track plan.

Overall track layout is generally similar to SP&S days (45 years ago), with numerous structures now removed or replaced.



Google Maps with Satellite view.

Wishram,
Washington,
100 miles up the
Columbia River
from Portland.

You can zoom in to detailed track plan.

Overall track layout is generally similar to SP&S days, with numerous structures now removed or replaced.



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(тарашкевіца)

Čeština

Article Talk Read Edit View history

Rail transport

From Wikipedia, the free encyclopedia (Redirected from Railroad)

"Railway" and "Railroad" redirect here. For other uses, see Railway (disambiquation).

Rail transport is a means of conveyance of passengers and goods, by way of wheeled vehicles running on rails. It is also commonly referred to as train transport. In contrast to road transport, where vehicles merely run on a prepared surface, rail vehicles are also directionally guided by the tracks on which they run. Track usually consists of steel rails installed on sleepers/ties and ballast, on which the rolling stock, usually fitted with metal wheels, moves. However, other variations are also possible, such as slab track where the rails are fastened to a concrete foundation resting on a prepared subsurface.

Rolling stock in railway transport systems generally has lower frictional resistance when compared with highway vehicles and the passenger and freight cars (carriages and wagons) can be coupled into longer trains. The operation is carried out by a railway company, providing transport between train stations or freight customer facilities. Power is provided by locomotives which either draw electrical power from a railway electrification system or produce their own power, usually by diesel engines. Most tracks are accompanied by a signalling system. Railways are a safe land transport system when compared to other forms of transport. [Nb 1] Railway transport is capable of high levels of passenger and cargo utilization and energy efficiency, but is often less flexible and more capital-intensive than highway transport is, when lower traffic levels are considered.

The oldest, man-hauled railways date back to the 6th century B.C, with Periander, one of the Seven Sages of Greece, credited with its invention. Rail transport blossomed after the British development of the steam locomotive as a viable source of the power in the 18th and 19th centuries. With steam engines, it was possible to construct mainline railways, which were a key component of the industrial revolution. Also, railways reduced the costs of shipping, and allowed for fewer lost goods, compared with shipping, which faced occasional sinking of ships. The change from canals to railways allowed for "national markets" in which prices varied very little from city to city. Studies have shown that the invention and development of the railway in Europe was one of the most important technological inventions of the late 19th century for the United States, without which, GDP would have been lower by 7.0% in 1890.

In the 1880s, electrified trains were introduced, and also the first tramways and rapid transit systems came into being. Starting during the 1940s, the non-electrified railways in most countries had their steam locomotives replaced by diesel-electric locomotives, with the process being almost complete by 2000. During the 1960s, electrified high-speed railway systems were introduced in Japan and a few other countries. Other forms of guided ground transport outside the traditional railway definitions, such as monorail or maglev, have been tried but have seen limited use.

Contents [hide]

Create account & Log in

Wikipedia

Depending on who you talk to Wikipedia will be lauded or maligned.

Information here is vast.
It is entered by any account user, and thus suspect by some.

Generally historical data is credible, with references.

Usually entered by knowledgeable historians on the subject.



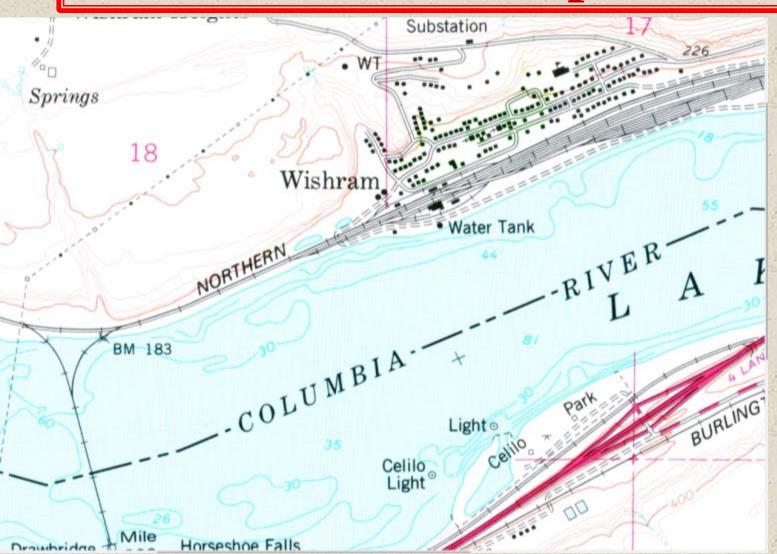
Four BNSF GE C44-9W diesel locomotives Analysis a mixed freight train along the banks of the Columbia River, between Kennewick and Wishram, Washington State, USA





