

ECONOMIC UPDATE: "Recession or Reframing the Economy?"

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Southwest Association of Rail Shippers (SWARS) Conference
San Diego, CA
September 28, 2023



Agenda



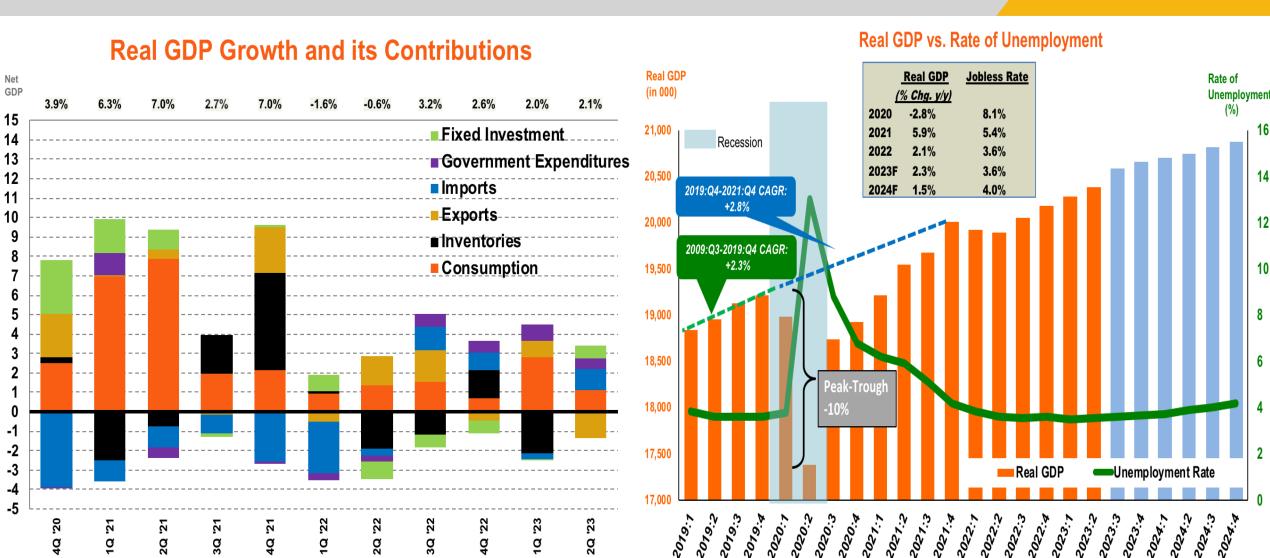




U.S. ECONOMIC GROWTH

Q2 '23 real GDP was +2.1% q/q (or +2.5% y/y), driven by steady consumer and business spending. Expect +1.5% y/y growth in '24





THE CONSUMER SECTOR



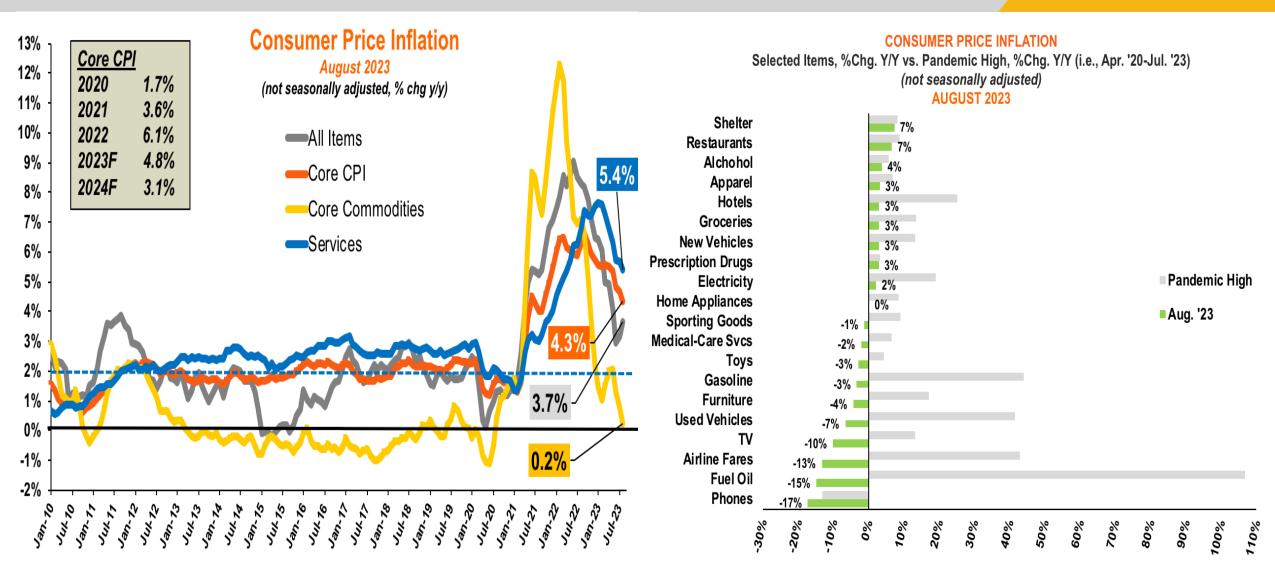
US consumer is still strong: Spending rose 3% y/y in Jul. '23, backed by jobs, rising real disposable incomes, and cheaper durable goods



