

Modelers Guide to



Part 1

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

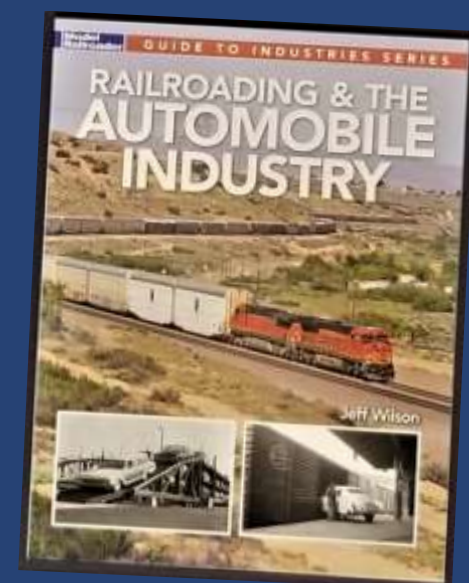
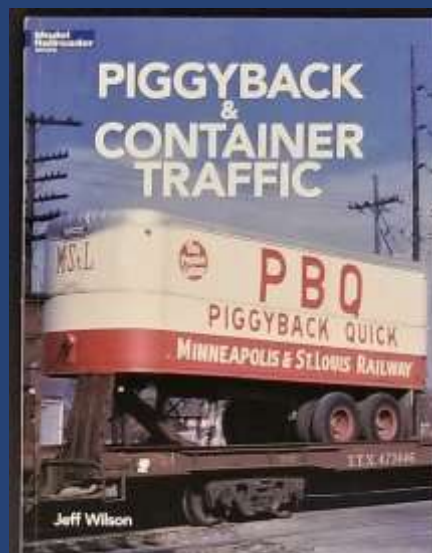
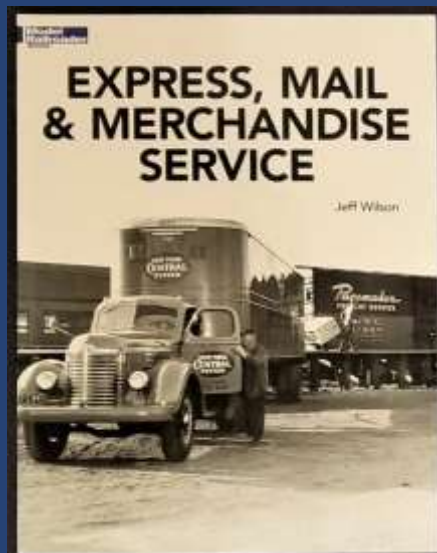
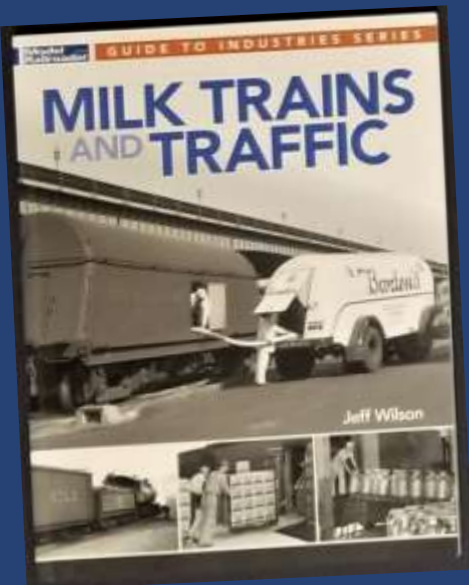
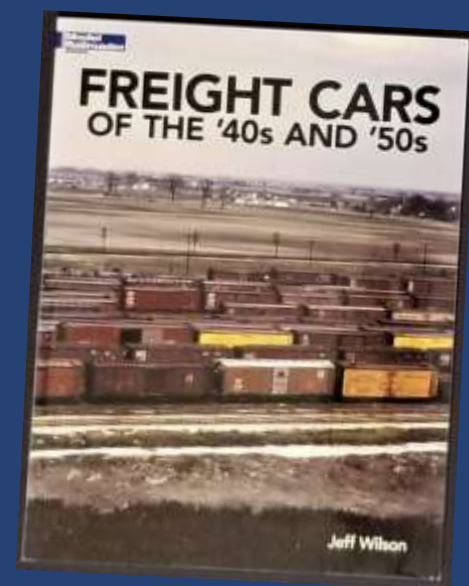
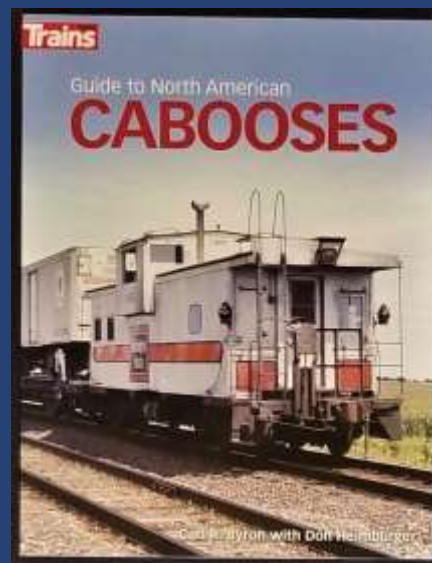
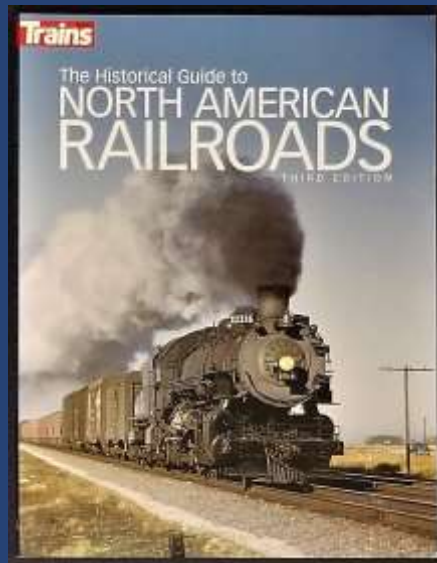
- **Railroad Maps & Mergers**
- **Diesel & Electric Locomotives**
- **Railroad Bridges & Trestles**
- **Farm Tractors**
- **Soda Bottles and Advertising**
- **Grocery Stores & Trading Stamps**
- **Other Study Areas**

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 3rd 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

1

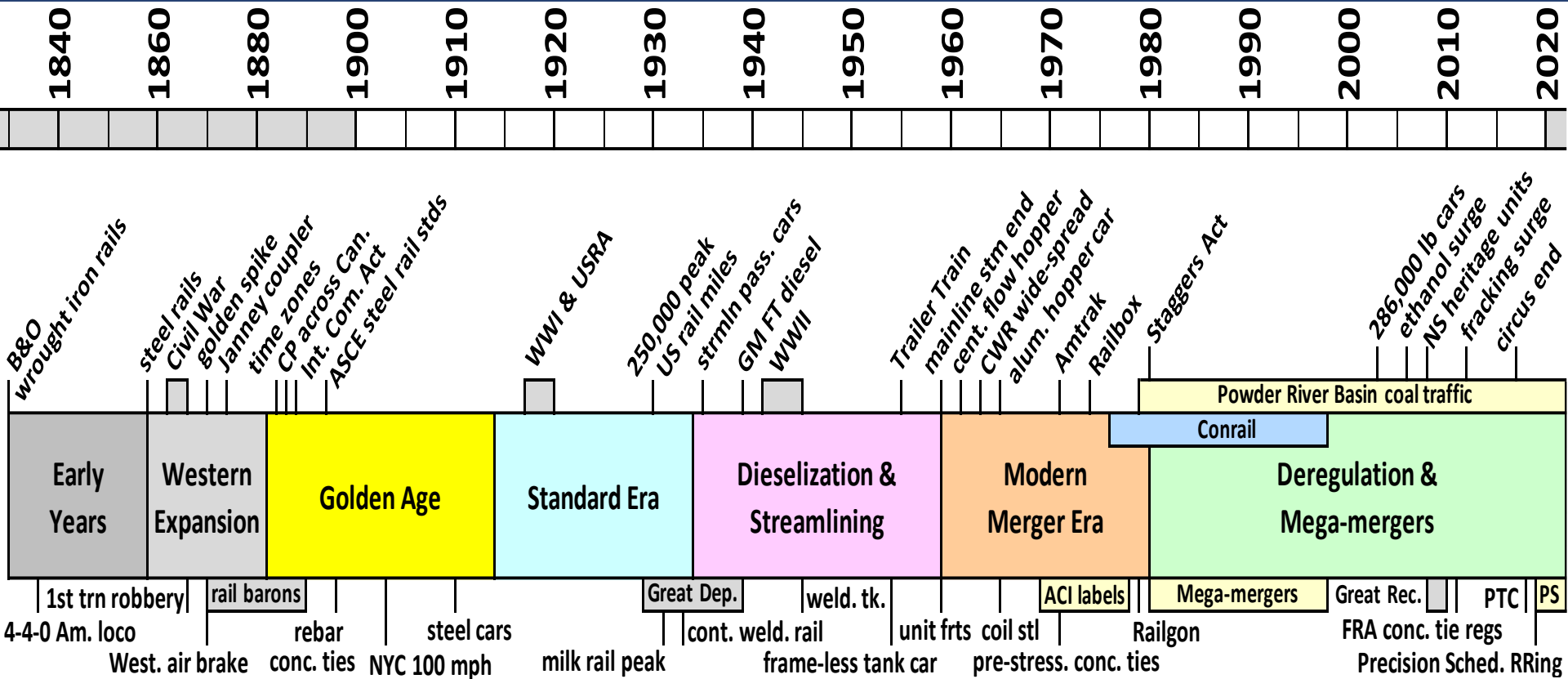
- **When were roof walks & arch bars banned?**
- **How long was transition to roller bearings?**
- **What was used before the milk bottle?**
- **Which USRA loco class made the most?**
- **Which steam loco class made the longest?**
- **Who owns Chrysler now? Bentley?**
- **Which longtime car maker has same logo?**
- **What were first stop and yield sign shapes?**
- **Which burger chain pioneered franchising?**
- **What colors dominate burger chain logos?**

Timelines

Part 1

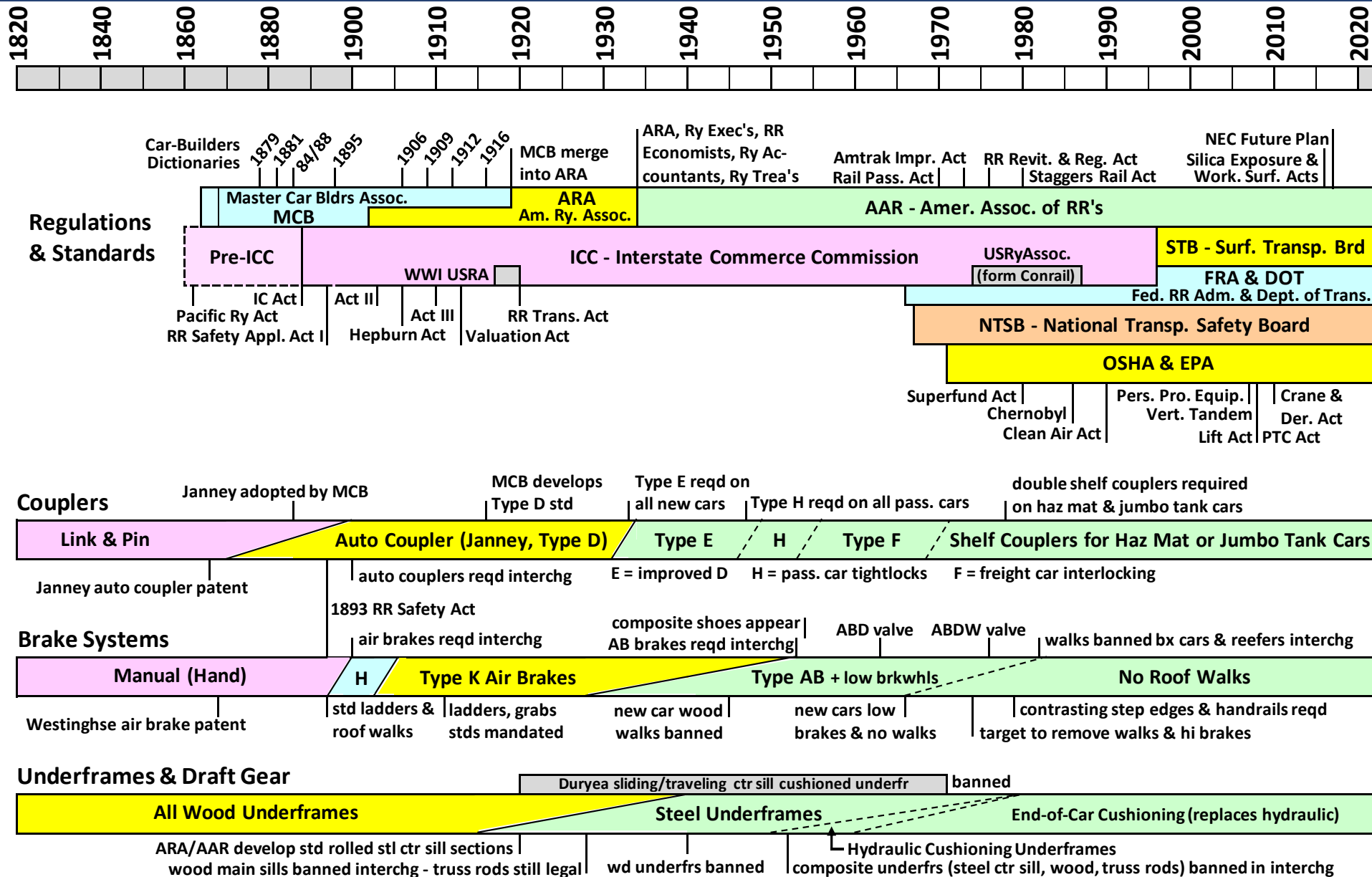
- **Rail Eras, Safety & Regulatory**
- **Railroad Technology Changes**
- **Steam Locomotives**
- **Automobile Companies**
- **Gas Stations / Oil Companies**
- **Road Signs & Markings**
- **Hamburger Chains**

Rail Eras & Milestones

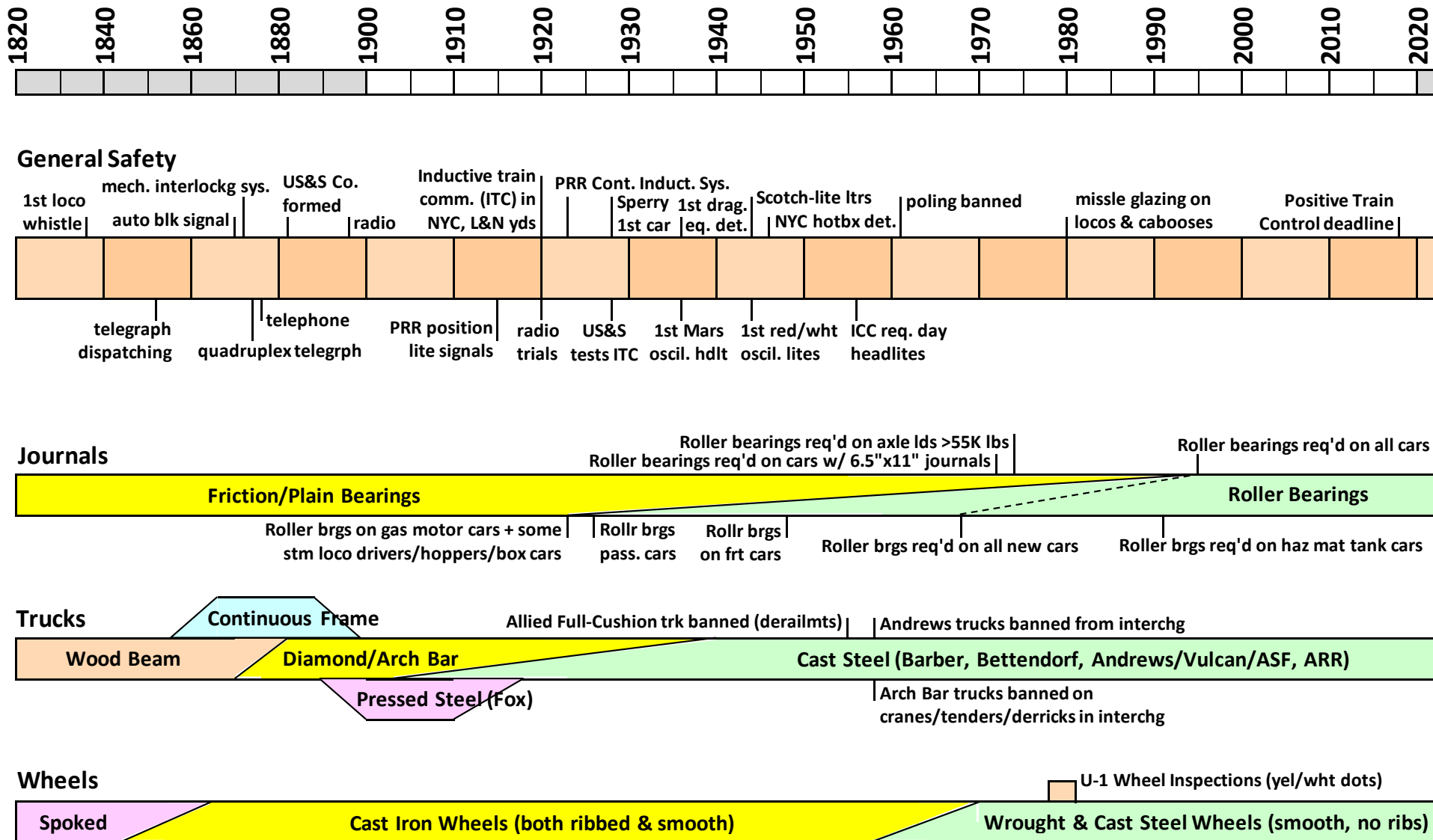


Each era has it's modeling pros and cons, with very different locomotives and rolling stock. Structures can span across several eras. Periods of economic depression may not be the most satisfying to model.

Rail Safety Regulations



Rail Safety Regulations



Timelines

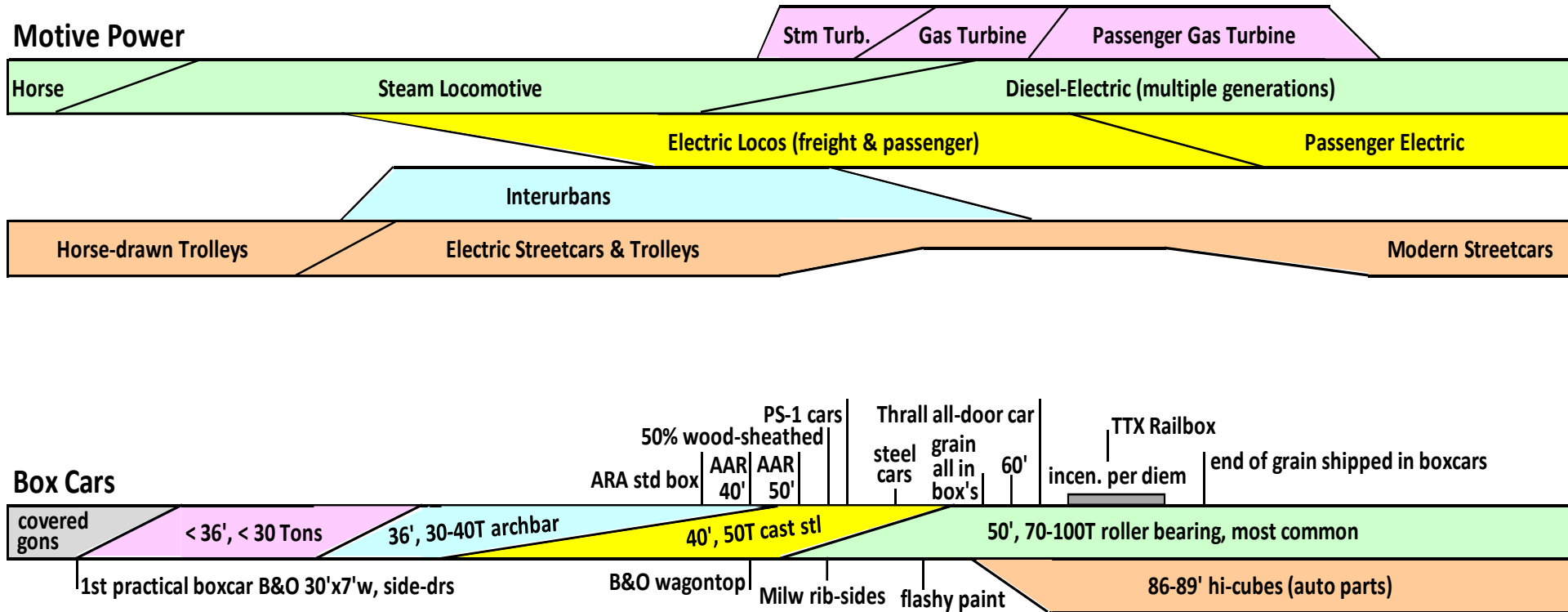
Part 1

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

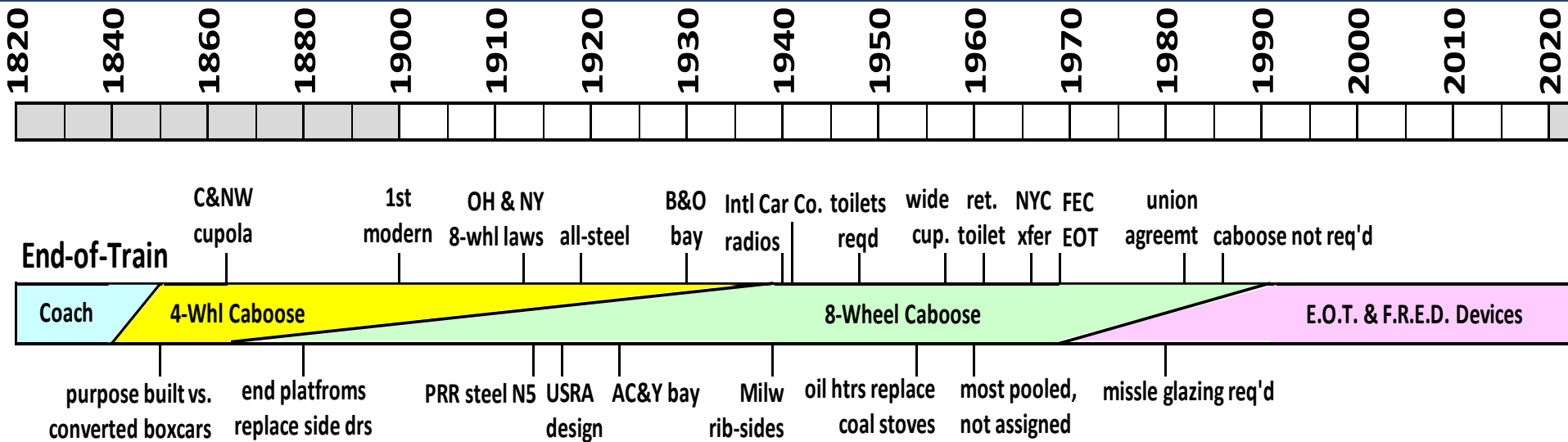
Rail Technology Changes

- **Motive Power Types**
- **Box Cars**
- **Cabooses / End-of-Train Devices**
- **Passenger Trains**
- **Mail and Express Cars**
- **Diary Shipments**
- **Reefers and Tank Cars**
- **Automobile & Intermodal Cars**