Operations • Track • Maintenance •
High-speed railways • Track gauge • Stations •
Trains • Locomotives • Rolling stock •

USGS Maps



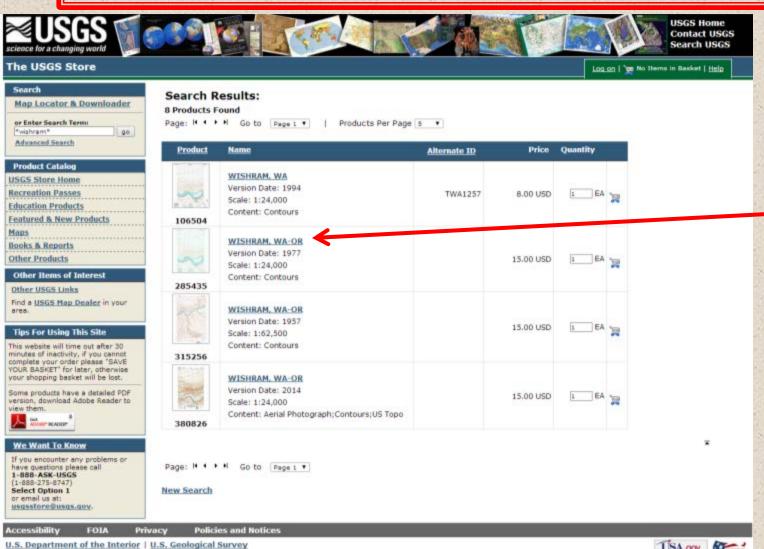
United States
Geological Survey
provides maps in
several scales.

Most common are the 15 minute and 7.5 minute series.

This part of the 7.5 minute map for Wishram shows the track layout reasonably accurately.

This is from the United States Geological Survey Map Wishram, Oreg.-Wash. in the 7.5 Minute series. Dated 1977. Paul Hobbs Collection

USGS Maps



United States Geological Survey provides maps in several scales.

The same map is available as the second item on this list.

Note: several dates are available.

You can purchase the paper map, or download the .pdf.

1:24,000 = 7.5

1:62,500 = 15'

Books



http://www.caboosestophobbies.com/shopphotos/books.jpg

Very likely there are books about your favorite railroad.

Popular 128-page pictorials from Four Ways West, **Morning Sun** and others have unleashed many slide collections and provided images of much equipment and numerous locations for current and fallen flag railroads.

Books



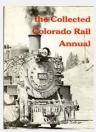
The Pennsylvania
Railroad has been
documented in this series
of books, each
highlighting a segment of
the railroad's line in
detail.

Many books feature the history and operations of the PRR.

http://www.ebay.com/itm/Triumph-Prr-Pennsy-railroad-book-series-vols-1-8-Messer-Roberts-b-o-/150944462088

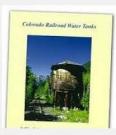
Books

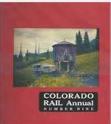


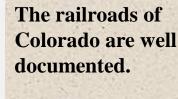




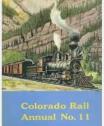




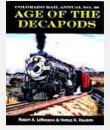










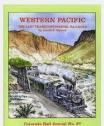






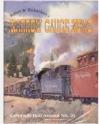


The Colorado Railroad Museum has been publishing its popular "Colorado Rail Annual" for more than 30-years.