THE CONSUMER SECTOR

Core inflation is falling like a feather: It fell to 4.3% y/y in Aug. '23, down from a peak of 6.6% y/y in Jun. '22, reflecting goods disinflation

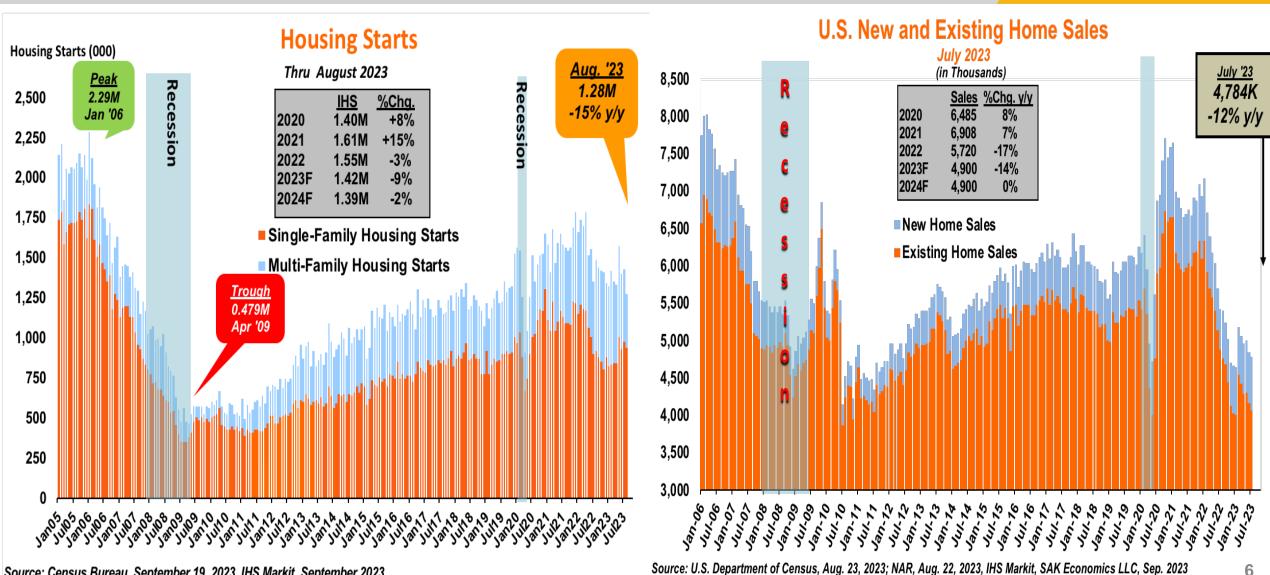




THE HOUSING MARKET

The chaotic housing market not bottoming: Housing starts fell 15% y/y in Aug. '23, on peaking interest and mortgage rates and tight stocks



