

# Modelers Guide to



**Part 2**

## Using Timelines to Select Eras & Focus Your Modeling



**By John Burchnall**

# Why Use Timelines?

- **Offer guidance in deciding which era and locale to model**
- **Help focus your modeling and purchases**
- **Add interest and uniqueness**
- **Doesn't matter if “anything goes” on your model railroad**

# Typical Modeler Q's

- **What era and locale to model?**
- **Which railroads existed then?**
- **Which railroads to model?**
- **What locos and cars existed?**
- **What other technologies and icons are valid for your era?**
- **Where to find all this info?**

# Timelines **Part 1**

- **Rail Eras, Safety & Regulatory**
- **Railroad Technology Changes**
- **Steam Locomotives**
- **Automobile Companies**
- **Gas Stations / Oil Companies**
- **Road Signs & Markings**
- **Hamburger Chains**

# Timelines **Part 2**

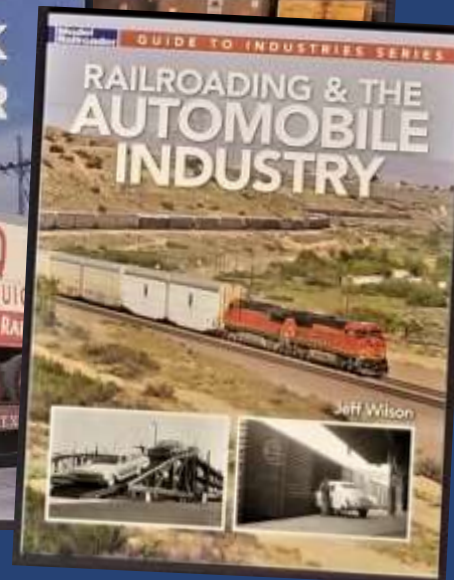
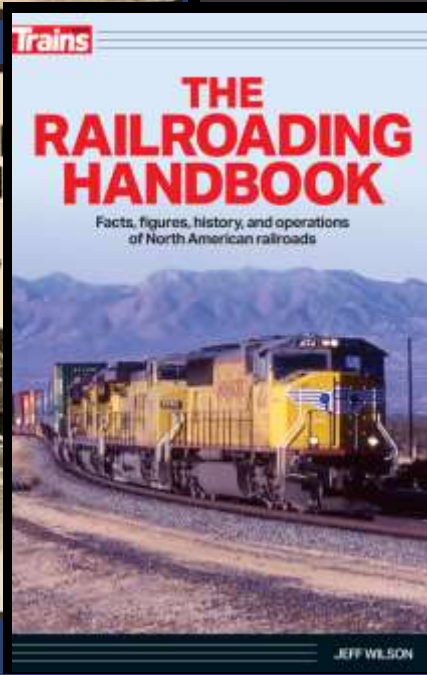
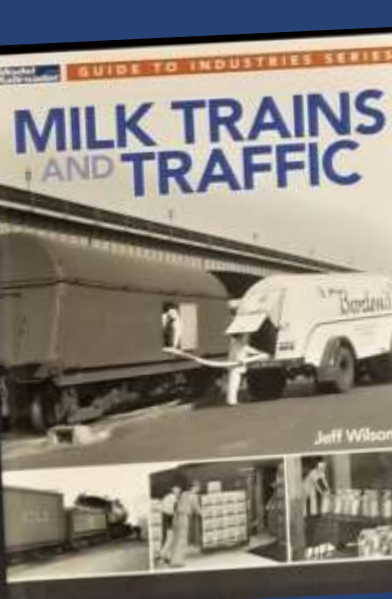
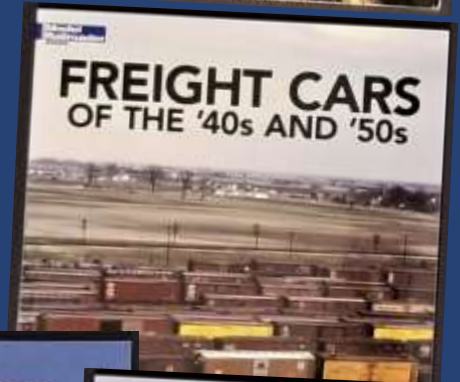
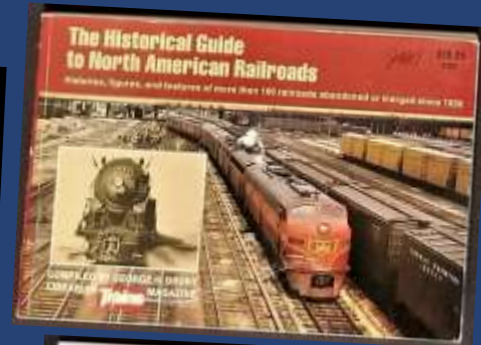
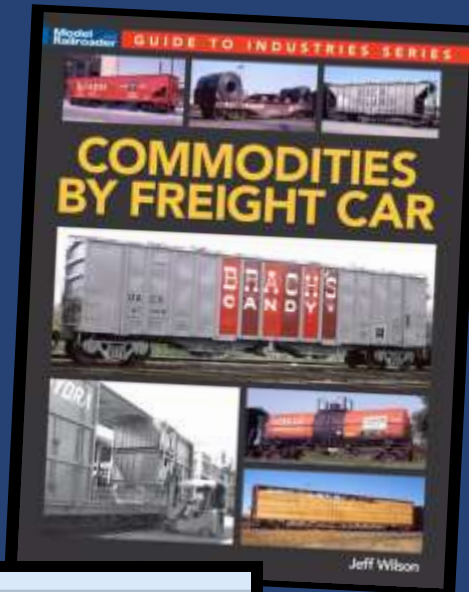
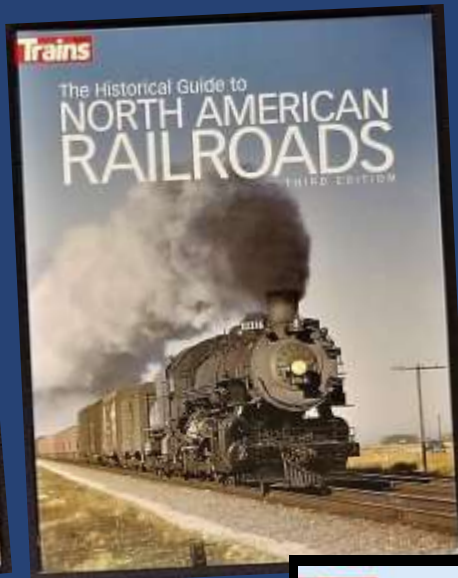
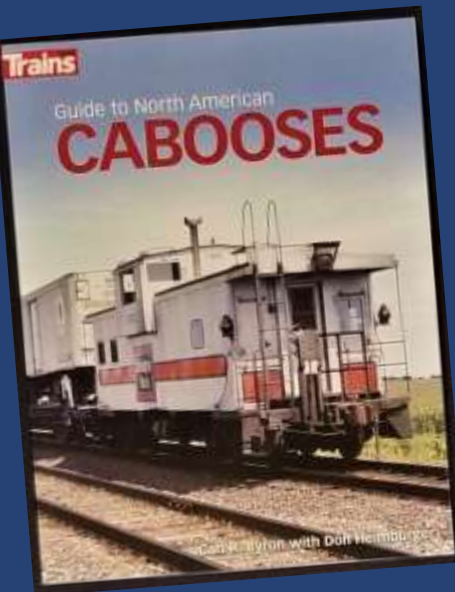
- **Railroad Maps & Mergers**
- **Diesel & Electric Locomotives**
- **Railroad Bridges & Trestles**
- **Farm Tractors**
- **Soda Bottles and Advertising**
- **Grocery Stores & Trading Stamps**
- **Other Study Areas**

# Information Sources

**This work includes comprehensive original schematic visual presentations of historic events and interactions across timelines for a number of subject categories. The analyses, comparisons, derivations, modeling aids, enhancements and new representations and insights of these matters are by the presenter. Heralds, logos and graphical images from 3<sup>rd</sup> parties are used here under fair use doctrines for educational and research purposes. Data sources include -**

- Wikipedia**
- Kalmbach Magazines & Books**
- NMRA Data Sheets (current & archived)**
- Other Internet Sources**

# Kalmbach References



# Timeline Trivia Q's

2

- **When did the modern rail merger era start?**
- **Which NA railroad is “tri-continental”?**
- **What was Alco’s most popular diesel loco?**
- **How many turbine designs have been tried?**
- **Which bridge types dominate railroading?**
- **What drove steel replacing iron in bridges?**
- **Which farm tractor co. dominated most yrs?**
- **How many farm tractor co’s in NA today?**
- **When was the iconic coke bottle designed?**
- **When were trading stamps most popular?**

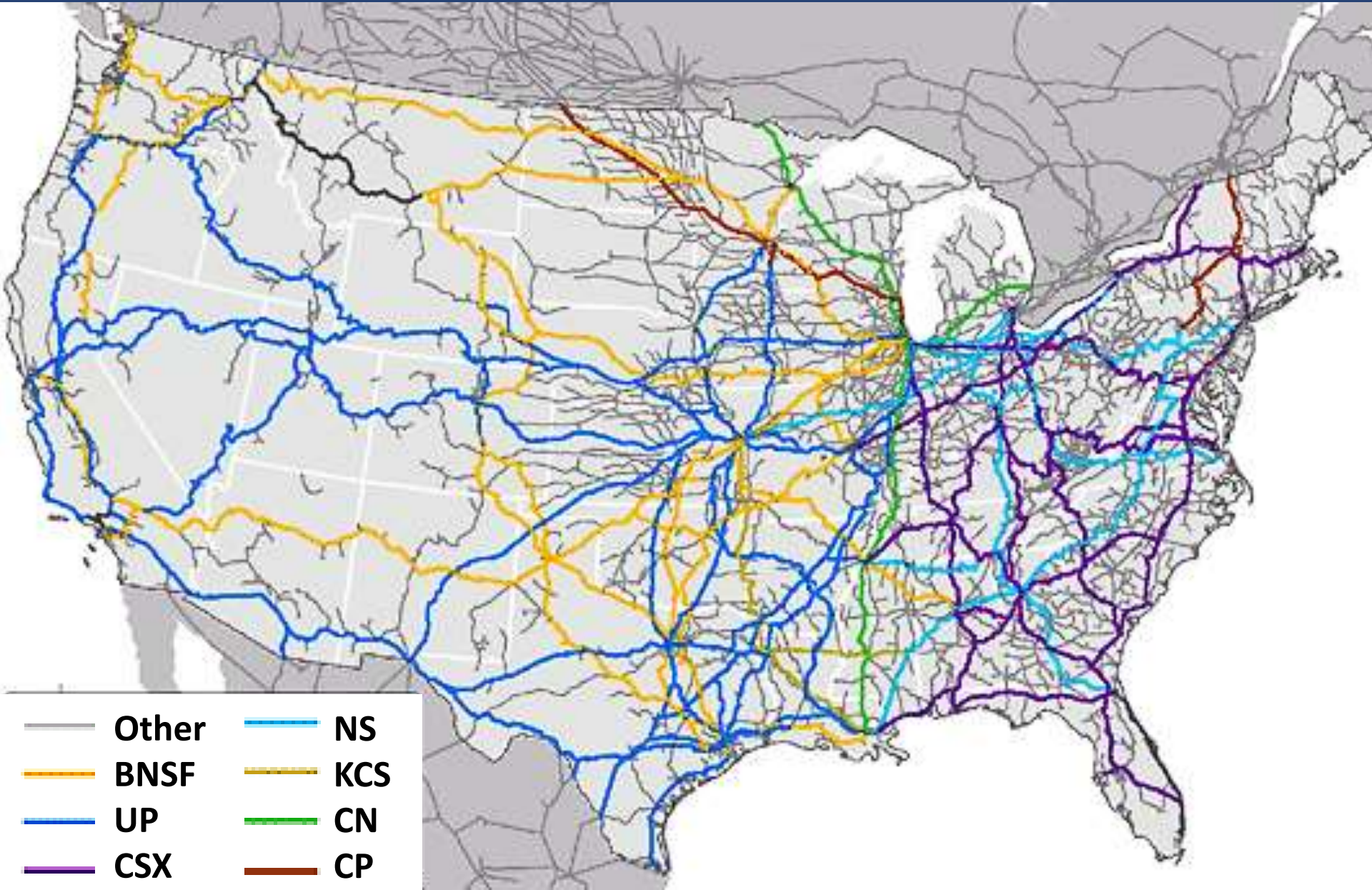


# Timelines

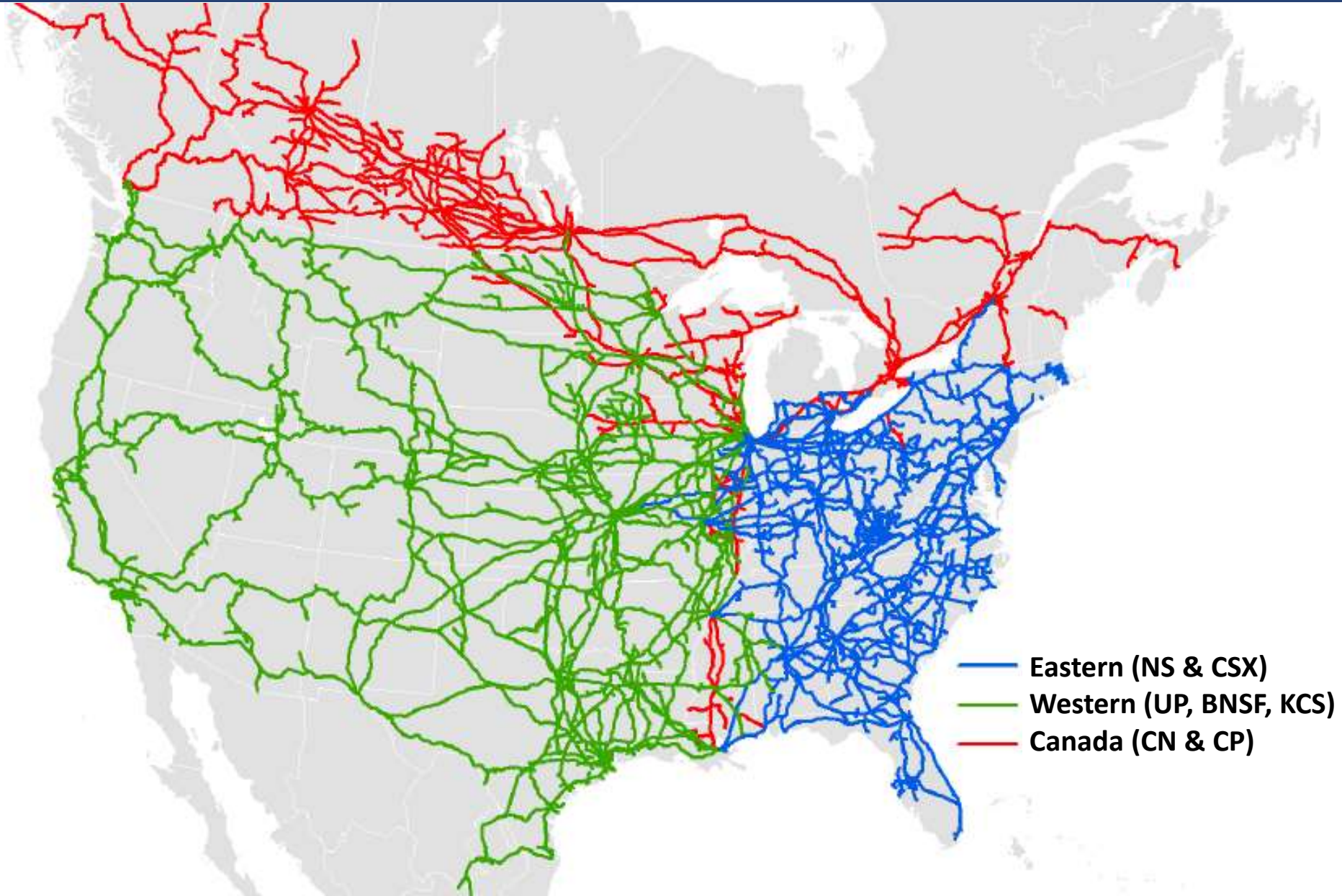
## Part 2

- **Railroad Maps & Mergers**
- **Diesel & Electric Locomotives**
- **Railroad Bridges & Trestles**
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# North America RRs Today



# Regional Groupings?



# Mega Railroad Systems

**East**



- Penn Central/Conrail, CSX, NS

**West**

- BNSF, UP



**North & Central**

- CN, CP, KCS



# Modern Merger Era

## Modern Merger Era began 1959/60

- 1959 Virginian → N&W
- 1959 Charleston & Western Carolina → ACL
- 1960 Erie + Delaware Lackawanna & W. = EL
- 1960 Minneapolis & St. Louis → C&NW
- 1960 Duluth South Shore & Atlantic → SOO Line

## Notable Pre-1959 Acquisitions

- 1947 Pere Marquette → C&O
- 1947 Denver & Salt Lake (Moffat Rd) → D&RGW
- 1947 Alton Road → Gulf Mobile & Ohio
- 1951 Savannah & Atlanta → Central of Georgia
- 1957 Nashville Chattanooga & St. Louis → L&N

# **NA Railroad Mergers**

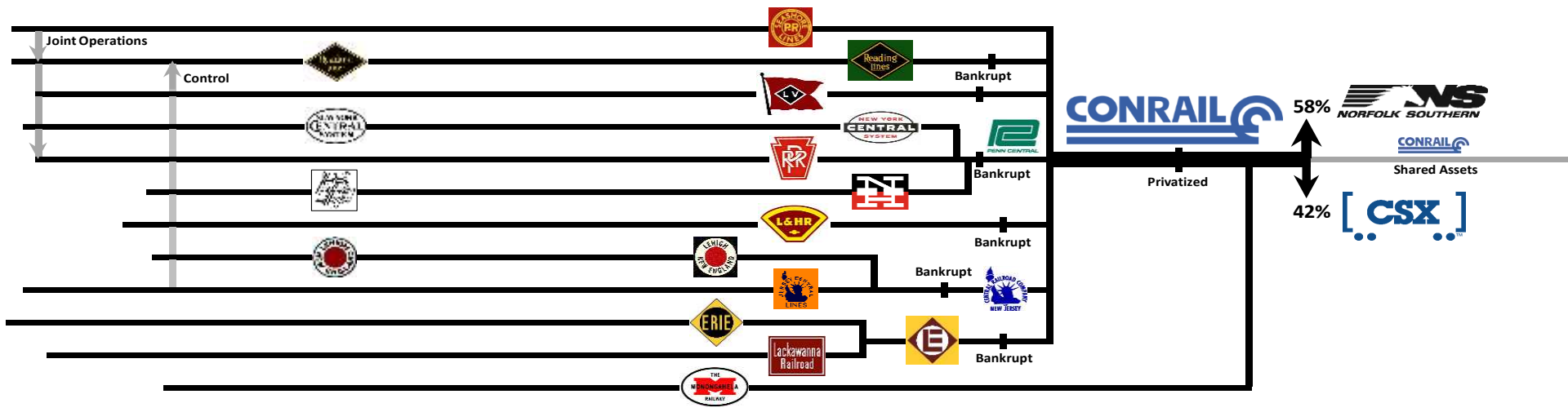
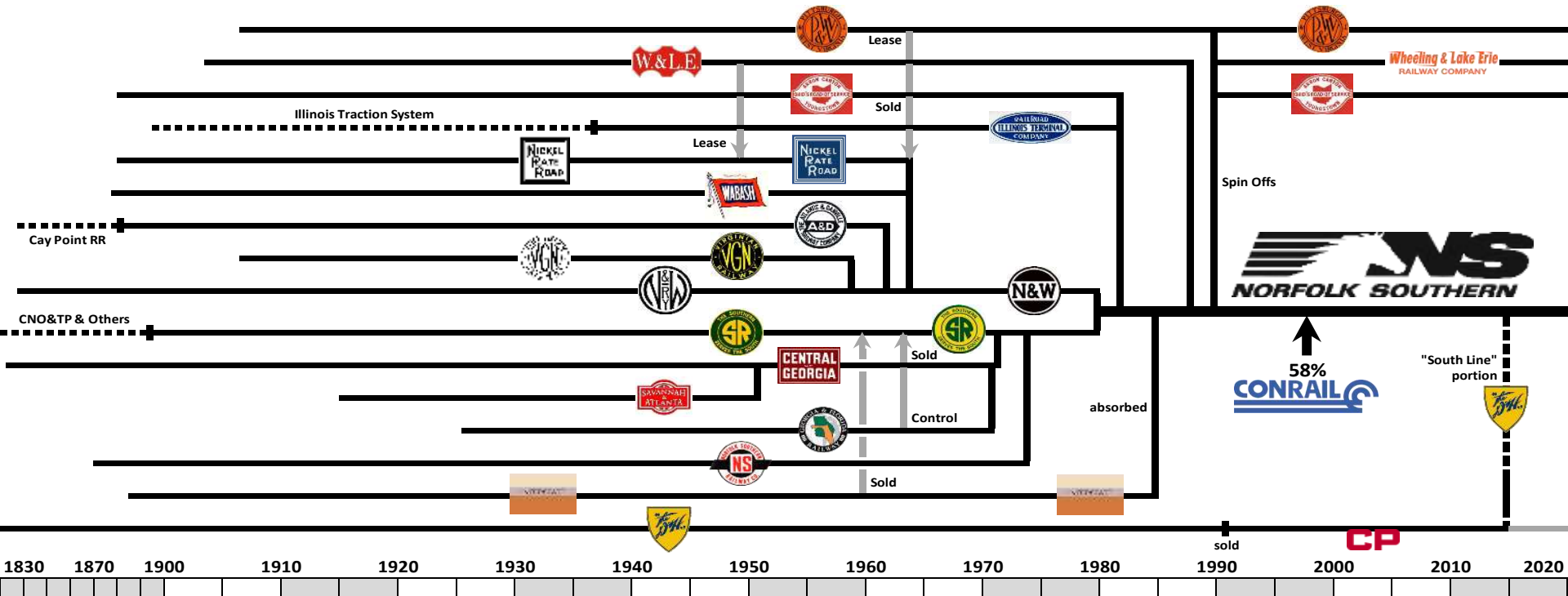
## **Full Timelines**