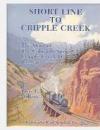
















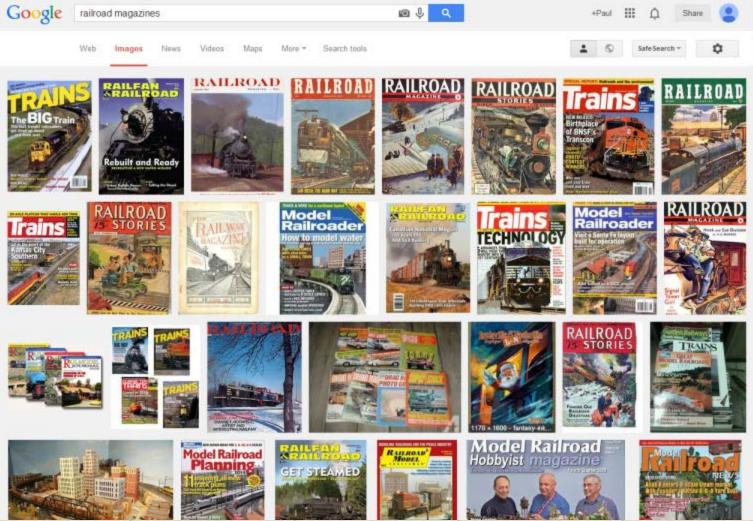






https://www.google.co.nz/search?hl=en&site=imghp&tbm=isch&source=hp&biw=1024&bih=719&q=colorado+railro ad+annual&oq=colorado+railroad+annual&gs_l=img.12...1201.8517.0.11117.26.17.2.7.2.0.233.2575.2-12.12.0.msedr...0...1ac.1.58.img..11.15.2379.r__HpUbLGSc#hl=en&tbm=isch&q=colorado+rail+annual

Magazines



These, among other titles, contain many articles of railroad historic information.

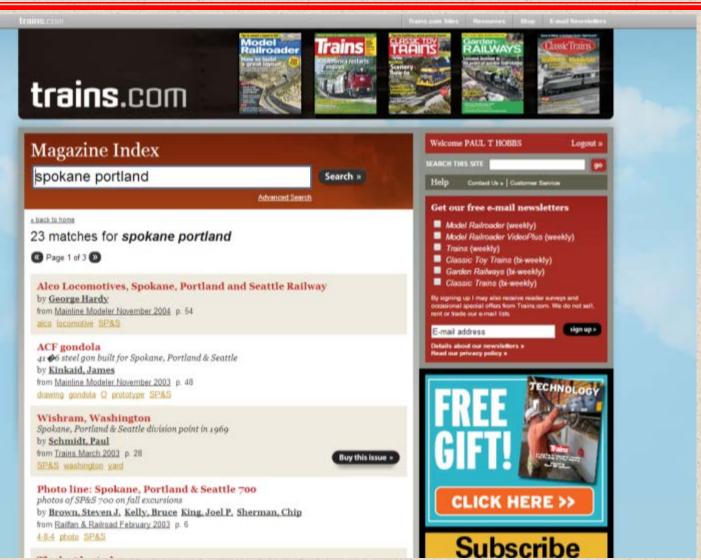
https://www.google.co.nz/search?q=railroad+books&source=lnms&tbm=isch&sa=X&ei=WGThU9GpJYzm8AXz04D4CQ&sqi=2&ved=0CAYQ_AUoAQ&biw=1280&bih=899#q=railroad+magazines&tbm=isch&imgdii=_

Magazines



Kalmbach has built a comprehensive index of articles in numerous magazines.

Magazines



Keywords

Spokane Portland

found 23 articles.

Among the first four displayed, just one is a Kalmbach publication.

Using other search criteria you could find the more than 80 articles on this railroad I have located over the years.

o Equipment on the railroad has definite life cycle

 Mainline Locomotives average 	20 years
o Switching Locomotives average	50 years
o Freight Cars average	40 years
o Containers and Trailers average	10 years
o Equipment gets major service	5 years
o Equipment gets repainted	20 years

 Steam Locomotives seemed to add one axle per decade for premier mainline single-engine power:

	Passenger	Freight	Axles
o 1890s	4-4-0	2-6-0	4
o 1900s	4-6-0	2-8-0	5
o 1910s	4-6-2	2-8-2	6 Large Fireboxes
o 1920s	4-8-2	2-8-4	7 Super Power
o 1930s	4-8-4	2-10-4	8