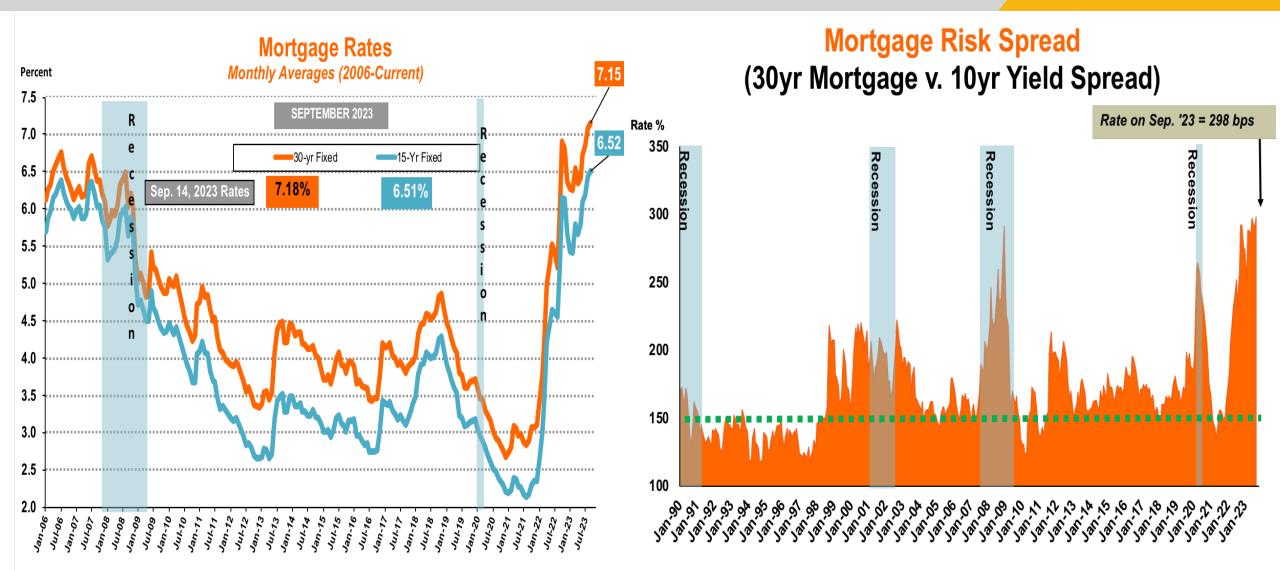


THE HOUSING MARKET

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Economics LLC

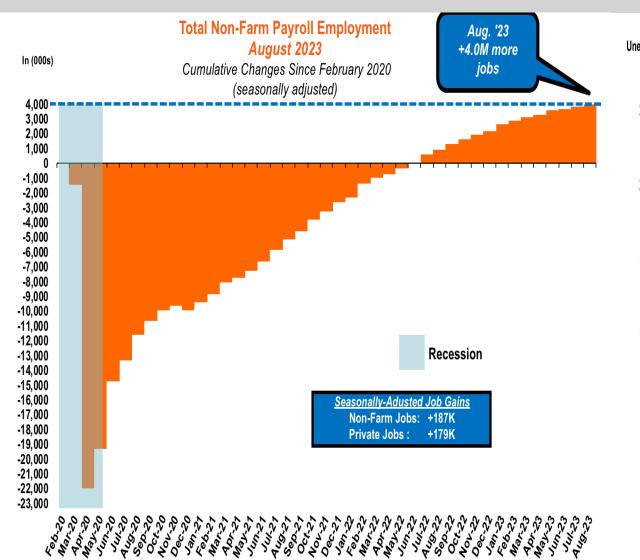
Due to the Fed's tightening cycle, mortgage rates have risen over to 7%, up almost 400 basis points since the start of the pandemic lockdown

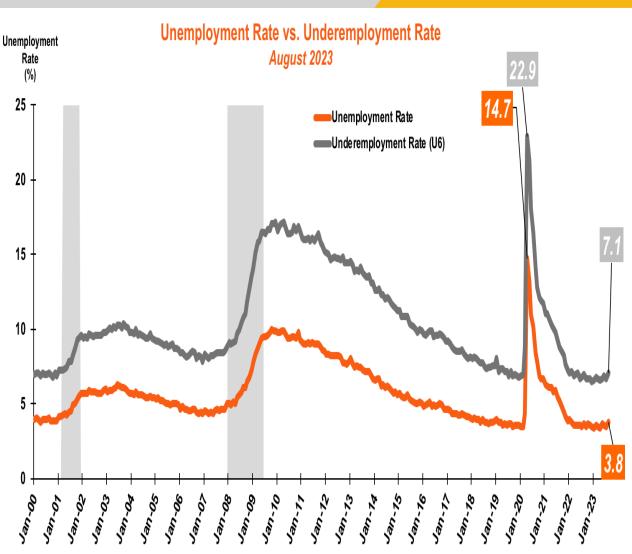


THE LABOR MARKET



The labor market added 187K more jobs in Aug. '23. Jobs are 4M more than pre-pandemic levels. The jobless rate is 3.8%