**Two Systems per Page**

**Four Pages Total**

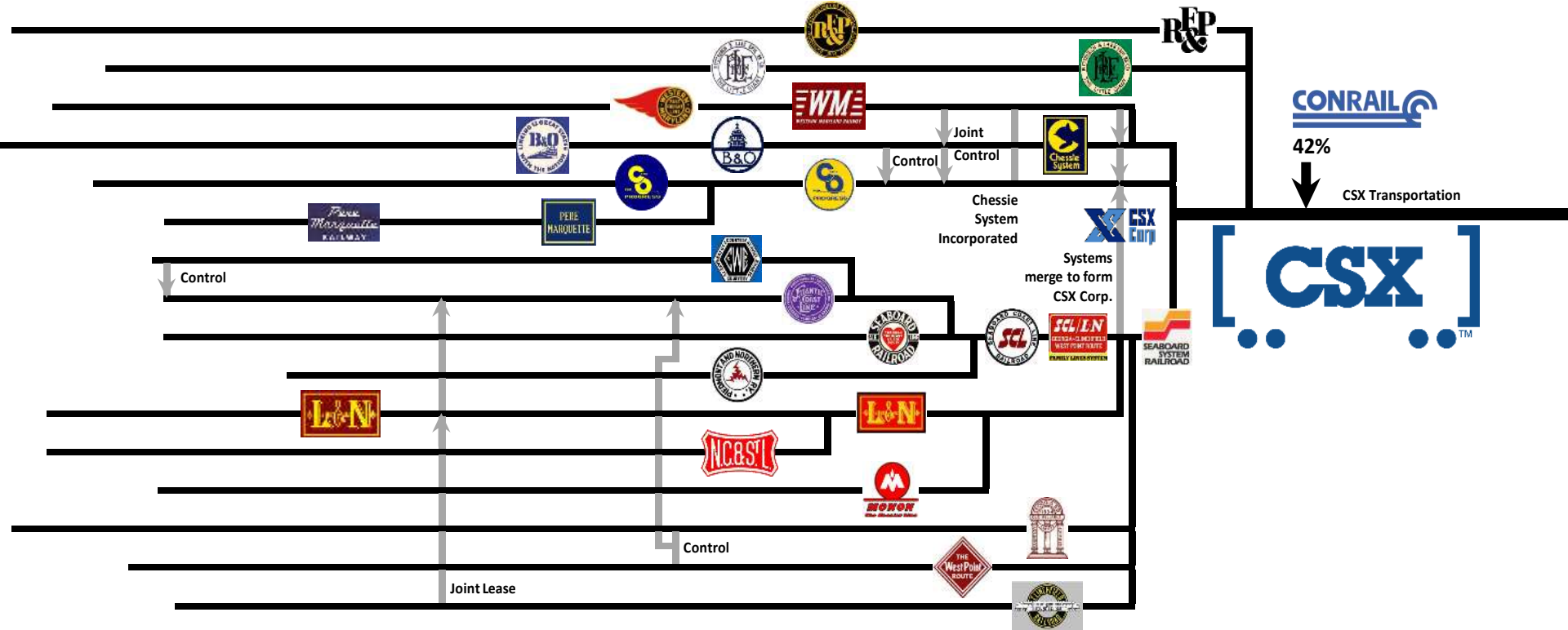
**Small Print (Reference Only)**

# NS and Conrail



# CSX and KCS

1830 1870 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

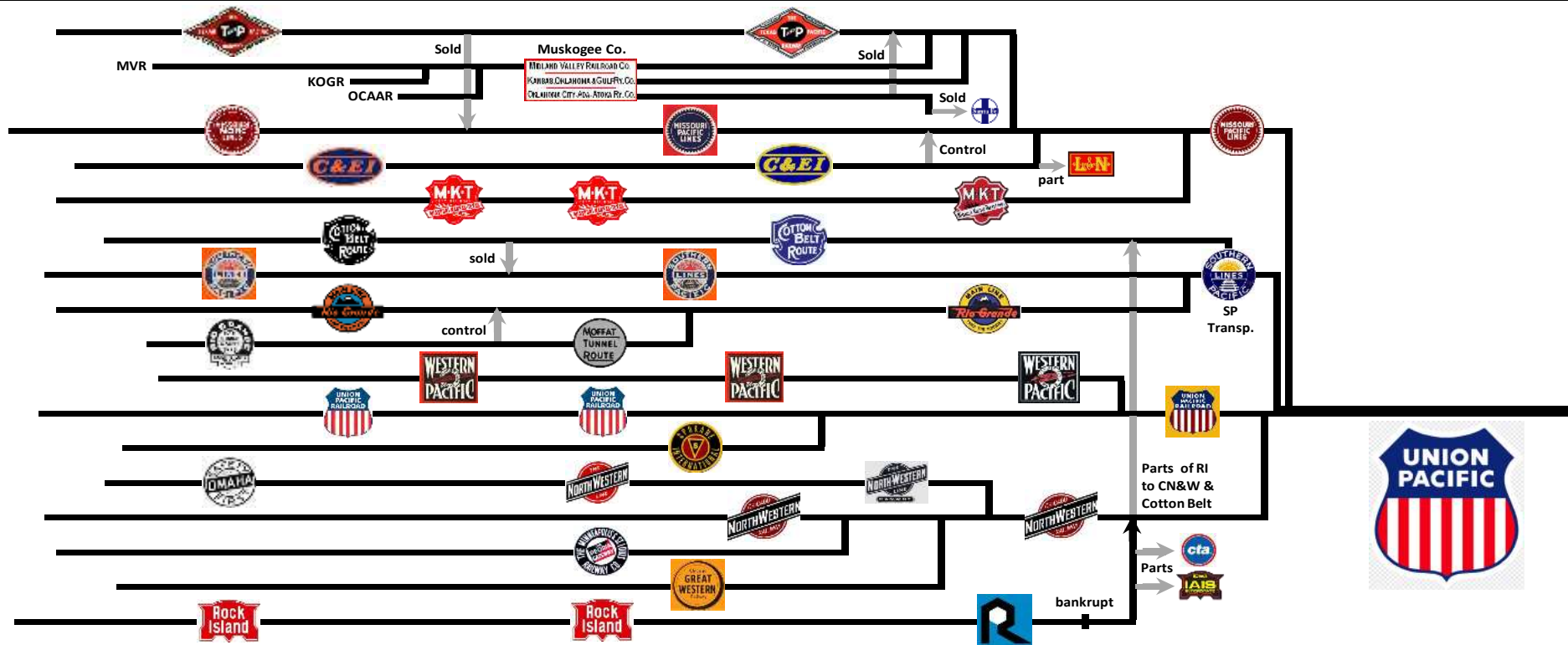
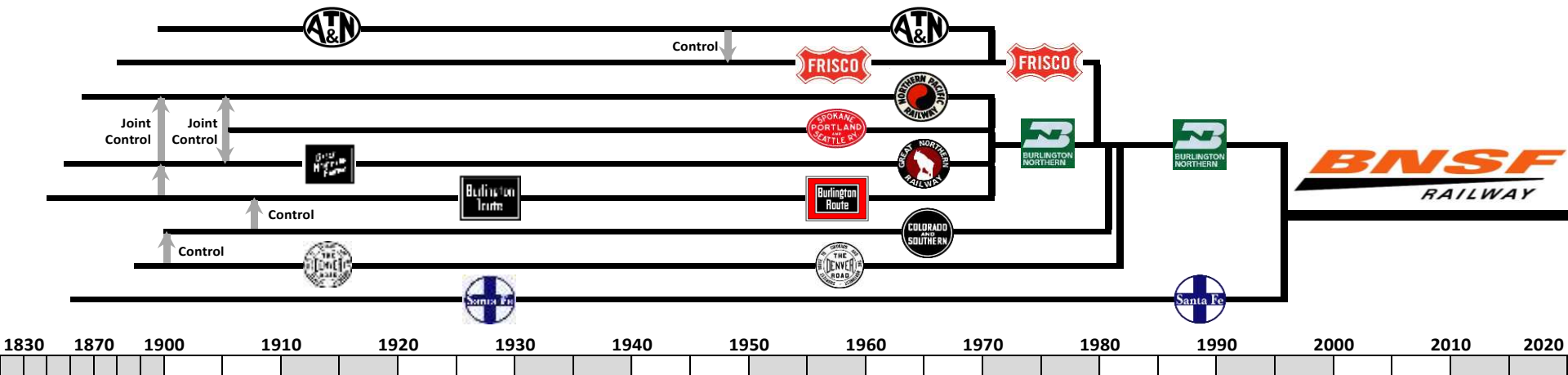


1830 1870 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

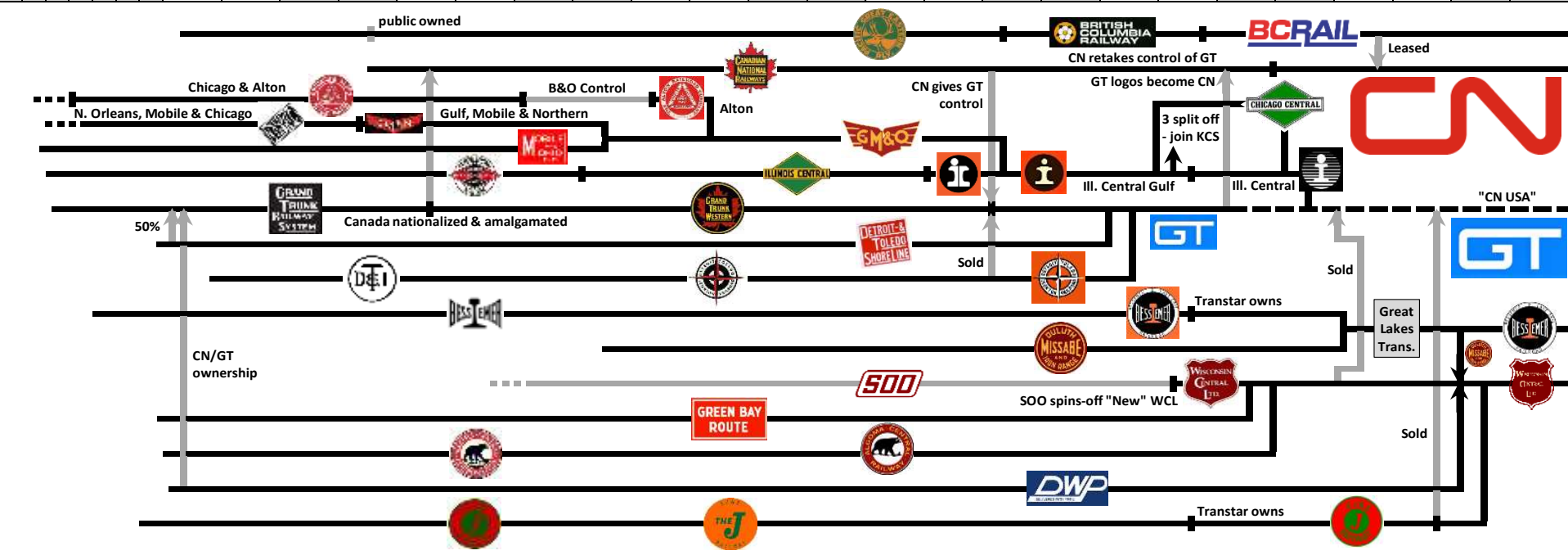
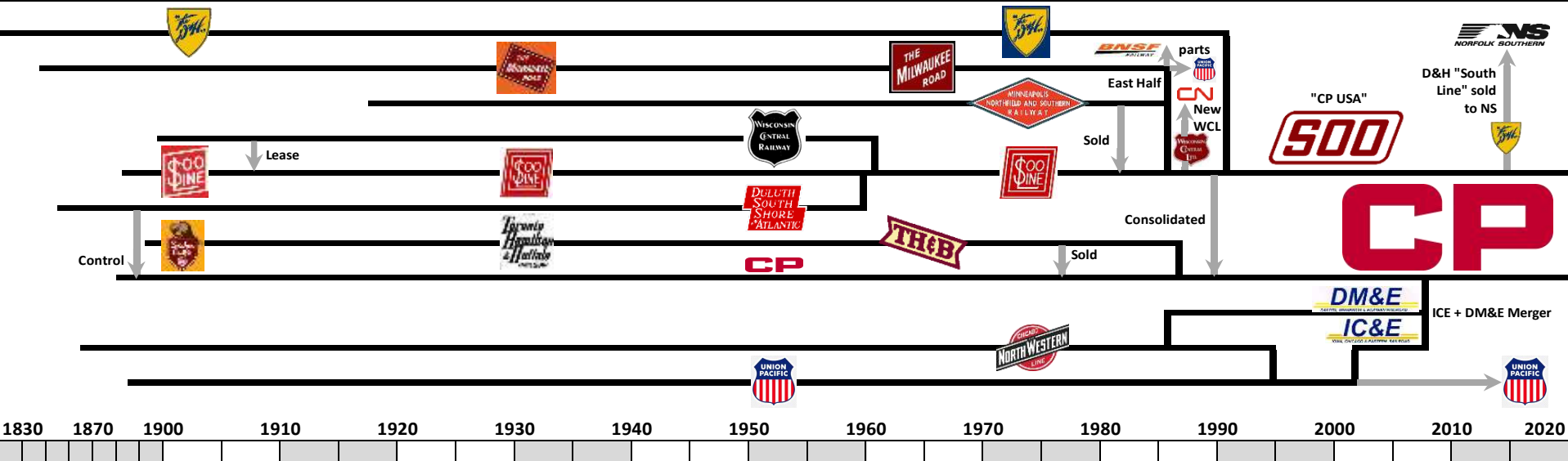