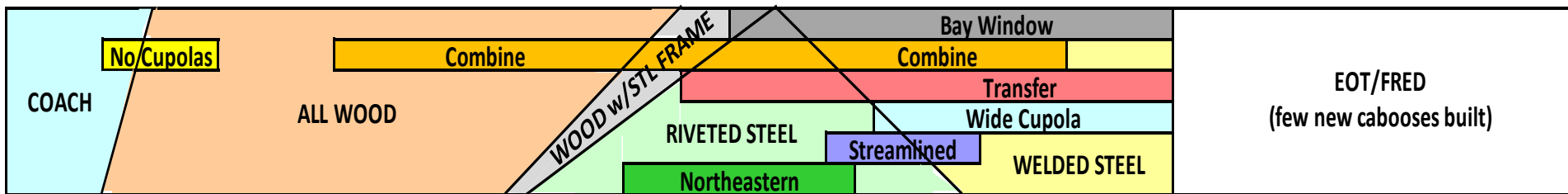
Railroad Technologies



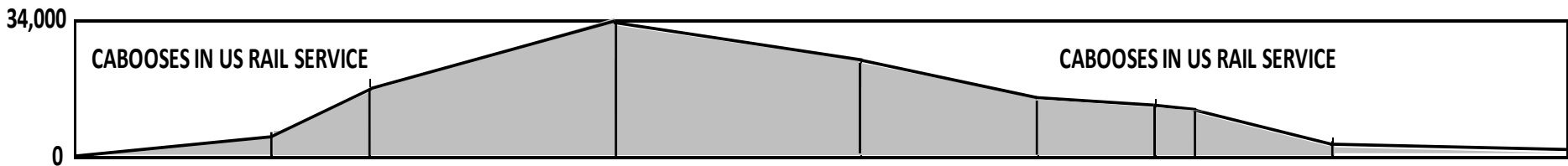
Railroad Technologies



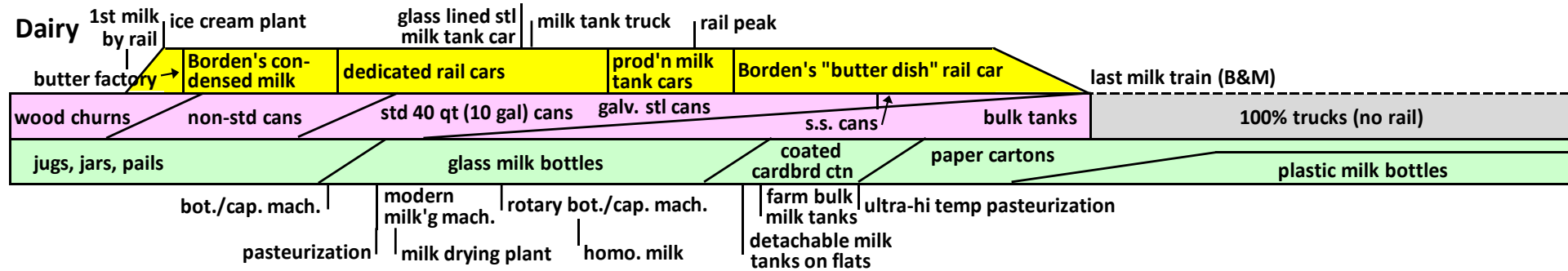
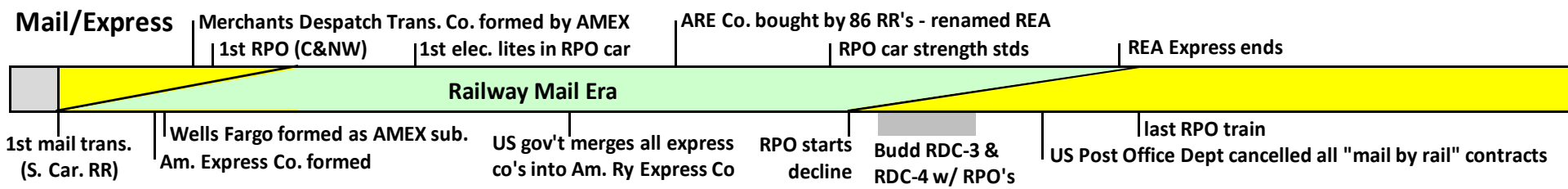
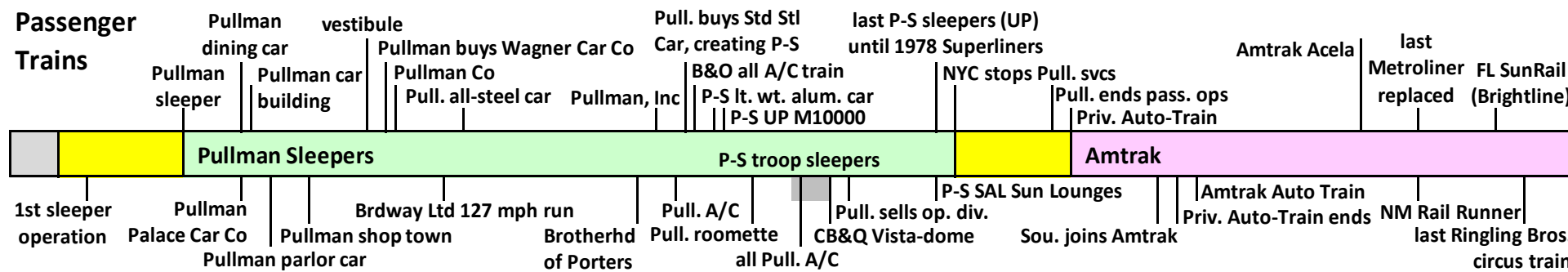
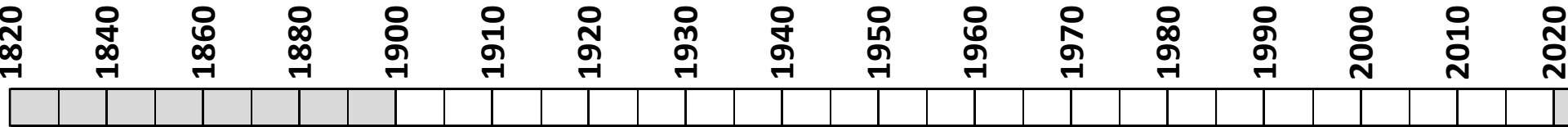
Caboose Construction & Types



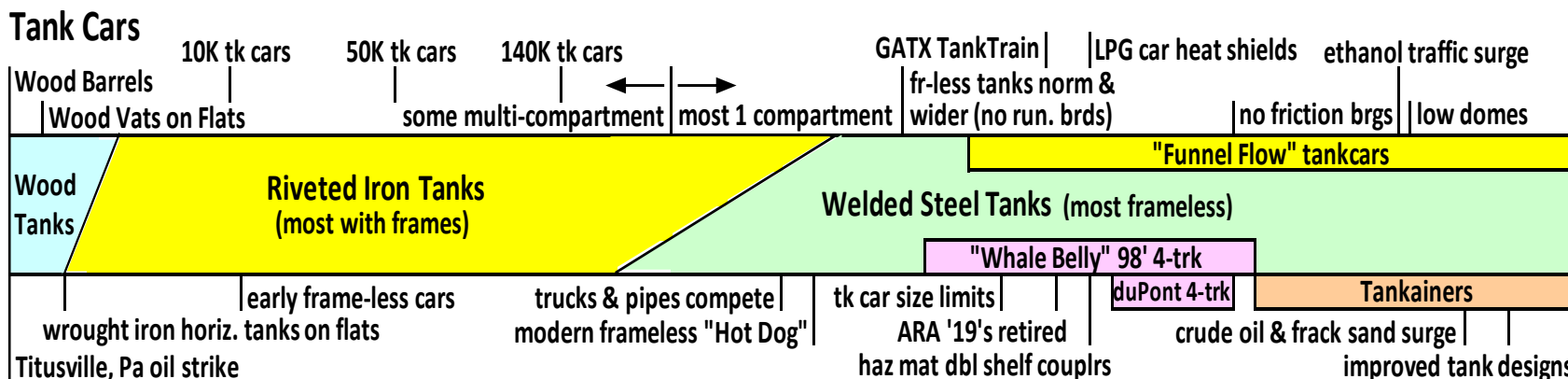
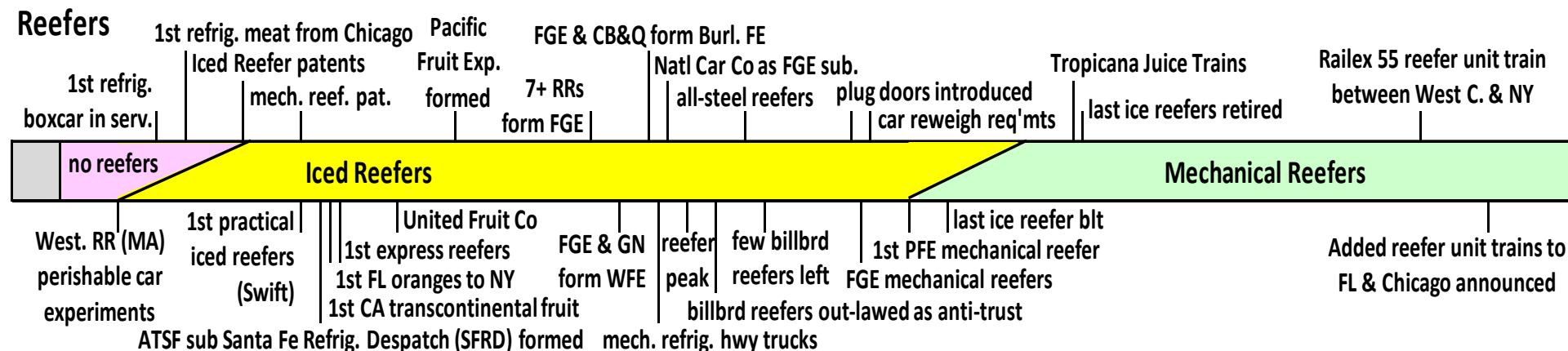
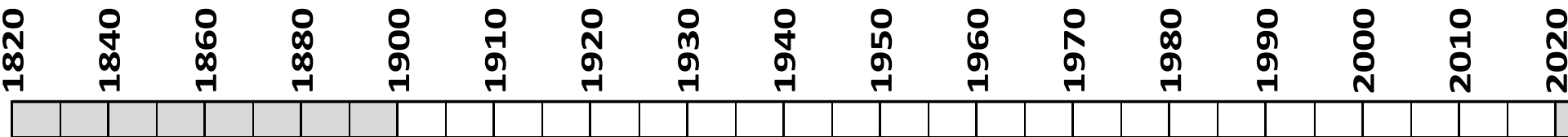
Cabooses in Service



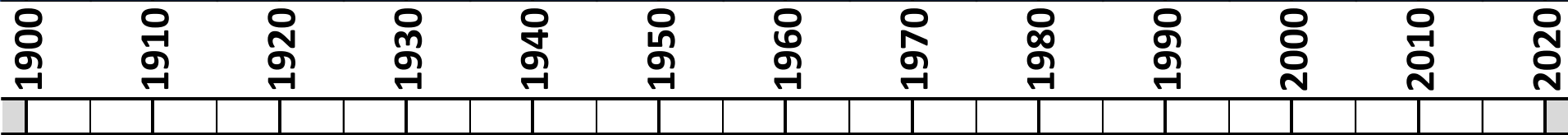
Railroad Technologies



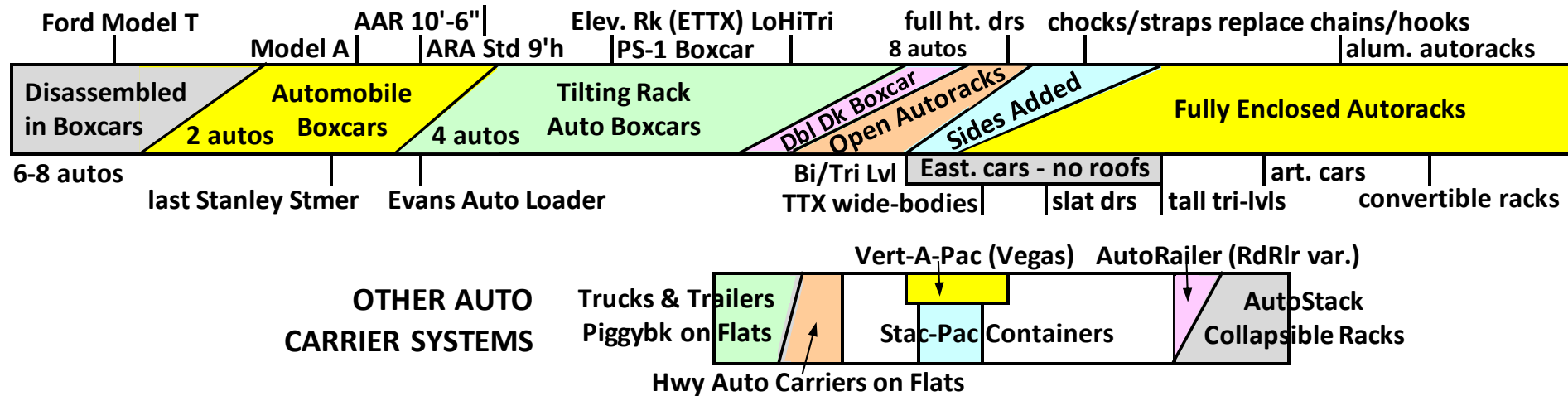
Reefers and Tank Cars



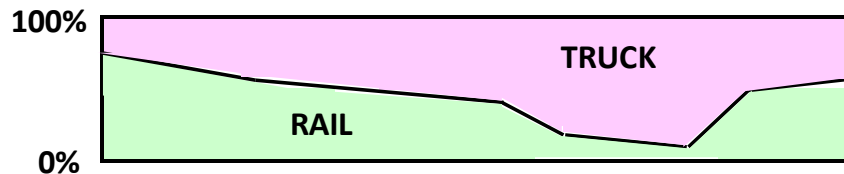
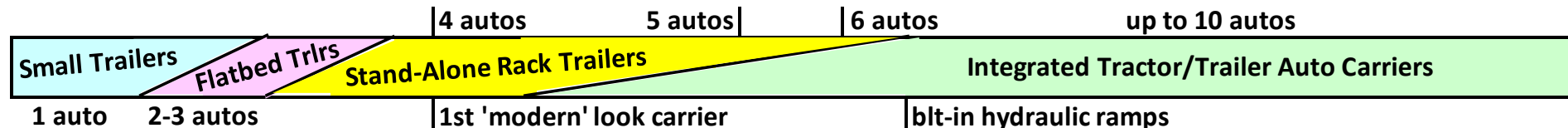
Auto Carrier Technologies



COMMON AUTO CARRIER SYSTEMS

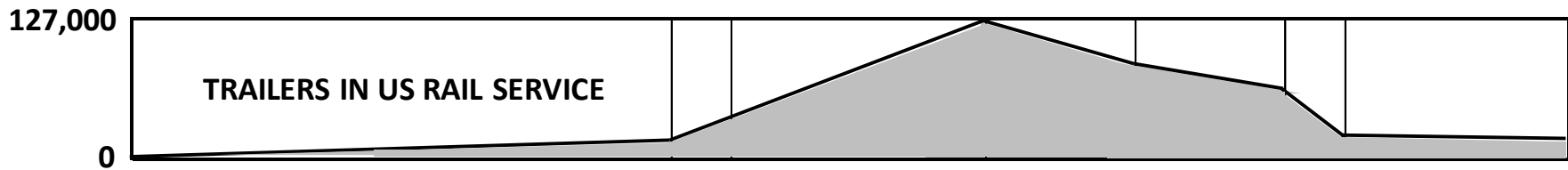
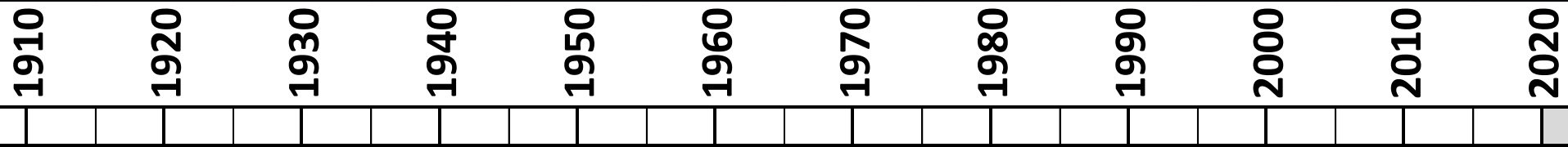