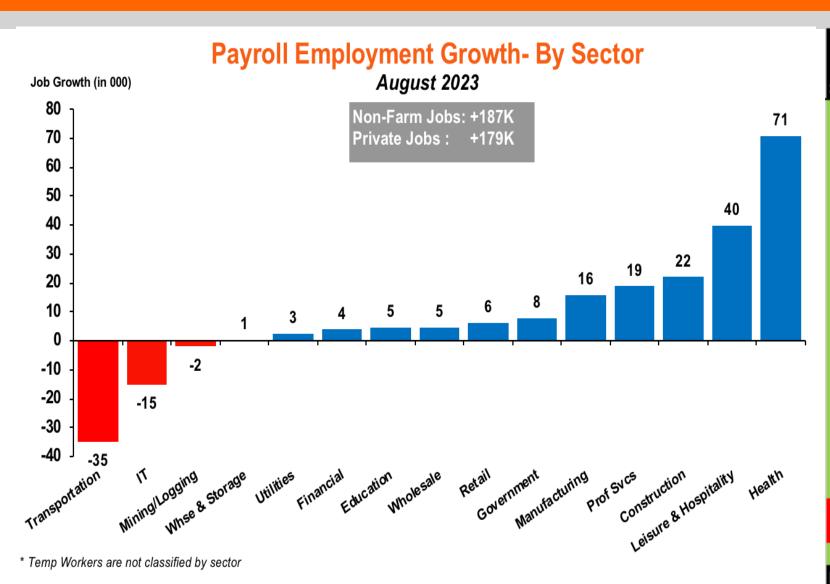




THE LABOR MARKET



The labor market is 118% recovered. The sectors that lost the most jobs due to Covid-19, including leisure and health, are showing the biggest job gains



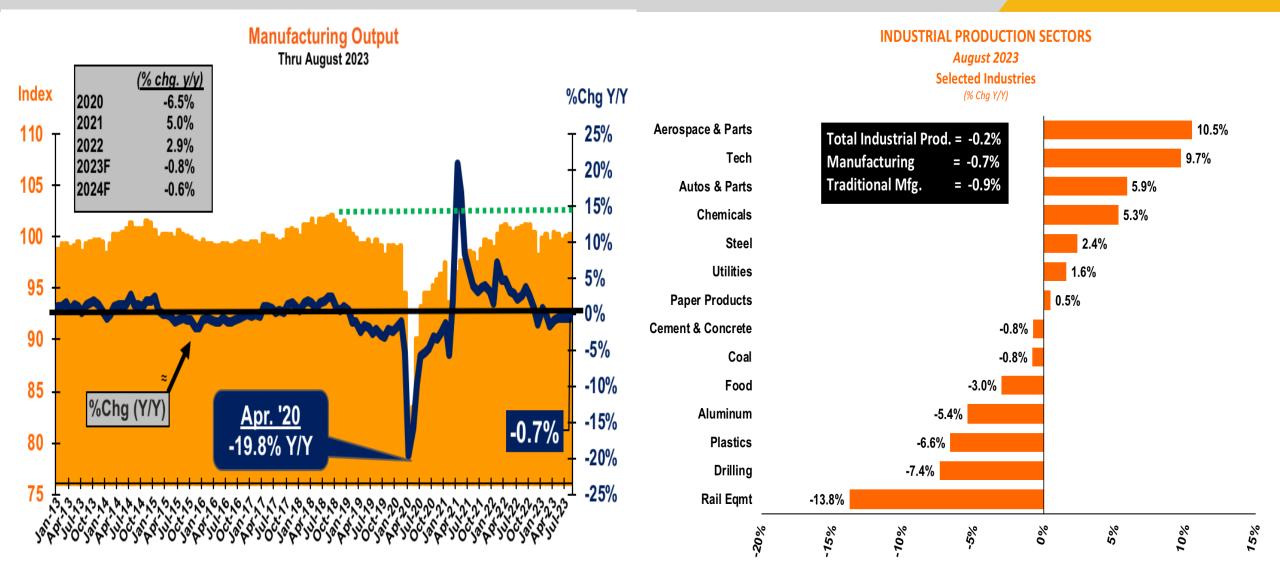
Gain Loss (3/20-4/20)(5/20-8/23) Recovery% Sector Leisure & Hospitality 7,945 8,235 96% Prof Svcs 2,267 3,845 170% Retail 2,266 2,291 101% Health 2,137 133% 1,604 Manufacturing 1,371 1,583 115% Construction 1,466 136% 1.081 Education 523 664 127% Wholesale 406 583 144% 411 153% 268 Financial 280 569 203% State & Local Govt. 335% 200 670 Transit & Passenger 186 134 72% Warehouse & Storage 77 823% 634 Trucks 89 137 154% Airlines 75 106 140% Mining/Logging 67 23 34% Barges 127% Utilities 292% Railroads (5)-107% Pipelines 0 (4)0% Federal Govt. 61 -244% (25)NON-FARM TOTAL 21,941 25,989 118%