# BNSF and UP



# CN and CP



# **NA Railroad Mergers**

## **Zoomed Timelines**

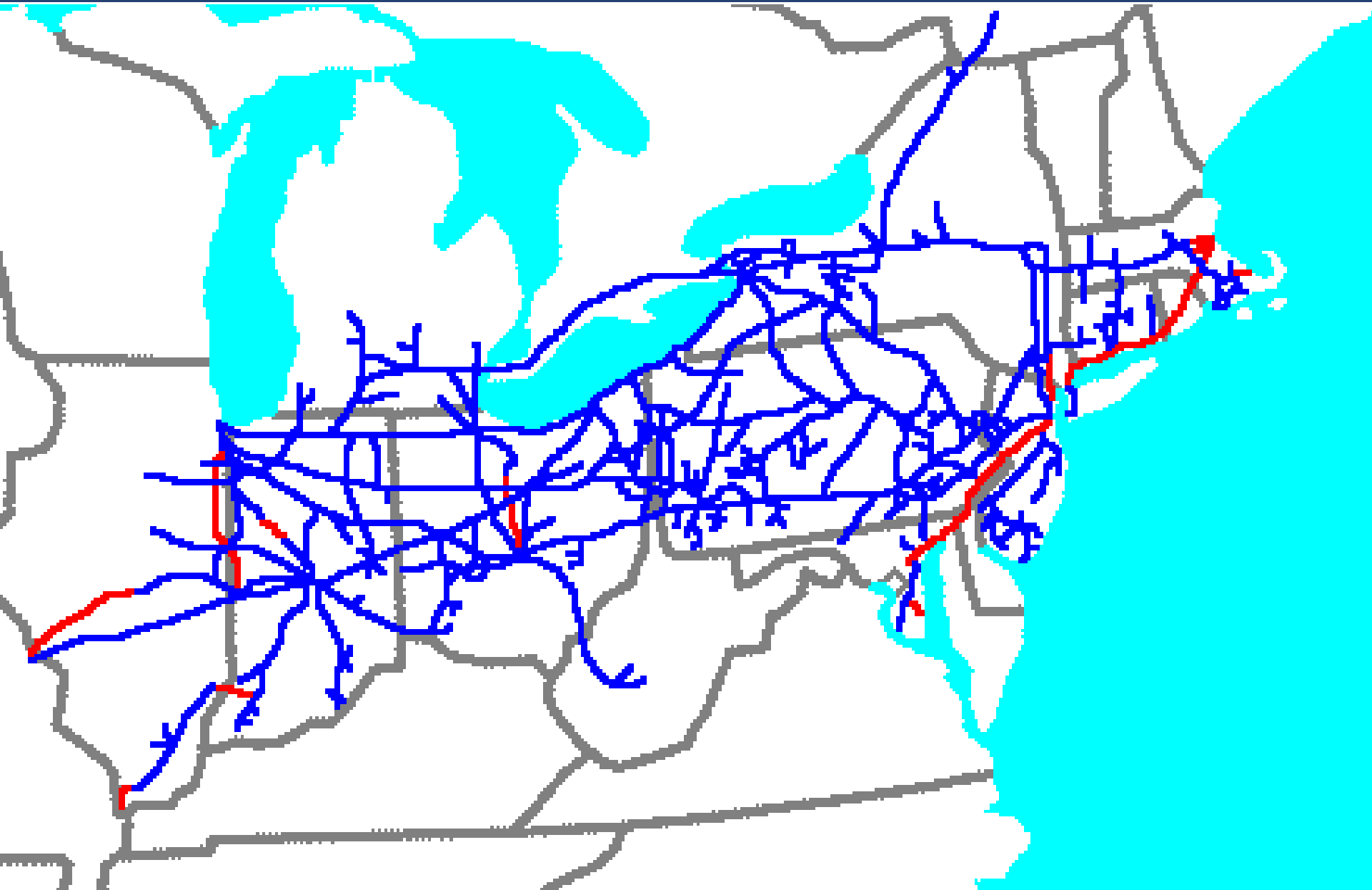
**Active Merger Years**

**One System per Page**

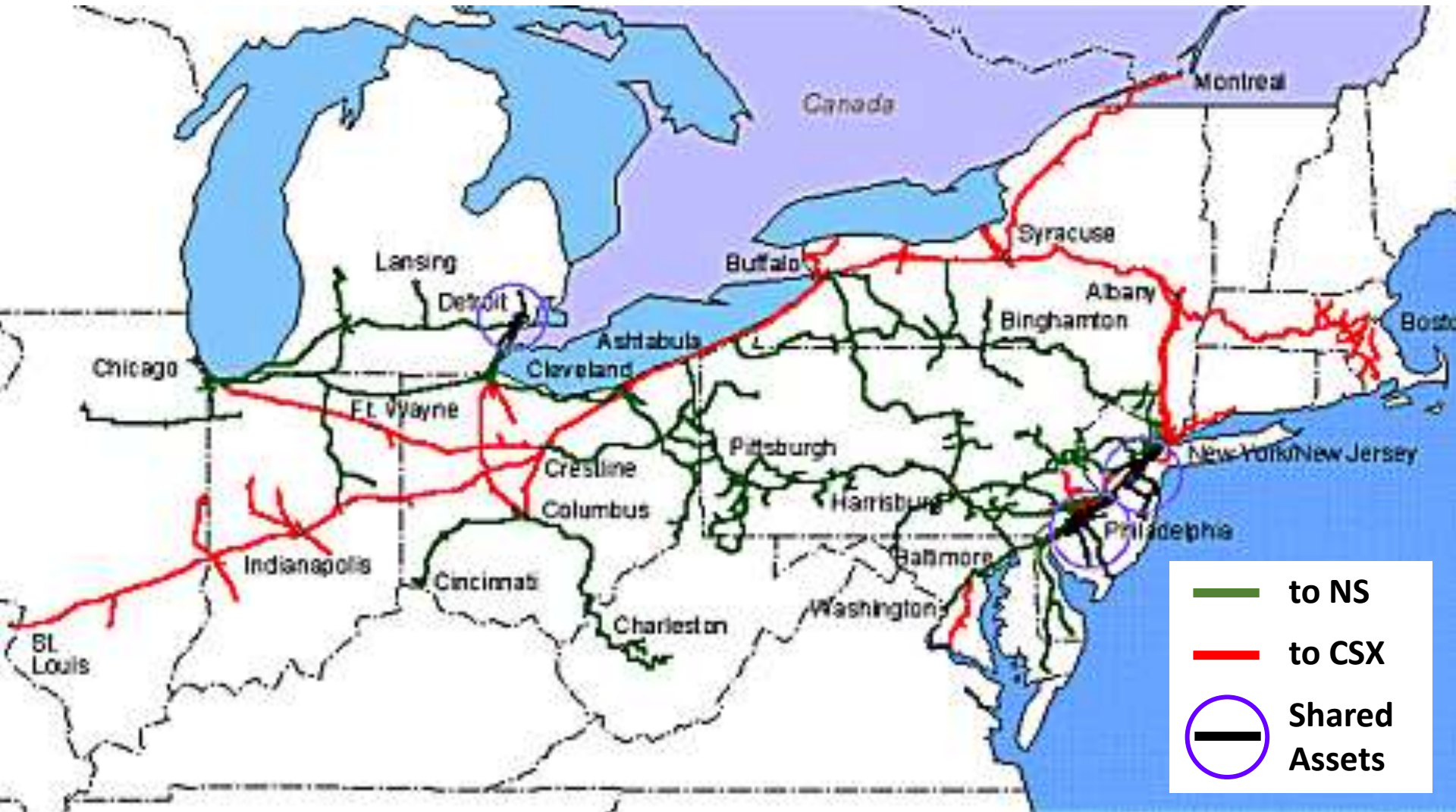
**8 Timelines and 9 Maps**

**Most Useful for Modeling**

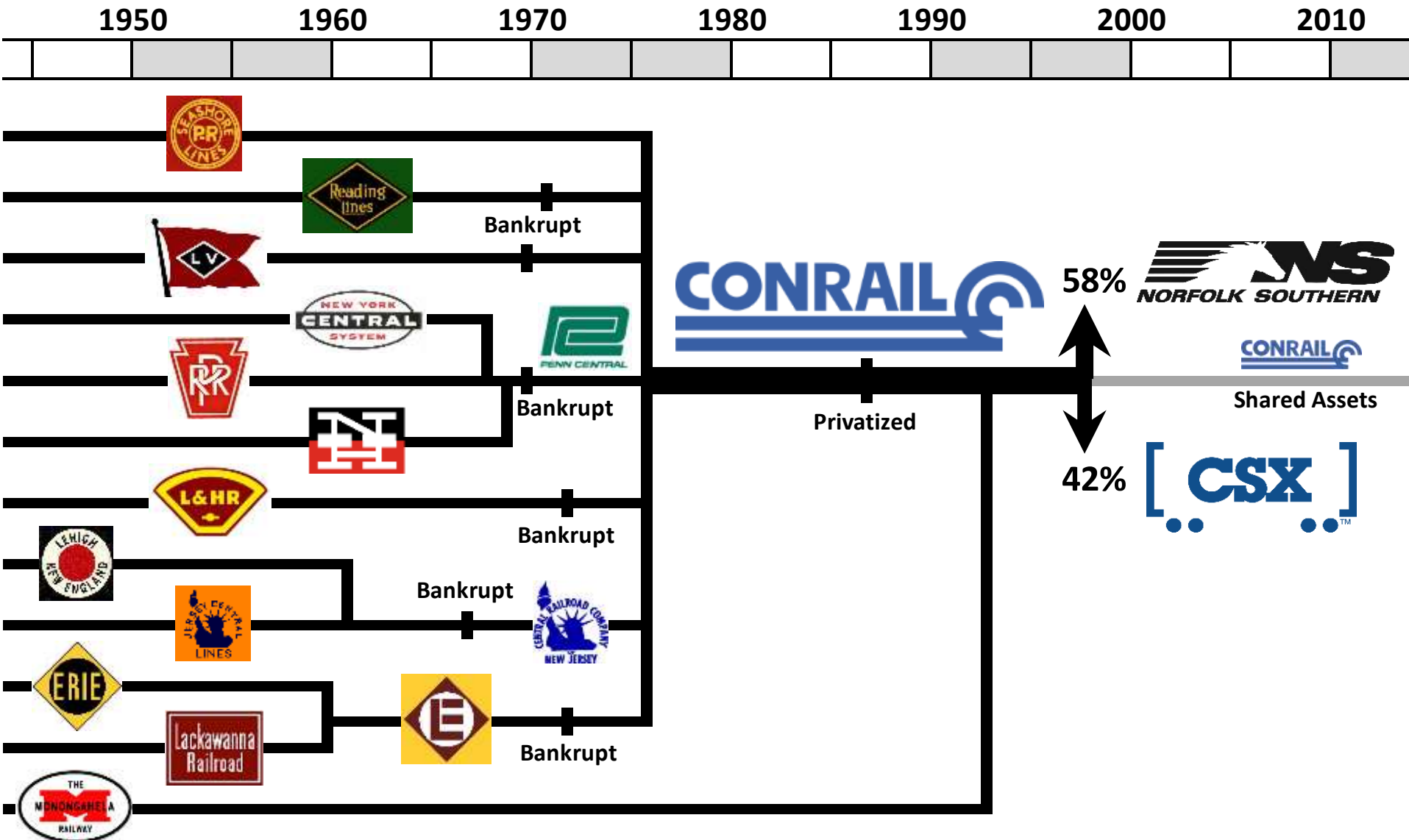
# Conrail 1976-1998



# Conrail Breakup



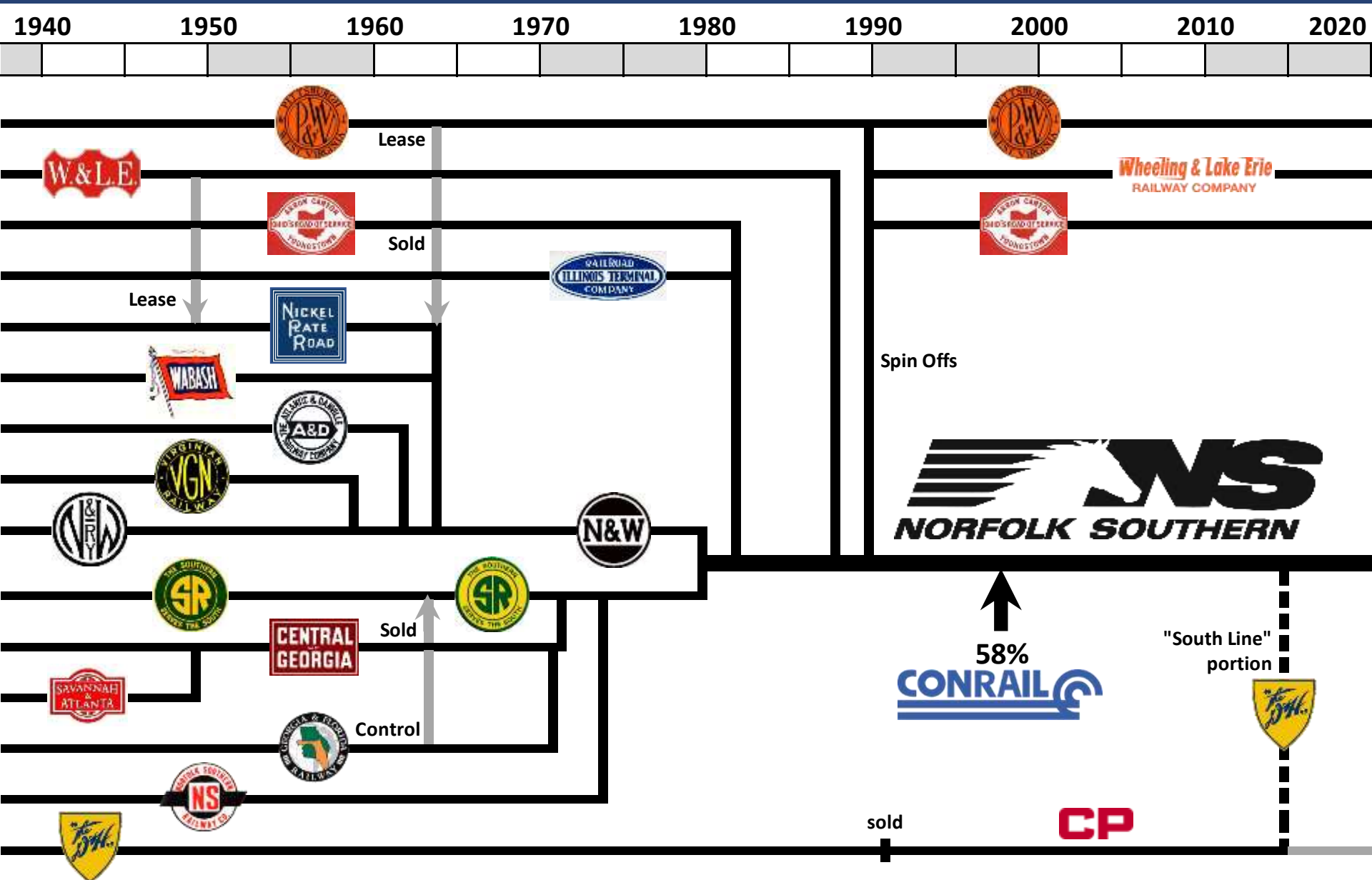
# Conrail History



# Norfolk Southern



# Norfolk Southern History

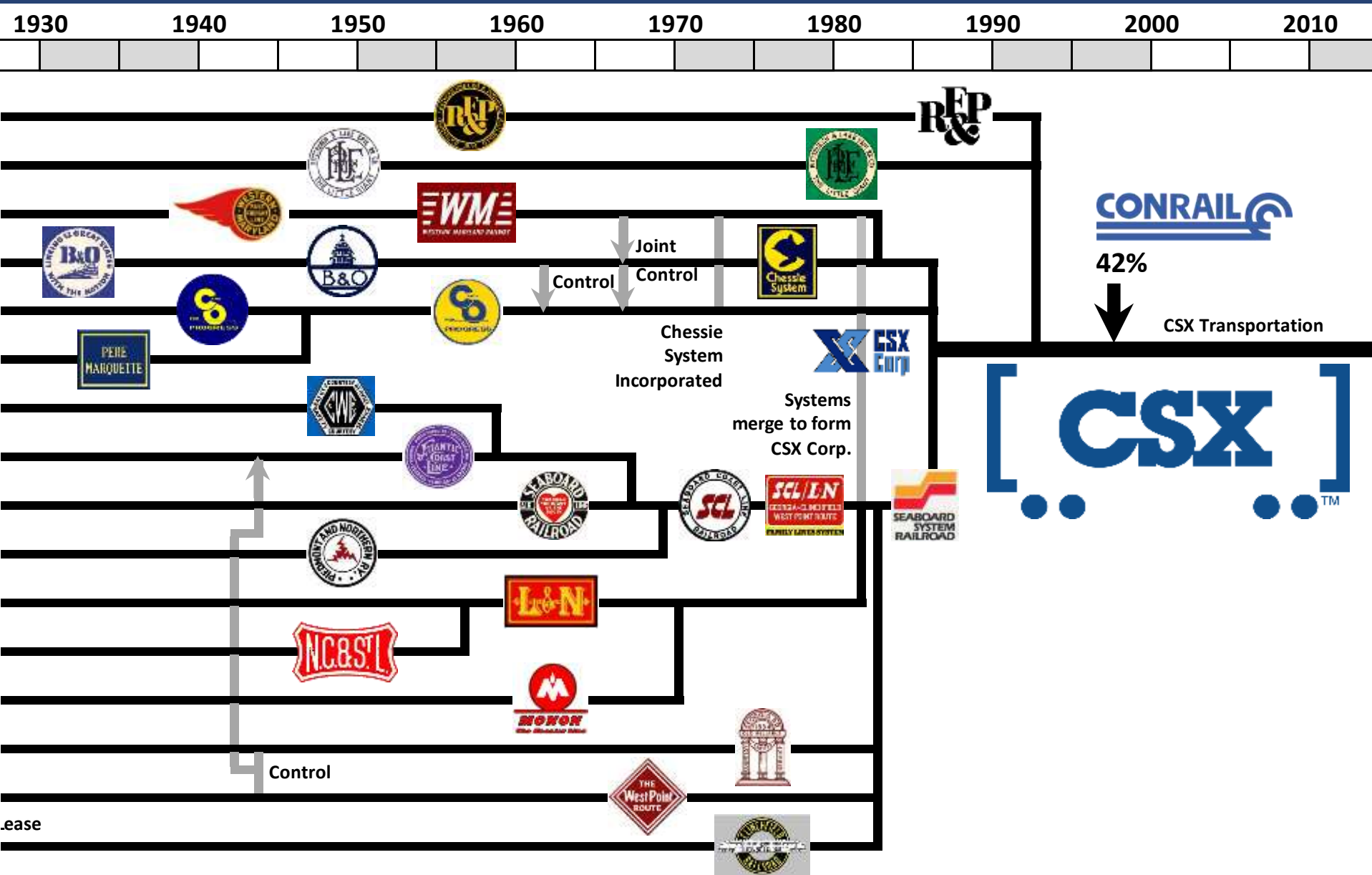




# CSX



# CSX History



# Burlington Northern Santa Fe



# BNSF History

1960

1970

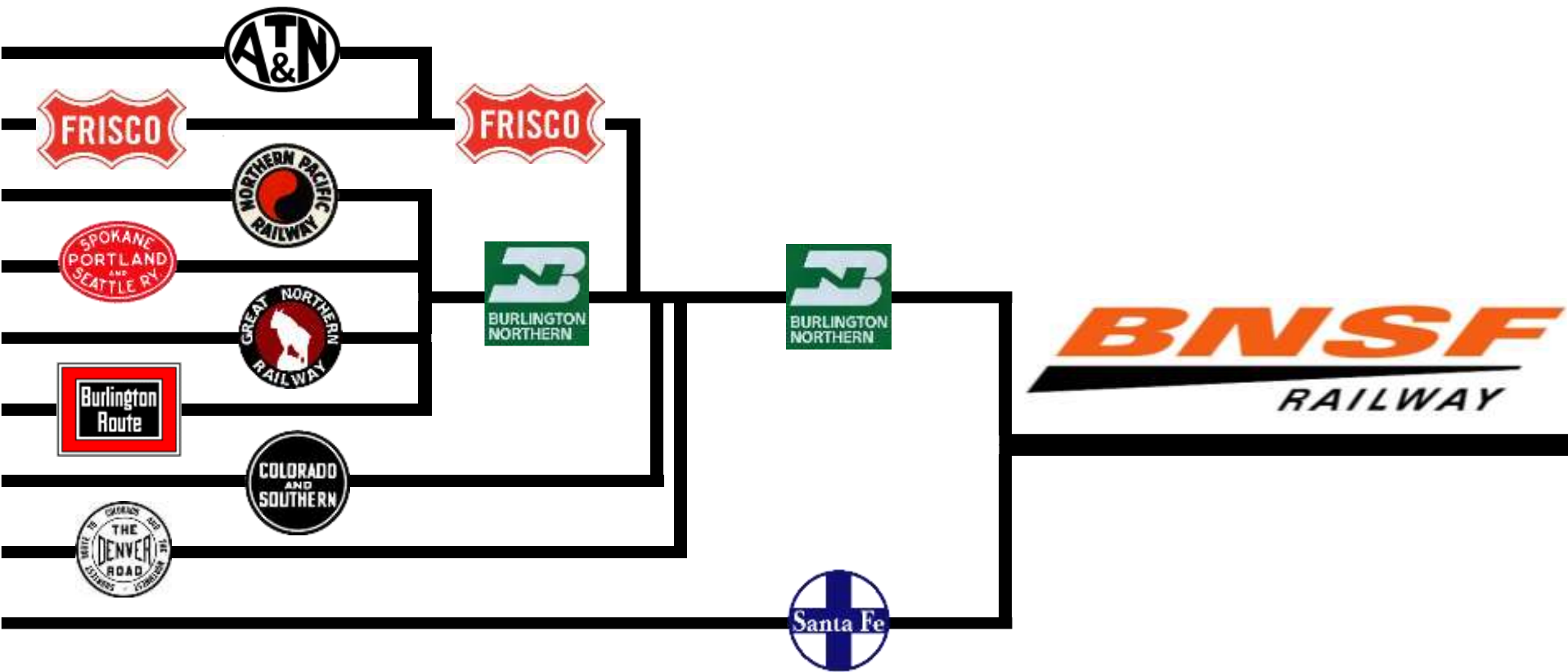
1980

1990

2000

2010

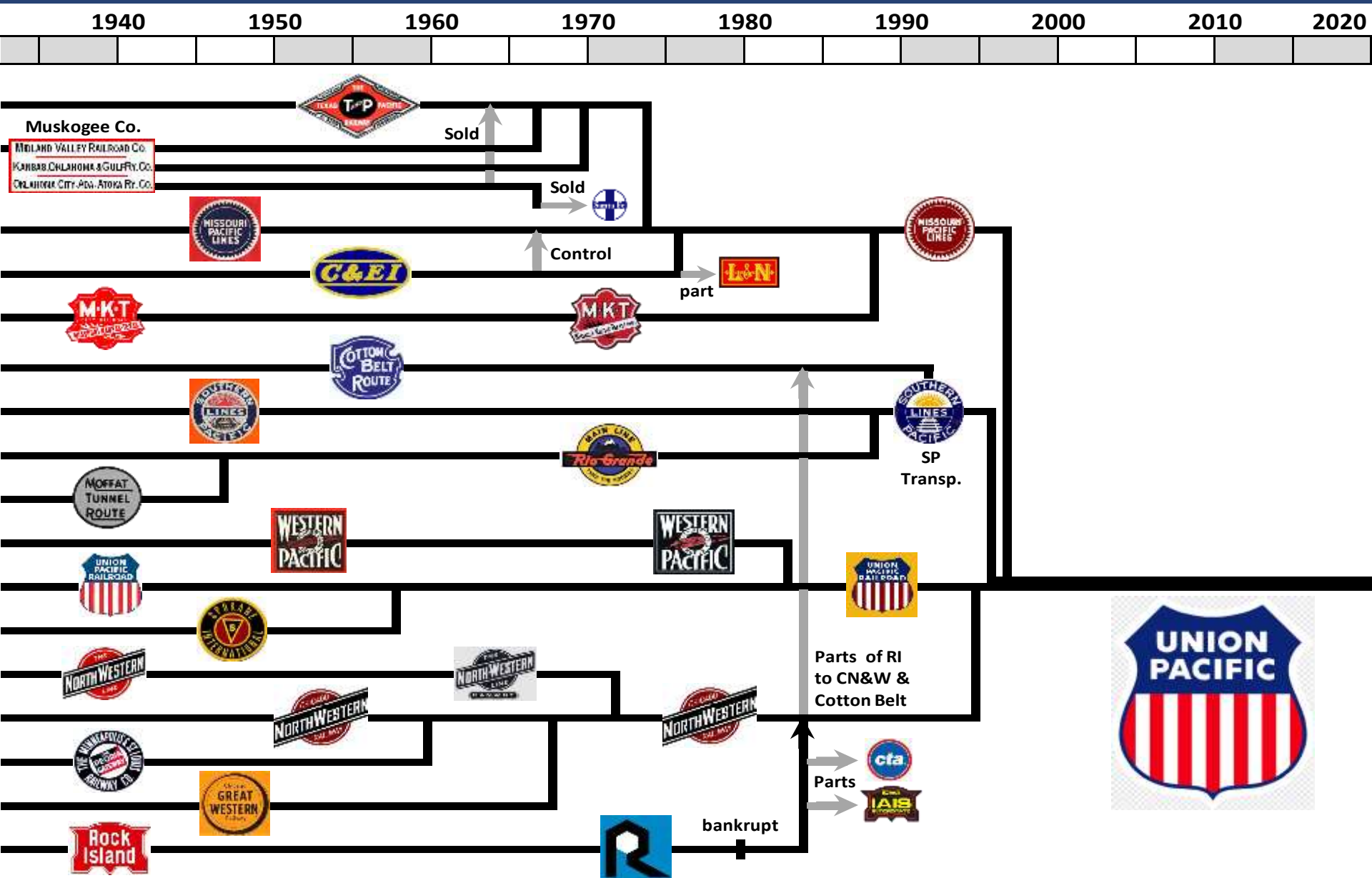
2020



# Union Pacific



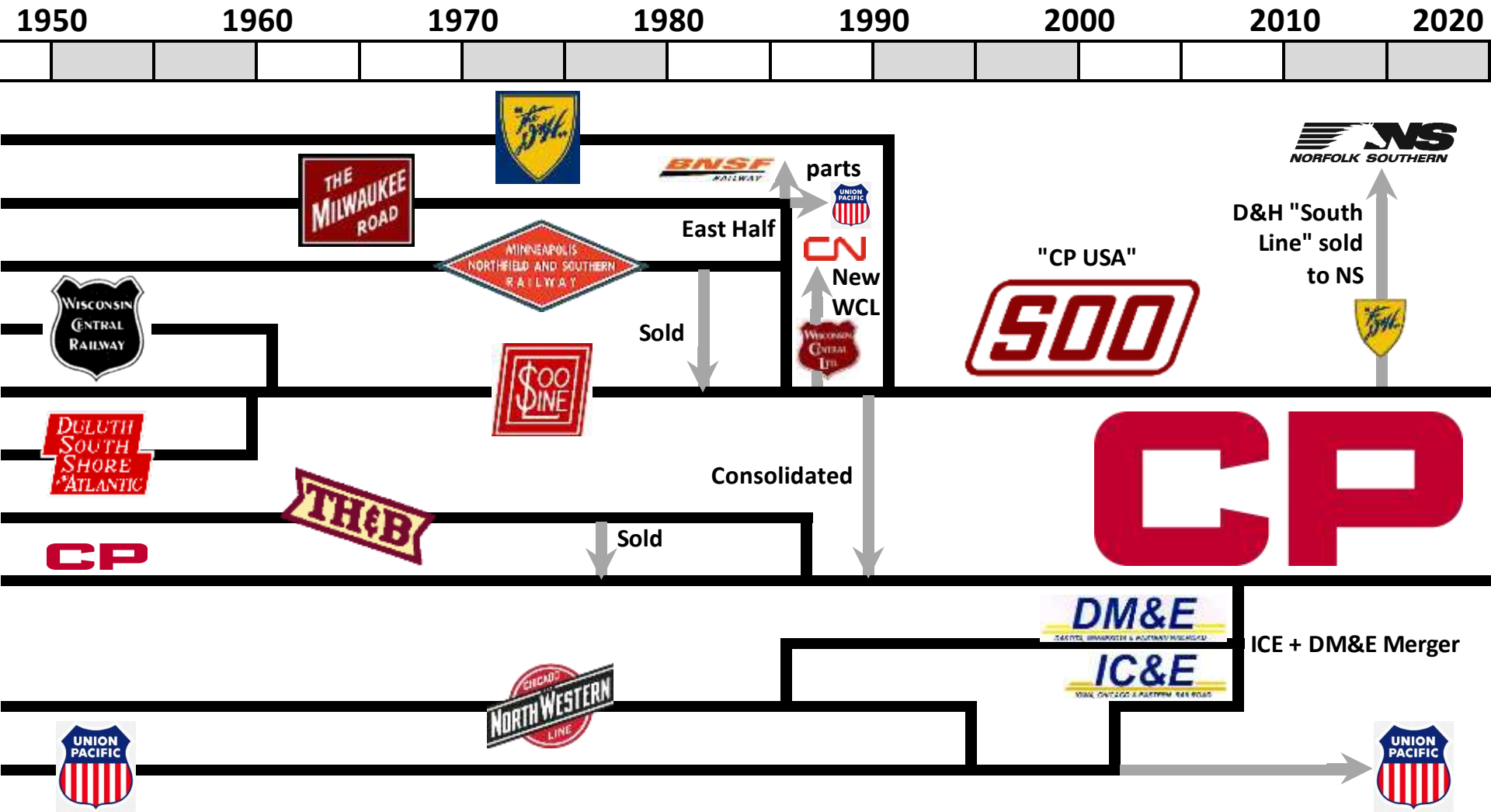
# Union Pacific History



# Canadian Pacific



# CP / SOO History





# Canadian National

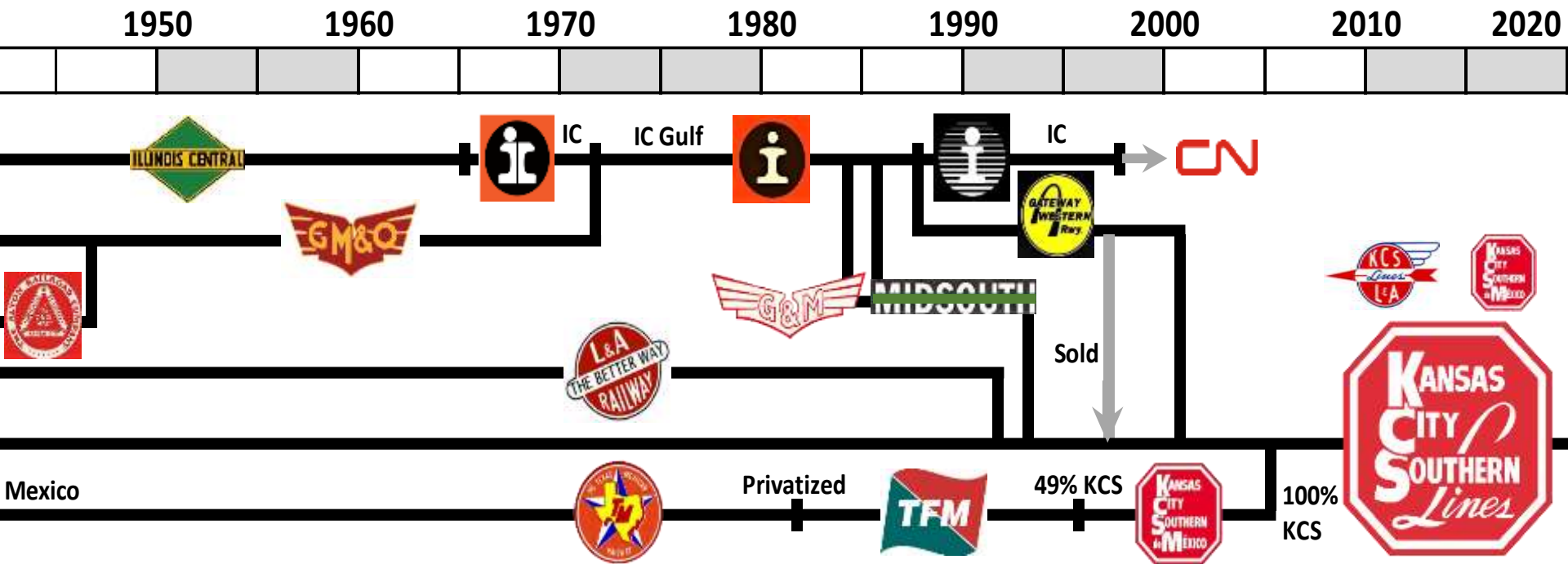




# Kansas City Southern



# KCS History



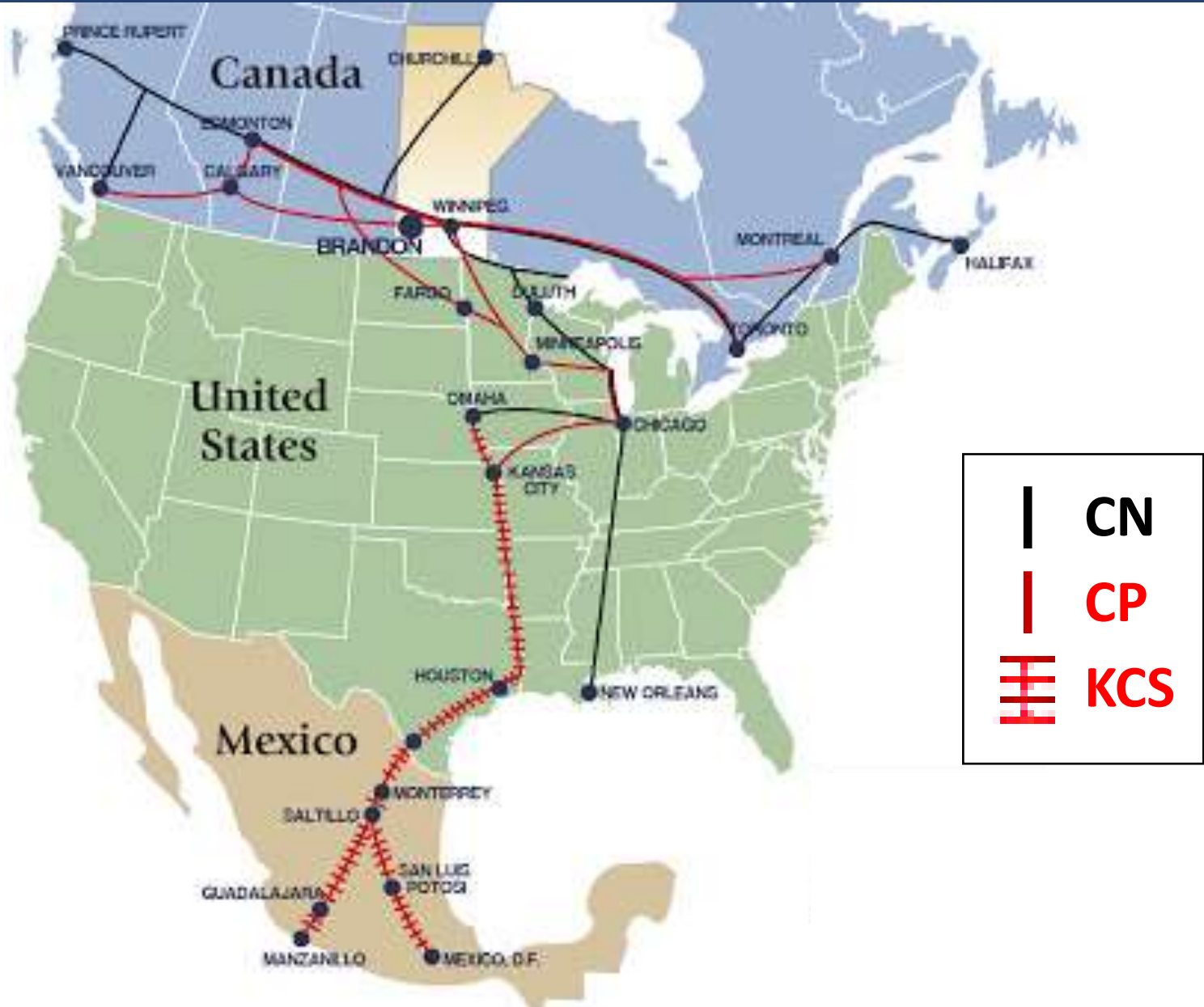
# Merger Observations

- **Some mega RRs have complex lineage**
- **Identities complicated by leasing, control, ownership, absorption**
- **1976-1998 Conrail monopoly in NE**
- **Mega mergers occurred first within East and also at BNSF**
- **CN, CP, UP big merges happened later**
- **Soo = CP's "agent" in USA**
- **GT = CN's "agent" in USA**

# Merger Observations

- **Portions of dissolved Rock Island and Milwaukee ended up in other roads**
- **Many multi-RR locations - making great modeling subjects**
- **KCS solvent due to ownership of best rail link into Mexico**
- **CN spans 3 coasts, including North-South in Mid-America**
- **CP &/or CN with KCS would create an interesting Mexico/Canada/USA line**

# CN, CP and KCS



# Shortlines & Regionals

**Could also plot timelines and maps for shortlines and regionals, such as -**

- **Genesee & Wyoming**
- **PanAm Railways**
- **Rail America**
- **RJ Corman**
- **Watco**



# Timelines **Part 2**

- **Railroad Maps & Mergers**
- **Diesel & Electric Locomotives**
- **Railroad Bridges & Trestles**
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- **Other Study Areas**