HIGHWAY AUTO CARRIER EVOLUTION

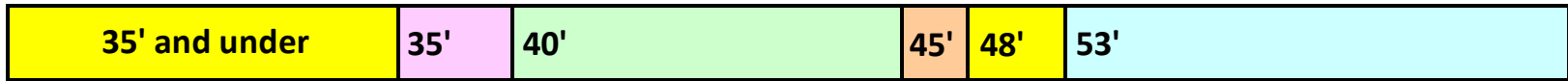


SHARE OF FINISHED
AUTO SHIPPING

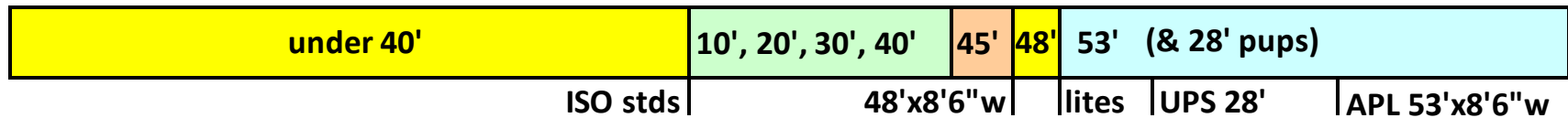
Intermodal Trends



LEGAL US TRAILER LENGTHS

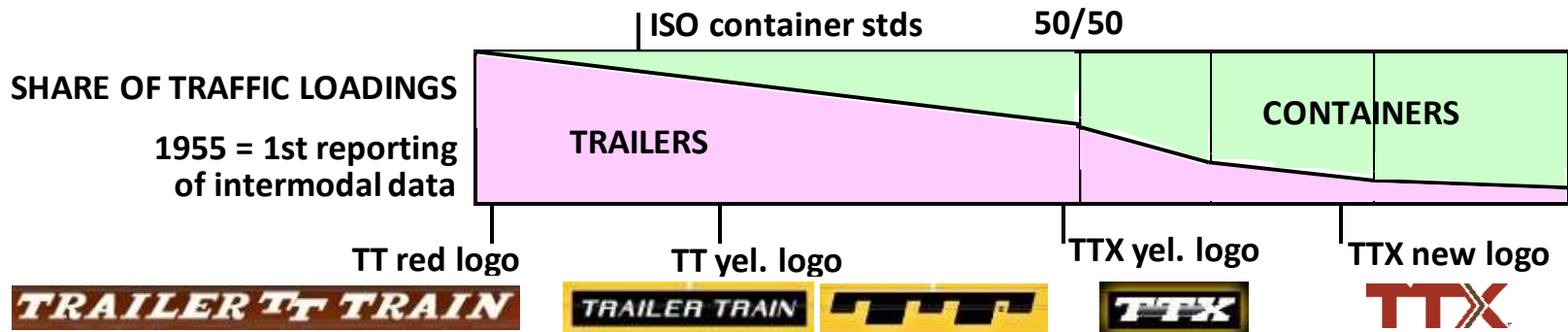


LEGAL US CONTAINER LENGTHS

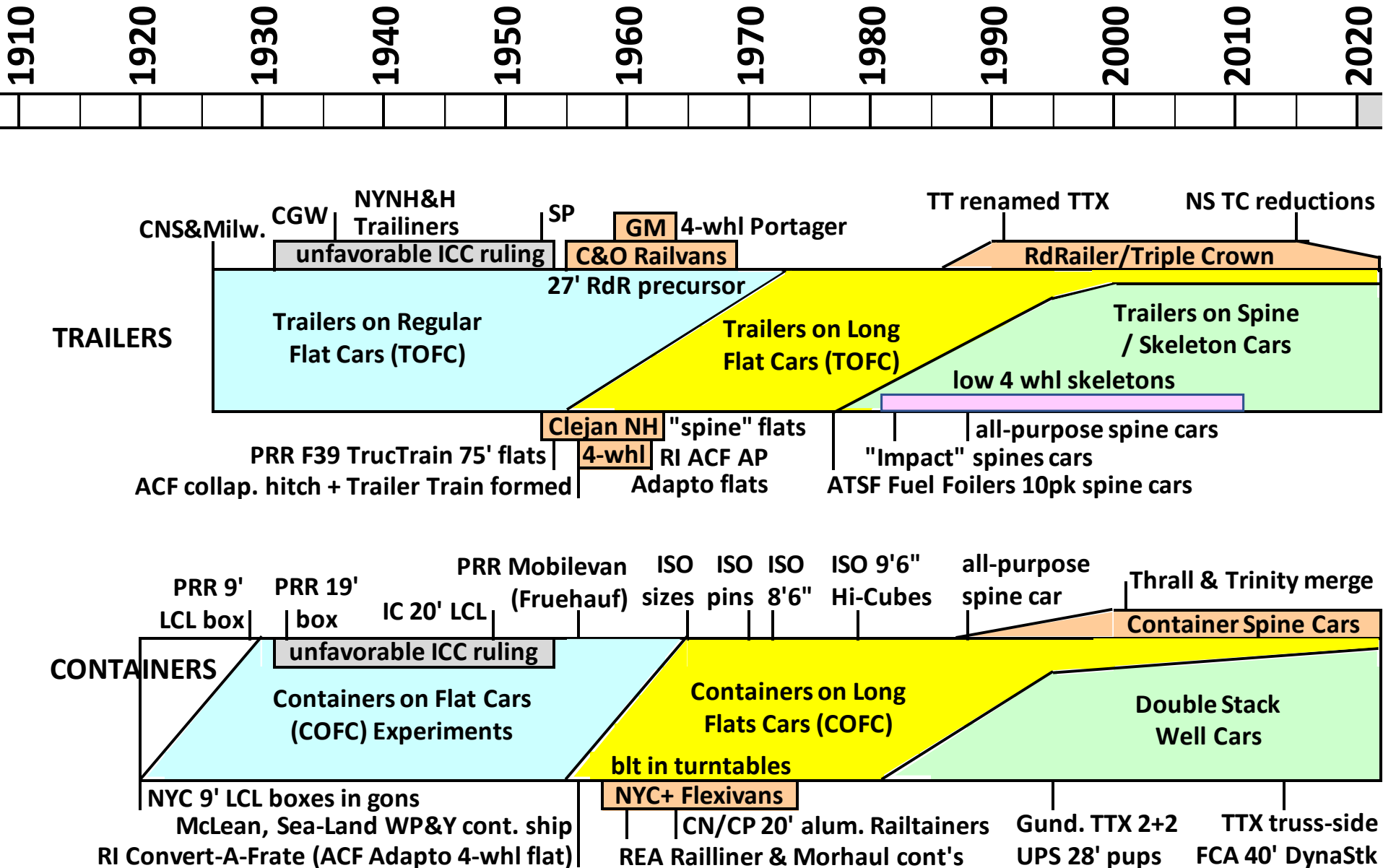


SHARE OF TRAFFIC LOADINGS

1955 = 1st reporting of intermodal data



Intermodal Technologies



Timelines

Part 1

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

Steam Locomotives

- **Baldwin**



- **Lima**



- **Alco**



- **Canadian**



- **Others**



- **Railroad Shops**



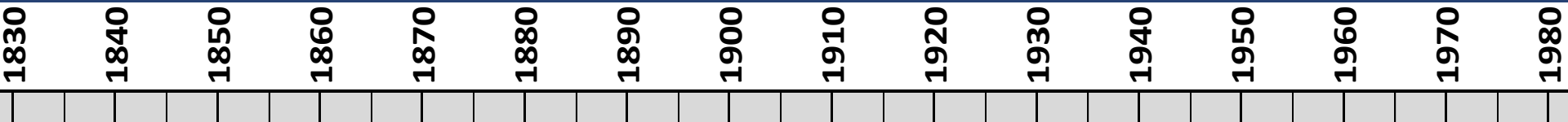
Steam Locomotives

USA Steam Loco Production

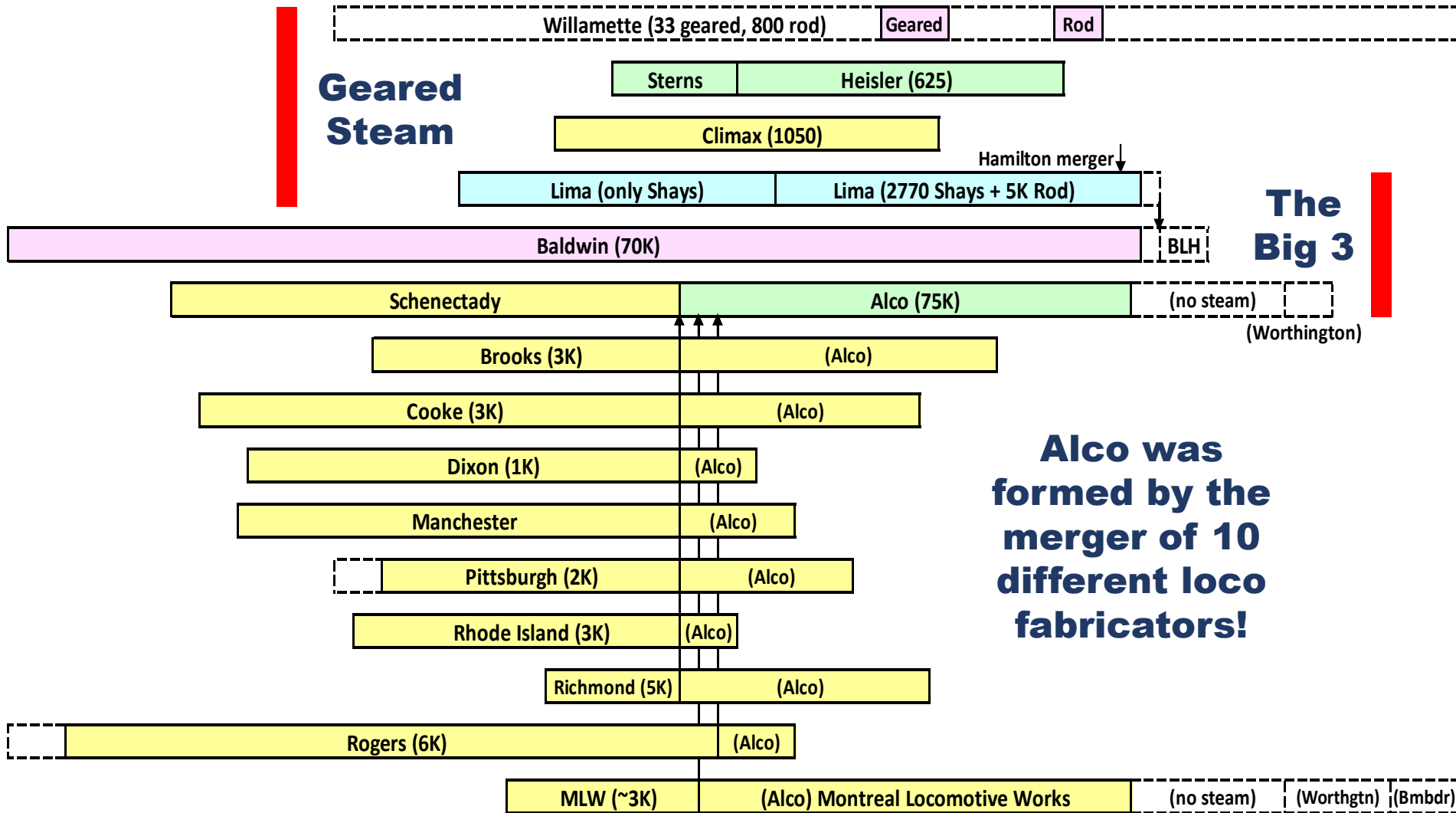
Class of Builder	# Builders	1831 - 1901	1901 - 1950	Total
> 100 units ea.	30	61,520	99,130	160,650
< 100 units ea.	63	1,350	0	1,350
Railroad Shops	70	7,130	5,870	13,000
Totals	163	70,000	105,000	175,000

Small builders largely disappeared with the 1901 mega-merger that formed Alco. Baldwin and Alco dominated steam loco production.

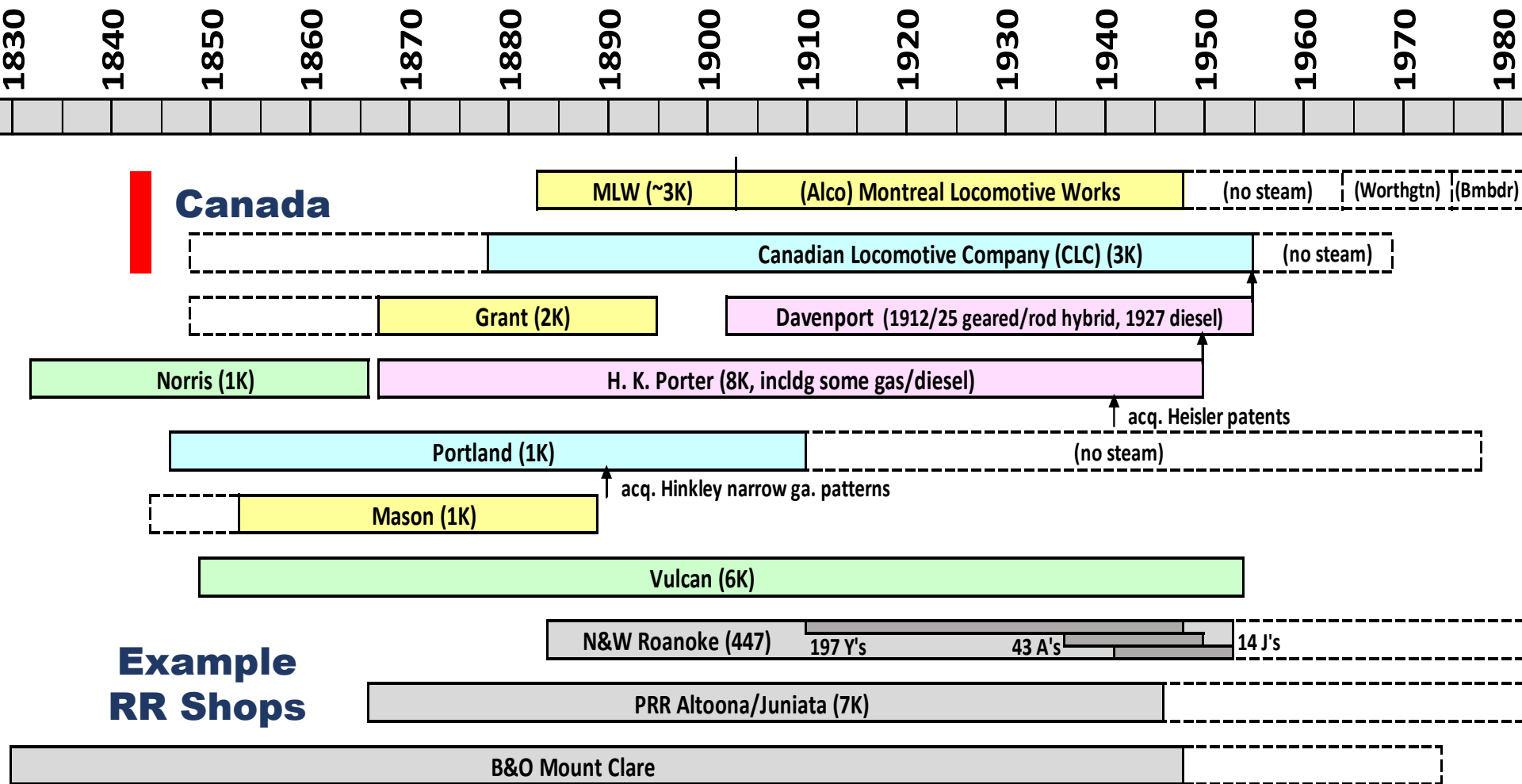
Steam Locomotive Co's



Geared Steam



Steam Locomotive Co's



PRR made almost as many steam locos as Lima!
N&W perfected 3 legendary classes – A, J and Y

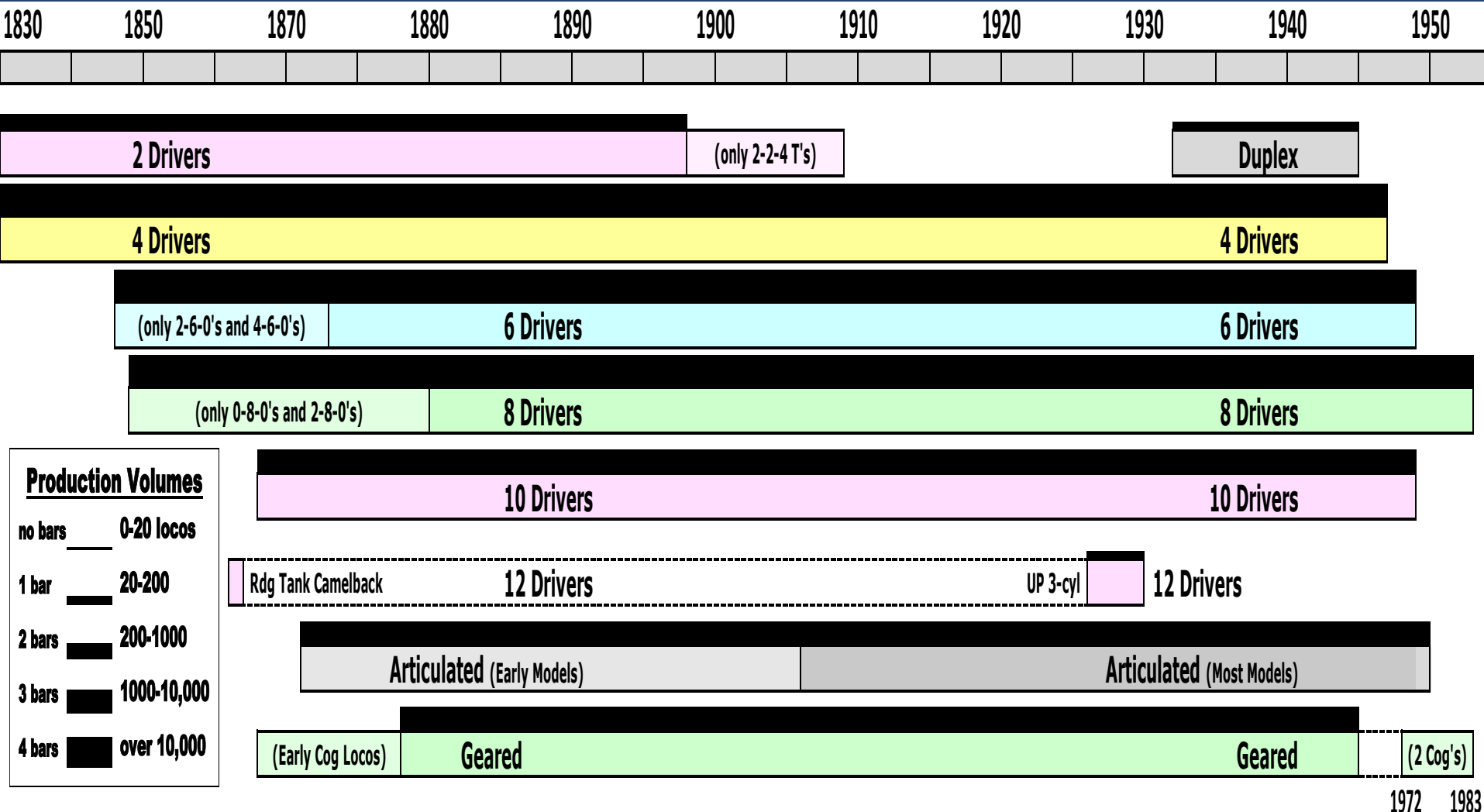
USRA Steam Locomotives

Common Name	USRA Type		USRA built	Total built
Six-Coupled	0-6-0		255*	300+
Eight-Coupled	0-8-0		175*	2,800
Mikado	2-8-2	Light	625	10,200
Mikado	2-8-2	Heavy	233	
Santa Fe	2-10-2	Light	94	2,200
Santa Fe	2-10-2	Heavy	175	
Pacific	4-6-2	Light	81	6,800
Pacific	4-6-2	Heavy	20	
Mountain	4-8-2	Light	47	2,204
Mountain	4-8-2	Heavy	15	
Mallet Mogul	2-6-6-2		30	1,300
Mallet Consolidation	2-8-8-2		106*	660

* many copies made after USRA dissolved

**The United States Railway Administration (USRA)
made 12 standard designs from 1917 to 1920**

Steam Locomotive Classes



Variants of most loco class made throughout steam era, except Duplexes only in 1930's/40's, 12 drivers only in 1860's & 1920's, 2 drivers ended ~1900, and only 2 & 4 drivers made in the first 18 yrs

Simplex Rod Locos

Approximate all-time NA production volumes

oO	0-2-2	Northumbrian	19
Oo	2-2-0	Planet	19
oOo	2-2-2T	Single	9
ooOo	2-2-4(T)	Aerolite	5
Ooo	4-2-0	Jervis	205
oOoo	4-2-2(T)	Bicycle	5
ooOoo	4-2-4(T)	Huntington	9
Oooo	6-2-0	Crampton	9

OO	0-4-0(T)	Four-Coupled	1,500
oOO	0-4-2	Olomana	300
ooOO	0-4-4	Four-Coupled Forney	100
OOo	2-4-0	Porter	300
oOOo	2-4-2	Columbia	200
ooOOo	2-4-4T	Boston	100
oooOOo	2-4-6T	-	13
OOoo	4-4-0	American	25,000
oOOoo	4-4-2	Atlantic	2,400
ooOOoo	4-4-4	Reading	33
oooOOoo	4-4-6	Annawomscutt	1

OOOOOO	0-12-0T	Twelve-Coupled	1
oOOOOOOoo	4-12-2	Union Pacific	88

OOO	0-6-0(T)	Six-Coupled	300
oOOO	0-6-2T	Branchliner	40
ooOOO	0-6-4T	Six-Coupled Forney	20
oooOOO	0-6-6T	William Mason	10
OOOo	2-6-0	Mogul	11,000
oOOOo	2-6-2(T)	Prairie	1,500
ooOOOo	2-6-4T	Adriatic	52
oooOOOo	2-6-6T	Suburban	70
OOOoo	4-6-0	Ten-Wheeler	16,000
oOOOoo	4-6-2	Pacific	6,800
ooOOOoo	4-6-4(T)	Hudson	525
oooOOOoo	4-6-6T	-	5

OOOO	0-8-0	Eight-Coupled	2,800
OOOOo	2-8-0	Consolidation	23,000
oOOOOo	2-8-2(T)	Mikado	10,200
ooOOOOo	2-8-4	Berkshire	750
oooOOOOo	2-8-6T	Mason Bogie	6
OOOOoo	4-8-0	Twelve-Wheeler	819
oOOOOoo	4-8-2	Mountain	2,204
ooOOOOoo	4-8-4	Northern	1,126
oooOOOOooo	6-8-6	PRR S2 Stm Turbine	1

OOOOO	0-10-0	Ten-Coupled	52
oOOOOO	0-10-2	Union	11
OOOOOo	2-10-0	Decapod	4,100
oOOOOOo	2-10-2	Santa Fe	2,204
ooOOOOOo	2-10-4	Texas	393
OOOOOoo	4-10-0	Mastodon	1
oOOOOOoo	4-10-2	Southern Pacific	60

USRA classes in yellow

Other Steam Locos

Approximate all-time NA production volumes

Articulated

00-00	0-4-4-0T	Double Fairlie	2
o00-00o	2-4-4-2	Skookum	3
o000-00oo	4-4-6-2	(AT&SF)	2
000-000	0-6-6-0 (T)	Erie (Mallet)	80
000-000o	2-6-6-0	(VGN Class AA)	30
o000-000o	2-6-6-2 (T)	Mallet Mogul	1,300
oo000-000o	2-6-6-4	(N&W A)	60
ooo000-000o	2-6-6-6	Allegheny	68
o000-000oo	4-6-6-2	SP AM-2 Cab Fwd	12
oo000-000oo	4-6-6-4	Challenger	252
0000-000o	2-6-8-0	-	66
0000-0000	0-8-8-0	Angus Mallet	150
0000-0000o	2-8-8-0	Bullmoose Mallet	176
o0000-0000o	2-8-8-2	Mallet Consolidation	660
oo0000-0000o	2-8-8-4	Yellowstone	78
o0000-0000oo	4-8-8-2	Cab Forward	194
oo0000-0000oo	4-8-8-4	Big Boy	25
o00000-00000o	2-10-10-2	Santa Fe Mallet	20
o0000-0000-0000o	2-8-8-8-2	Erie Triplex	3
oo0000-0000-0000o	2-8-8-8-4	Virginian Triplex	1