Source: U.S. Dept. of Labor, Bureau of Labor Statistics, September 1, 2023

MANUFACTURING



The US manufacturing sector is in recession: Factory output fell 0.7% y/y in Aug. '23, the fifth consecutive month of negative y/y growth

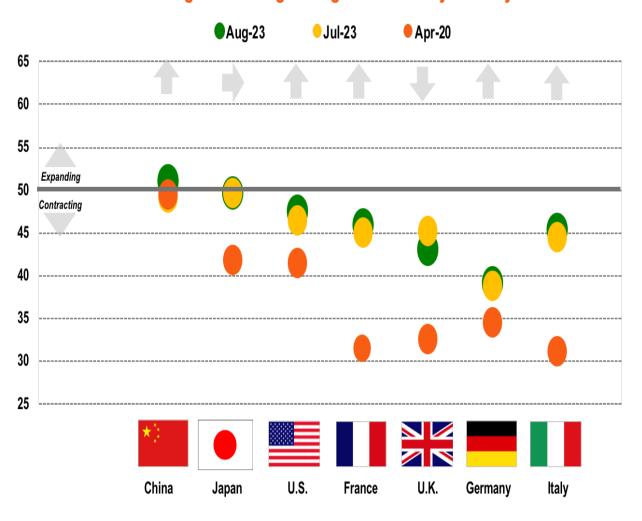


MANUFACTURING

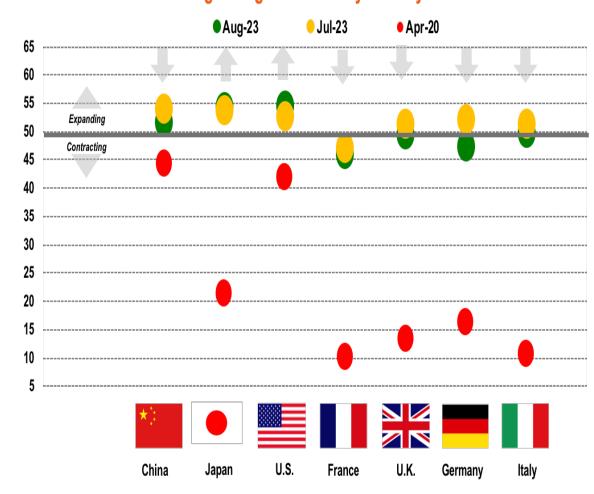




Manufacturing Purchasing Managers' Index - By Country



Service (or Non-Manufacturing) Purchasing Managers' Index - By Country

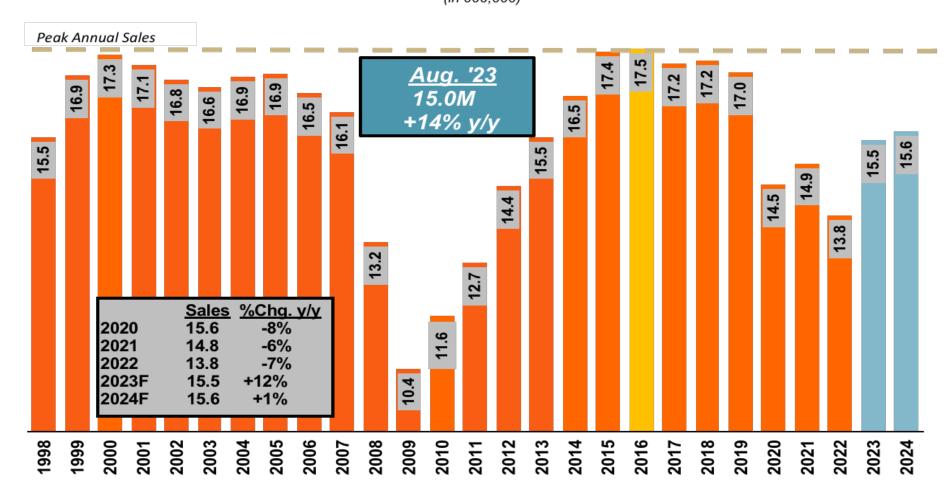


AUTO SECTOR



Auto plants shut down during the pandemic. In addition to structural issues, the sector faced a severe chip shortage, lean stocks and higher prices

Annual Light Vehicle Sales Actuals Thru August 2023 (in 000,000)