# Diesel & Electric Locos

- Fairbanks-Morse/CLC



- Baldwin/CLC



- Lima-Hamilton



- ALCO/MLW/Bombardier

**BOMBARDIER**



- GE/Wabtec



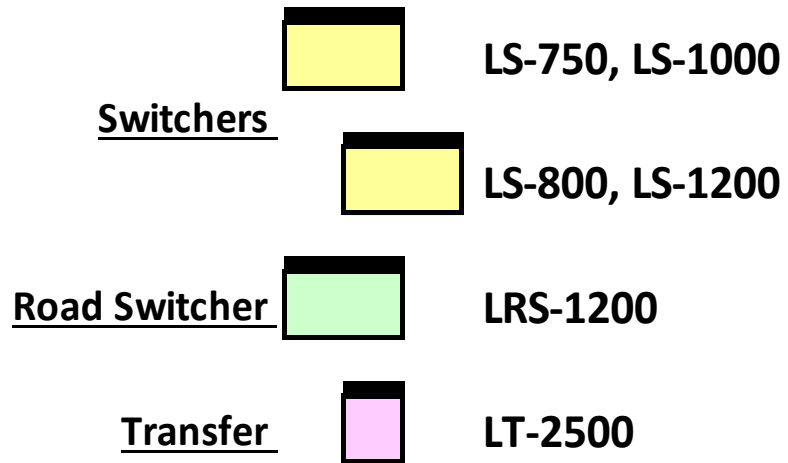
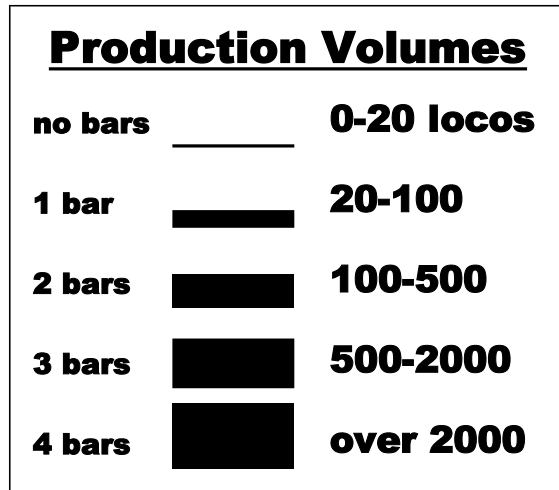
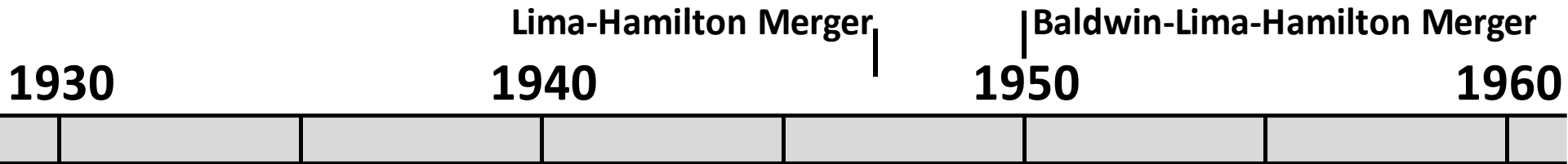
- GM/EMD/Progress Rail



- Other



# Lima – Hamilton



**Too little, too late – Lima began diesel loco program in 1947 by merging with engine maker Hamilton with their turbo-charged 6 to 8 cylinder in-line diesel, then both merged in 1950 with Baldwin to try to survive**

# Baldwin Locomotive Works

Baldwin-Lima-Hamilton Merger

1930

1940

1950

1960

## Nomenclature

AAX-Y-ZZ, where ...

X = Number of Axles

Y = Number of Powered Axles

ZZ = Hundreds of Horsepower

## Production Volumes

no bars \_\_\_\_\_ 0-20 locos

1 bar \_\_\_\_\_ 20-100

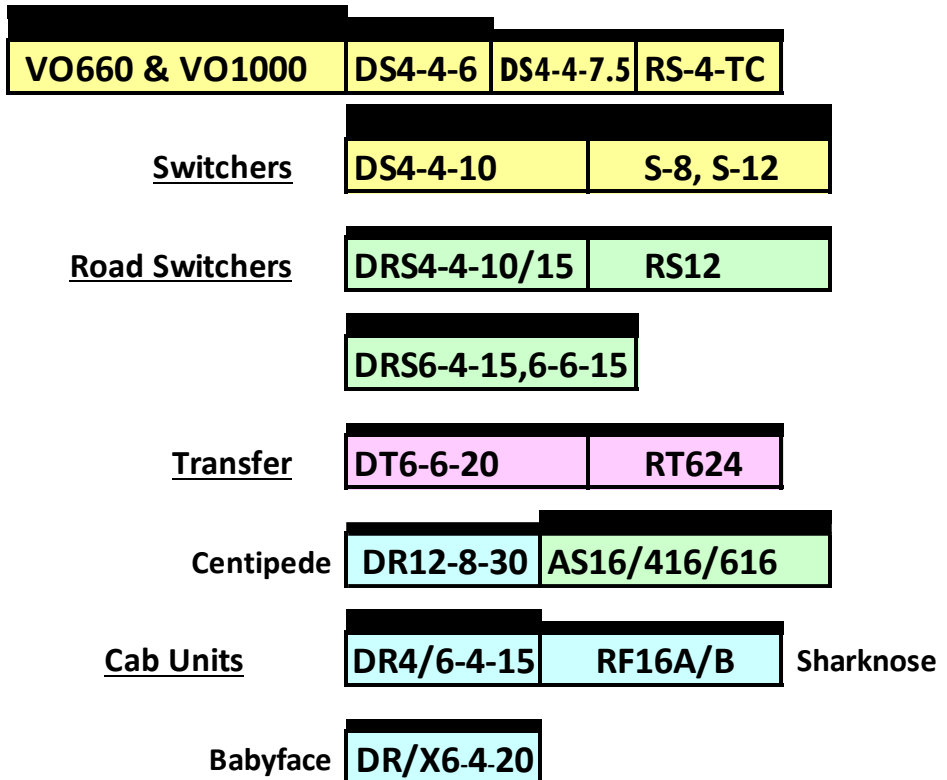
2 bars \_\_\_\_\_ 100-500

3 bars \_\_\_\_\_ 500-2000

4 bars \_\_\_\_\_ over 2000

660hp 

900hp 



**BLW made small gas mech. locos from 1910-1938, then with Westinghouse until 1953 to build diesel-elecs (GE thereafter), using 6-8 cyl. turbo and non-turbo De La Vergne marine diesels**

# Fairbanks – Morse

1930

1940

1950

Ends USA Sales

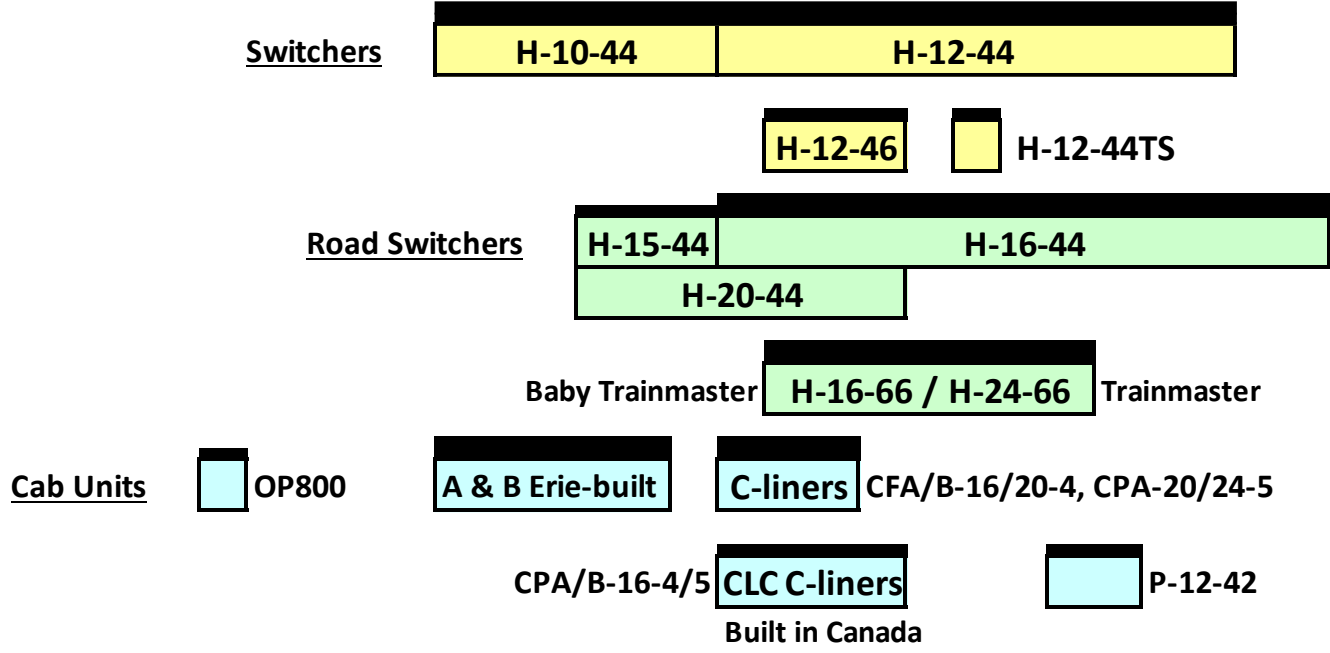
Exports End

1960

**Nomenclature**  
 H-XX-YZ, where ...  
 XX = Hundreds of Horsepower  
 Y = Number of Axles  
 Z = Number of Powered Axles

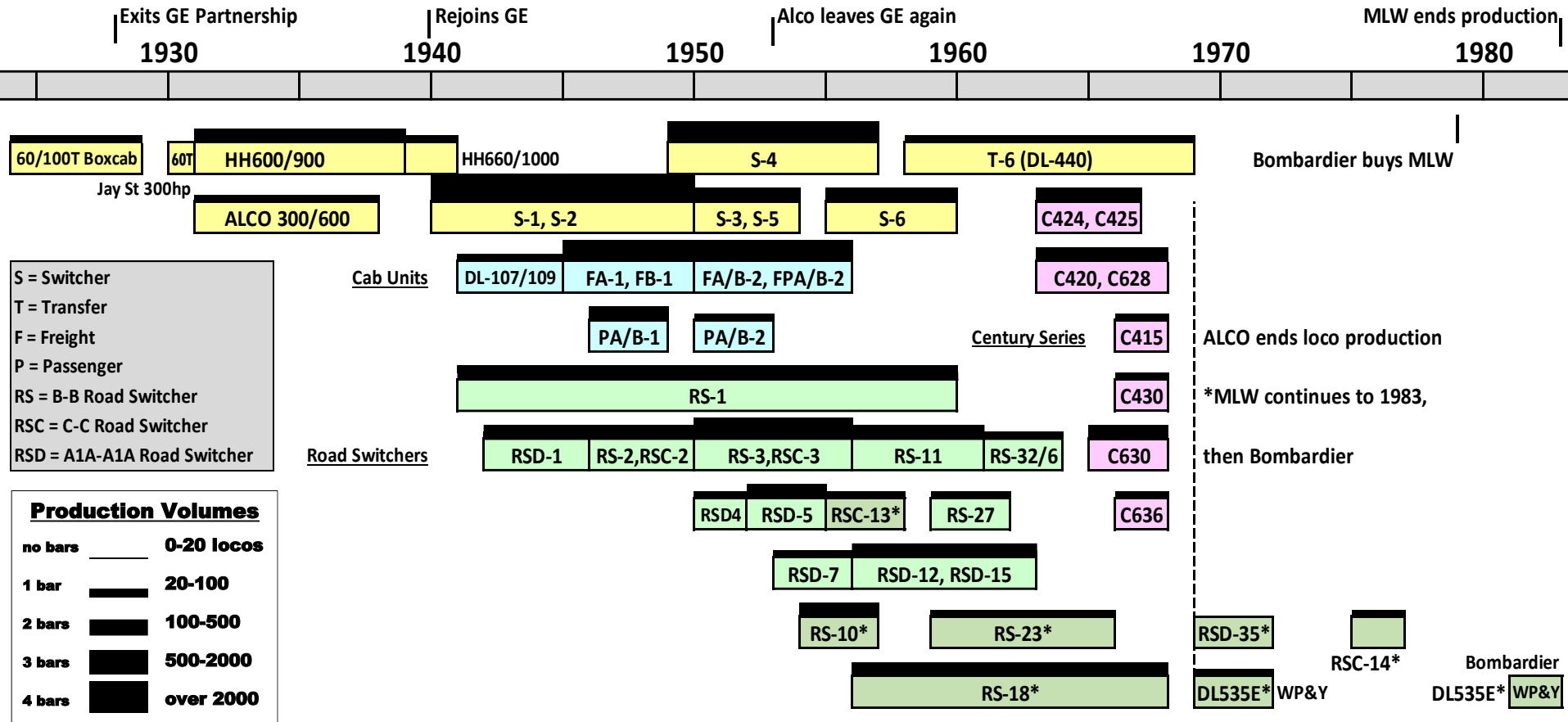
**Production Volumes**

no bars	_____	0-20 locos
1 bar	▬	20-100
2 bars	▬▬	100-500
3 bars	▬▬▬	500-2000
4 bars	▬▬▬▬	over 2000



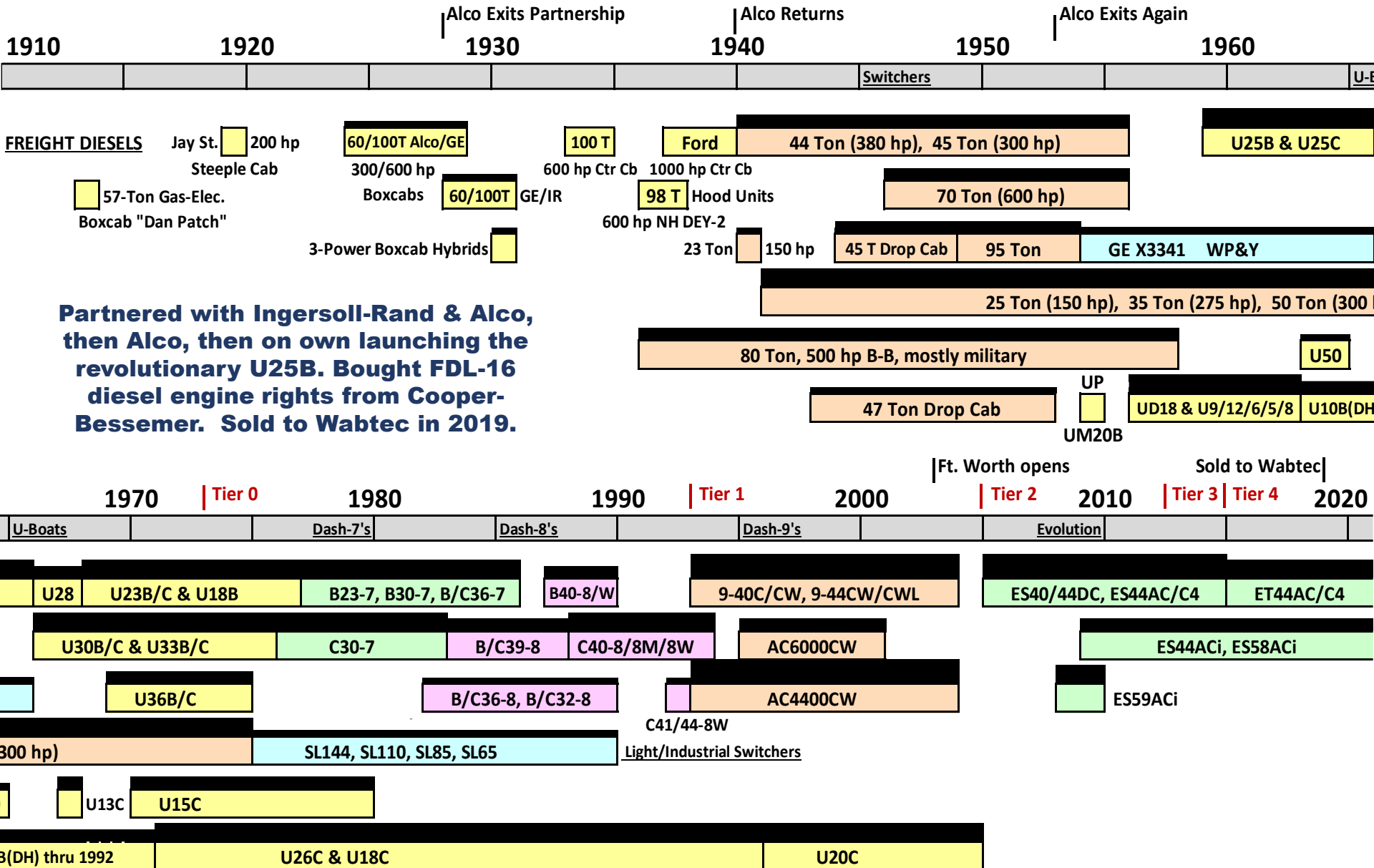
**Used proprietary opposed piston marine diesel engine, with Westinghouse motors and electrical gear until 1953, thereafter its own electrical gear, plus a GE option**

# ALCO / MLW / Bombardier

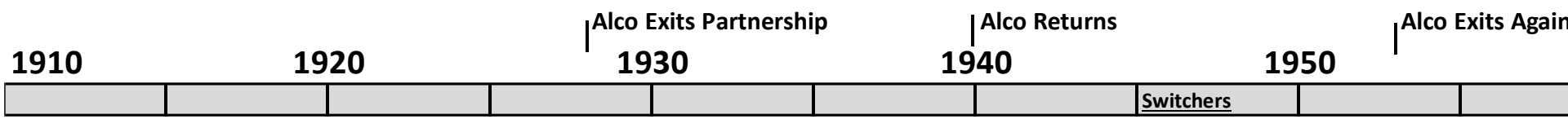


**Co-built electric locos with GE since 1906, added Ingersoll-Rand in 1920's to build 1<sup>st</sup> std diesel-electric loco - acquired McIntosh & Seymour Engine Co in 1929, eventually developing 3 models of 6, 8, 12, 16 cylinder diesels, most turbo-charged**