Duplex

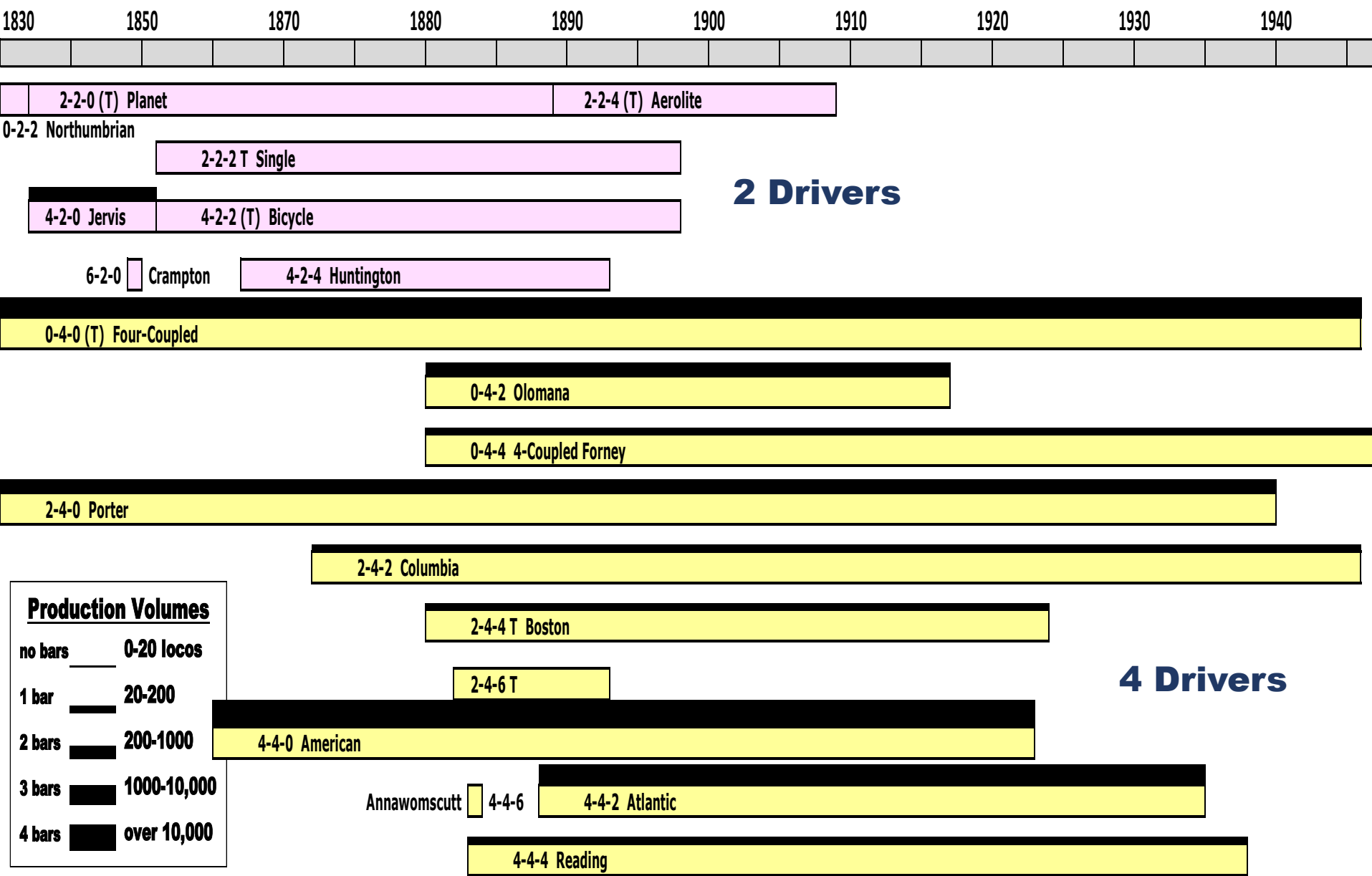
00 00	0-4-4-0T	Vulcan Duplex	7
oo00 00oo	4-4-4-4	(PRR T1 Duplex)	53
ooo00 00ooo	6-4-4-6	(PRR S1 Duplex)	1
oo000 00oo	4-4-6-4	(PRR Q2 Duplex)	26
oo00 000oo	4-6-4-4	(PRR Q1 Duplex)	1

Geared

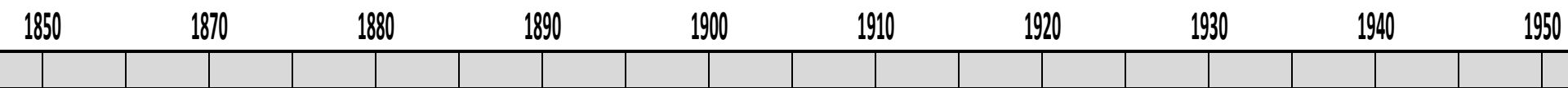
00-00 / 00-00-00	Shay	Shay	2,770
00-00 / 00-00-00	Climax	Climax	1,100
00-00 / 00-00-00	Heisler	Heisler	625
00-00 / 00-00-00	Willamette	Willamette	33
00-00 ?	Baldwin	Shay-like Geared	5
00-00	Byers	Geared	5
00 / 00-00	Davenport	Hybrid Geared/Rod	28
00-00	Dewey	Geared	43
00-00	Dunkirk	Gilbert Geared	50
several	Cog/Rack	Cog Locos	16

USRA classes in yellow

Steam Loco Class Details



Steam Loco Class Details



6 Drivers

0-6-0 (T) Six-Coupled (USRA)

0-6-2 T Branchliner

0-6-4 T Six-Coupled Forney

0-6-6 T William Mason

2-6-2 (T) Prairie

rigid frame swivel frame 2-6-0 Mogul

Production Volumes	
no bars	0-20 locos
1 bar	20-200
2 bars	200-1000
3 bars	1000-10,000
4 bars	over 10,000

4-6-4 (T) Hudson

2-6-4 T Adriatic

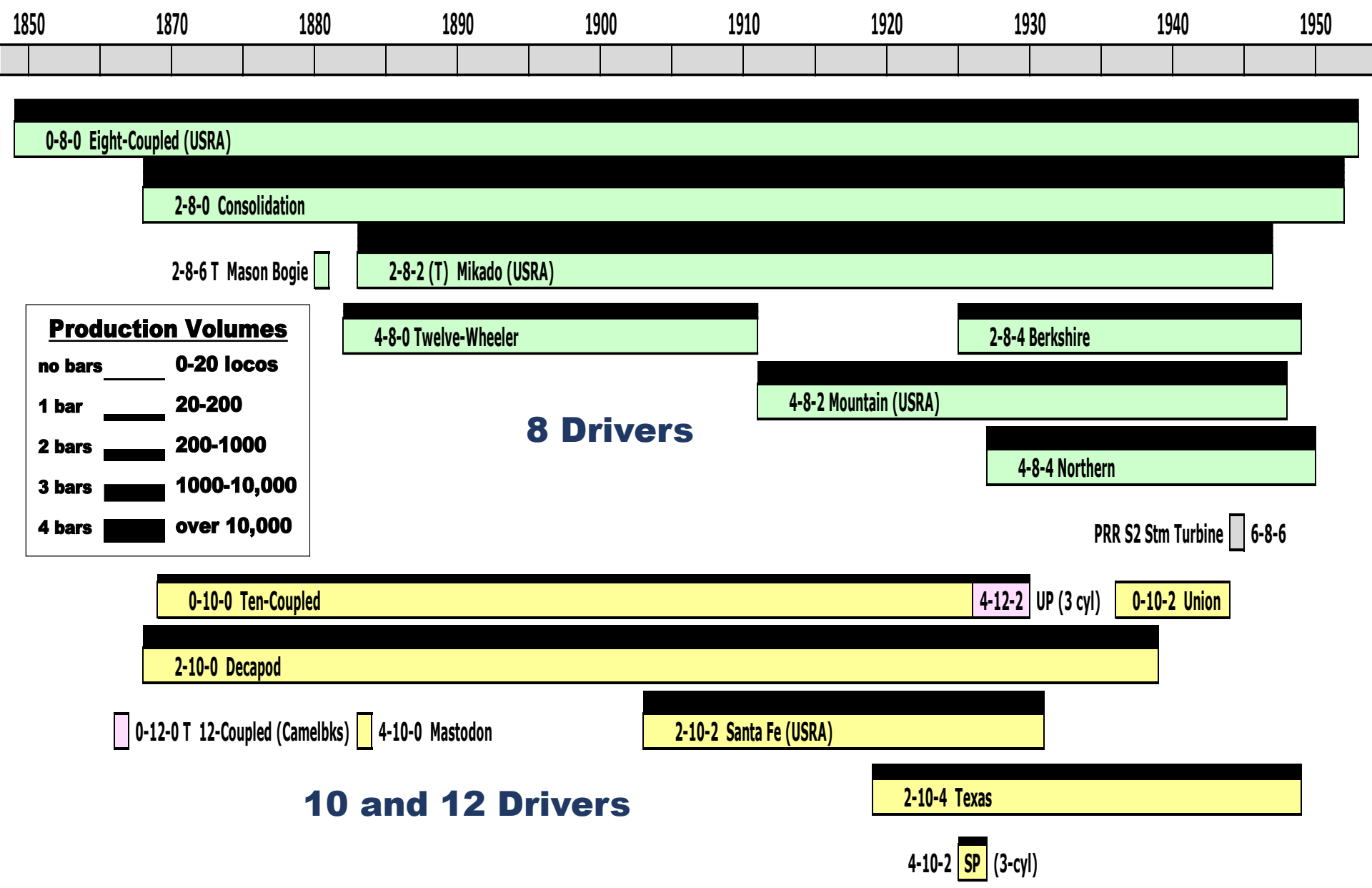
4-6-6 T

2-6-6 T Suburban

4-6-0 Ten-Wheeler

4-6-2 Pacific (USRA)

Steam Loco Class Details



Steam Loco Class Details

1870 1880 1890 1900 1910 1920 1930 1940 1950

0-4-4-0T Double Fairlie

4-4-6-2 (ATSF)

4-6-6-2 Cab Fwd SP AM-2

Allegheny or Blue Ridge

2-6-6-6

Articulated

2-4-4-2 Skookum

2-8-8-0 Bull Moose, Consolidation Mallet

0-6-6-0 (T) Erie

Erie 2-8-8-2 Triplex

4-6-6-4 Challenger

2-6-6-0 Virginian Class AA

2-6-6-4 N&W Class A

Production Volumes

no bars	0-20 locos
1 bar	20-200
2 bars	200-1000
3 bars	1000-10,000
4 bars	over 10,000

2-6-6-2 (T) Mallet Mogul, Prairie Mallet (USRA)

2-6-8-0

VGN 2-8-8-4 Triplex

2-8-8-4 Yellowstone, Cab Fwd AC-9

0-8-8-0 Angus

4-8-8-2 Cab Fwd (SP AC-4+ x-9)

2-8-8-2 Chesapeake, Mallet Consolidation, N&W Y Classes, AC-1/3 Cab Fwd (USRA)

2-10-10-2 Santa Fe Mallet

4-8-8-4 Big Boy

1870 1880 1890 1900 1910 1920 1930 1940 1950

PRR dominated the duplex loco field, with the T1 and Q2 being the most successful versions

Duplex

0-4-4-0T Vulcan Duplex 4-6-4-4 PRR Q1

4-4-4-4 PRR T1, B&O N-1

6-4-4-6 PRR S1 "Pennsylvania" 4-4-6-4 PRR Q2

Steam Loco Class Details

1870

1880

1890

1900

1910

1920

1930

1940

Geared Steam Locos

Shays (2-cyl, 2-trk Class A, 3-cyl Class B, 3-trk Class C, 4-trk Class D and 2-cyl, 3-trk Special Class)

Climax (vert. cyl, 2-trk Class A, incl. cyl., Class B, 3-trk Class C)

Heisler (Eleven 2-trk and 3-trk versions)

Byers Geared 0-4-0T's

"Shay"-like

Geared

Baldwins

Willamette

1972

1983

Camp. Whit. (Mt. Wash.), Manchester (Mt. Wash.) & Baldwin (Pikes Pk) blt Cog Locos

Davenport Hybrid Geared/Rod

Mt. Wash. Shop blt Cogs

Dunkirk "Gilbert" Geared

Dewey Geared 0-4-0T's and 0-4-2T's

**Shays, Climaxes, Heislars and
Willamettes were not the only
geared steam locomotives**

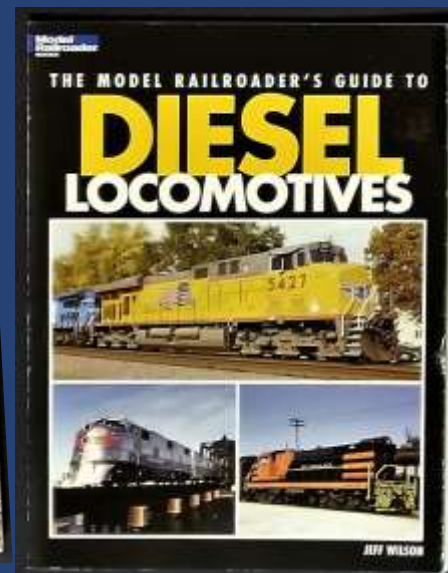
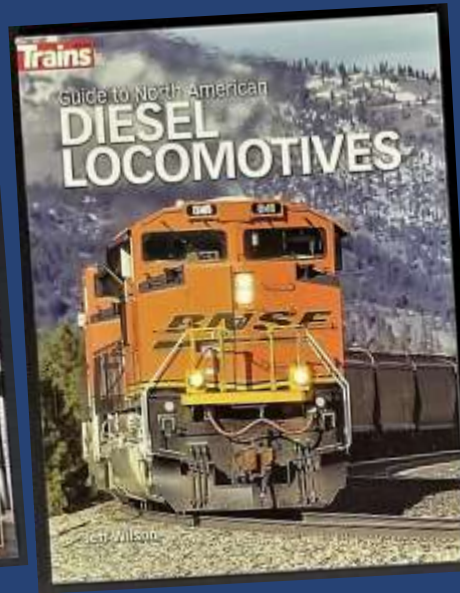
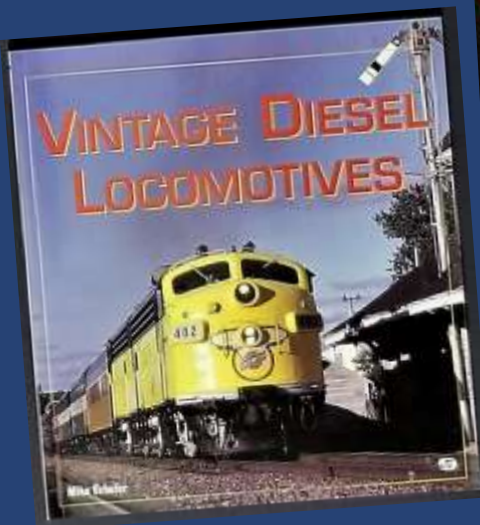
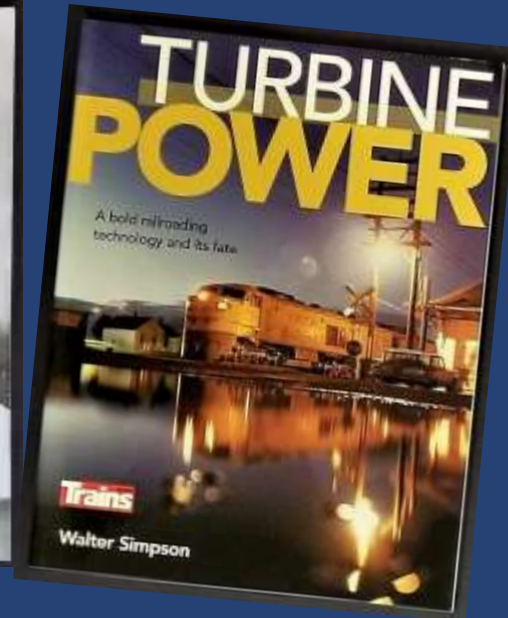
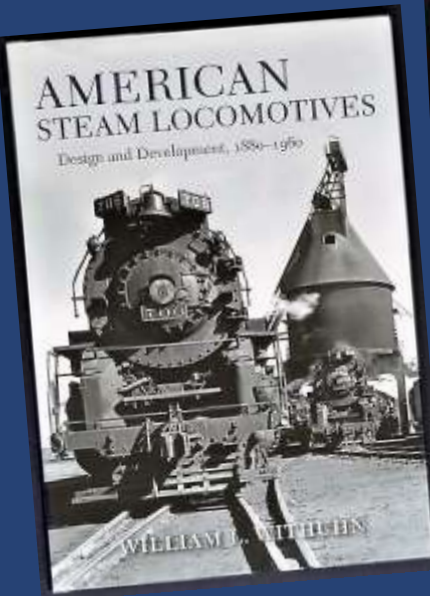
Production Volumes

no bars	_____	0-20 locos
1 bar	_____	20-200
2 bars	_____	200-1000
3 bars	_____	1000-10,000
4 bars	_____	over 10,000

Steam Loco Observations

- **Lima production << BLW or Alco**
- **PRR built similar numbers as Lima**
- **Class leaders: 4-4-0, 4-6-0, 2-6-0, 2-8-0, 2-8-2, 2-6-6-2, 2-8-8-2, Shay**
- **Mikados, Pacifics = most made USRA's**
- **Longest production span: 0-4-0, 0-8-0**
- **PRR dominated Duplexes: 4 models**
- **Both Triplexes failed – lack of steam**
- **Shay, Climax, Heisler, Willamette not the only geared loco types**