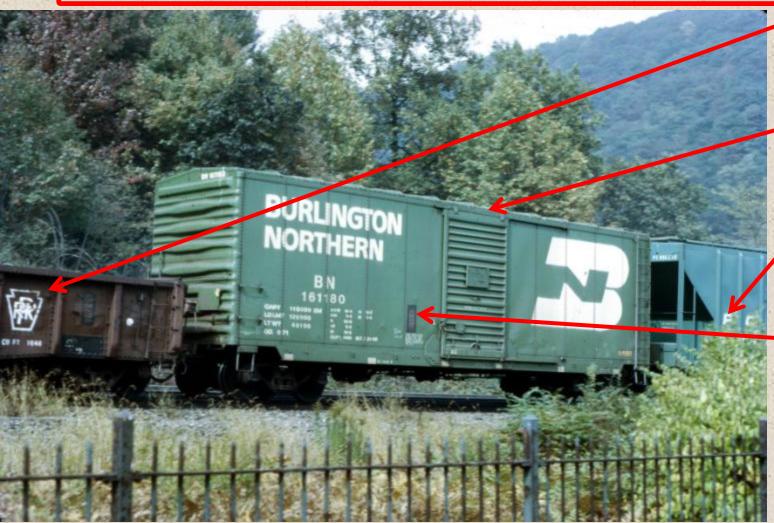
This does not indicate when the wheel arrangement came into use – just dominance, e.g. the 2-6-0 and 2-8-0 origins date to the mid 1860s.

Numerous wheel arrangements, including articulated, had niches on the railroad. Outmoded types continued in secondary service for many years.

Diesel Locomotives evolved differently:

o 1930s	Streamlined	passenger,	plus switchers
All the second s			

- o 1940s Road freight cab units
- o 1950s Road Switcher railroads complete dieselization
- o 1960s Horsepower race GE arrives, ALCO departs
- o 1970s 3000 HP SD40-2 and U30C dominate
- o 1980s AC traction emerges
- o 1990s 4000 HP C44-9 and SD70M dominate
- o 2000s 4400 HP ES44 and SD70ACE dominate
- o 2010s Gensets, Tier 4 emissions issues



PRR lettering still on heritage equipment.

Burlington
Northern paint
scheme dates from
March 1970.

PC on new hopper since 1968.

KarTrak ACI labels were introduced in 1968, but abandoned in the late 1970s.

S732509p Paul Hobbs Image, Penn Central Railroad, Horseshoe Curve, Altoona, Pennsylvania, November 1973



Outbound Metra train.

New image on nearest car.

Other paint scheme on older cars without stainless steel sides.

S030209p Paul Hobbs Image, O'Hare Transfer Station, North Central Service Line, Metra, Chicago, Illinois, March 2003



S760733p Paul Hobbs Image, Milwaukee Road Western Avenue Station, April 1976

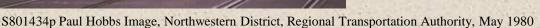
Chicago's commuter railroads introduced gallery cars from 1950.

The Regional Transportation Authority was created in 1974, gradually introducing a unified color scheme.

From a 1983 reorganization, Metra became the heavy rail component of RTA (which also funds the CTA and Pace).



1980





1999



S801433p Paul Hobbs Image, May 1980



S990631p Paul Hobbs Image, Illinois Railway Museum, August 1999

S990926p Paul Hobbs Image, Route 59 Station, Aurora Line, August 1999



BNSF 6878 is SD40-2 built in September 1980 as ATSF 5150

BNSF 5491 is C44-9W delivered in May 2000

S030121p Paul Hobbs Image, Argentine Yard, Kansas City, Missouri, March 2003

Roster information from http://www.trainpix.com/bnsf/ROSTER.HTM
And Burlington Northern Santa Fe 1994 Annual, by Robert C. Del Grosso



Autoracks entered service about 1960.