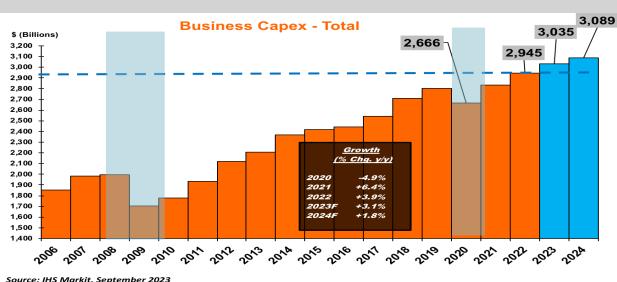
Source: BEA, September 6, 2023; IHS Markit, September 2023

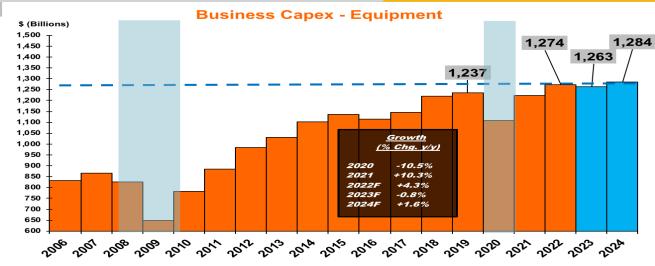
BUSINESS CAPEX

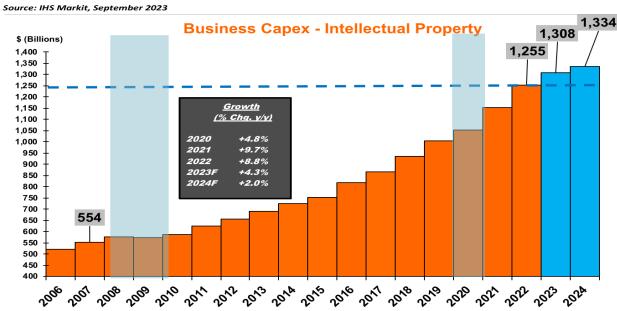
SAK

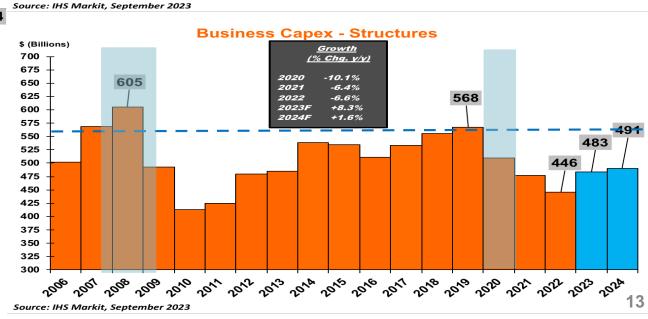
Business capex growth is expected to slow to 3% in '23 and 1.6% in '24: Software: Faster Growth; Replacement and Expansion Capex: Flattish









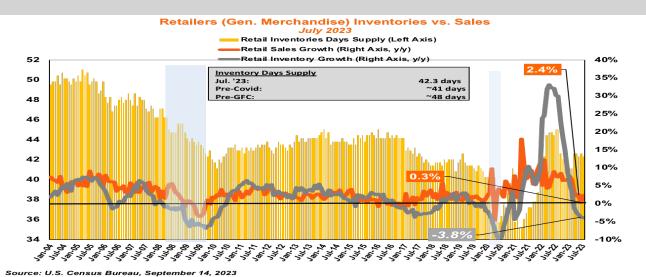


Source: IHS Markit, September 2023

BUSINESS INVENTORIES

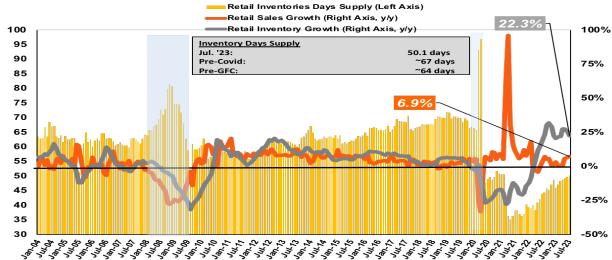
Not all retail inventories are the same: Core retail and pandemic sectors are destocking; autos is stocking. Supply chain bottlenecks are key factors