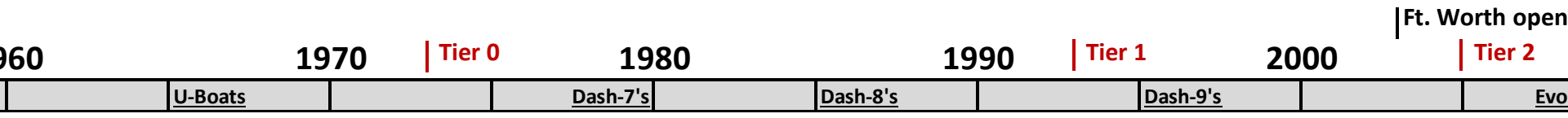
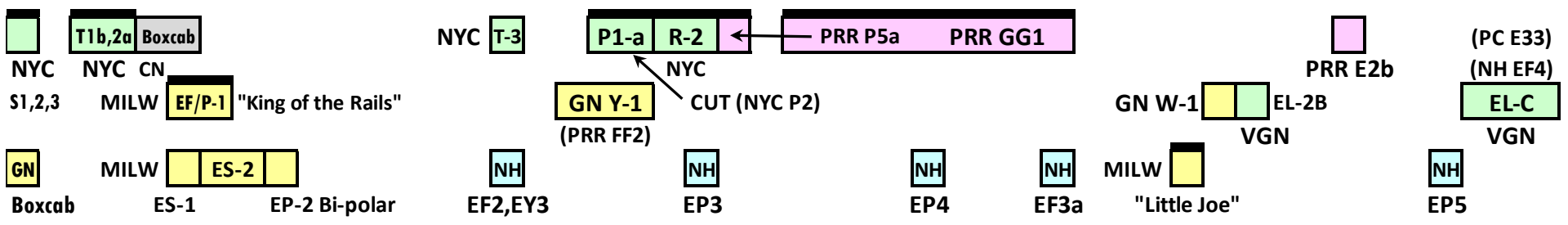
# GE / Wabtec Freight Locomotives



# GE Passenger Locomotives



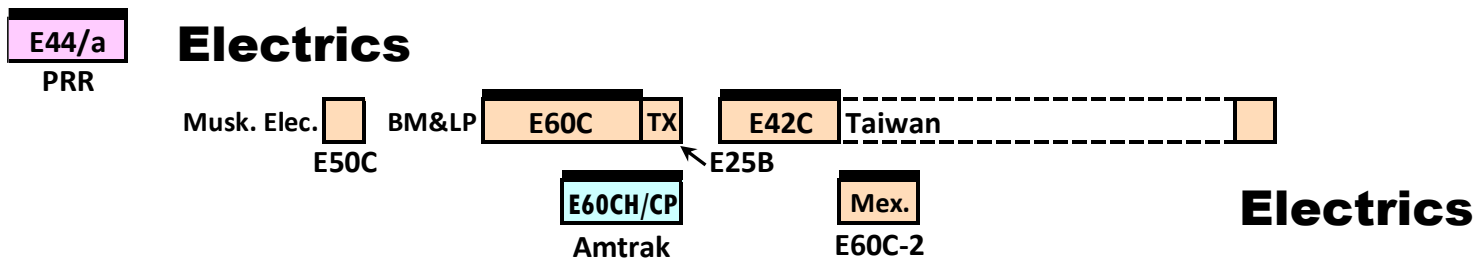
## Electrics



## Diesels



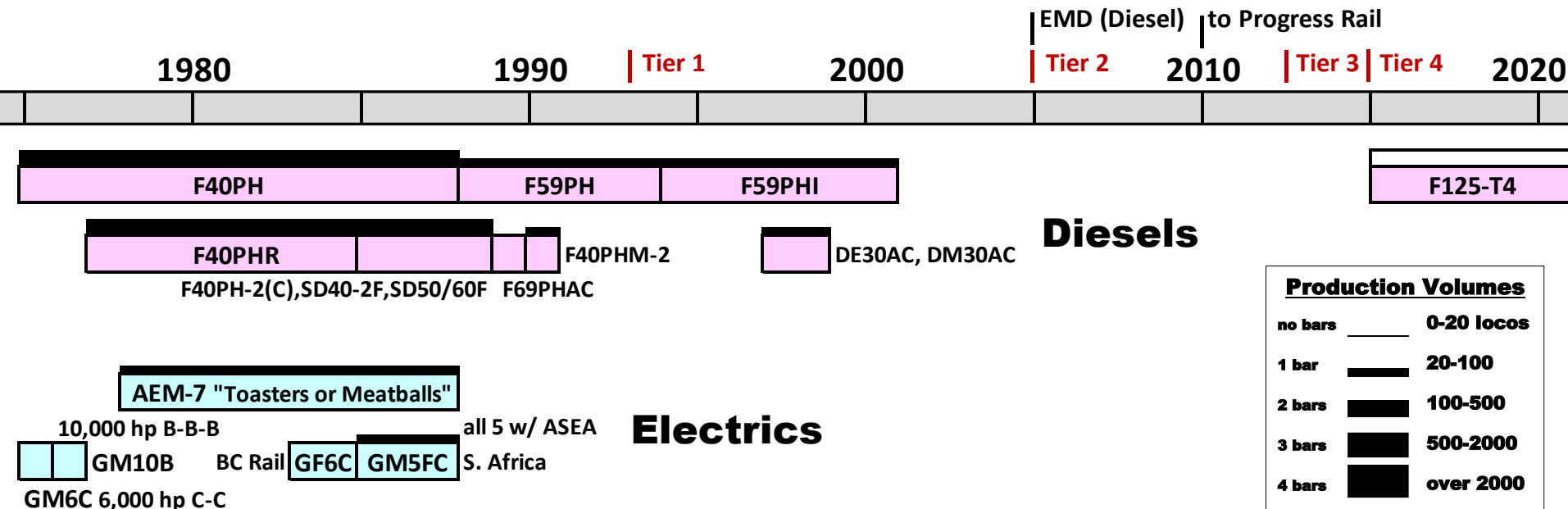
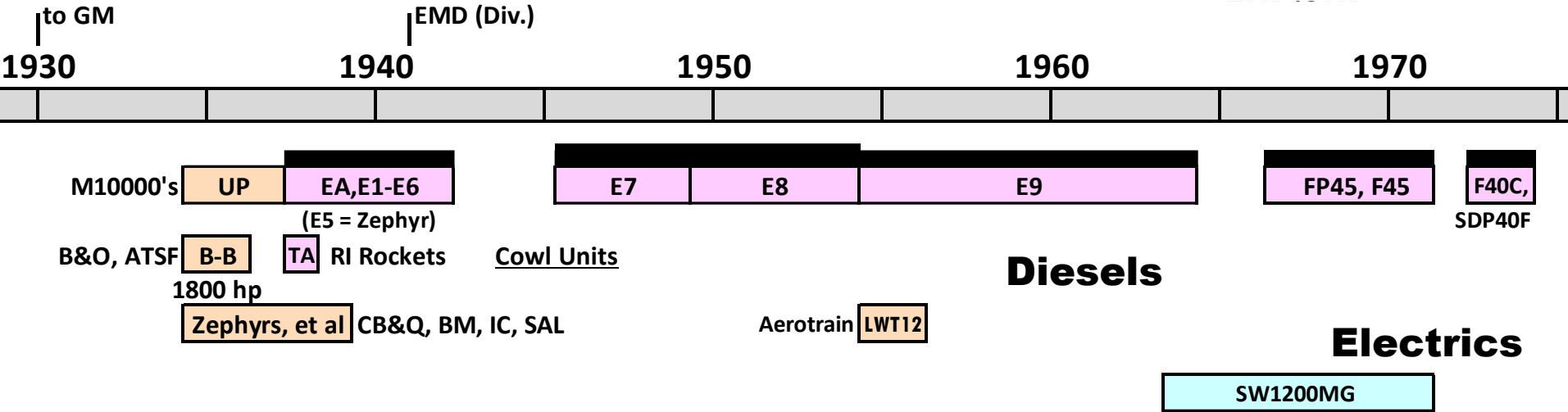
## Electrics







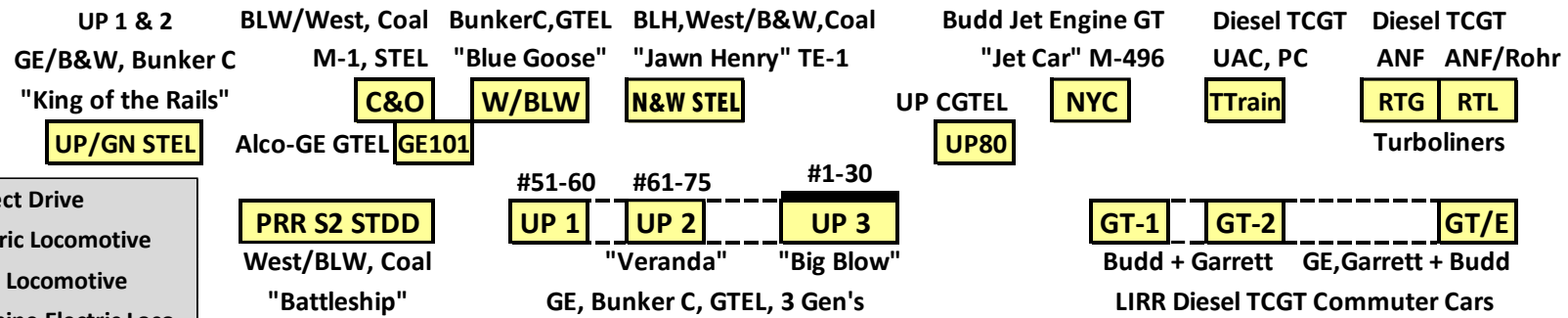
# EMD/GMD Passenger Units



# Turbines & Other Passenger



## Turbines



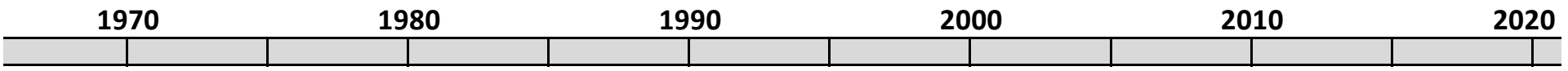
STDD = Steam Turbine Direct Drive  
 STEL = Steam Turbine Electric Locomotive  
 GTTEL = Gas Turbine Electric Locomotive  
 CGTEL = Coal-fired Gas Turbine Electric Loco  
 TCGT = Torque Converter Gas Turbine

## Other Passenger Motive Power



McKeen Motor Cars  
 1905-1917 Gas

Hydraulic Torque Converters  
 Budd RDC DMU's (Diesel Mult. Units) "Buddliners" RDC's -1,-2,-3,-4,-9



Caltrans & IDOT SC-44, Brightline - Siemens Diesel-Elec. SCB-40 (Charger)  
 Amtrak Siemens Electric ACS-64 (Sprinter)

Budd Metroliners (NE Corridor) (Keystone Service)  
 Electric Multiple Units (EMU)

Electric HHP8 Electric Acela Express (Avelia Liberty to replace starting 2021)  
 Bombardier-Alstom

# **Locomotive Observations**

- **Each builder has unique model code – typically horsepower, body type and wheel configuration**
- **Most builders had Canadian “partners” (CLC, MLW, GMD)**
- **Lots of make/model variety in the 1945-60 “Transition Era”**
- **Lima-Ham. made 4 models over 3 year span, then merged with Baldwin**

# **Locomotive Observations**

- GE started with boxcab electrics in 1930's and 1940's, then made its own switchers while partnering with ALCO**
- Much turbine and passenger experimentation from 1940-80**
- 5 types of turbines tried – UP's Gas Turbine Electrics most successful**
- Longest life self-powered pass. cars were Budd RDCs & Budd Metroliners**

# Locomotive Observations

Variety of passenger locos over time:

## Diesel Pass. Locomotives by Era

- 1946-1953/5 Alco PA's, BLW Sharks
- 1934-2001 EMD (E's, FP's, SDP's, F's)
- 1990-2002 GE P32/40/42 Genesis Series
- 2016-now Siemens Charger

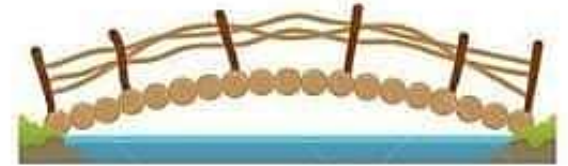
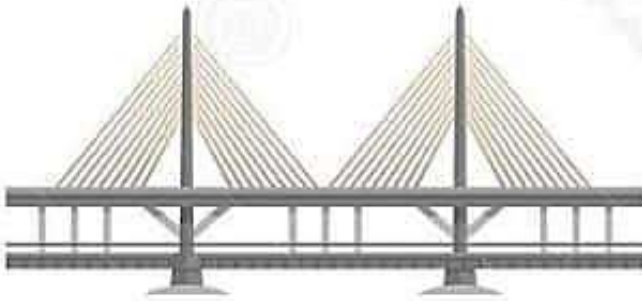
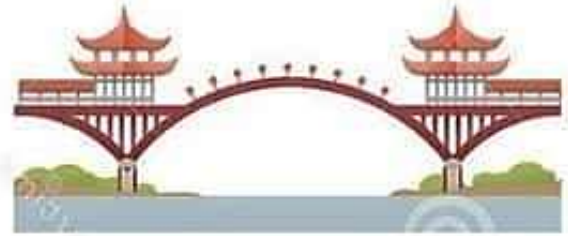
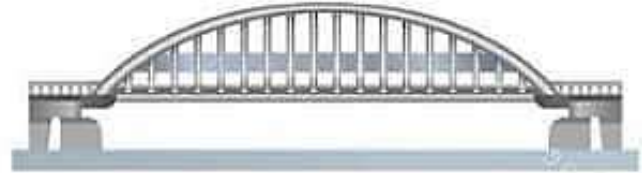
## Electric Pass. Locomotives by Era

- 1910-1992 Many GE's (L. Joe, GG1, E44, ...)
- 1978-1998 EMD/ASEA "Toasters"
- 2015-2018 Siemens Sprinter
- 2000-now Bombardier/Alstom Acela/Avelia

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# Bridges, Bridges, Bridges



**40+ Types of Bridges in the World !**



# Bridge Definition

**“A bridge is a structure built to span a physical obstacle (such as a body of water, valley, road, or rail) without blocking the way underneath.**

**It is constructed for the purpose of providing passage over the obstacle, which is usually something that is otherwise difficult or impossible to cross.”**

# Bridge Design Factors

**“Designs of bridges vary depending on factors such as: the function of the bridge, the nature of the terrain where the bridge is constructed and anchored, and the material used to make it and the funds available to build it.”**

**Wikipedia**

# Bridge Basics

How many general bridge forms are relevant for railroads?



beam



truss



cantilever



arch



suspension



cable-stay

# Railroad Bridge Basics

## 3 General Forms

- Beam
- Arch
- Truss

## 4 Material Fields

- Masonry
- Wood
- Metal
- Concrete

## 3 Sub-Types

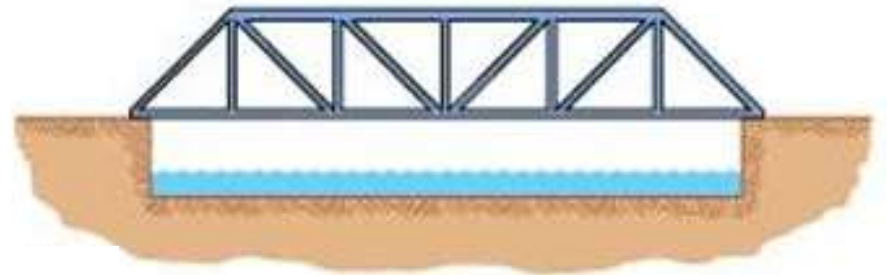
- Deck
- Through
- Pony



**Beam**



**Arch**



**Truss**

# 4<sup>th</sup> Bridge Form?

## The Lowly Fill

- Simple and cheap
- Does provide passage over a chasm
- But technically not a “bridge” – unless add an opening (culvert)



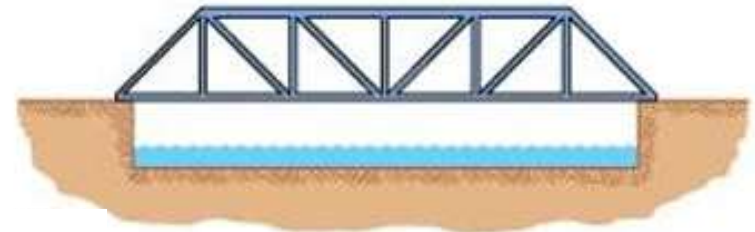
**Fill**



**Beam**



**Arch**



**Truss**

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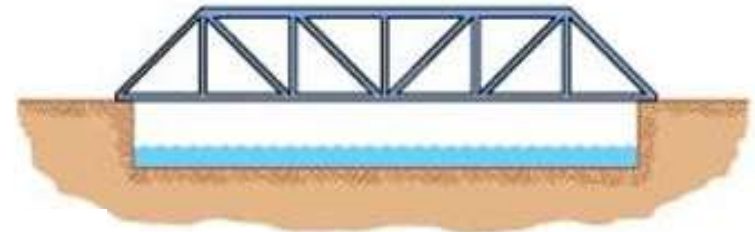
**Fill**



**Beam**



**Arch**



**Truss**

# **Specific Bridge Types**

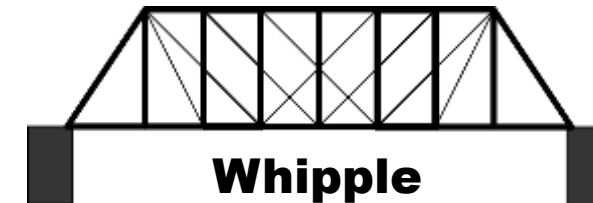
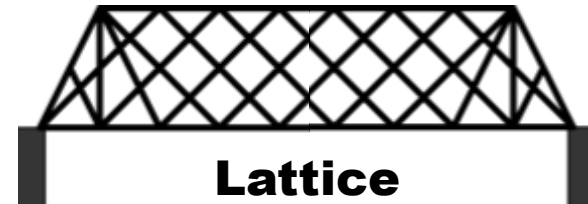
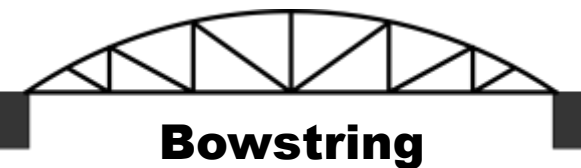
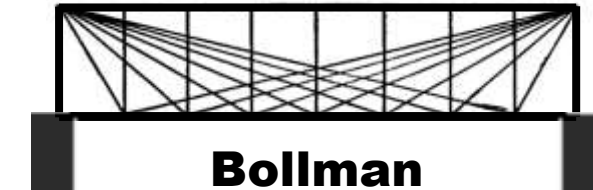
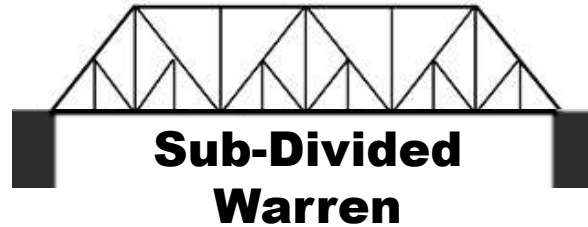
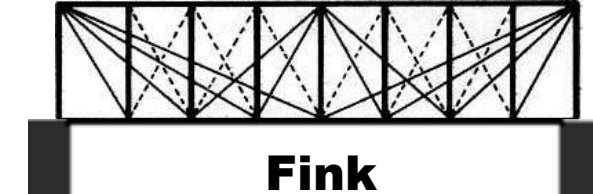
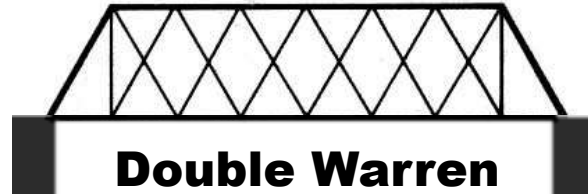
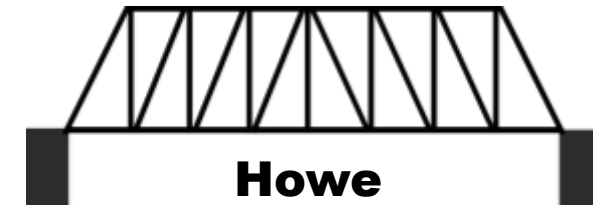
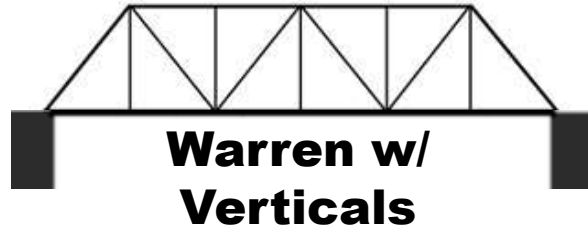
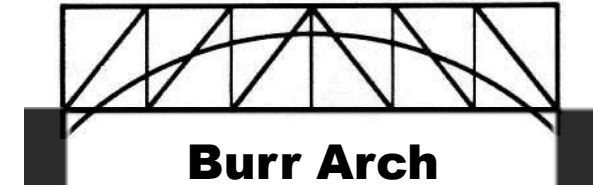
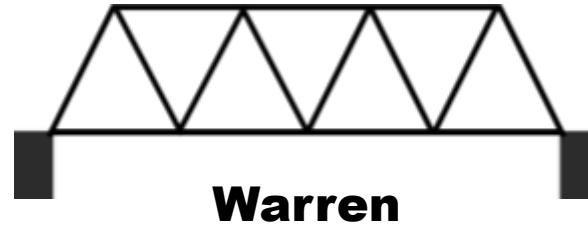
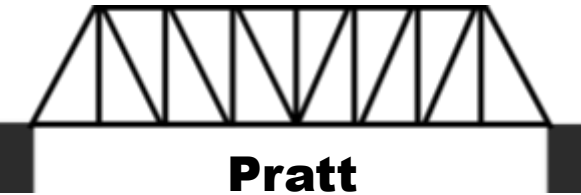
- **Arches and Culverts**
- **Trestles and Viaducts**
- **Beams and Girders**
- **Simple, Continuous and Cantilever Trusses**
- **Movable Bridges**
  - **Swing**
  - **Bascule (Hinge or Roll Up)**
  - **Vertical Lift**
- **Suspension & Cable-Stayed Bridges**

# Trestles and Viaducts

- **Trestles and viaducts are bridges, each composed of beams, arches and/or trusses**
- **A trestle is a viaduct but not necessarily vice versa**
- **Trestle = succession of usually open towers (or bents) supporting short spans**
- **Viaduct = succession of closed (piers) or open towers supporting either long or short spans**
- **Viaducts typically have towers/piers that support much longer spans and are taller**