Protective side panels from mid 1960s

Fully Enclosed from 1973

AutoMax from 1999



Freight Operations

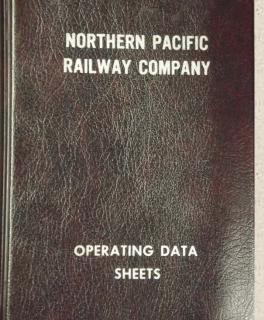
- Most Freight Trains run as Extras
- o This does not mean the operation is random
- Mainline trains have schedules, specific stops, known connecting traffic
- o Cars in trains are recorded in "Wheel Reports"

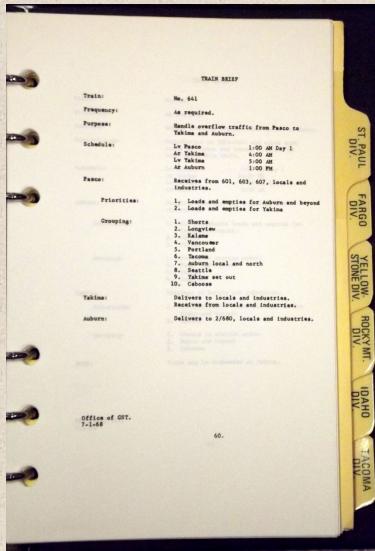
Train Brief

Train Brief (term may differ on other railroads)

The page is for NP 641 between Pasco and Auburn.

It details the schedule, traffic carried, connecting trains, train blocking and directs switching at way stations.





Northern Pacific Railway Company, Operating Data Sheets 1969 Gary Wildung Collection

Train Brief

Train Brief (term may differ on other railroads)

The page is for NP 1252-1253 Pasco – Riparia Turnaround Local. 66.4 miles each way.

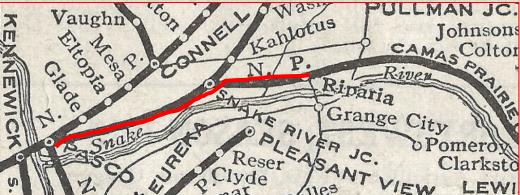
It details the schedule, traffic carried, connecting trains, train blocking and directs switching at way stations.

IDAHO DIVISION LOCAL TRAIN BRIEF

Trains	1252 - 1253 Pasco-Riparia Turnaround Local
Frequency:	Daily except Sunday
Purposes	Camas Prairie Railroad. Runs Paseo to Ainsworth Junction via SPS-NP to Villard Junction, then joint NP-UP trackers to
Traffic Handleds	Lumber, paper products, grain, empties on order for Camas Frairie.
Schedules	On duty Pasco 8:30 PM
Connections	Camas Prairie Train 859
Terminal Handlings	Cars in station order
On-line Berformance:	Occasional pickup or setout at Attalia. Train

at UP Ayer Yard.

Map from NP Passenger Timetable September 1912; Paul Hobbs Collection



Northern Pacific Railway Company, Operating Data Sheets 1969 Gary Wildung Collection

Wheel Reports

Definition

Wheel Report

A list of cars in a train showing destination, weight, load or empty status, etc. for each, and which the conductor updates as the train picks up and sets out cars en route.

Also certain way-stations maintain lists of cars passing through that point.

GN97 March 2, 1968

Wheel Report at Willmar, MN

Transcribed to spreadsheet

		Sept.				200					200			
3	1						Great Northern Railway							
	2							Willmar,MN						
	3							Train 97 March 2,1968						
	4						Twin Citie	Twin Cities-Minot-Havre-Spokane-Seattle						
	5						Chi	Chief Dispatcher Minneapolis						
	6													
16	7						H30203509702UD 89 Loads				1 Empties	4120 Tons		
	8	Initials	Number	L/E	Kind	Tons	Contents	Junction Destination			Consignee	Remarks	Origin	Shipper
	9	GNE	403	L	EP							SD45		
	10	GNE	402	L	ES							SD45		
	11	GNE	401	L	ES							SD45		
	12	GN	X2	L	NE							Caboose		
3	13							Rear of Train						
	14	NIFX	7512	L	В	10	CAMPERS	11118	GREAT FALLS	MT	VESELY			
	15	RTTX	900910	L	F3	15	AUTOS	12373SP	TIGARD	OR	SOUPACIFIC			
	16	RTTX	903731	L	F3	20	AUTOS	15129	VANCOUVER	BC	JOHNSTONT			
	17	RTTX	900639	L	F3	15	AUTOS	15114	ROYAL OAK	BC	CANAUTCAR			
Ě	18	RTTX	911578	L	F3	15	AUTOS	12373SP	TIGARD	OR	FORD			
	19	GN	60327	L	F7		G379	00916	MINOT	ND	AGENT			
	20	GTTX	300813	L	F8		GNZ501081	12375	PORTLAND	OR	SWIFT			
	21	GN	172404	L	C6	75	CORN	61976	SPOKANE	WA	ATWOODLAR			
	22	GN	33525	L	B2	15	MDSE	05495	SURREY	ND	AGENT			
	23	GN	51714	L	В	15	MDSE	59214	FAIRVIEW	MT	AGENT			
	24	GN	3334	L	B8	15	MDSE	01345	HAVRE	MT	AGENT			
	25	GN	20950	L	B2	15	MDSE	11118	GREAT FALLS	MT	AGENT			
	26	GN	44272	L	В	15	MDSE	01036	WILLISTON	ND	AGENT			
	27	CBQ	30668	L	В	15	MDSE	01036	WILLISTON	ND	AGENT			
	28	GN	18034	L	B2	10	MDSE	00911	MINOT	ND	TRANSLOAD			
	00	ON	50440	0.00	-	45	MDOE	04000	MULIOTON	NID	AOENT			H10 17 14 11