Economics LLC

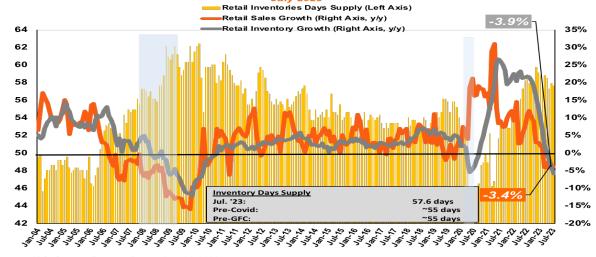




Retailers (Autos & Parts Dealers) Inventories vs. Sales July 2023

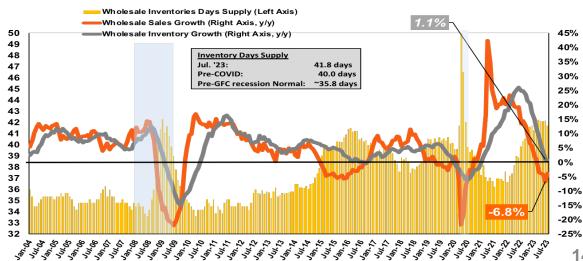


Retailers (Building & Garden Materials) Inventories vs. Sales July 2023



Source: U.S. Census Bureau, September 14, 2023

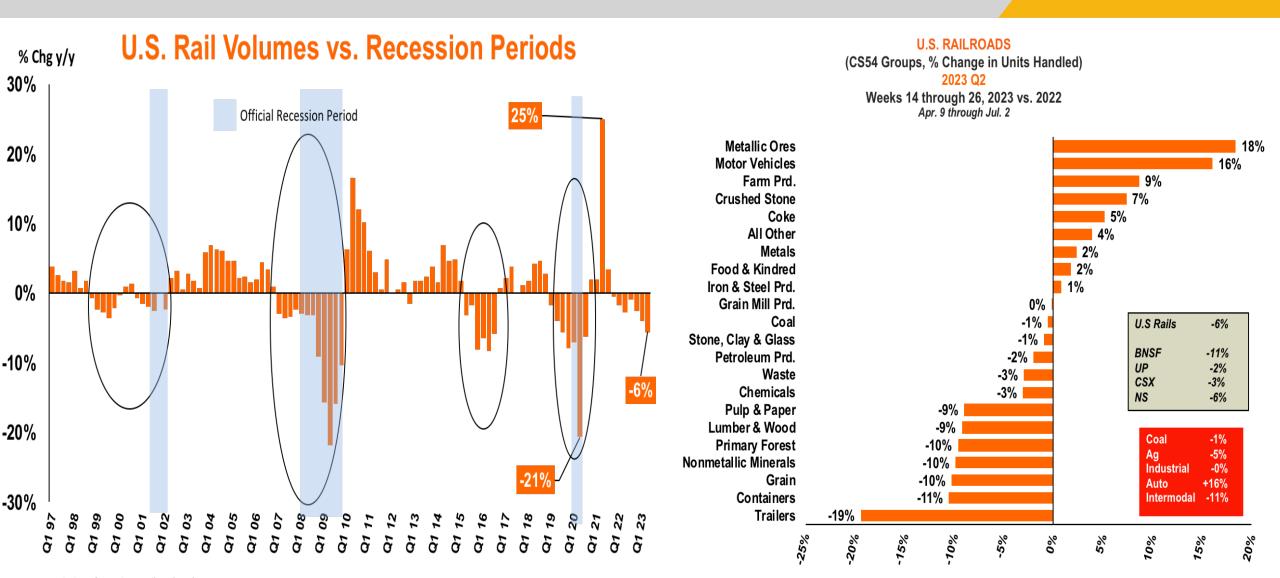
Wholesalers Inventories vs. Sales July 2023



THE FREIGHT RAIL SECTOR



Rail sector volume growth is a leading indicator of recessions. Q2 growth was about -6% y/y. Truck tons fell 0.8% y/y in Jun. '23



