RAIROAD **INDUSTRIES** AND FREIGHT TRAFFIC The "WHY" Behind Prototype Railroad Operations

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A MODEL RAILROADING COROLLARY, AND RULE NUMBER ONE

Never say never (and likewise, never say always) There are always situations and practices which are outliers . . . Rule Number One – Whose railroad is it?

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RAILROADS ARE TRANSPORTATION BUSINESSES

- Railroads are common carriers, required to accept and move freight traffic tendered (commodifies) for established amounts (rates) over given routes.
- Rail traffic can be either line-haul or a switch move:
 With line haul traffic, your railroad is in the routing and
 - rate as a line-haul carrier.
 - With switch traffic (generally reciprocal switching), the railroad is not in the route or rate except as a delivering carrier, and earns a fixed fee for handling that car across town between the industry and the line haul carrier.

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CATEGORIES OF LINE-HAUL RAILROAD TRAFFIC

• Originated (the shipper is on your railroad).

• Terminated (the receiver is on your railroad).

Local (both shipper and receiver are on your railroad).

 Overhead or bridge (neither shipper nor receiver are on your railroad - the traffic is originated on railroad A, interchanged to your railroad and delivered to railroad C, which terminates the shipment).

RECIPROCAL SWITCHING

- Reciprocal switching is typical in large terminal areas where mutual access is granted between the industries of local line-haul railroads.
- For example, A.E. Staley (now Tate & Lyle) was physically located on the Nickel Plate at Lafayette, Indiana, but if Staley was "open" to reciprocal switching, Monon, Wabash and New York Central could quote line haul rates into and out of the facility as if it were on their own railroad.
- Nickel Plate would still physically switch the cars into and out of the plant for an established switch fee.

SWITCHING RAILROADS

- Switching and terminal railroads exist to effectively serve as (typically) neutral terminal facilities, often in major cities.
 - For example, Belt Railway of Chicago, Indiana Harbor Belt, Kentucky & Indiana Terminal, Houston Belt & Terminal, Kansas City Terminal.
- These railroads handle cars between line haul railroads and each other or on-line industries for a switch fee.
- They are typically not part of the line haul routing and rates.
- Industries on switching and terminal lines are effectively on-line customers of the connecting line-haul carriers.

PRIMARY DETERMINANTS OF THE "WHY" OF RAIL TRAFFIC FLOWS • Three primary factors determine why you would

see a carload of a certain commodity at a given location:

Geography
Business relationships

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Economics

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ECONOMIC CONSIDERATIONS

While railroads are common carriers, they are not, however required to move freight which is unprofitable (non-compensatory in railroad talk).
Freight rates are typically a function of the value of the commodity being hauled, and the distance of the haul.

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TYPICAL RAIL-HAULED COMMODITIES

Commodities are codified in the Standard Transportation Commodity Code ("STCC"), and are assigned a standardized name and seven-digit code:

STCC	Commodity Group	STCC	Commodity Group	STCC	Commodity Group	STCC	Commodity Group
01	Farm products	22	Textile mill products	32	Clay, concrete, glass, stone	42	Shipping devices, empty
08	Forest products	23	Apparel	33	Primary metal products	43	Mail, express traffic
09	Fresh fish/marine prods.	24	Lumber/wood products	34	Fabricated metal products	44	Freight forwarder traffic
10	Metallic ores	25	Furniture or fixtures	35	Machinery exc electrical	45	Shipper association traffic
11	Coal	26	Pulp, paper or allied prods.	36	Electrical equipment	46	Misc. mixed shipments
13	Petroleum & products	27	Printed matter	37	Transportation equipment	47	Small packaged freight
14	Nonmetallic minerals	28	Chemicals or allied prods.	38	Instruments, clocks	48	Hazardous wastes
19	Ordnance or accessories	29	Petroleum or coal products	39	Misc manufactured prods.	49	Hazardous materials
20	Food products	30	Rubber or misc. plastics	40	Waste or scrap materials	50	Bulk boxcar shipments
21	Tobacco products	31	Leather or leather products	41	Misc freight shipments		SOURCE: Railinc

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GEOGRAPHIC CONSIDERATIONS

 Lower-value, fungible commodifies typically don't move beyond alternative origins of the same commodity. Also, east-west movements historically get expensive over the Chicago, St. Louis or other central US gateways.