# Notable Truss Designs



# Bridge Material Timelines

1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020



**MASONRY**  
 1st Arch RR Brgs  
 MASONRY BRIDGE GOLDEN ERA  
 Rare  
 WPA Builds  
 Many Continue in Service, Some Reinforced with Metal Rods/Channels, Concrete Caps and/or Concrete Facings

B&O Curved Thomas Via. Erie Starrucca Viaduct 50'

**WOOD**  
 Wood Truss Phil. & Rdg Calc's  
 WOOD TRUSS ERA  
 50% Bridges Wood (40/year Collapse)  
 Few New Wood Brs.  
 Some Short Beam/Trestle Applications

Burr Arch (Hwy) SHORT TRESTLES  
 Cen. Pac. Tall Trestle TALL TRESTLES

**IRON**  
 CAST IRON  
 B&O W.I. Viaduct  
 Eads Arch Iron/Stl  
 End of W.I. Truss/Girder  
 Iron Bridges Replaced by Mid-1900's

C.I. Rod, Bm, Arch All C. Iron Truss/Gir. W.I. I-Bms W.I. Truss/Gir. WROUGHT IRON

**STEEL**  
 Bessemer Steel Process  
 Stl Truss Calc's  
 -75% Stl Prices  
 All Stl RR Brgs  
 Vert. Lift  
 ARCH & PRATT TRUSS  
 1079' RR Arch (Niagara Falls)  
 1st Lrg Cont. Truss (Sciotoville)  
 Last Pratt Truss (Big 4 Louisville)

Hydraulic Shop Rivets  
 1st Hwy Cantilever Plate Gir.  
 I-Beams, Rolling Bascule  
 Trun. Bascule  
 720' Simple Truss; 1,800' Cant. Truss; 1000' Arch (Hell Gate, NYC)  
 WARREN TRUSS

**CONNECTIONS**  
 PINS  
 Pins Peak  
 Pins Decline  
 WELDS

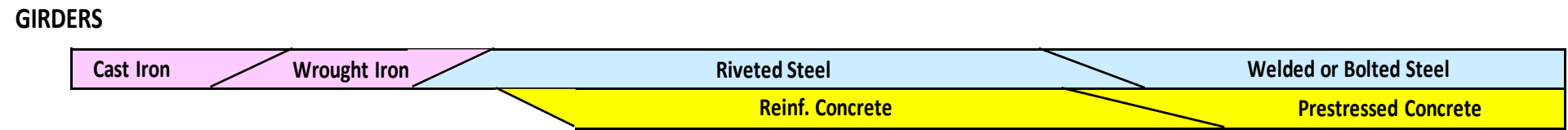
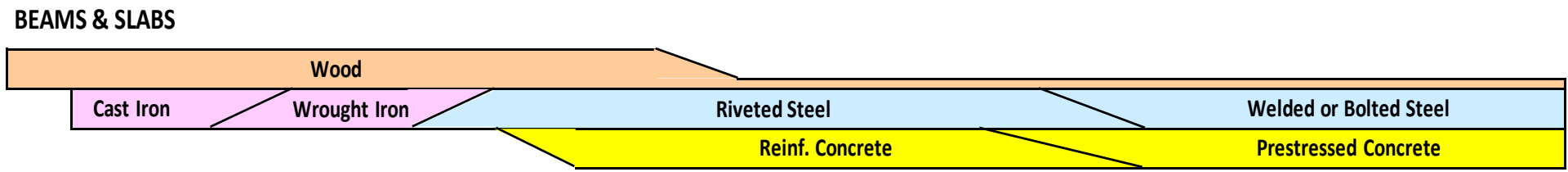
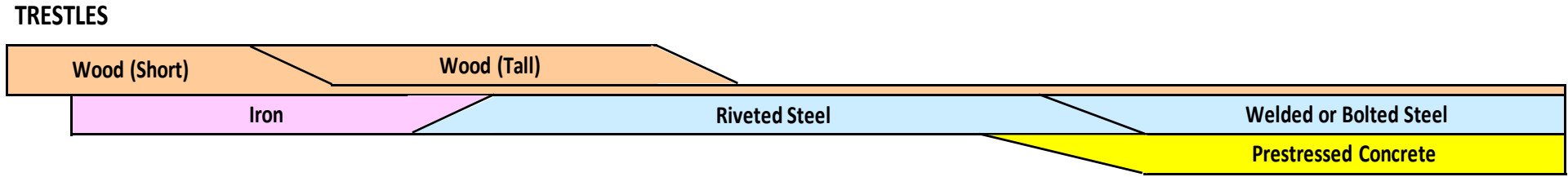
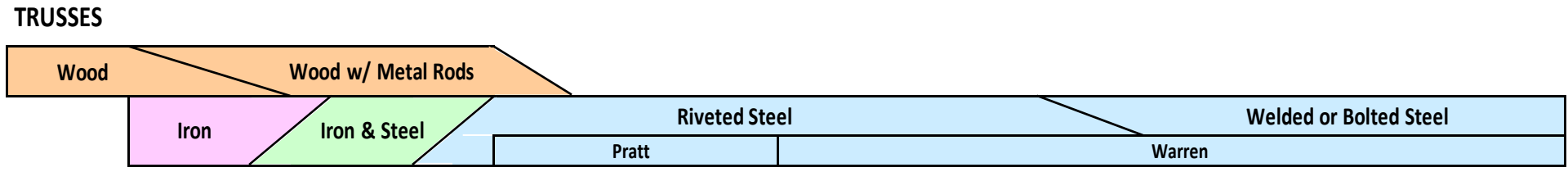
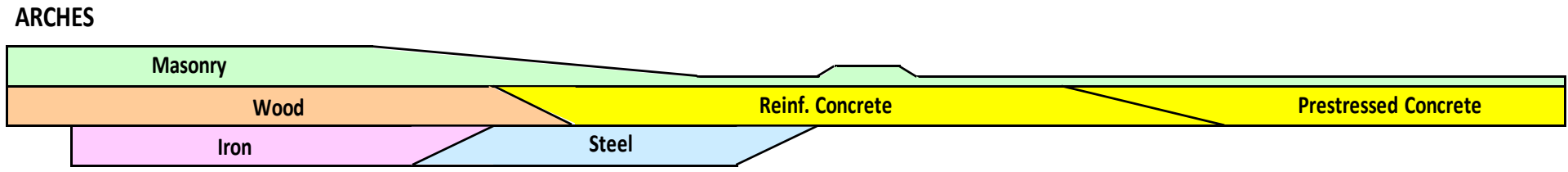
NAILS / SPIKES  
 Hydraulic Shop Rivets  
 Pneumatic Field Rivets  
 RIVETS  
 Rivets Decline  
 BOLTS

**CONCRETE**  
 Starrucca Viaduct Foundations  
 Twisted Rebar Ransome Patent  
 EXPERIMENTAL REINF. CONC.  
 Rebar Stds  
 DLW Tunkhannock Viaduct 180'  
 STD REINF. CONC. ERA  
 Trestle PS Slabs  
 L&N 60' Box Gird.  
 PRESTRESSED ERA

Steel Bms in Conc. R.C. Slab, Girdr, Arch  
 TRANSITION  
 Rigid Frame  
 Hwy T-Bms, PS Conc., Long Span Box Gird.  
 1st Big PS Hwy Brdg  
 100' RR Box Gird.

# Bridge Type Timelines

1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020



# Bridge Technology Eras

<b>1<sup>st</sup> Generation Pre 1845</b>	<b>2<sup>nd</sup> Generation 1845 – 1890</b>	<b>3<sup>rd</sup> Generation 1890 – 1955</b>	<b>4<sup>th</sup> Generation Post 1955</b>
<b>Earth Fill</b>	<b>Wrought Iron Beam, Girder, Truss and Arch</b>	<b>Rolled Steel Beam</b>	<b>Welded Steel Girder and Box Beam</b>
<b>Short Wood Beam, Trestle and Truss</b>	<b>Tall Wood Trestle</b>	<b>Riveted Steel Girder, Trestle &amp; Moving Bridge</b>	<b>Welded Steel Trestle with Rolled Shapes</b>
<b>Cast Iron Beam</b>	<b>Wood Truss With Wrought Iron Rods</b>	<b>Riveted or Pinned Steel Truss and Arch</b>	<b>Prestressed Concrete Slab &amp; Shaped Beam</b>
<b>Masonry Arch</b>	<b>Non-Reinf. Concrete Piers and Footings</b>	<b>Reinforced Concrete Beam, Slab and Arch</b>	<b>Prestressed Concrete Viaduct</b>

# Railroad Bridge Spans

## Real World Typical Maximum Spans in Feet

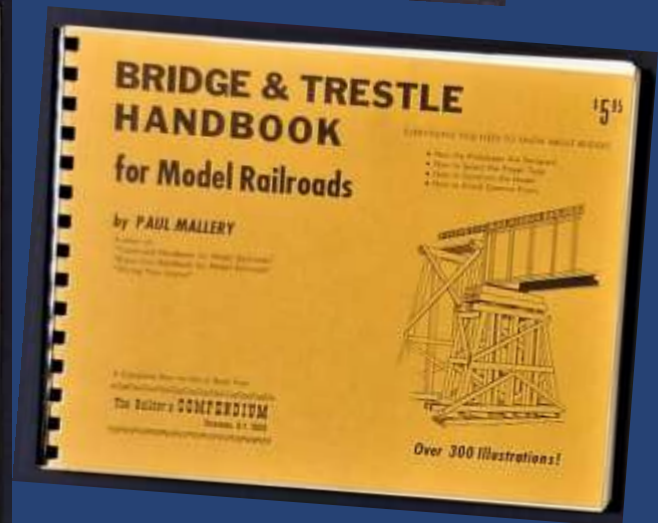
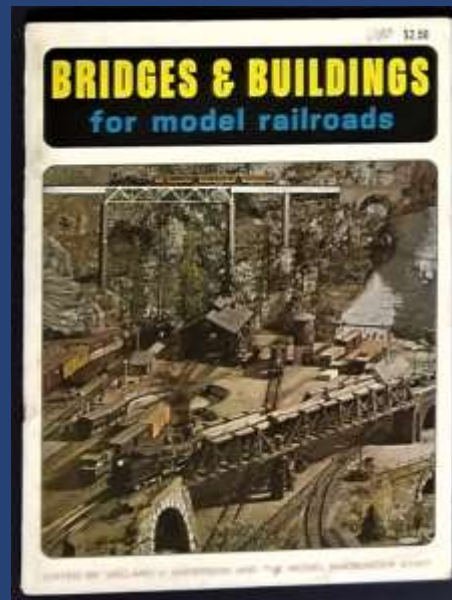
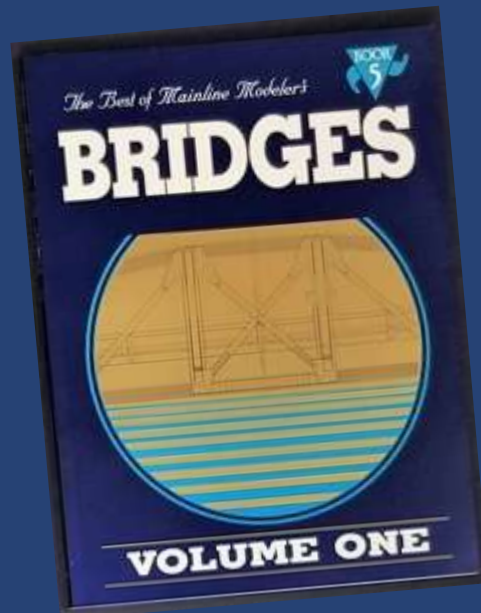
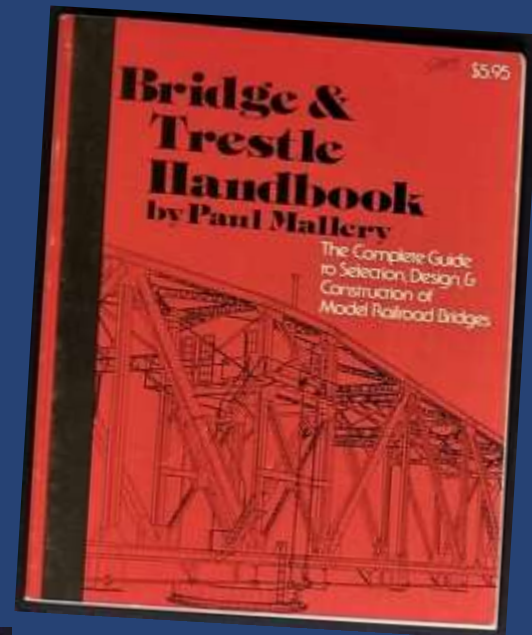
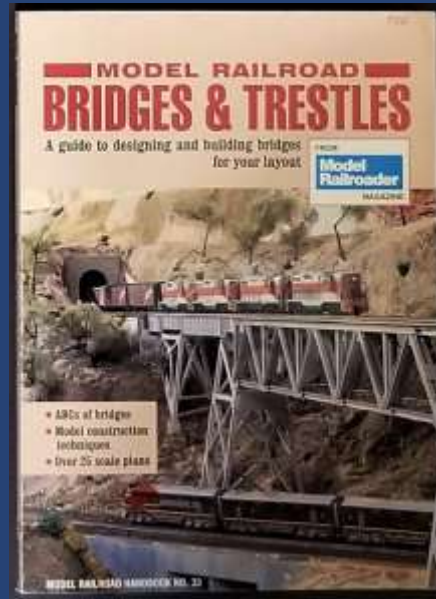
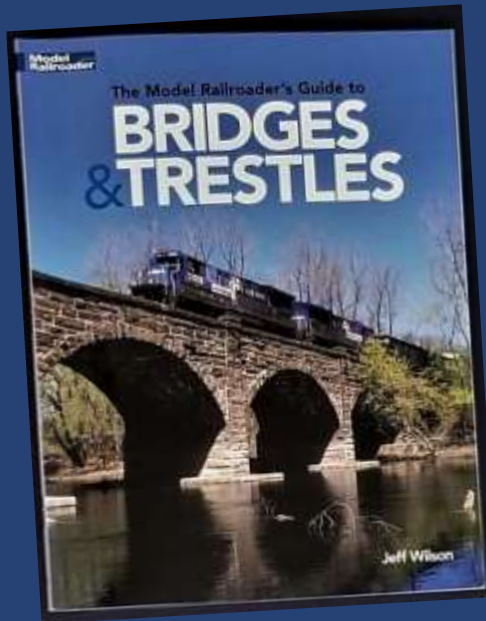
Type	Material	1st Gen. Pre 1845	2nd Gen. 1845 - 1890	3rd Gen. 1890 - 1955	4th Gen. Post 1955
Arch	Wood	30-100	50-200	-	-
	Iron	150	400	-	-
	Steel	-	100-700	100-1000	100-1600
	Masonry	100	200	300	-
	Concrete	-	100	50-200	(300)
Beam or Slab	Wood	20	20	15	10
	Iron	20	30	-	-
	Steel	-	-	20-40	20-40
	Reinf.	-	-	10-20	20-40
	Prestressed	-	-	40	50 Bm, 100 Gir
Plate Girder	Iron	30	60	-	-
	Steel	-	30-100	40-150	50-200
Simple Truss	Wood	25-100	50-150	-	-
	Iron	-	50-200	-	-
	Steel	-	50-300	50-600	100-800
	Concrete	-	-	-	(200)
Continuous Tr.	Steel	-	400	300-800	400-1000
Cantilever Tr.	Steel	-	200-1000	300-1500	400-1800
Suspension	Steel	-	800	400-2300	(400-2300)

**Models often need to be much shorter**

# Bridge Modeling Tips

- **Pick type, materials and sub-type per span, era and clearance needs**
- **Selectively compress the span**
- **Loco loading also a design factor**
- **Post 1970 approx. real world spans:**
  - **<50' Beam (30-40' for Trestle spans)**
  - **50-100' Concrete Girder or Box Beam**
  - **100-200' Steel Plate Girder**
  - **>200' Steel Truss/Arch or Concrete Arch**

# Railroad Bridge References



# Timelines **Part 2**

- **Railroad Maps & Mergers**
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- **Soda Bottles and Advertising**
- **Grocery Stores & Trading Stamps**
- **Other Study Areas**



# Farm Tractors

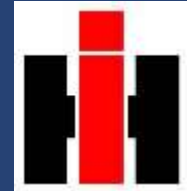
- Kubota



- John Deere



- J. I. Case



- International Harvester

- Fordson / Ford



- New Holland



- Caterpillar

- Allis-Chalmers



- Oliver / White



- Minneapolis-Moline



- Massey Ferguson



# Farm Tractors

- Kubota



- John Deere



- J. I. Case



- International Harvester

- Fordson / Ford



- New Holland



- Caterpillar

- Allis-Chalmers



- Oliver / White



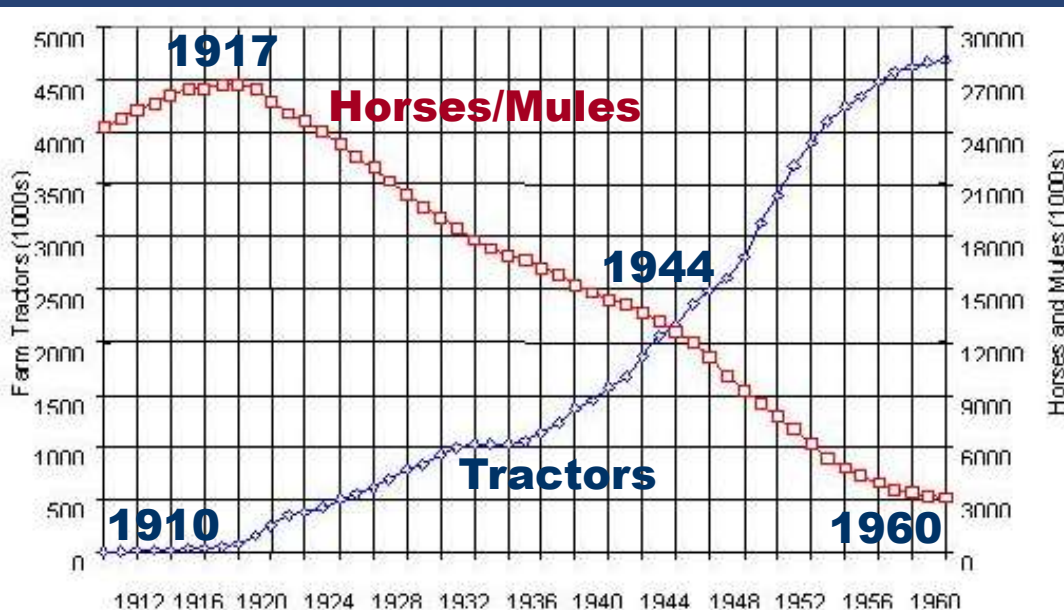
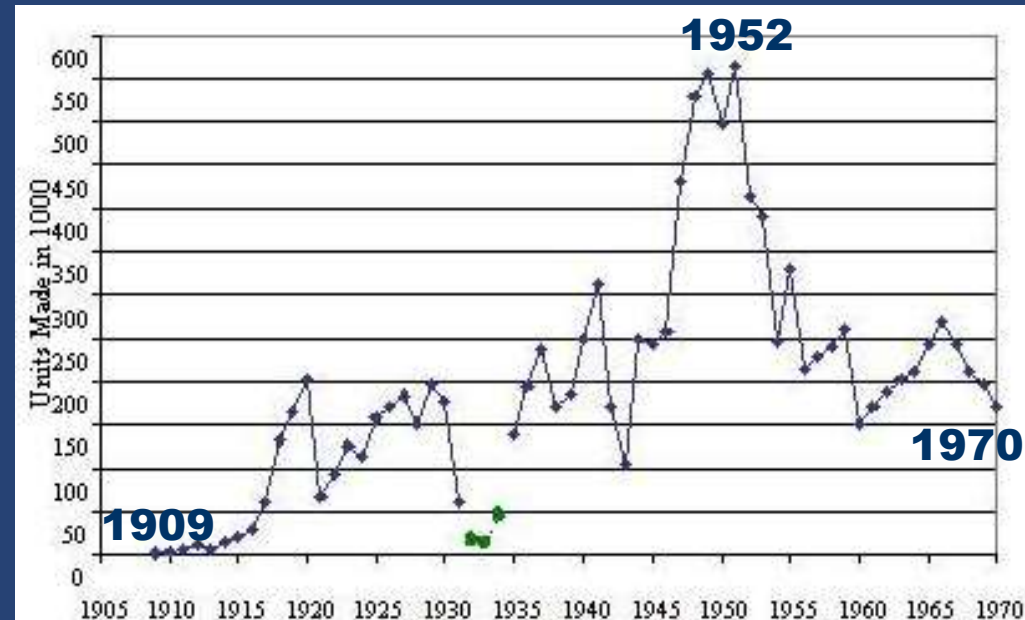
- Minneapolis-Moline

- Massey Ferguson



# Growth in Farm Tractors

- Tractors replaced horses over a 50 year span, at ~ 1:6 ratio
- Horses peaked WWI
- Tractor production peaked post WWII