Locomotive References

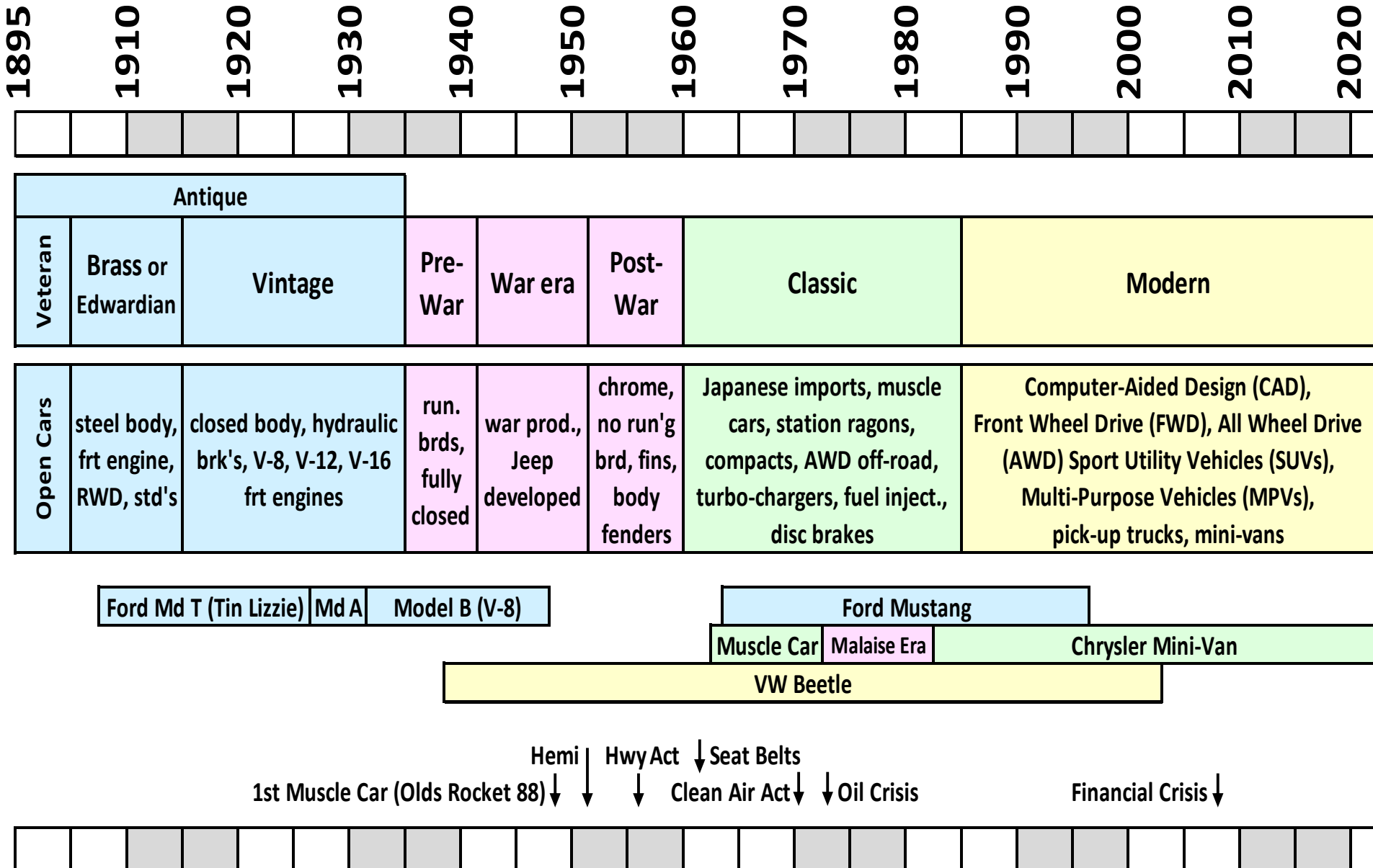


Timelines

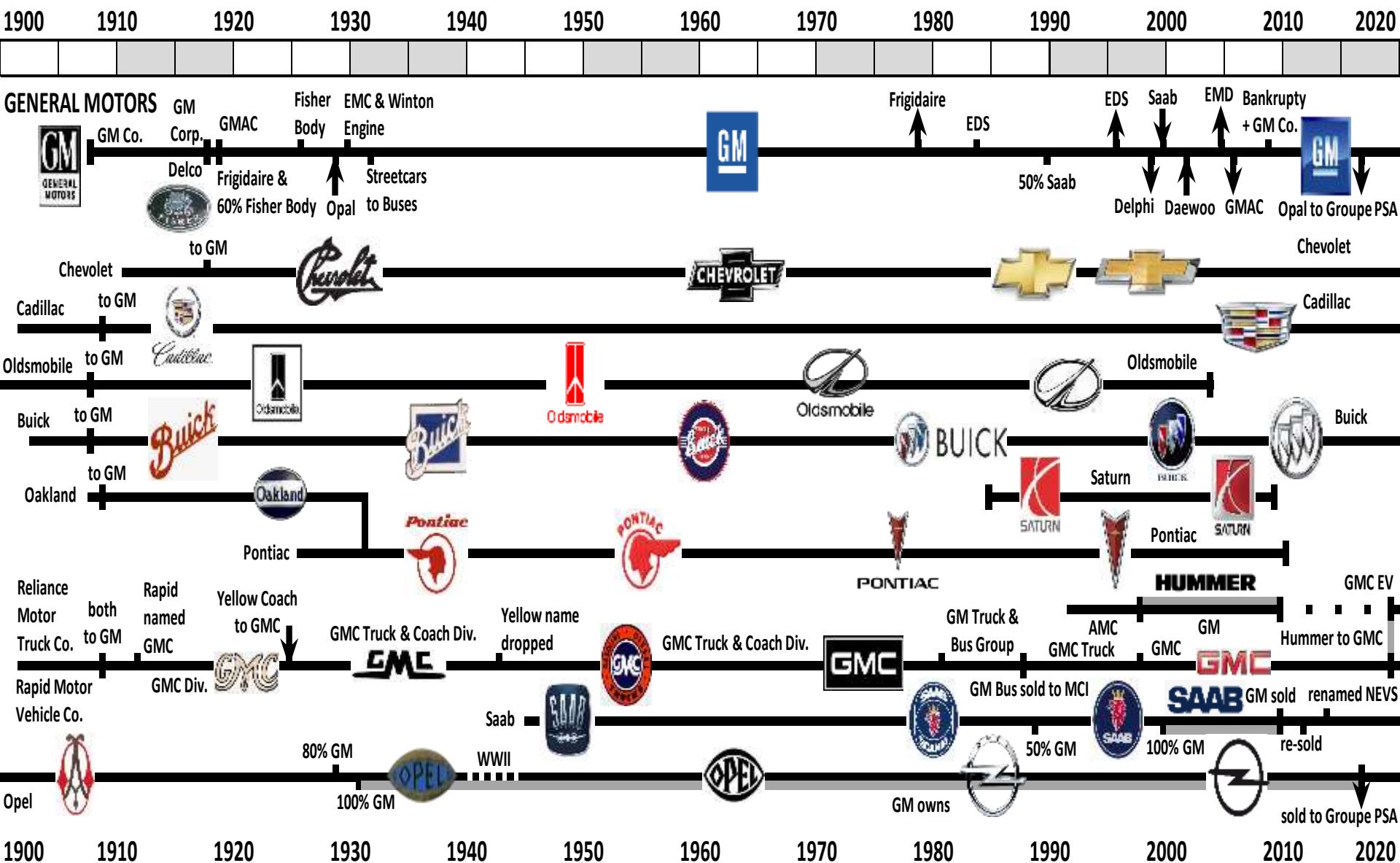
Part 1

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

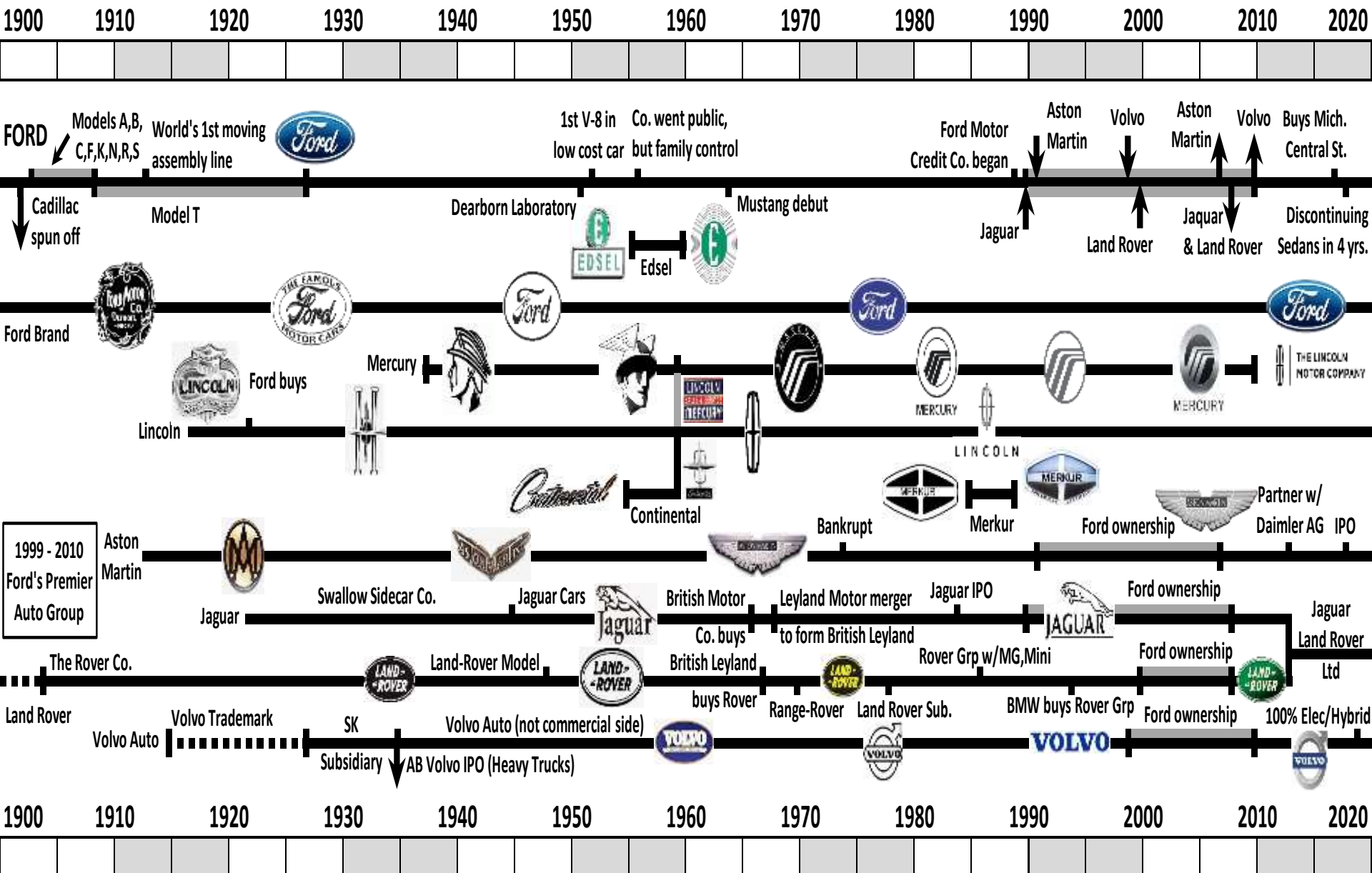
Automobile Eras



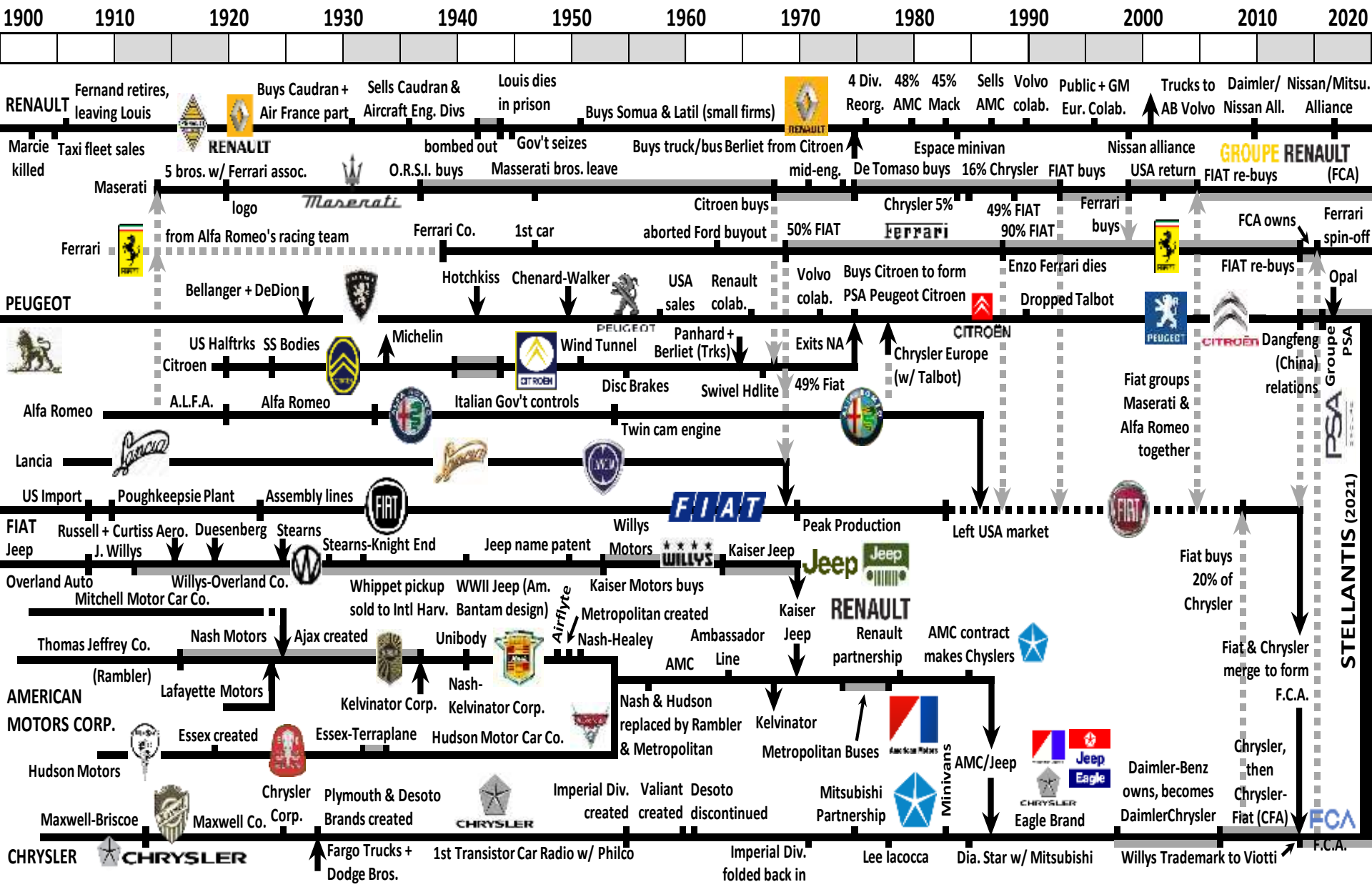
GM, Saab, Opel



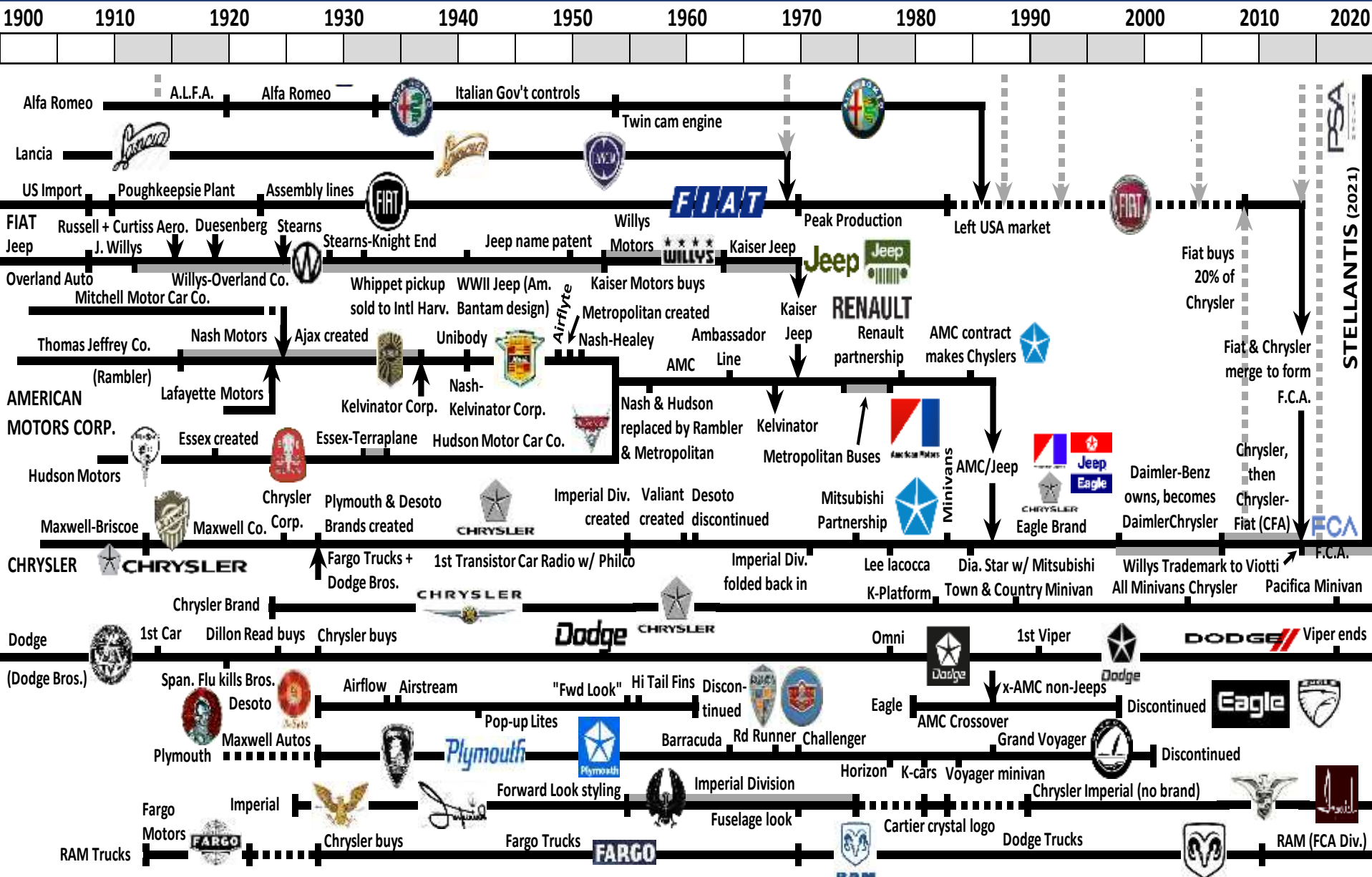
Ford, Jaguar, Rover, Volvo



Renault, Peugeot, FCA

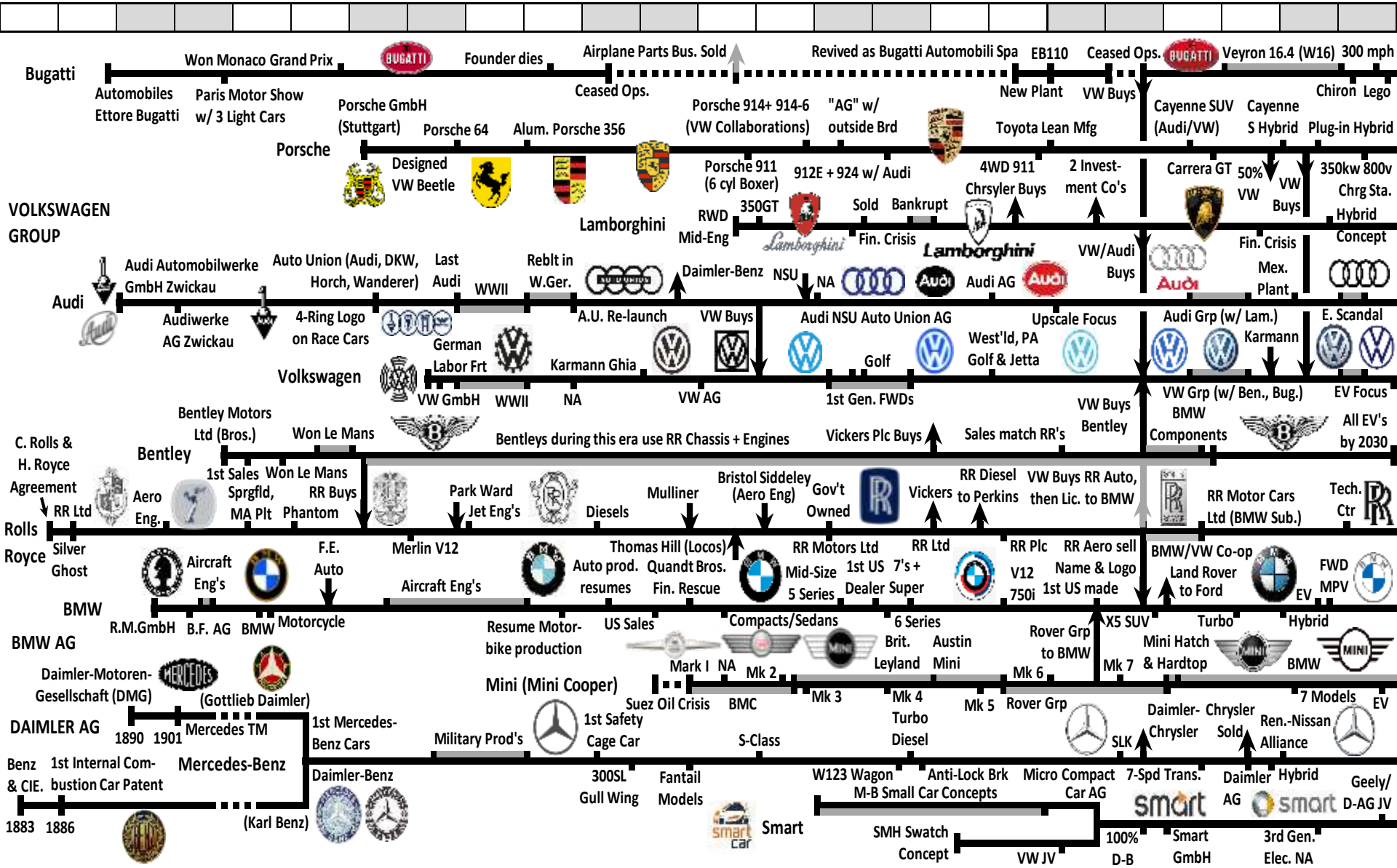


FCA – Fiat, AMC, Chrysler

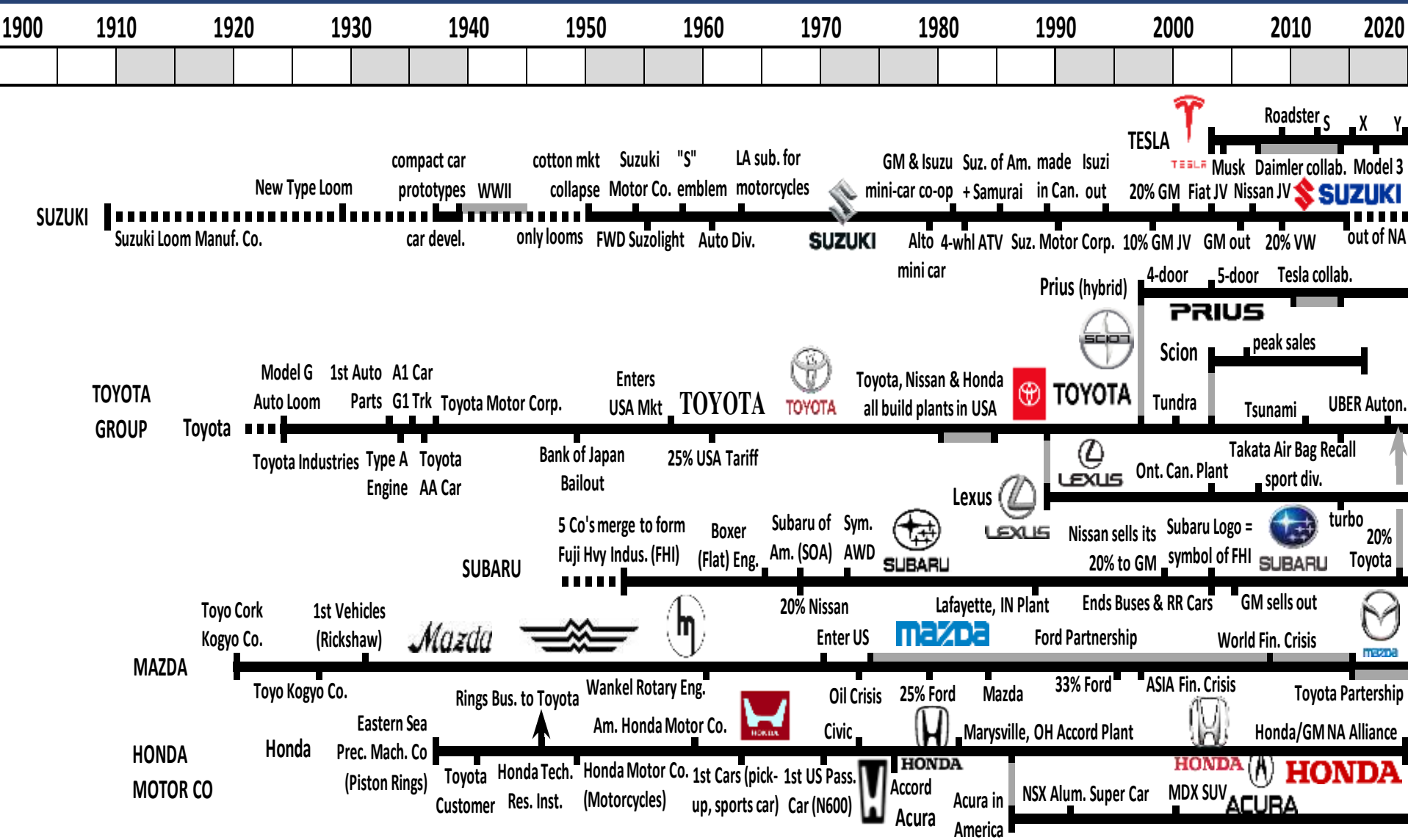


VW, BMW, Daimler Grps

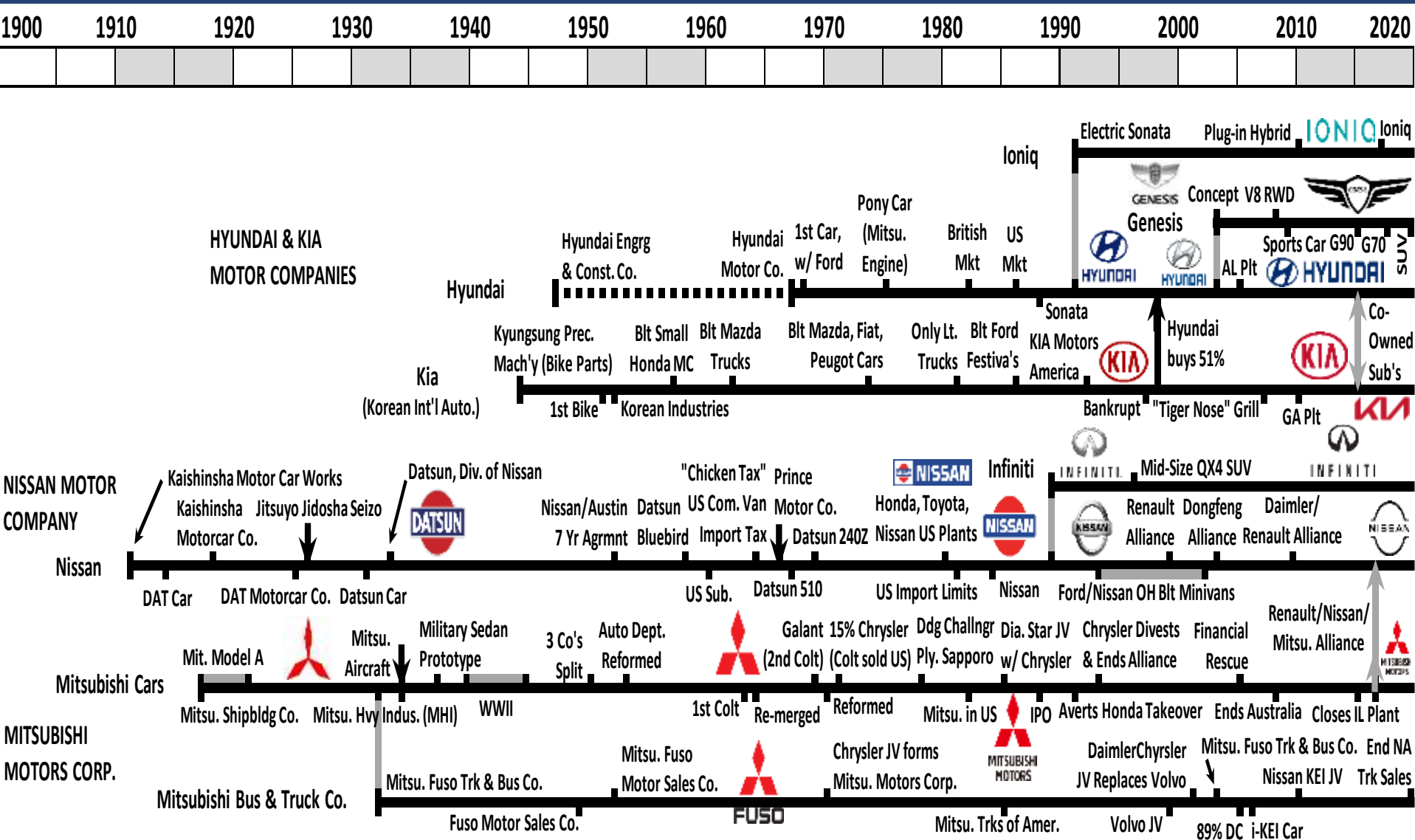
1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020



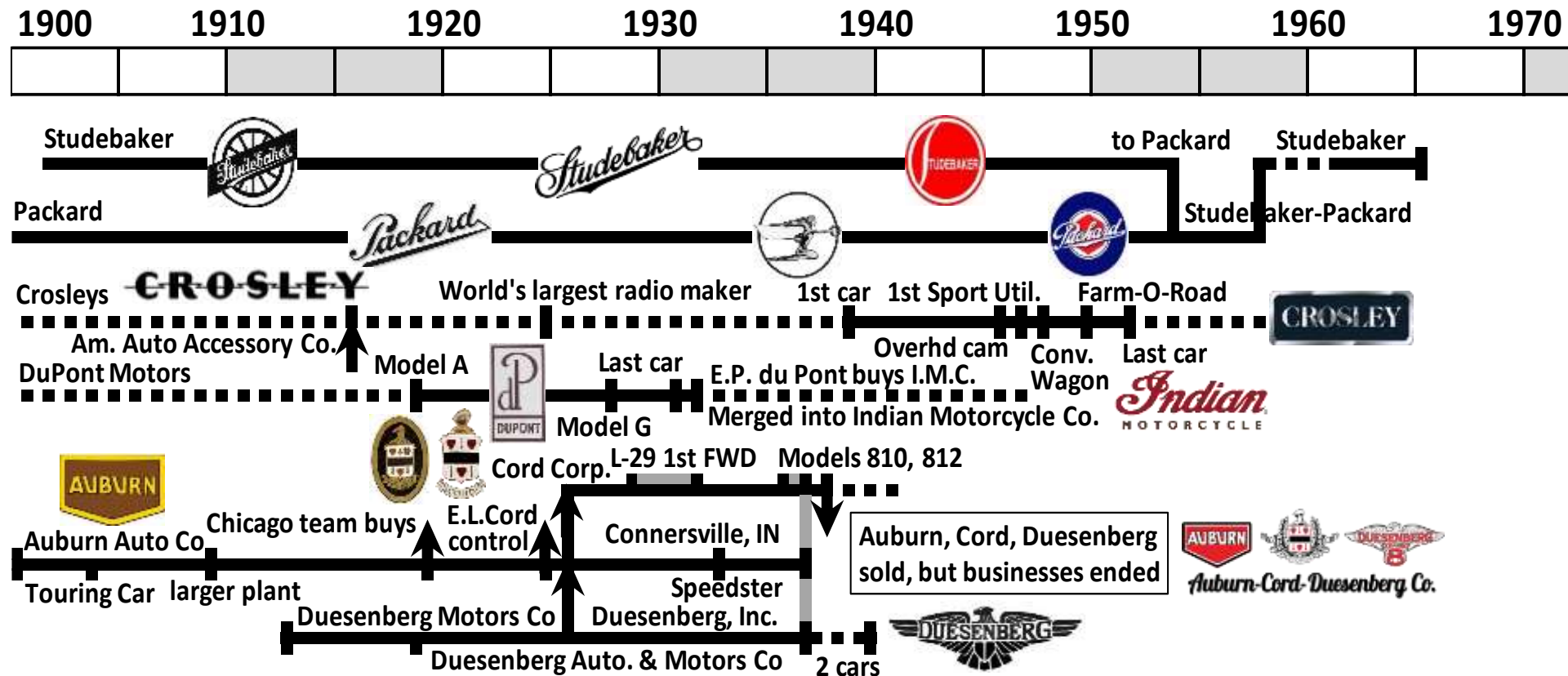
Tesla, Suzuki, Toyota, Mazda and Honda Groups



Hyundai, Kia, Nissan and Mitsubishi Groups



Other Classic Autos



These classics have interesting stories and local connections. Crosley cars were all small and utilitarian. The Packard Museum is in Dayton, Ohio. Auburns and Cords were made in Ft. Wayne & Connersville. Duesenbergs and Stutz's were both made in Indy. E.P. duPont built automobiles, then bought Indian Motorcycles and merged duPont Motors into Indian.

Automobile Observations

- **GM, Ford, Mercedes-Benz, BMW, Toyota, Honda, Mazda, Renault have fairly straight-forward lineages**
- **AMC, Chrysler, VW, Peugeot, Fiat have complex heritages**
- **Notable discontinuations: Nash, Hudson, Desoto, Eagle, Packard, Studebaker, Edsel, Merkur, Viper, Saturn, Oldsmobile, Pontiac, Suzuki**

Automobile Observations

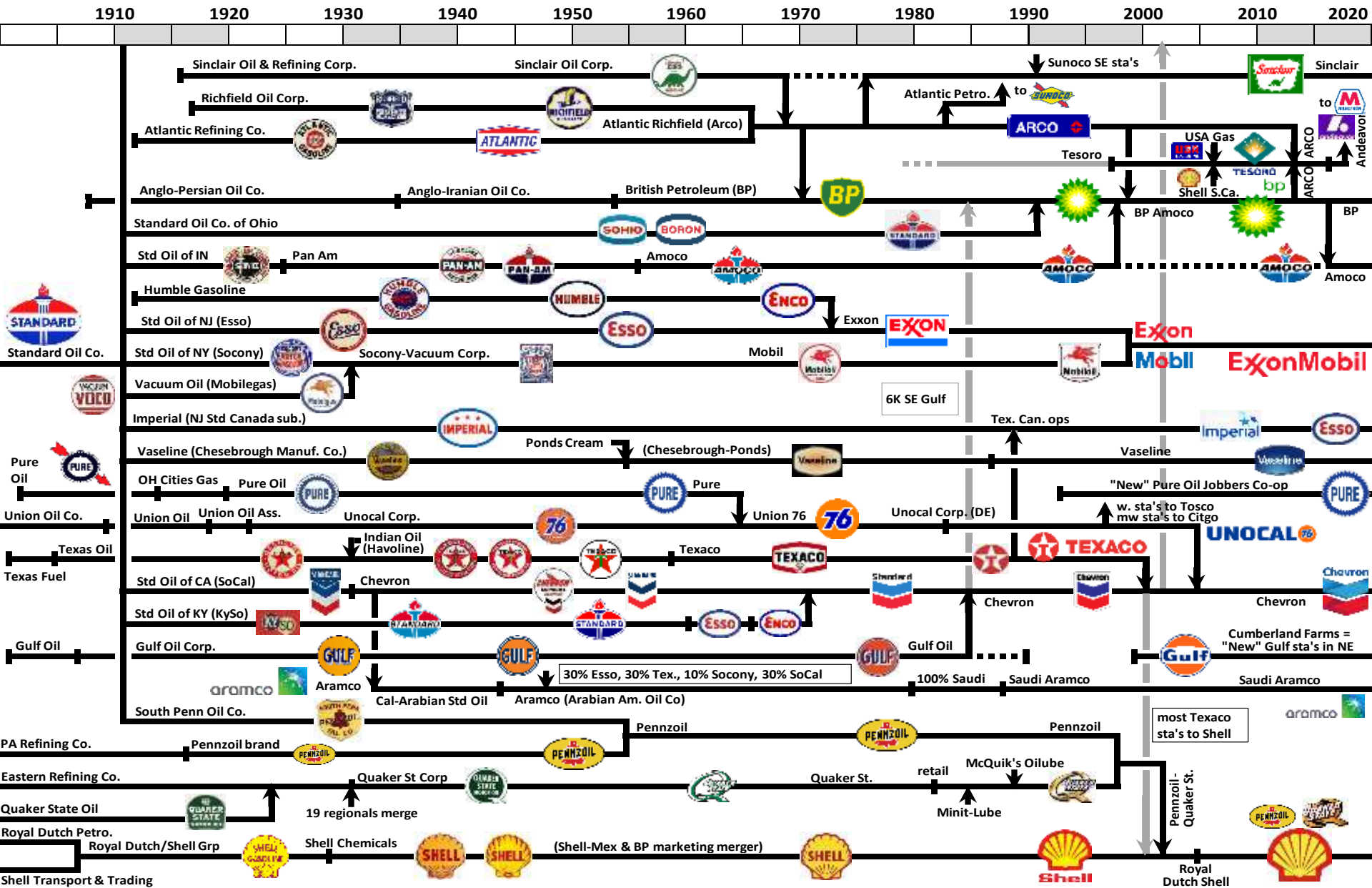
- **Both Reliance & Rapid Truck Co's became GMC Truck & Bus, then bus division sold to MCI in 1988**