http://www.greatnorthernempire.net/index2.htm?GNEGNWheelReports.htm

402

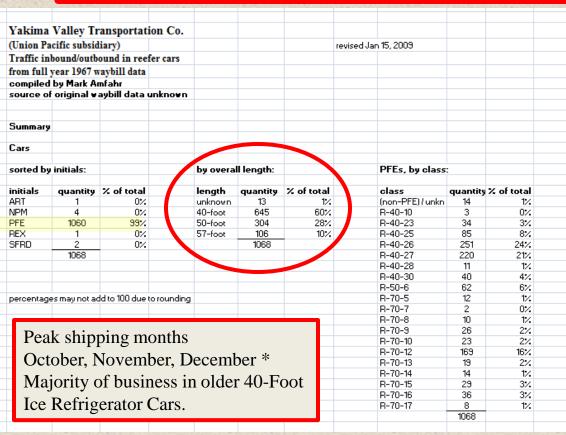
ALASKAN RAILWAY--ELECTRIC RAILWAYS

No. 419.—ALASKAN GOVERNMENT RAILROAD TRAFFIC: ANALYSIS OF STATISTICS OF PASSENGER AND FREIGHT SERVICES, YEAR ENDED JUNE 30, 1926

Road milcage operated—monthly average	543.7	FREIGHT TRAFFIC	,
Passenger train-miles 1. Mixed train-miles 1. Passenger car-miles, passenger trains 1. Passenger car-miles, mixed trains. Total revenue passengers carried. Number of revenue passengers carried 1 mile. Average distance per passenger carried, miles. Total passenger revenue. Revenue per passenger. Average revenue per passenger per mile. Average revenue per train-mile, pas-	15, 098 141, 027 15, 122 290, 080 57, 567 3, 505, 717 60, 98 \$196, 795 \$3, 42 \$0, 05614	Freight train-miles Mixed train-miles Loaded cars, 1 mile, freight trains Loaded cars, 1 mile, mixed trains Empty cars, 1 mile, freight trains Empty cars, 1 mile, mixed trains All cars, 1 mile Percentage of loaded to total car-miles Tons of revenue freight carried: Coal Miscellaneous Tons of revenue freight carried 1 mile, 12, 26 Average distance hauled per revenue ton, miles Total freight revenue Average revenue per ton per mile \$55 Average revenue per train-mile	65 32, 553 32, 483 67, 225 188, 62 50, 614 04562 \$2, 52
Average revenue per train-mile, pas- senger and mixed	\$1. 26 22. 45	Average revenue per train-mile Average revenue tons per loaded car-mile Average revenue per loaded car-mile Average revenue tons per car-mile loaded and empty	9, 86 44962 6, 40
Average revenue per car-mile	\$0.66665	Average revenue tons per train-mile	55. 21

¹ Motor miles.

Source: Department of the Interior.