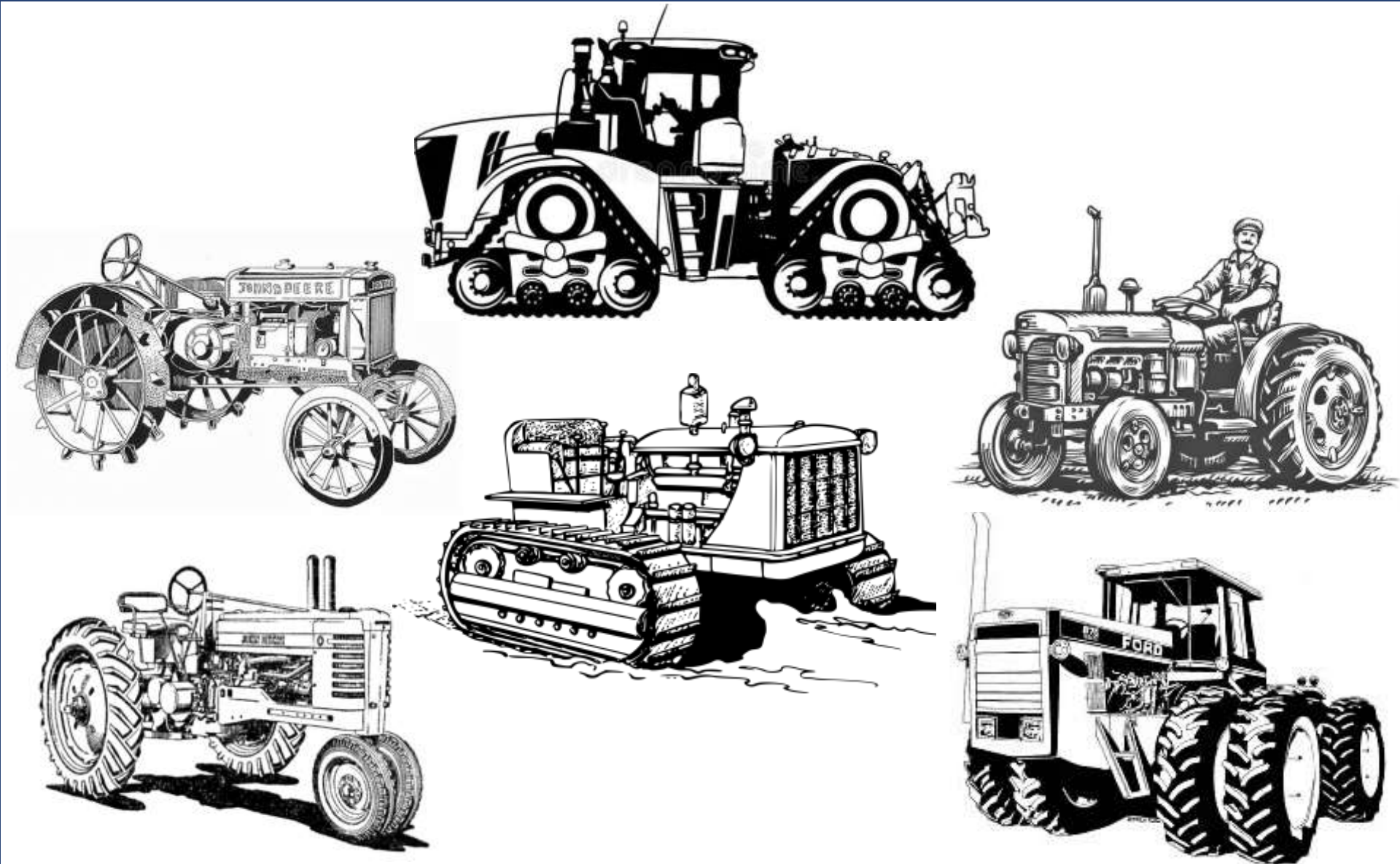


## US Tractors Made

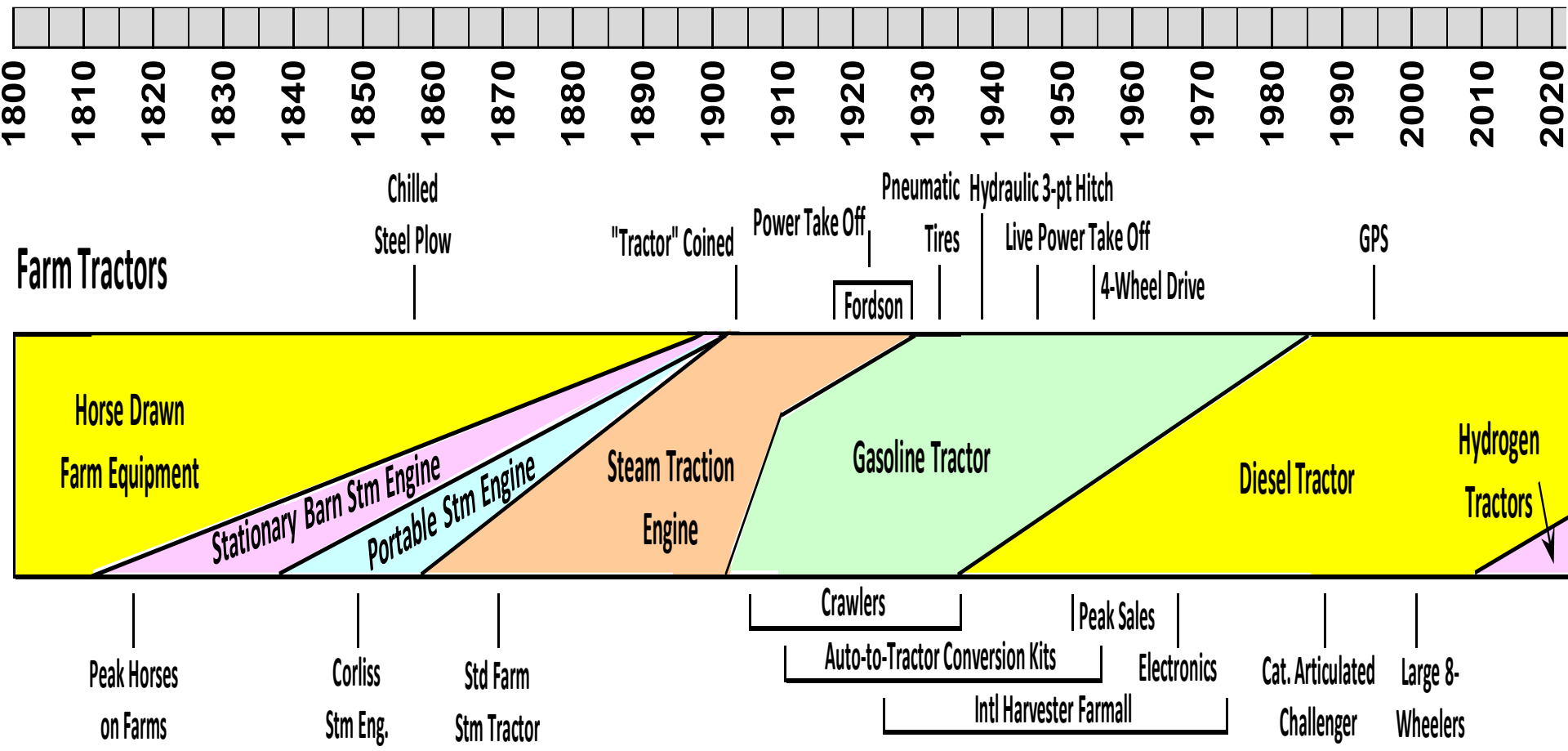
## Tractors vs. Horses on US Farms

Graphs from White, William. "Economic History of Tractors in the United States". EH.Net Encyclopedia, edited by Robert Whaples. March 26, 2008

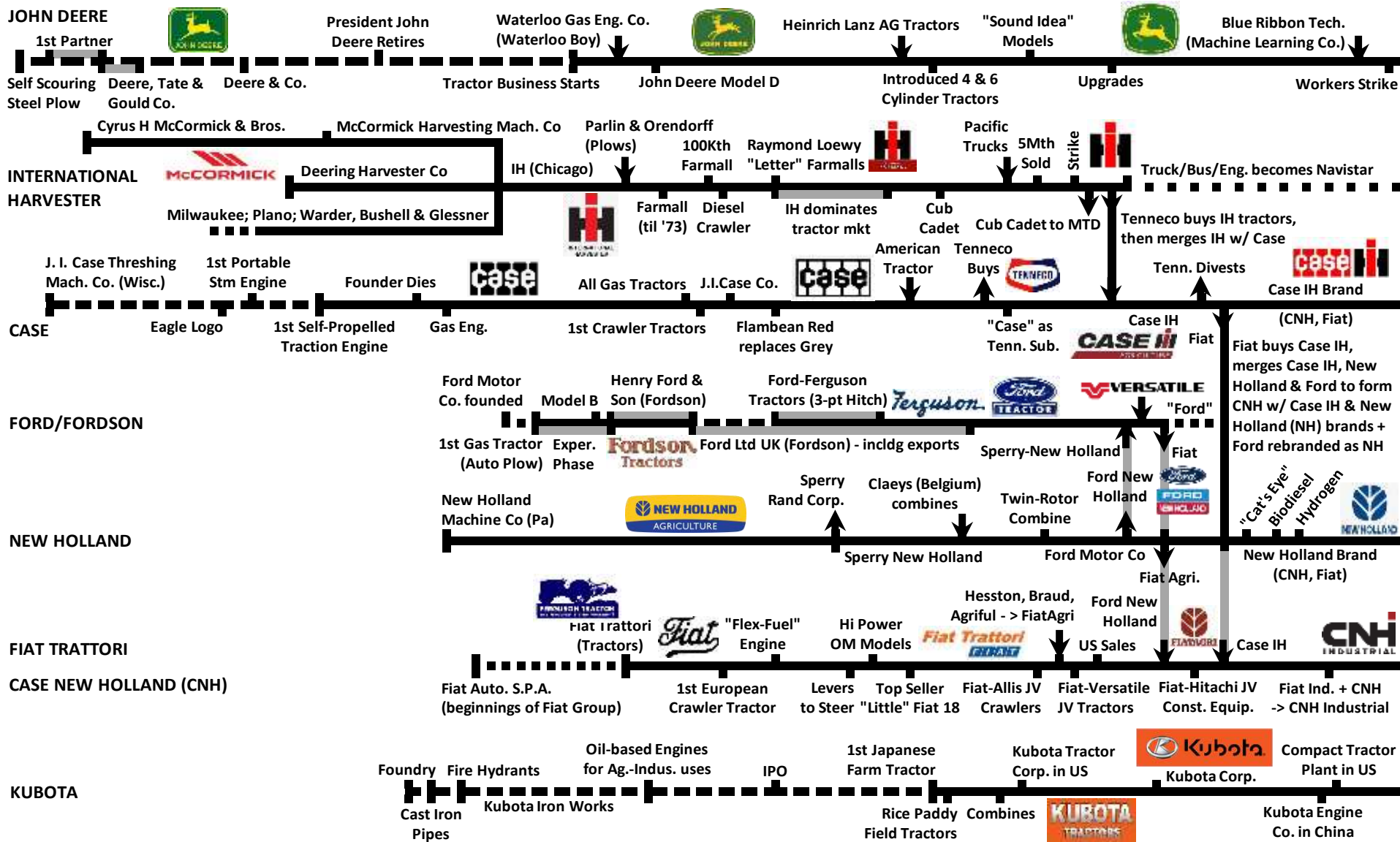
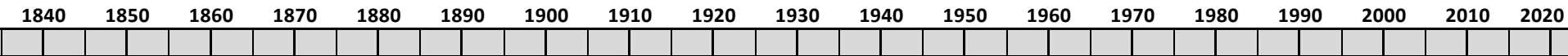
# Many Tractor Varieties



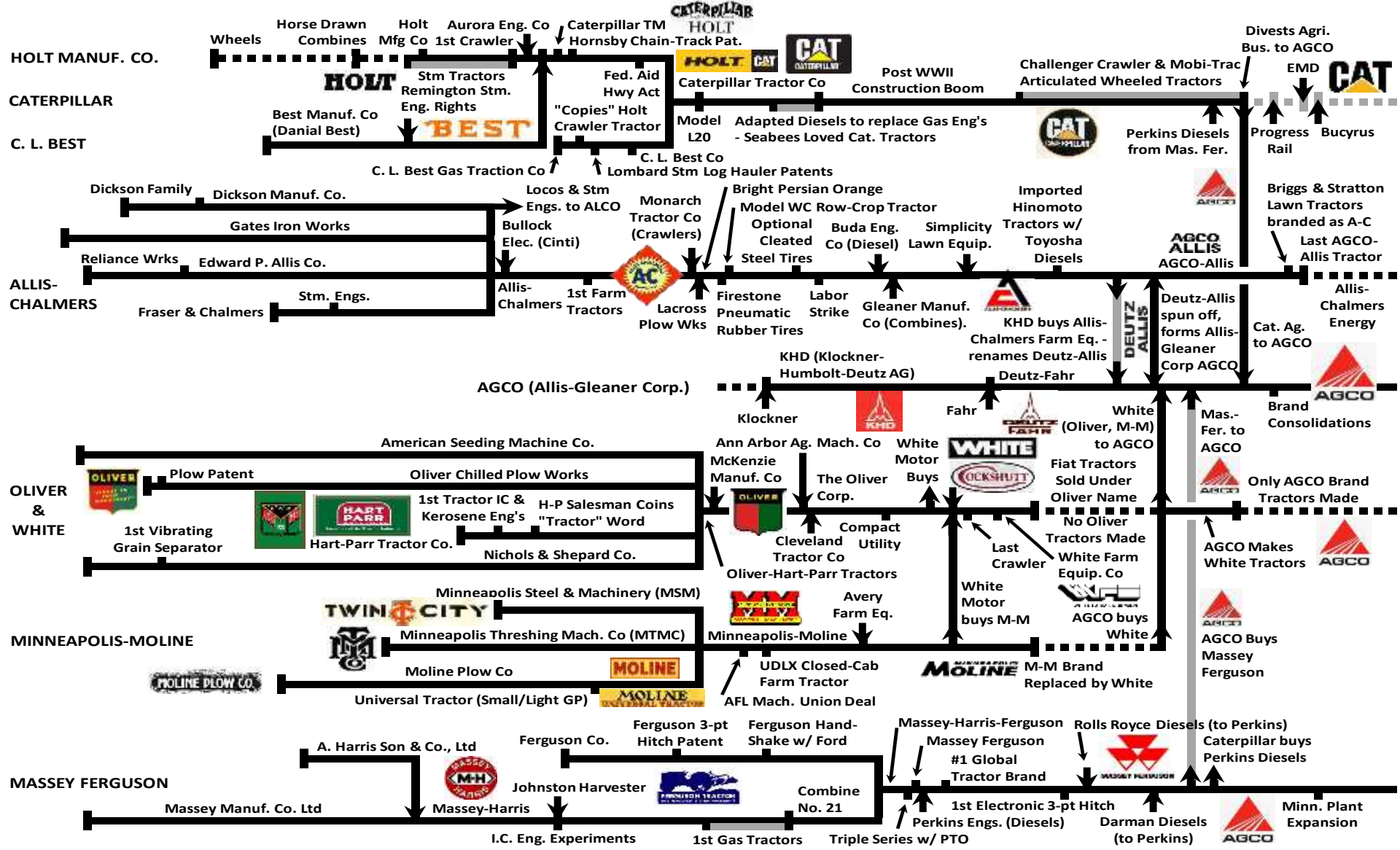
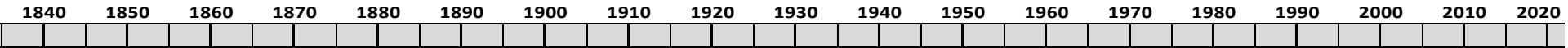
# Farm Tractor Eras



# Farm Tractors

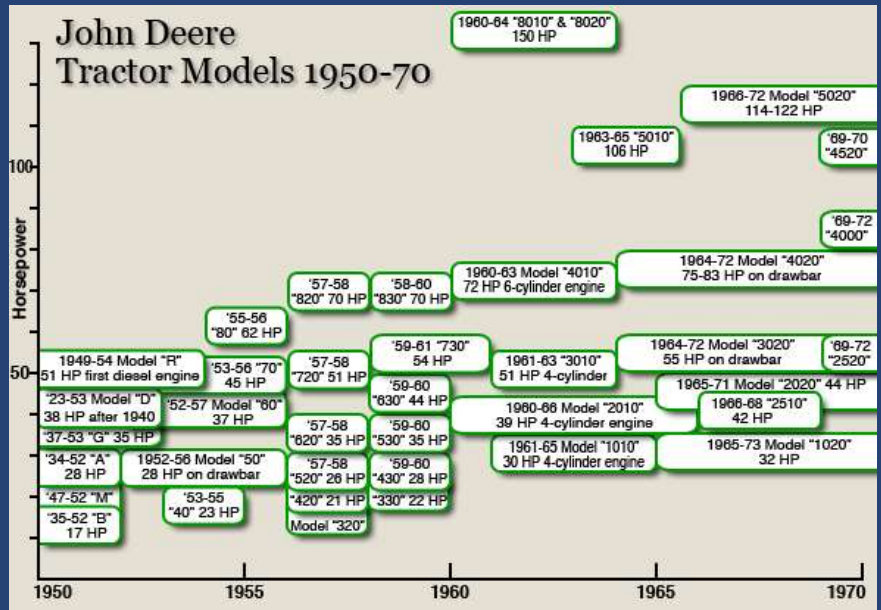
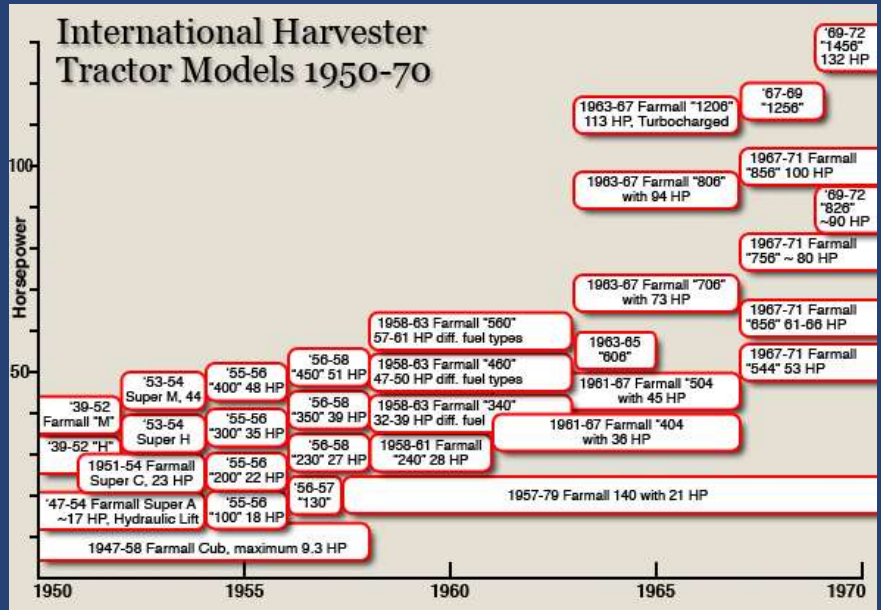
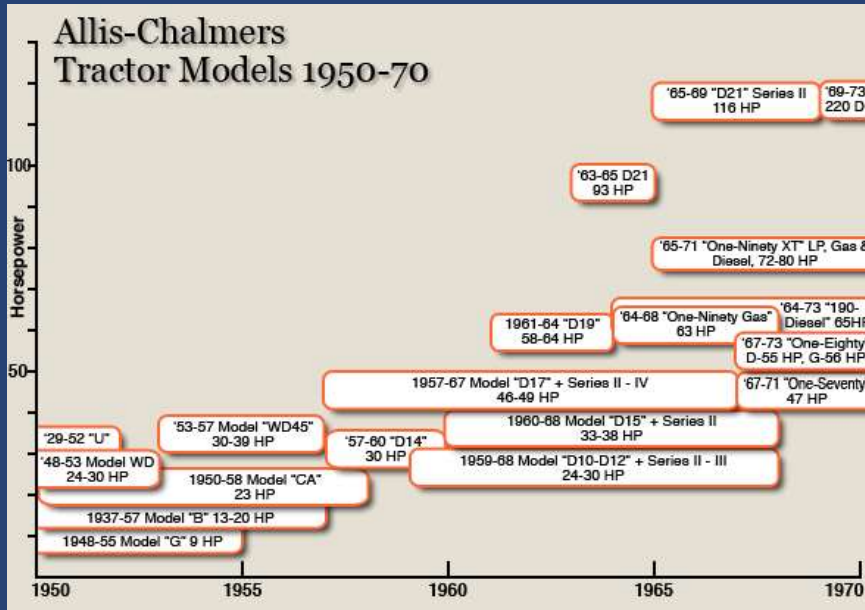


# Farm Tractors



# Farm Tractor Models

See websites for specific model names and production years



2006 charts by Bill Ganzel of the Ganzel Group, from Wessels Living History Farm website.



# Tractor Market Shares

- **International Harvester dominant, except for low cost Fordson in 1910's & 1920's**
- **Ferguson 3-pt hitch made Ford return successful in late 1940's and early 1950's**
- **Deere, MF & A-C also built solid shares**

**US Market Share of Wheeled Tractor Manufacturers**

	1910s	1920s	1930s	1940s	1950-55
Deere	4%	6%	22%	17%	15%
International Harvester	21%	29%	44%	33%	31%
Ford	20%	44%	0%	8%	19%
Massey Ferguson	3%	2%	3%	15%	11%
Case	7%	4%	7%	8%	5%
Allis-Chalmers	6%	4%	13%	10%	10%
Oliver	2%	2%	5%	5%	5%
Minneapolis-Moline	8%	1%	3%	3%	4%
All Others	28%	9%	3%	3%	0%

# Farm Tractor Colors

Some brand colors iconic, others changed over time

Kubota	Orange
Waterloo	Green/Red
John Deere	Green/Yellow
J. I. Case	Red; Tan/Org; Yellow/Gray
International Harvester	Flambeau Red (Farmall)
Case IH	Flambeau Red
Fordson	Blue w/ Org Whls; Org; Dk. Green
Ford	Grey; Red/White; Blue/White
New Holland	Blue
Caterpillar	Yellow/Orange
Allis-Chalmers	Persian Orange
Cockschutt	Red
Hart-Parr	Green w/ Red Wheels
Oliver	Green w/ Red Wheels
White	White/Gray/Silver
Minneapolis-Moline	Prairie Gold (Tan Orange)
Massey Ferguson	Yellow; Black/Red w/ Silver

Orange

Green/Red

Green/Yellow; also pink, wht, or yel

Red; Tan/Org; Yellow/Gray

Flambeau Red (Farmall)

Flambeau Red

Blue w/ Org Whls; Org; Dk. Green

Grey; Red/White; Blue/White

Blue

Yellow/Orange

Persian Orange

Red

Green w/ Red Wheels

Green w/ Red Wheels

White/Gray/Silver

Prairie Gold (Tan Orange)

Yellow; Black/Red w/ Silver



**Oliver**



**Farmall IH**



**Minn.- Moline**

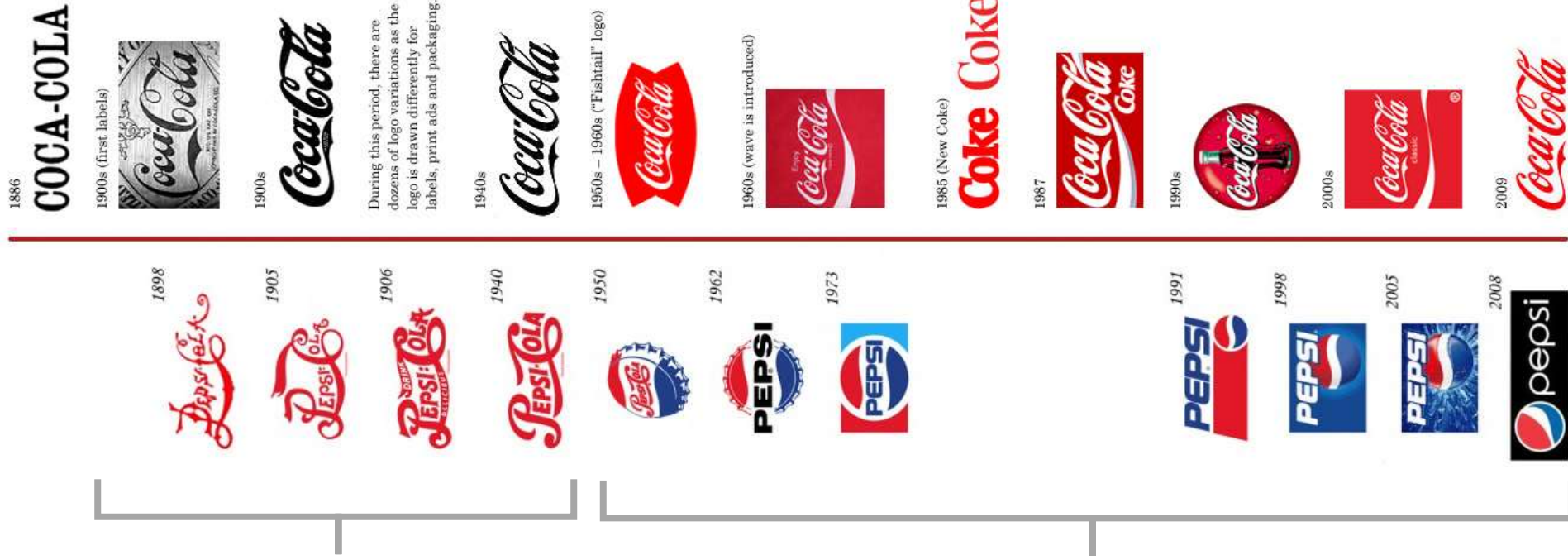


**John Deere**

# Timelines **Part 2**

- **Railroad Maps & Mergers**
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- **Other Study Areas**