- **GM re-launching Hummer as an all electric vehicle line in 2020's**
- **Hyundai & Kia co-own each other**
- **Stellantis via Jan. 2021 mega merger -**
 - **Fiat Chrysler Automobiles (FCA)**
 - **Groupe PSA (Peugeot, Citroen, Opel)**

Timelines

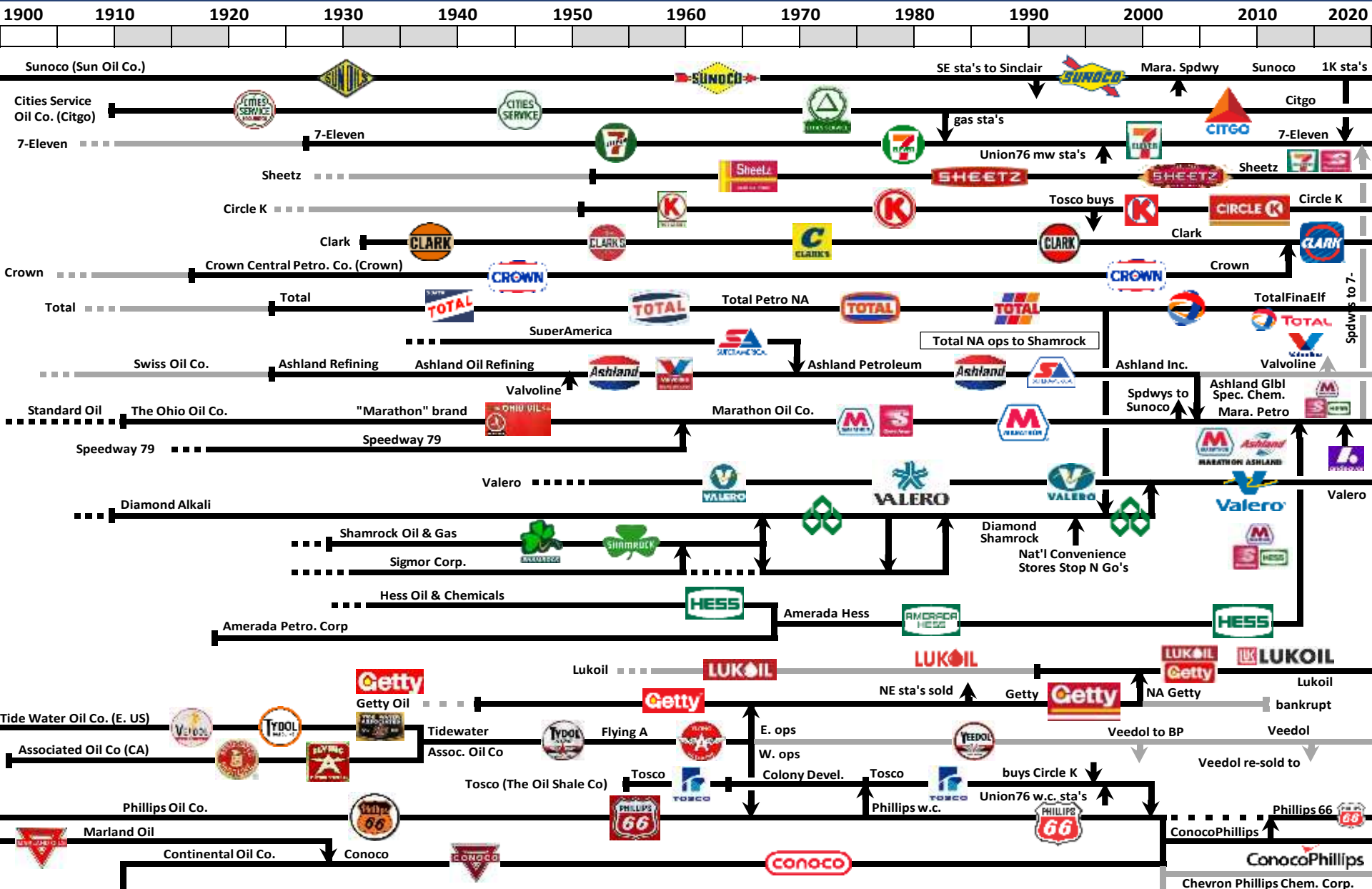
Part 1

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

Gas Stations & Oil Co's



Gas Stations & Oil Co's



Gas Station Observations

- **Most oil companies came from 1911 anti-trust split of Standard Oil, with many re-merging later**
- **Notable non-Standard Oil firms:**
Ashland, Cities Service (Citgo), Conoco, Flying A, Gulf, Getty, Lukoil, Phillips, Pure, Marathon, Shell, Sinclair, Sunoco, Total
- **Mergers & acquisitions rampant since 1985 – with many gas station and convenience store name changes**

Timelines

Part 1

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

US Highway Traffic Signs

1923 agreed on shapes -

 **Octagon – stop**

 **Rectangle – directions or regulation info**

 **Round – railroad crossing warning**

 **Diamond – precautions in specific area**

 **Star – unique shape to mark highways**

 **Square – care that needs to be taken**

Shapes added later	
Keystone	
Triangle	
Pentagon	

Official road sign colors today -

 **White – regulatory signs**

 **Red – stop, yield and prohibition signs**

 **Blue – road service, evacuation routes, tourist info**

 **Green – direction guidance, permitted traffic moves**

 **Yellow – general warning messages**

 **Fluorescent – yellow or green – pedestrians, schools**

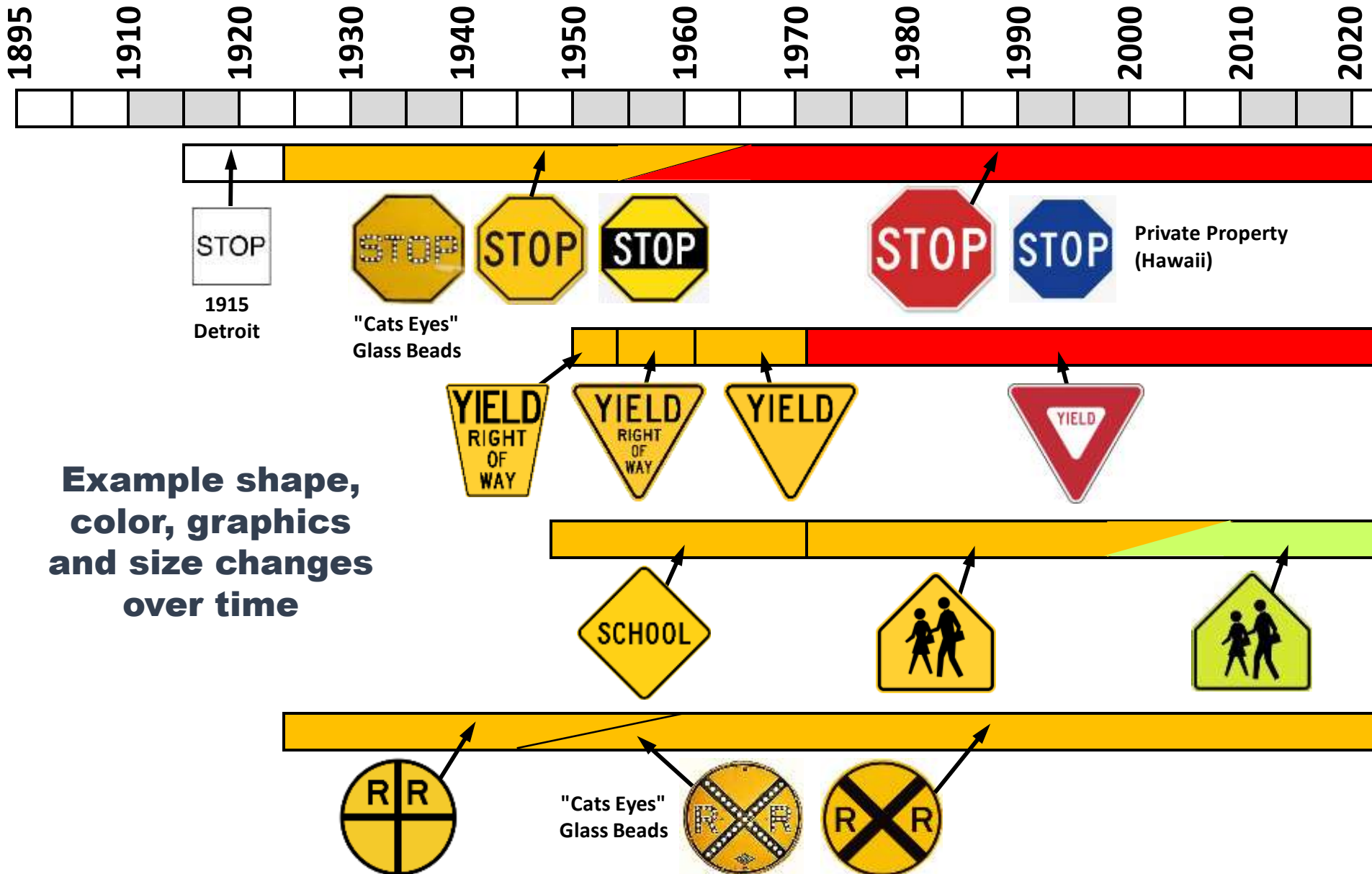
 **Brown – recreational or cultural interest areas**