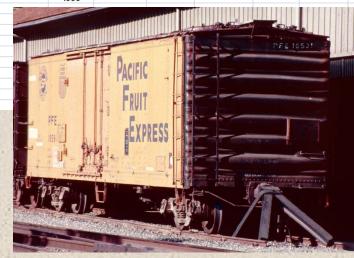


https://groups.yahoo.com/neo/groups/Classic_UP/files/Train%20lists%20%26%20traffic%20info/

Here is an analysis of Refrigerator traffic in 1967 originating at Yakima, Washington from waybill data. It is a file on the Yahoo Group Classic UP.



refrigeration	n:	
	quantity	% of total
unknown	13	1%
ice reefer	605	57%
mechanical	450	42%
	1068	



S931433p Paul Hobbs Slide, Sacramento California, July 1993

^{*} From online newspaper archive

Here is an analysis over 35-years of general freight traffic (not including coal, ore, intermodal, grain).

Larger capacity cars mean fewer carloads for the same tonnage.

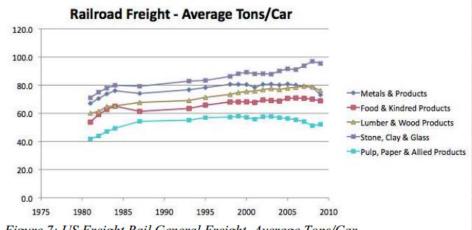


Figure 7: US Freight Rail General Freight, Average Tons/Car

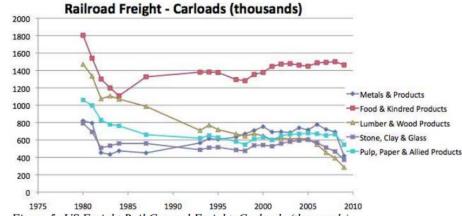


Figure 5: US Freight Rail General Freight, Carloads (thousands)

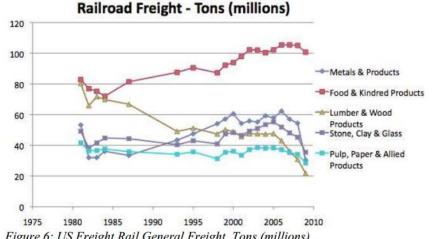
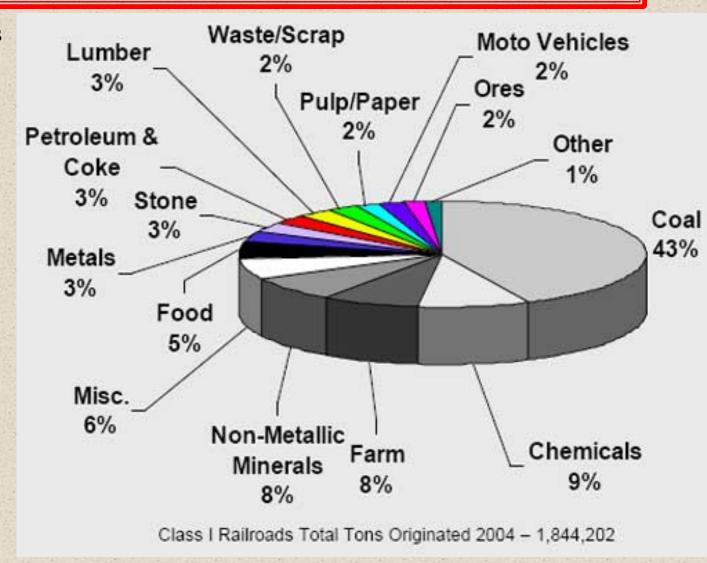


Figure 6: US Freight Rail General Freight, Tons (millions)

This pie chart shows the percentage of each commodity type carried on Class I railroads in 2004.



Planning for future growth

This is a 75-page university study in 2007, using Open-Track software to propose directional running on BNSF and UP to handle the growth of traffic in 2020.