# Soda Logos Over Time



**Script era for both Coca-Cola & Pepsi-Cola**

**Additional graphics and some simplified brand names**  
- Coca-Cola briefly just Coke  
- Pepsi-Cola becomes Pepsi

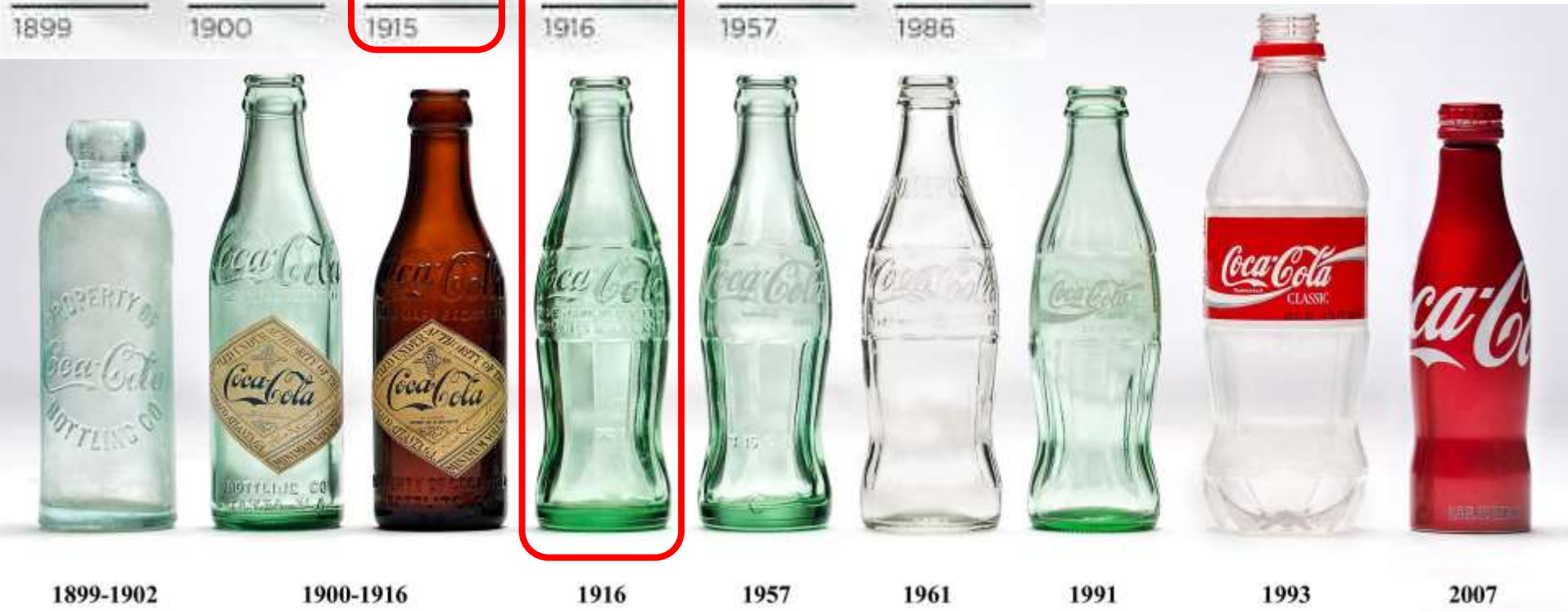
# Soda Logos Over Time



# Coke Bottles Over Time



**Raymond Loewy designed the 1955 version of the famous Contour Bottle (original 1915 design inspired by the cocoa bean)**



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# Grocery Stores

- **Could display by Era and Region**

- **Chains over time –**

**A&P (Albertsons), Acme (Albertsons), Albertsons, Aldi, Biggs, Costco, Food Lion (Ahold), Food Lane, Fred Meyer (Kroger), Fresh Market, Giant (Ahold), Giant Eagle, Grand Union, Harris Teeter (Kroger), IGA, Kroger, Lidl, Meijer, Pathmark (Albertsons), Piggly Wiggly (1916), Publix, Safeway (Albertsons), Save-A-Lot, Sam's Club (Walmart), Shoprite, SuperValu, Tesco, Trader Joe's (Aldi), Walmart, Wegmans, Whole Foods, Winn-Dixie**



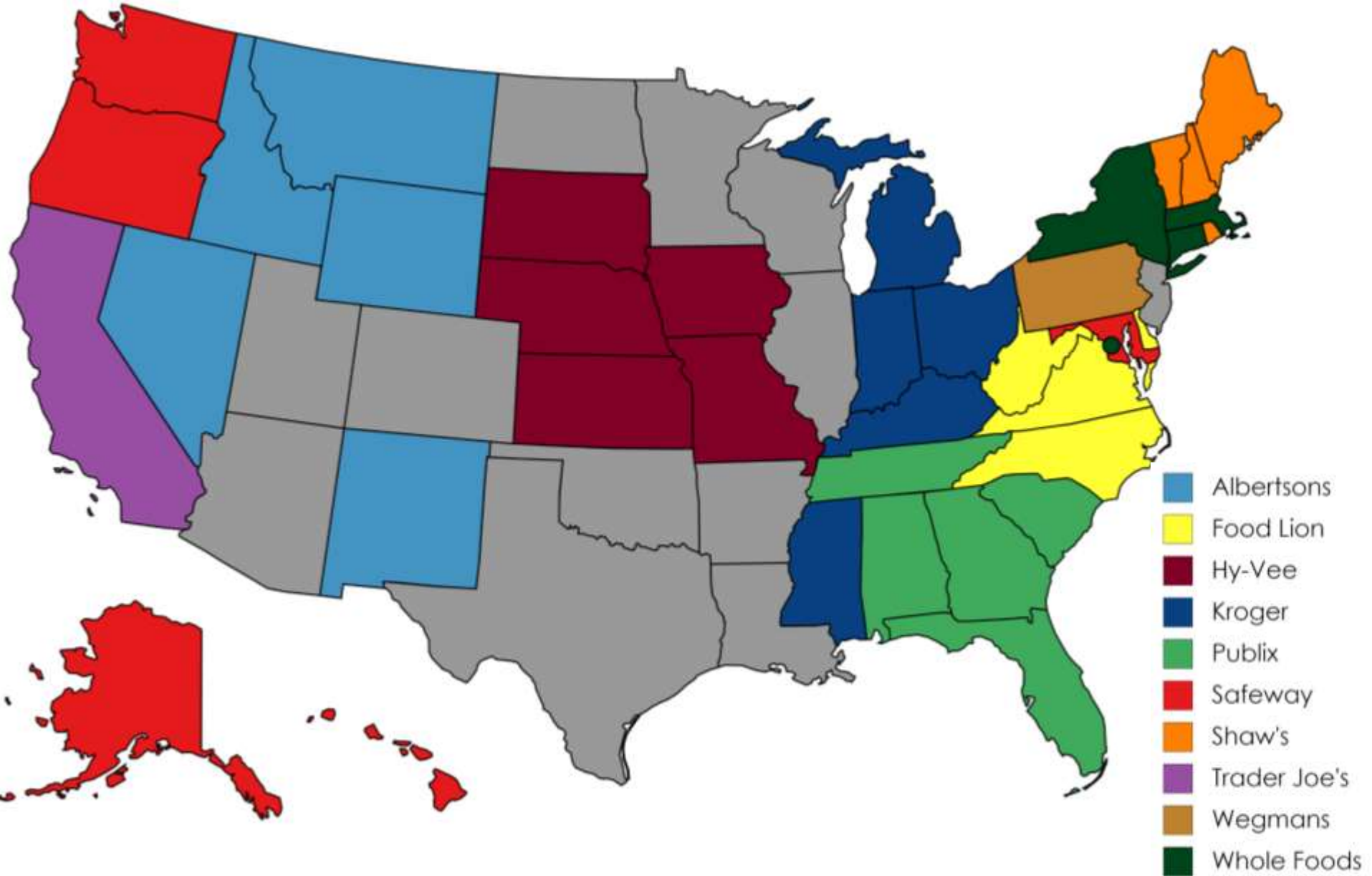
# Grocery Stores



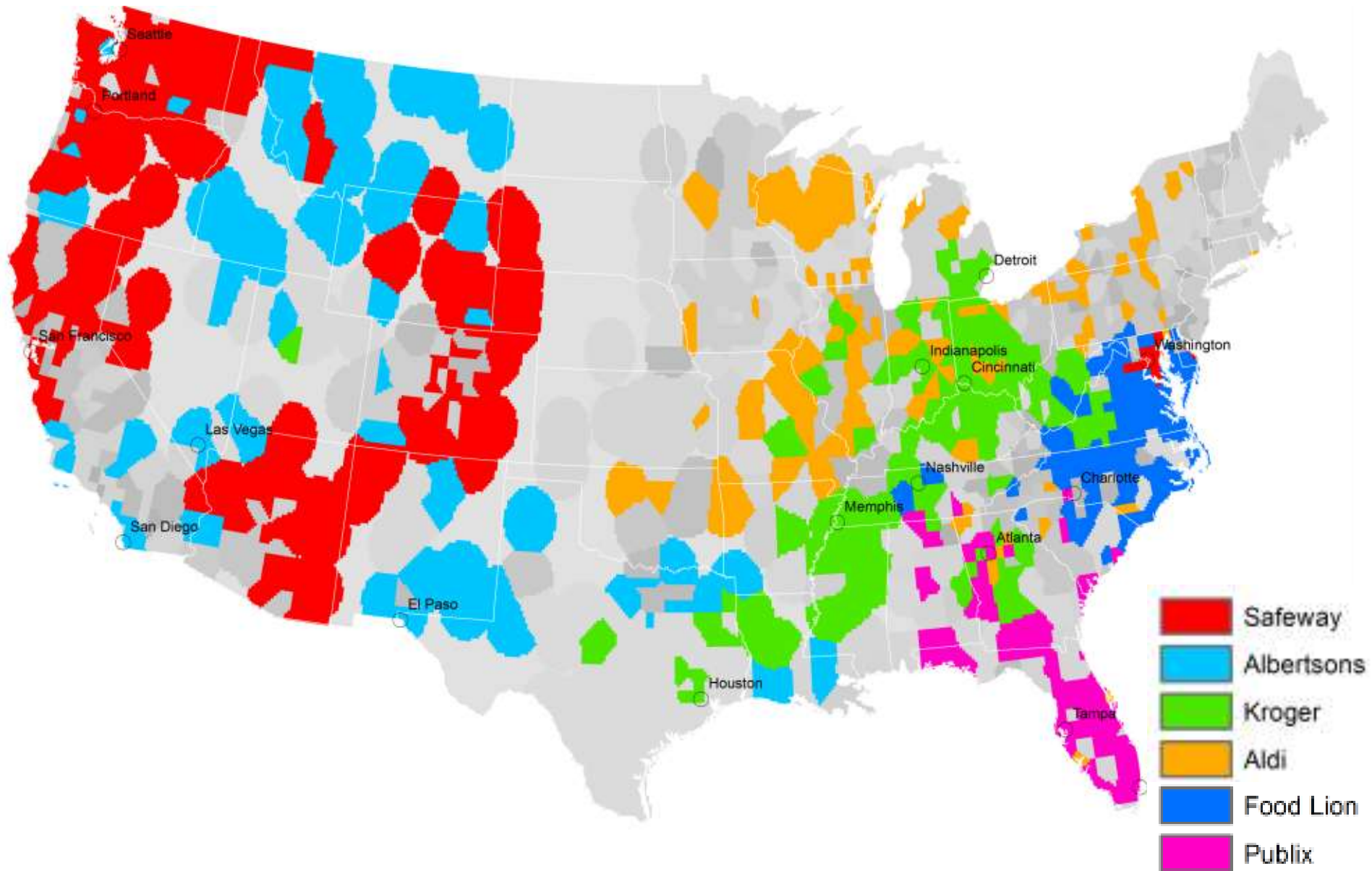
# Most Food Stores per State



# Grocery Stores



# Grocery Stores



# Trading Stamps

- 1910-2008 Customer loyalty programs
- 1957 peak, 1970's decline, 1990's ceased



# Trading Stamps

19-01  
19-02  
19-03  
19-04  
19-05  
19-06  
19-07  
19-08  
19-09  
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19-20  
19-21  
19-22  
19-23  
19-24

19-01 "TOPPIE" PLAY TABLE. Set including table, chairs, and stroller. \$1.95 book  
19-02 "TOPPIE" CHAIR. \$1.95 book  
19-03 "TOPPIE" STROLLER. \$1.95 book  
19-04 "TOPPIE" WAGON. \$1.95 book  
19-05 "TOPPIE" CLOCK. \$1.95 book  
19-06 "TOPPIE" CLOCK. \$1.95 book  
19-07 "TOPPIE" CLOCK. \$1.95 book  
19-08 "TOPPIE" CLOCK. \$1.95 book  
19-09 "TOPPIE" CLOCK. \$1.95 book  
19-10 "TOPPIE" CLOCK. \$1.95 book  
19-11 "TOPPIE" CLOCK. \$1.95 book  
19-12 "TOPPIE" CLOCK. \$1.95 book  
19-13 "TOPPIE" CLOCK. \$1.95 book  
19-14 "TOPPIE" CLOCK. \$1.95 book  
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19-19 "TOPPIE" CLOCK. \$1.95 book  
19-20 "TOPPIE" CLOCK. \$1.95 book  
19-21 "TOPPIE" CLOCK. \$1.95 book  
19-22 "TOPPIE" CLOCK. \$1.95 book  
19-23 "TOPPIE" CLOCK. \$1.95 book  
19-24 "TOPPIE" CLOCK. \$1.95 book

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SAVER BOOK

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Gold Bond USA

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100 Golden Tens or 10 Golden 100's

Redeem this book at any Gold Bond truck stop for

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**Top Value STAMP BOOK**

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SEE IMPORTANT INSTRUCTIONS INSIDE

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THE ADVENTURES OF **TOPPIE**

The Top Value Elephant

wonderful gifts for you... see inside!

# Timelines **Part 2**

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# **Automobile Tire Co's**

- **Could display by Era and Region**
- **Companies / brands over time –**  
**Admiral, Alliance, BFGoodrich, Bridgestone, Continental, Cooper, Dunlop, Firestone, General, Goodyear, Michelin, Patriot, Pirelli, Sebring, Sumitomo, Toyo, Uniroyal**
- **Recent NA Market share leaders –**  
**20% Goodyear, 19% Michelin, 17% Bridgestone, 9% Continental, 5% Pirelli**



# Department Stores

- **Could display by Era and Region**
- **Chains over time –**
  - Sears, Kmart, JP Penney, Saks, Belk, Woolco, Woolworth, Kohls, Pogue, Ayres, Shillitos, Macy's, Neiman Marcus, Zayre, Nordstrom, Dillard's, Meijer, Roses, Target, T.J. Maxx, Federated, May, Lazarus, Hills, Hecht's, Strawbridge's, Kaufmann's, Woodward & Lothrop, Wanamaker's, Marshall Field's, Elder-Beerman, Gaylords, Heck's, Mabley & Carew, McAlpin's, Swallen's, Van Leunen's, Walmart, ...**

# Timelines **Part 2**

- **Railroad Maps & Mergers**
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# Timelines **Part 1**

- **Rail Eras, Safety & Regulatory**
- **Railroad Technology Changes**
- **Steam Locomotives**
- **Automobile Companies**
- **Gas Stations / Oil Companies**
- **Road Signs & Markings**
- **Hamburger Chains**

# More Timelines?

- **Rail Car Builders – pass. and freight**
- **Cranes & Construction Equipment**
- **Coaling Stations – wood, steel, conc.**
- **Water Towers – wood, steel, conc.**
- **Farm Silos – wood, porcelain, Conc.**
- **Barn Types – by era and region**
- **Heavy Trucks and Fire Engines**
- **Bicycles & Motorcycles**
- **Airplanes & Airline Companies**

# More Timelines?

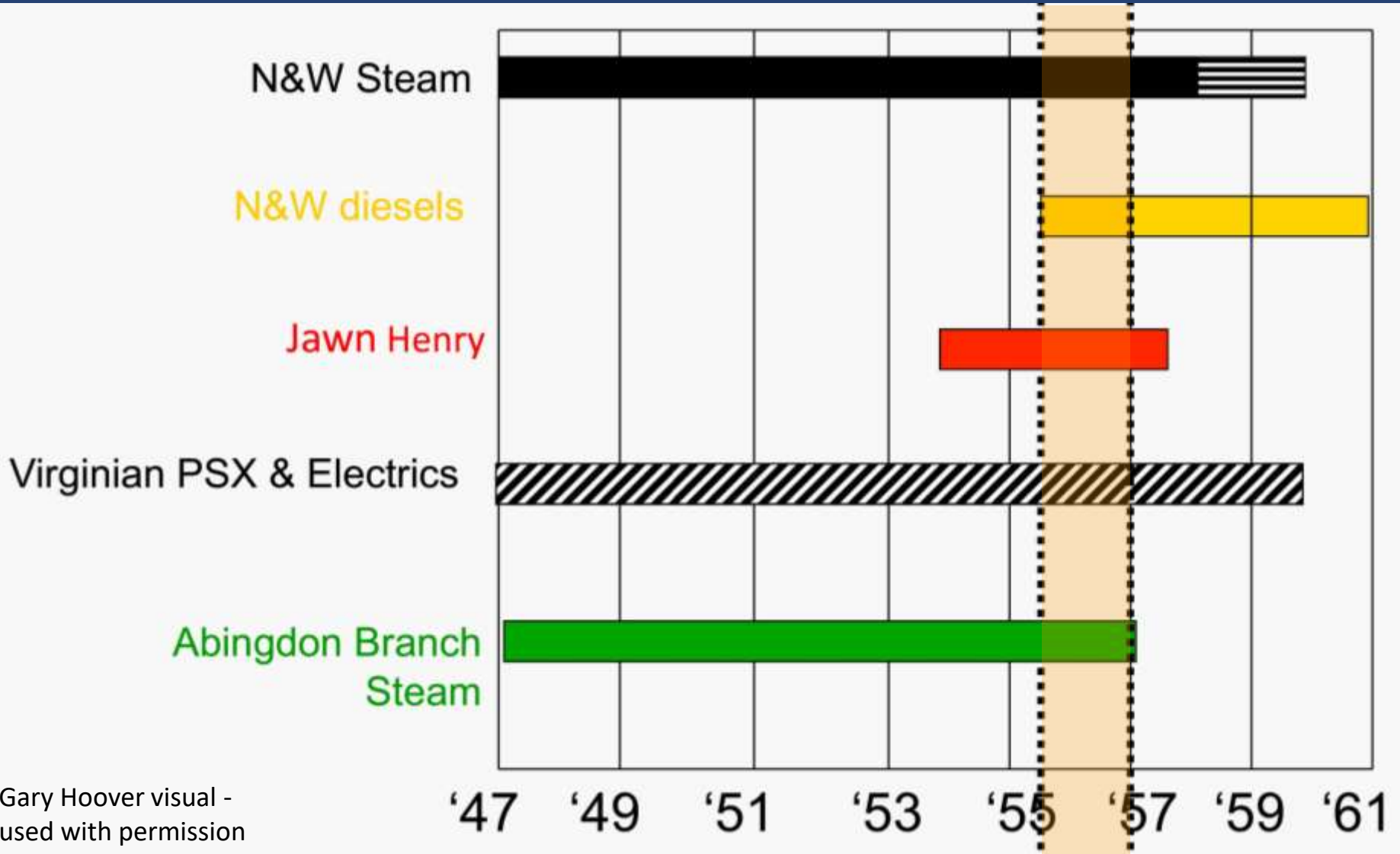
- **Stoplights & Streetlights**
- **Sidewalk Details (Hydrant, Mailbox ...)**
- **Utility Poles & Lines**
- **Drug Stores (Rexall, SuperX ...)**
- **Hardware Stores (Sears, Ace ...)**
- **Automotive Parts Stores**
- **Clothing & Furniture Stores**
- **Consumer Electronics – TV, Radio, ...**
- **Other Retail Stores**

# More Timelines?

- **Fast Food – Chicken, Pizza, Subs, ...**
- **Ice Cream (Good Humor, Sealtest, ...)**
- **Donut Shops**
- **Other Restaurants**
- **Coffee Brands**
- **Salted Snacks – Pretzels, Potato Chips**
- **Candy/Chocolates (Hersey, Cadburys)**
- **Chewing Gum (Wrigley, Bazooka, ...)**
- **Cereal Brands – Kellogg, Post, ...**

# Example Uses

# Gary Hoover's N&W





# The Eastern Loggers

- **Why early 1920's?**
- **Near end of logging boom**
  - **diverse wood product industries**
  - **petrochemicals emerging**
- **All steam – mostly geared locos**
- **36 ft freight cars dominant**
- **Mix of horse & buggy, plus autos**
- **Minimal regulations (EPA, OSHA, ...)**
- **Roaring Twenties (pre-depression)**

# **Why 1959 in Appalachia?**

- **Coal, cabooses, helpers still king**
- **Mostly 40 foot freight cars**
- **All 1<sup>st</sup> and some 2<sup>nd</sup> gen. Diesels**
- **Right before the mergers era**
- **Railroads still fairly healthy**
- **Passenger trains still running**
- **Mountains enable long runs on single level pike via parallel high-low mains**
- **Vertical scenery w/ bridges & tunnels**

# **Why not Multiple Eras?**

- Some modelers have locos, vehicles and rolling stock from multiple eras**
- These charts could be used to divide equipment stashes into specific eras**
- Then run different era-specific oper. sessions on different days using the appropriate group of rolling stock**
- Most structures and scenery can pass for a wide range of time**

# Wrapup

- **Now all this valuable historical data is in one place**
- **Use it to focus your modeling and purchases, plus add interest and uniqueness to your layout**
- **All slides are on the Modelers Aid tab of Cincinnati Division 7, MCR website ([www.cincy-div7.org](http://www.cincy-div7.org))**

**Questions?**