 **Orange – warnings and guides in work zones**

US Highway Traffic Signs

- 1899 – clubs, colored bands, wood on iron columns
- 1915 – 1st stop sign – Detroit, 2 ft sq, black-on-white
- 1922 – octagonal stop signs
- 1923 – 1st standards – shapes, emboss, 2 ft
- 1924 – black-on-yellow warning signs
- 1929 – reflecting & luminous elements
- 1935 – block letters, floods or “cats eyes”, 2 ft min.
- 1939 – white reflectors, except red for stop
- 1942 – black-out low mounting, wood/composites
- 1948 – round letters, less words, illumination
- 1950 – 1st yield sign – Tulsa, keystone shape
- 1954 – wht-on-red stop sign, triangle yield-rt-of-way
- 1961 – symbols, delete rt-of-way, work zone signs
- 1971 – reds, wht-on-grn, orange, school pentagon
- 1988 – brown recreational & cultural interest signs

US Highway Traffic Signs



US Road Markings

Some pavement markings –

- **Center lines**
- **Edge lines**
- **Lane lines**
- **Curb markings**
- **Stop lines**
- **Cross-walk lines**
- **No-passing-zone markings**
- **Railroad crossing approaches**

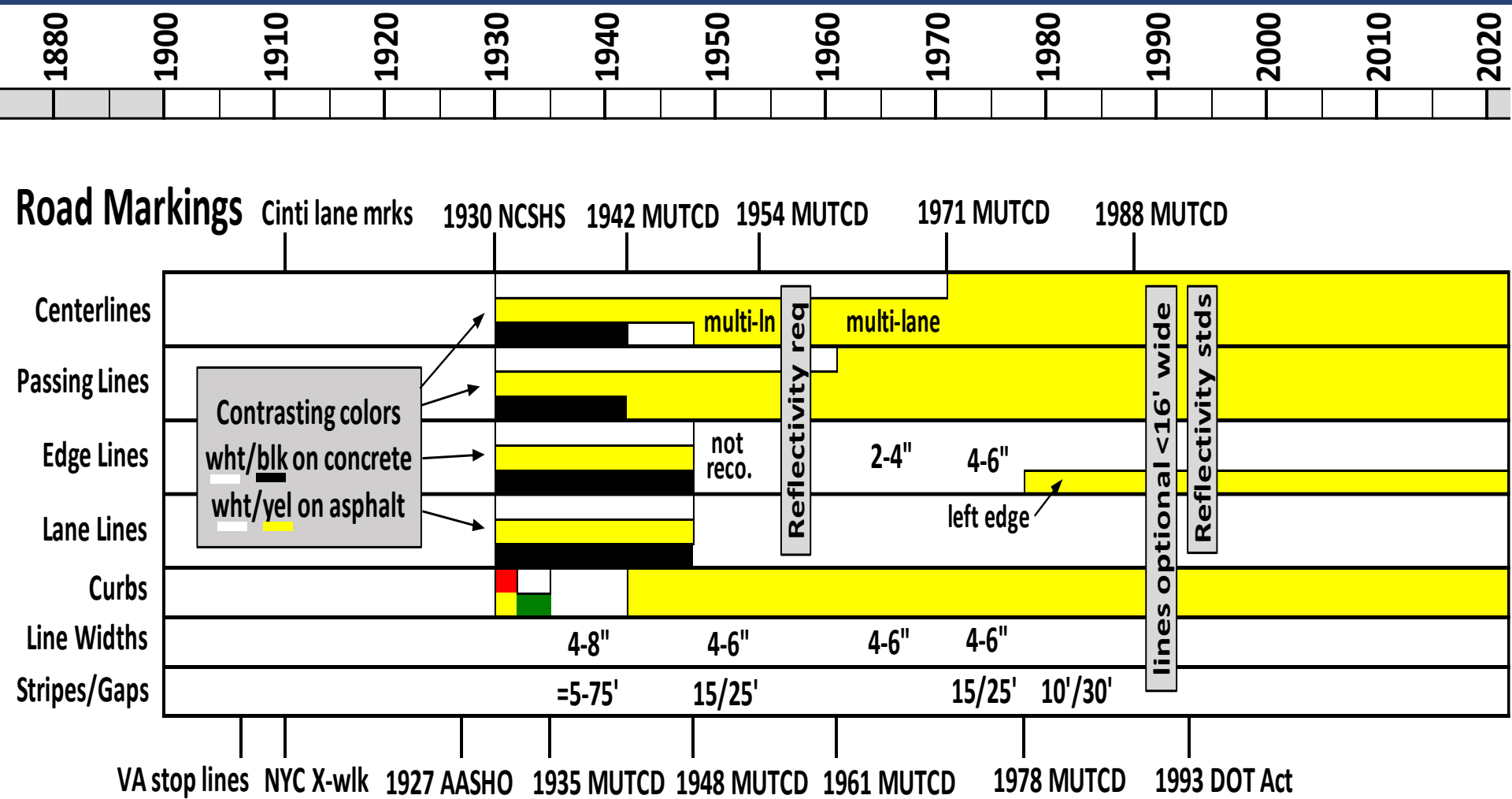
Applications varied by state and year

- **Early Colors – need only contrast w/ road**
- **Later – black gave way to yellow & white**
- **Solid or Broken (Dashed) Lines**

Early line options besides paint

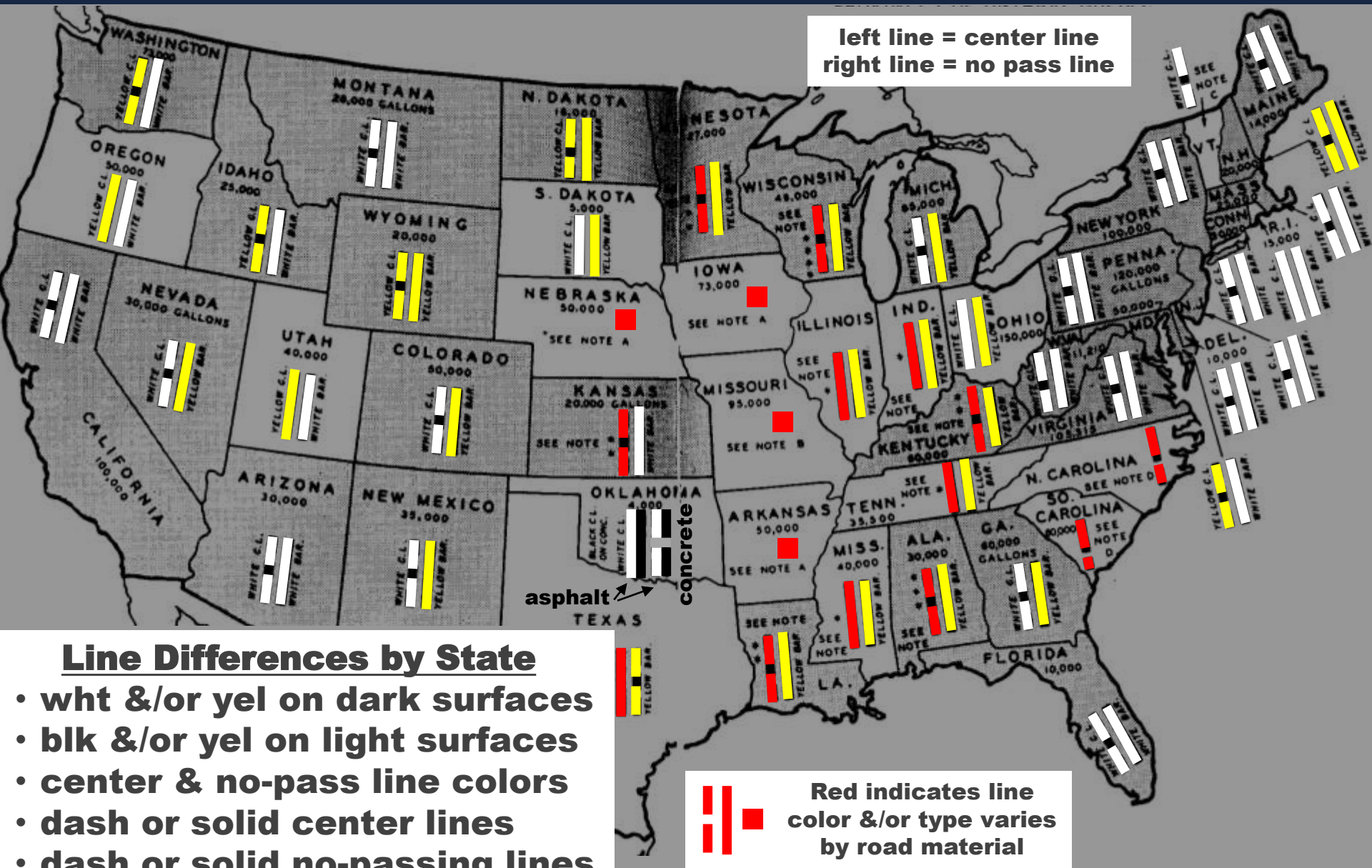
- **Joints or Inserts (rd or rect.) permissible**

US Road Markings

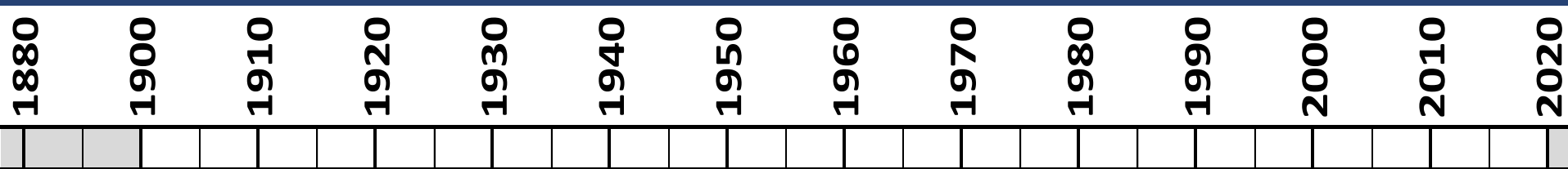


MUTCD = Manual on Uniform Traffic Control Devices

1949 2-Lane Rd Markings

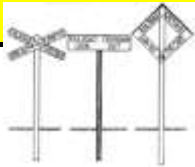


Rail Crossings Protection



Crossings without Gates

Cross-Bucks (Passive)



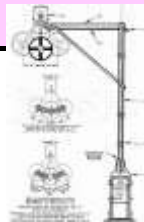
Cross-Bucks w/ Flashers

8" lens,
20" target

12" lens,
24" target



Wig-Wags



Gated Crossings

Shanties or Towers

Flagger

Mechanical

Pneumatic

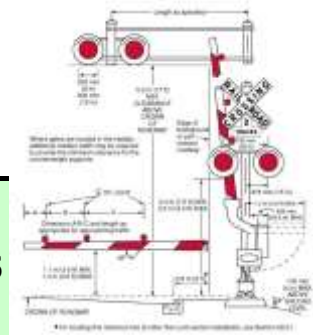
Electric

Manual Gates

Blk/Wht
Stripes

Red/Wht
Stripes

Automatic Gates



Timelines

Part 1

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

Burger Chains

- McDonald's
- Wendy's
- Burger King
- Druther's / Burger Queen
- Burger Chef
- White Castle / Tower
- Whimpy
- Kewpee
- Hardee's
- Carl's Jr
- In-N-Out Burger
- Jack-in-the-Box
- Sonic Drive-in



- Big Boy / Frisch's
- Dairy Queen
- Culver's
- Krystal
- Steak 'n Shake
- Johnny Rockets
- Five Guys
- Smashburger
- Whataburger
- What-A-Burger
- A&W Restaurants
- Shake Shack
- Fuddruckers



Burger Chains

- **Some only regional, not national**
- **Some had regional variations**
- **Most grew via franchising (and sub-franchising) with Big Boy prolific**
- **Bankruptcies and selloffs common**
- **Relatively few mergers**
- **Logos and building designs changed**
- **Nearly all had red or yellow logos**
- **Several model railroad versions sold**

Regional Territories

Whataburger

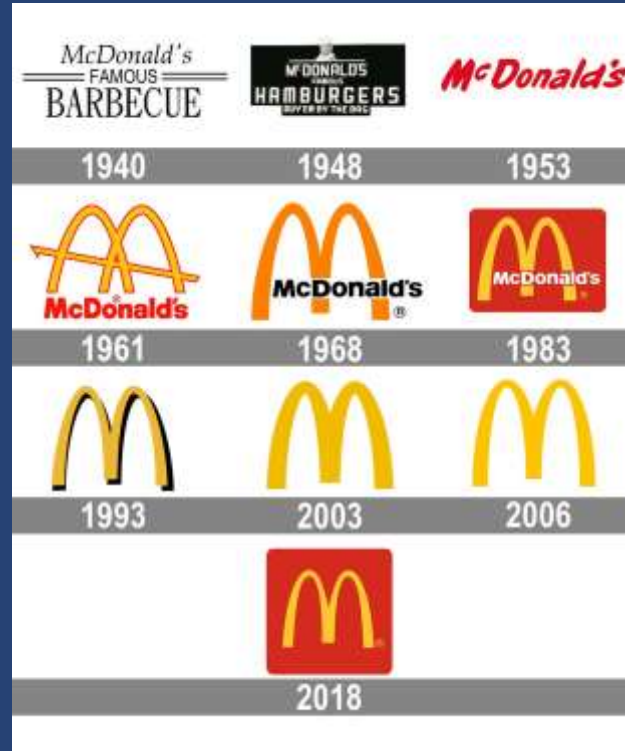
White Castle

Krystal

In 'n Out

Culver's

Logo Evolutions



Logo Evolutions

DAIRY QUEEN



1940 - 1960

1960 - 2007



2001 - 2007



2007 - now



192 - 1948



1948 - 1958



1958 - 1961



1961 - 1968



1968 - 1995



1995 - 2007



2007 - 2018



2018 - now



OLD



NEW



Logo Evolutions



1941 - 1956



1956 - 1977



1977 - 1985



1985 - 2006



2006 - 2017



2017 - 2018



2018 - NOW



1951 - 1962



1962 - 1971



1971 - 1978



1978 - 1980



1980 - 1985



1985 - 1986



1986 - 2009



in the box

2009 - now



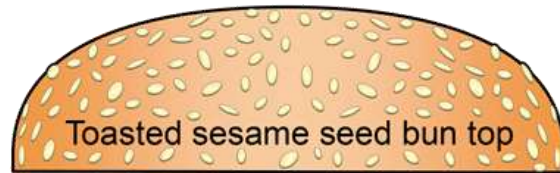
Big Boy Restaurants

- Many Franchises and Sub-Franchises
- West vs. East Coast Big Boy Mascots
- Signature Double Decker Big Boy Hamburger had Regional Variations



Big Boy Burger Variations

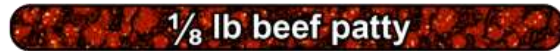
Wian's (Bob's)



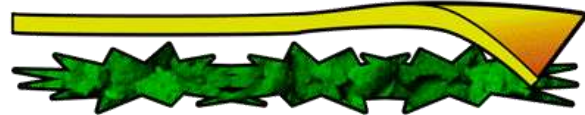
Red relish and dash of salt



Mayonnaise



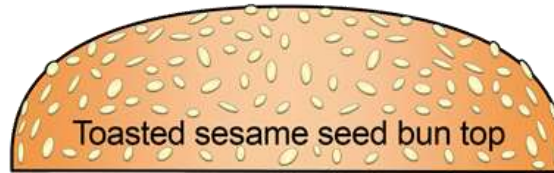
Slice of American cheese
and $1\frac{1}{2}$ oz shredded lettuce



Mayonnaise



Big Boy System



Big Boy sauce



Big Boy sauce



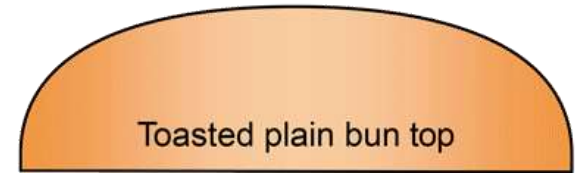
Slice of American cheese
and $1\frac{1}{2}$ oz shredded lettuce



Big Boy sauce



Frisch's

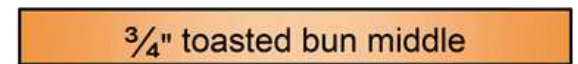


$\frac{1}{8}$ lb beef patty

$1\frac{1}{2}$ oz shredded lettuce



Tartar sauce



Slice of American cheese



$\frac{1}{8}$ lb beef patty



Dill pickles



$1\frac{1}{2}$ " toasted bun bottom



Big Boy Mascot Versions

Orig. West Coast

East Coast

West Coast



1st 1937 2nd

A



1952

B



1956

C



1969

D



1969

E



1981

F



1988

G

Rev. E.C.

Rev. W.C.

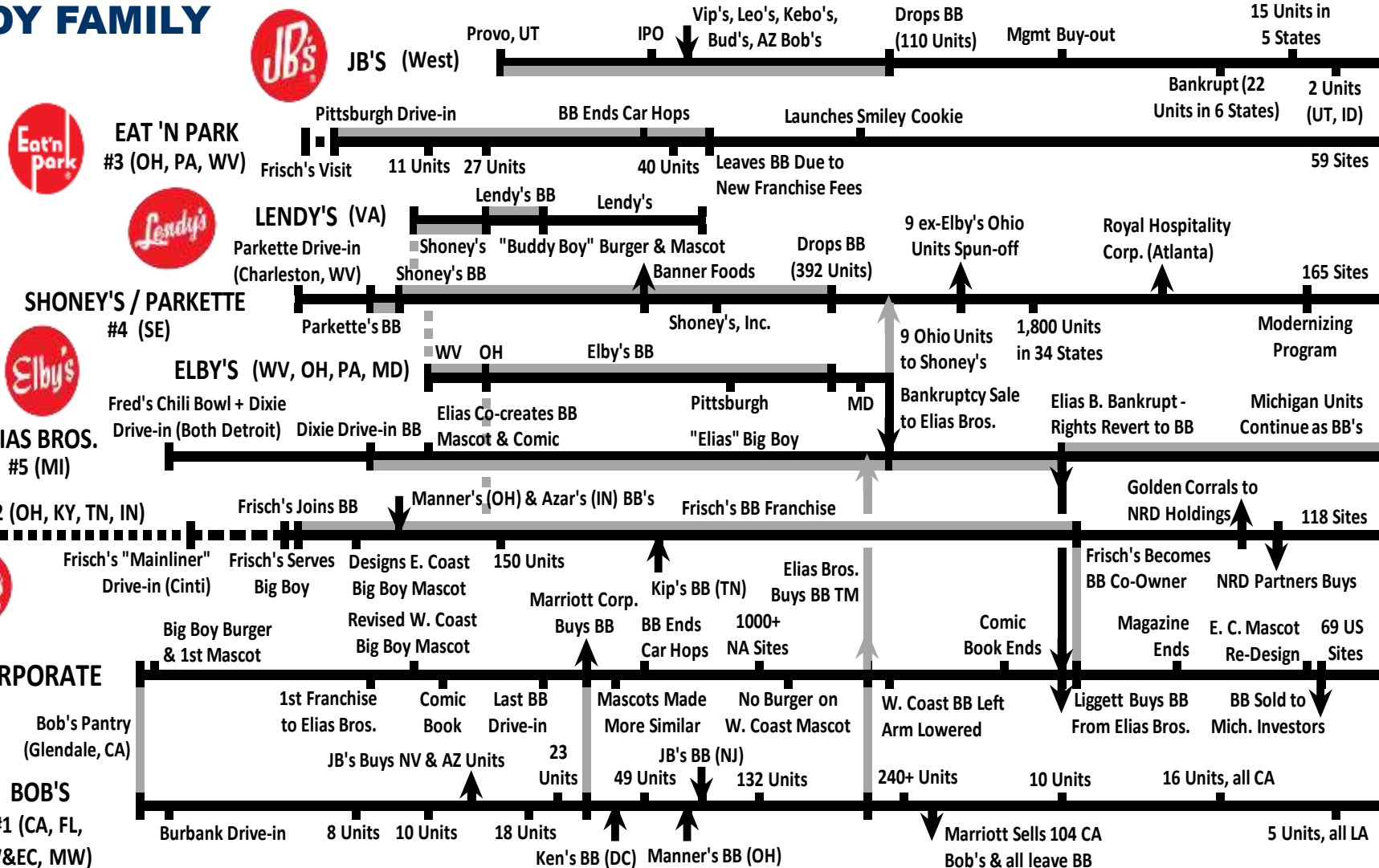
West C.