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BUSINESS RELATIONSHIPS

ROSCOE, SNYDER & PACIFIC RAILWAY COMPANY

"R-S PACIFIC ROUTE"

A. H. HANEY, Auditor,

1162

HARRIS and SENTELL, General Attorneys,

Roscoe, Tex.
Roscoe, Tex.<



 Sometimes shippers (especially larger ones) specify the routing. Otherwise, the local agent will set the route, based on established routing protocols oriented to giving the originating carrier the long-haul.

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 Higher-value commodifies tend to travel longer distances than those of lower-value. Rarely do commodifies travel long distances to an area where those materials are otherwise readily available. The number of railroads in the overall haul also affects the rate and viability of the move.



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Which do you think travels at a higher rate, a hopper load of coal or a trilevel auto rack of new BMWs?



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How about a container load of new televisions or a boxcar load of scrap paper?



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How about a tank car load of chlorine or a hopper load of crushed limestone?



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How about a covered hopper load of corn or a covered hopper load of plastic resin pellets?



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Indiana

e Reesler M

Louisville

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EXAMPLES BY INDUSTRIES

Davison Chemical 1998

Davison Chemical Division of W.R. Grace in New Albany, Indiana manufactured fertilizer compounds.

Inbound potash from Canada, New Mexico, Utah.
 Inbound phosphate from Florida's Bone Valley.

Inbound nitrogen and ammonia.
Other inbound fertilizer compounds.

• Outbound fertilizer compounds – dry in covered Google Fattbers and liquids in tank cars. Image U.S. Geological Survey 300 ft

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EXAMPLES BY INDUSTRIES

Pillsbury Mills, also in New Albany manufactured refrigerated dough. Inbound flour from the Pillsbury in Springfield, Illinois, and the Upper Midwest and East. Inbound plastic resins from Northeast, Gulf Coast (packaging) Inbound pulpboard from Southeast (packaging) Outbound refrigerated dough (mostly trucks)

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POOL AND ASSIGNED CARS

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MONON TRAFFIC 1970

Category	Units	%
Originated (tons)	2,072,578	30%
Received from connections and terminated or forwarded (tons)	4,896,333	70%
Total tonnage	6,968,911	100%
Average total cars in each train	66.2	100%
Average loads	41.4	63%
Average empties	24.8	37%
Average tons per load		45.7

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MONON TRAFFIC, 1970

Category	Tons	%
Bituminous coal	1,340,514	19%
Industrial chemicals	429,461	6%
Abrasives, asbestos, etc.	418.436	6%
Sand and gravel	329,593	5%
Crushed stone	296,357	4%
Fertilizers	262,796	4%
Soybeans and associated products	257,508	4%
Cement	240,218	3%
Paperboard, etc.	237,840	3%
Lumber	212,699	3%
Paper	210,652	3%
Corn	182,556	3%
All other commodities	2,550,281	37%

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June 19, 2023

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SUMMARY

 Cars most likely reloaded toward the home road include: General service (unequipped) boxcars

- General service (unequipped) gondolas
- General service (unequipped) flatcars Hopper cars

 For your model railroad, do a little research: Industries and commodities Traffic patterns and flows Connecting railroads Train operations Equipment rosters and assignments

Remember Rule Number 1 – it's YOUR railroad! HAVE FUN!

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RESOURCES

- The Interwebs
 NMRA OpSIG and The Dispatcher's Office
- Employee timetables, dispatcher sheets and train consists
- Traffic data, tariffs and industry guides
- Equipment rosters and car assignment guides
- Standard Transportation Commodity Code
- The Official Guide to the Railroads ("Official Guide")
 Official Railway Equipment Register ("ORER")
- Switching guides and car inventory booklets
- Track maps and valuation maps ("val maps")
- Annual reports and statistical supplements
 Employee interviews

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