In 2004 the railroads ran a daily average of 26 trains each, growing to 46 each by 2020. FREIGHT RAILROAD CAPACITY ALTERNATIVES IN THE PACIFIC NORTHWEST: AN ANALYSIS OF CLASS I COOPERATION IN THE COLUMBIA RIVER GORGE

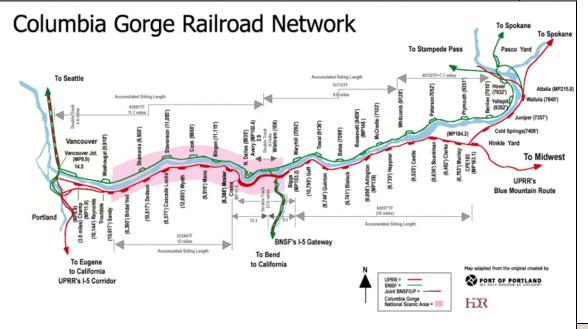
ZACHARY HOROWITZ

A research project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE CIVIL AND ENVIRONMENTAL ENGINEERING

Portland State University

2007



http://www.its.pdx.edu/upload docs/124889420660qUBtA1JG.pdf

Exotic Equipment



S971219p Paul Hobbs Slide

DODX 39916 Flat Car with Containment Vessel – nuclear fuel rods for aircraft carriers and submarines. The 12-axle car was in a yard at Baltimore, Maryland during 1997. Cars like this are rarely seen, and in select traffic lanes – like serving a naval shipyard!

Exotic Equipment



http://www.northeast.railfan.net/images/bnsf800121.jpg

BNSF 800121 Flat Car with Boeing 737 fuselage.

Montana Rail Link and BNSF northern lines feature these cars regularly, going from Wichita, Kansas to Renton, Washington to be completed.

Exotic Equipment



http://www.jeffstrainsite.com/railfan_pics/Industrial_Railcars/steel_industry/inlx_bottle-car_148.jpg

Arcelor Mittal Bottle Car No. 148

These cars transport molten metal around steel mills.

- Railroads serve many different industries
- o Meat Reefers are different from Fruit Reefers
- o Oil tank cars are different from Chemical tank cars
- o Grain covered hoppers are different from Cement cars
- o A ton of feathers takes more room than a ton of lead
- o Understanding the industries the railroad serves makes our modeling more realistic.

Part of the KapStone Paper and Packaging plant at Longview, WA.

There are two tank "farms", one for acid cars and the other for caustic soda cars.

This industry receives woodchips, dispatches box cars of paper.

The plant uses its own switchers. It is served by both BNSF and Union Pacific.



https://www.google.co.nz/maps/place/Longview,+WA,+USA/@46.1310835,-

Yellowstone Packing Company, Billings, MT.

Interesting group of buildings with loading spur for refrigerator cars. A stockyard should be beyond the buildings.

Very modelable!

Google wanted to advise on packing for a visit to Yellowstone National Park!



 $https://c1.staticflickr.com/9/8383/8457614426_3f84e7a534_z.jpg$

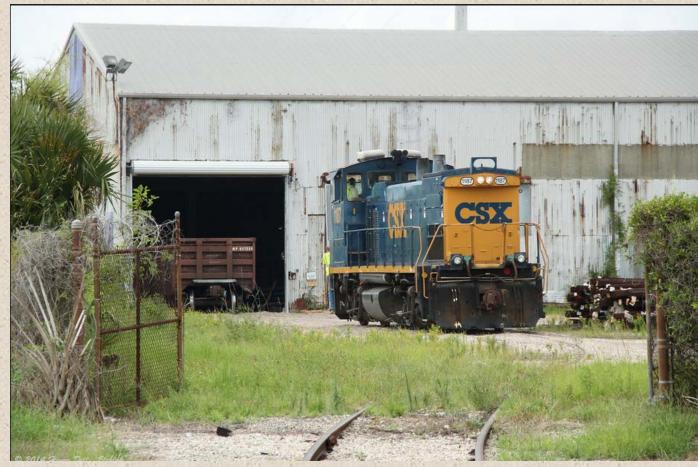
Steelcon Supply Company, Eastside, Jacksonville, FL.

A bland, unidentified building.

Could be anything.

That gate hasn't been closed in a while!

Before its current use the facility was a lumber wholesaler.



https://www.flickr.com/photos/75483597@N06/14514017295

This discussion has hardly scratched the surface on research possibilities.

- You rarely get the entire answer from one resource.
- Don't be discouraged if you do not find what you are looking for you proved it wasn't where you looked, or that the data may not exist.
- Everything learned will lead to the next question.
- Share what you learn and people will call you an EXPERT. You might know better!

YOU THOUGHT PROTOTYPE RESEARCH MIGHT BE FUN?

The End

Thank you for visiting