Elias W.C.

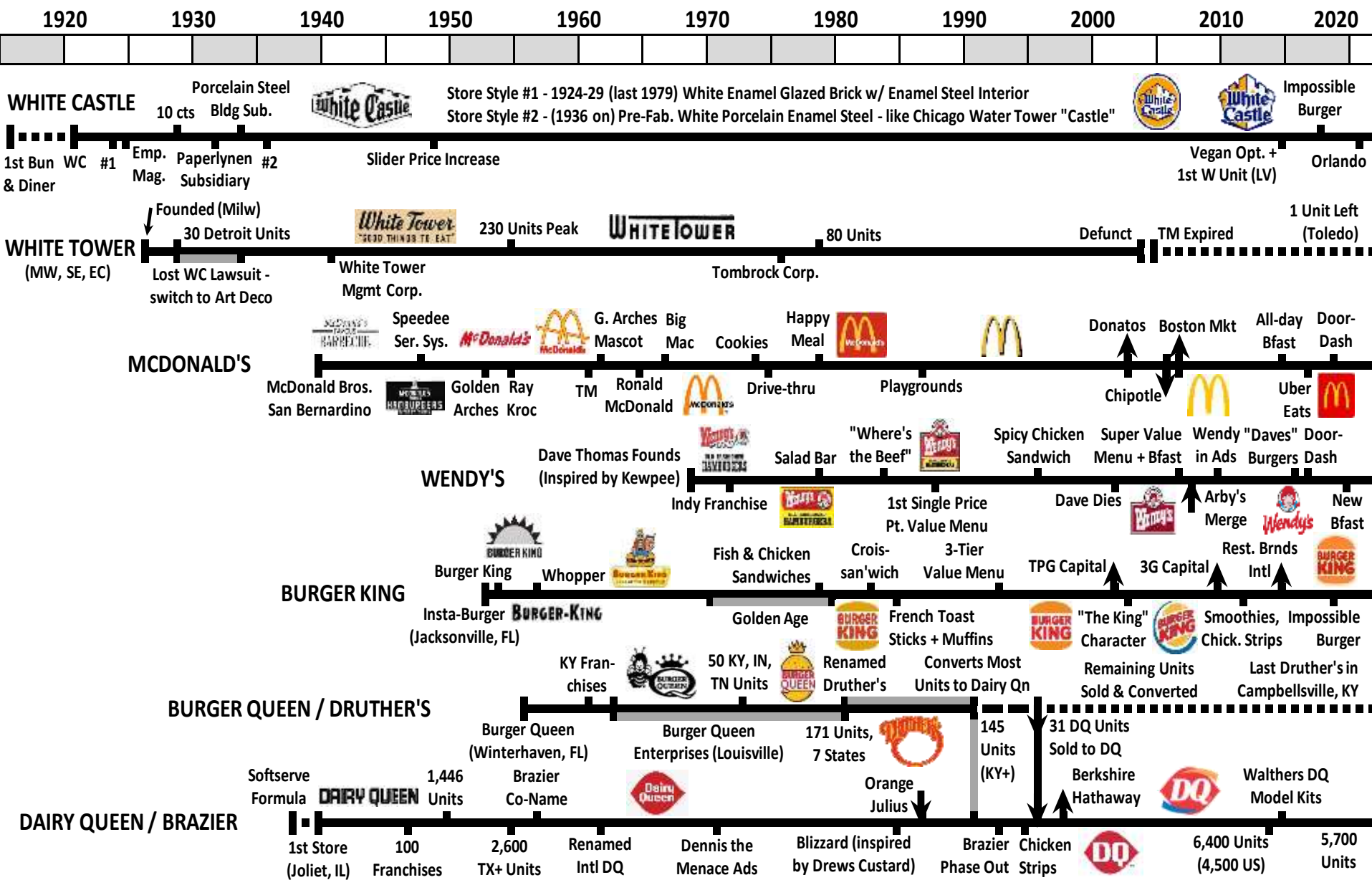
Burger Chains

1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

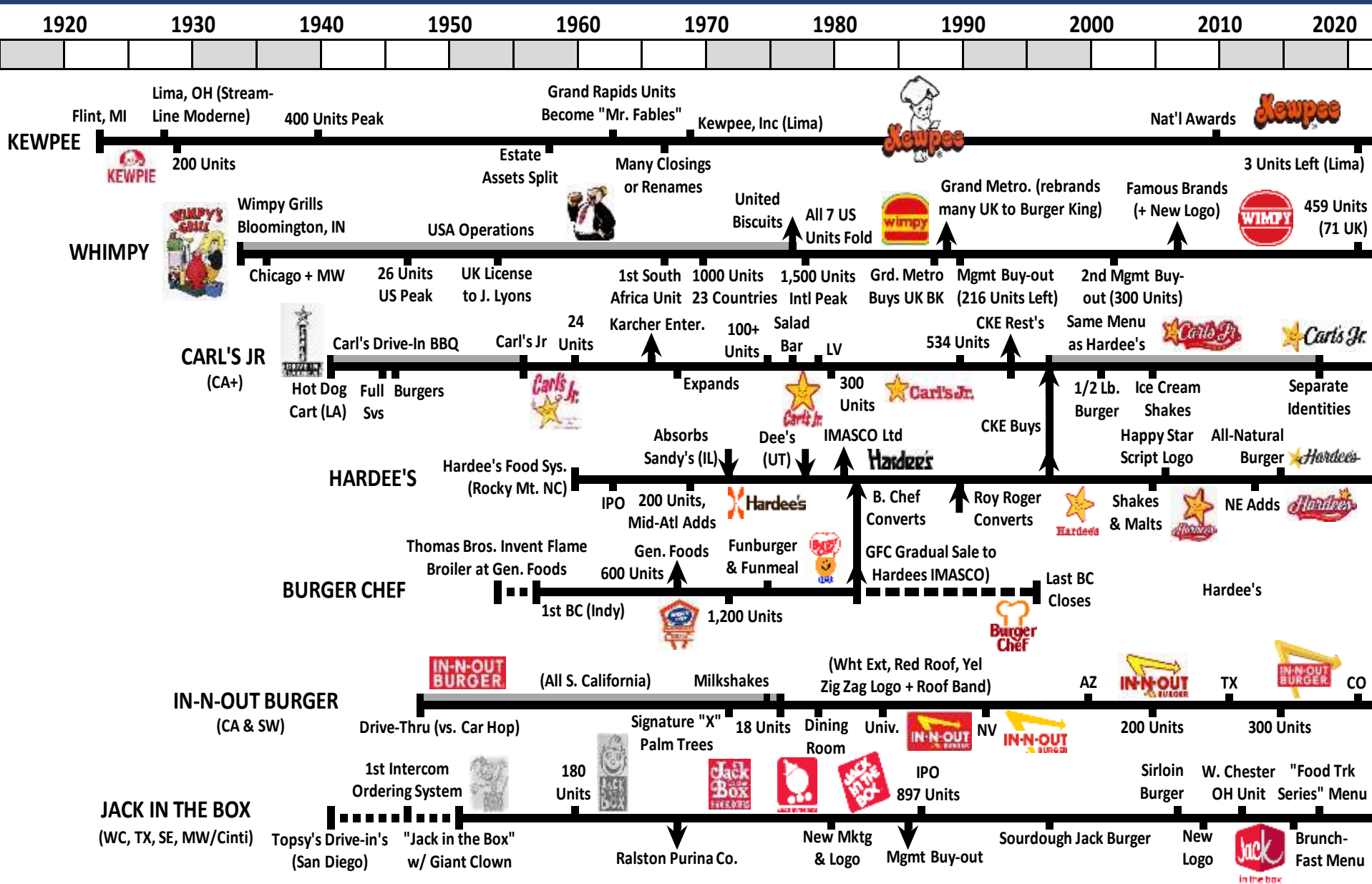
BIG BOY FAMILY



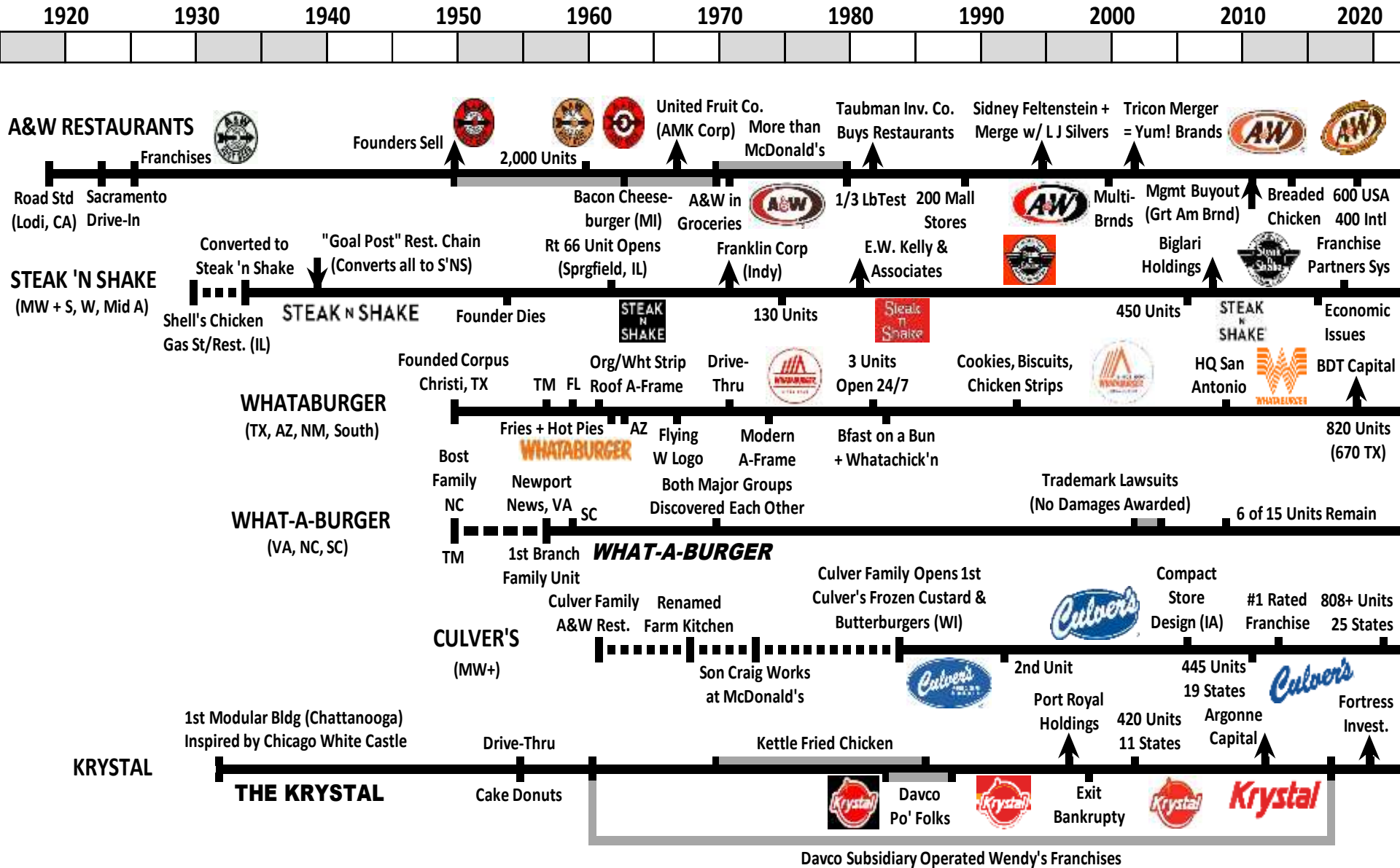
Burger Chains



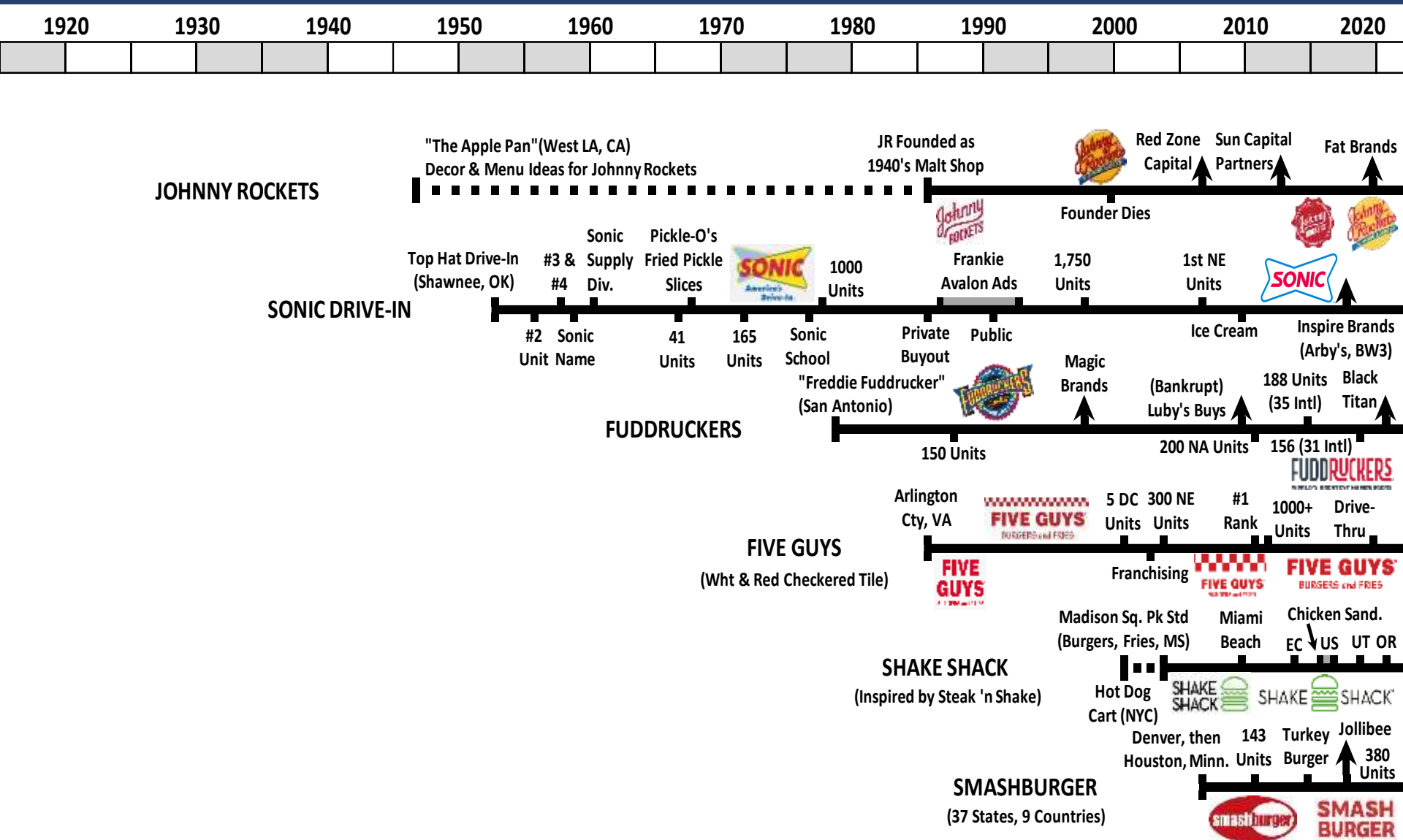
Burger Chains



Burger Chains



Burger Chains



Model Railroad Kits - 1

HO	Atlas	Refreshment Stand
HO, N	Bachmann/Plasticville	Drive-in Hamburger Stand
HO, N, O	Blair Line	Fred & Red's Café/Burgers
HO, N	Blair Line	Dari-King Drive-in
HO	Blair Line	Drive-in Restaurant
HO	JL Innovation	Vals Hamburgers
N	Life-Like	Burger King
HO	Menard's	Arby's
HO	Model Power	Bob's Hot Dog Stand
HO	Moebius Models	Mel's Drive-in Am. Graffiti
O	MTH	A&W Root Beer Fast Food Std
O	MTH	Burger Chef
O	MTH	McDonald's Restaurant
O	MTH	Mel's Drive-in Diner
O	MTH	Coney Island Fast Food Stand

Model Railroad Kits - 2

HO	Piko	Tommy's Food To Go
HO	Scale Structures Ltd	White Tower
HO	Twin Whistle	A&W Root Beer Stand
O	Twin Whistle	Twilite Drive-In
HO	Vollmer	Burger King
HO, N	Vollmer	McDonald's
HO	Walthers	White Tower
HO	Walthers	Arnold's Drive-in (Happy Days)
HO	Walthers	Culver's
HO, N	Walthers	Vintage Dairy Queen
HO, N	Walthers	Modern DQ (DQ Grill & Chill)
HO	Walthers	Donny's Drive-in
HO, N	Woodland Scenics	Drive n' Dine
HO	Woodland Scenics	D's Diner
HO, N, O	Woodland Scenics	Miss Molly's Diner

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**

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?

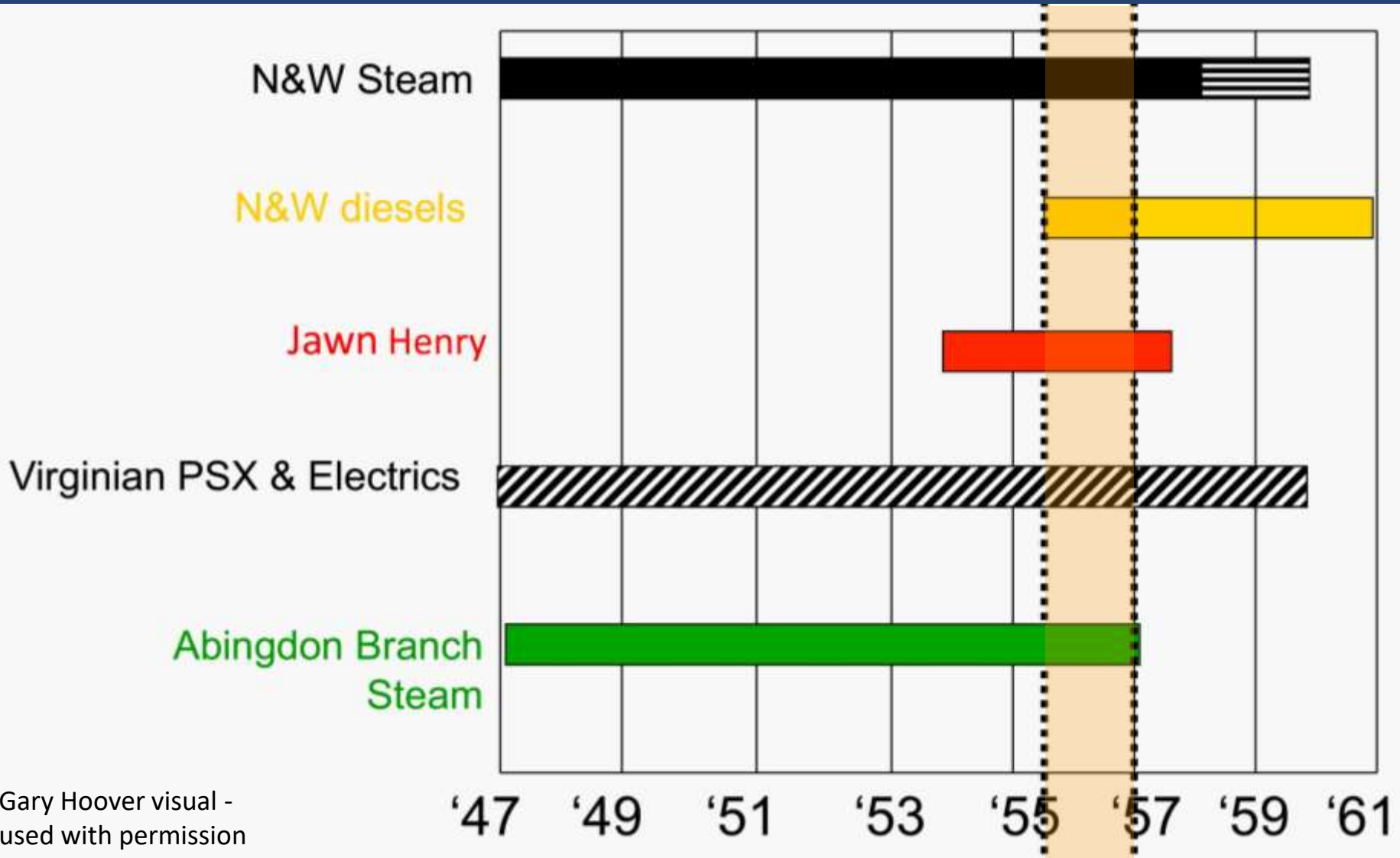
- **Stoplights & Streetlights**
- **Sidewalk Details (Hydrant, Mailbox ...)**
- **Utility Poles & Lines**
- **Drug Stores (Rexall, SuperX ...)**
- **Hardware Stores (Sears, Ace ...)**
- **Automotive Parts Stores**
- **Clothing & Furniture Stores**
- **Consumer Electronics – TV, Radio, ...**
- **Other 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 (Wriggly ...)**
- **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 1st and some 2nd 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**

Wrap-up

- **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)**

Questions?