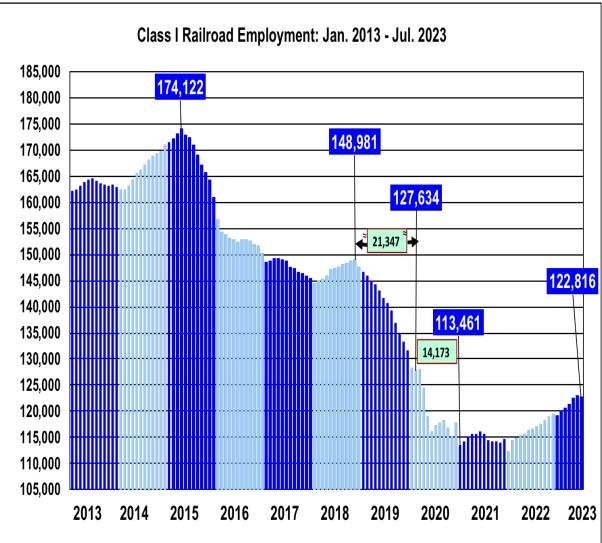
THE FREIGHT RAIL SECTOR

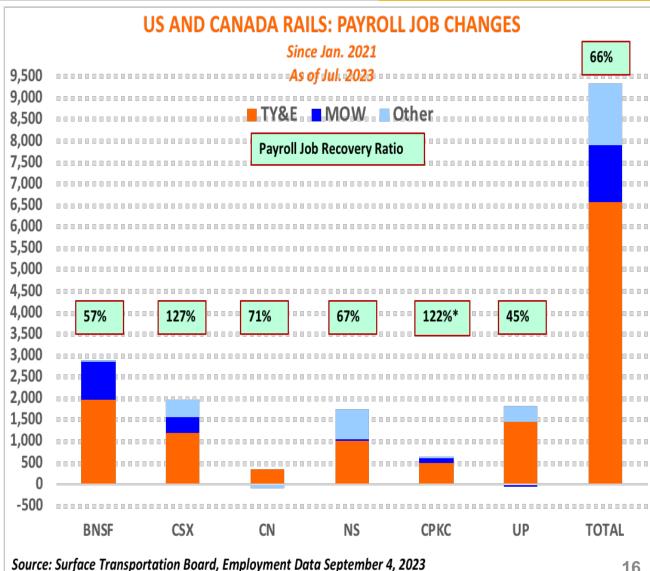
Source: Surface Transportation Board, September 4, 2023. Data are not seasonally adjusted.





16



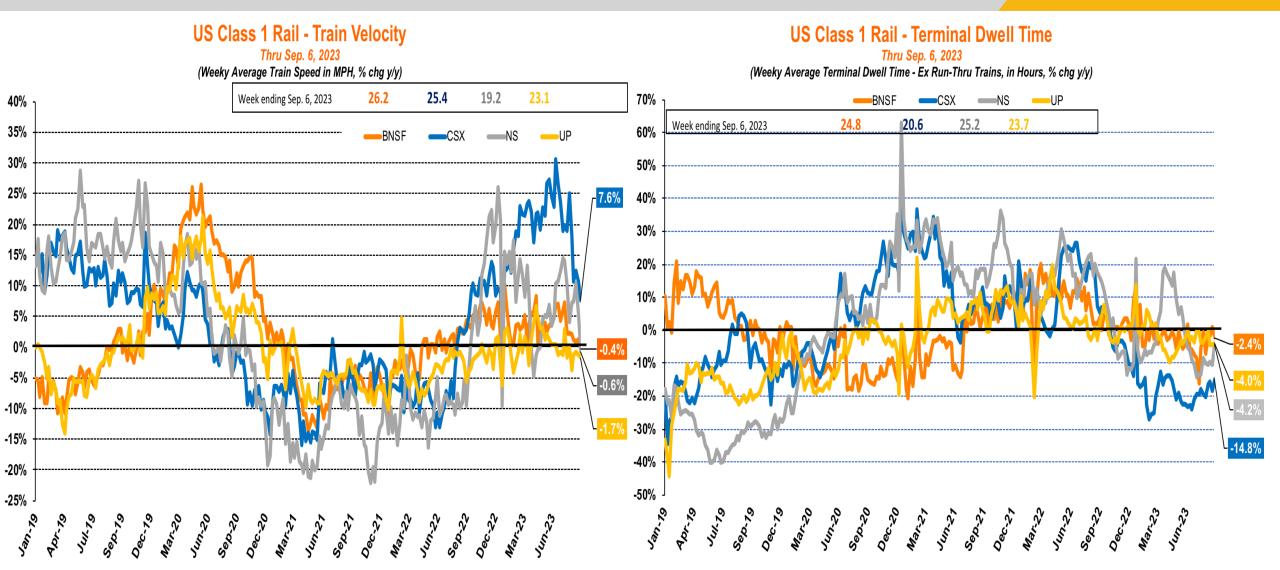


THE FREIGHT RAIL SECTOR

Source: STB EP724 Data, Sep. 6, 2023



Trains velocity improved on lower volume and easing supply chain congestion, but are slowing toward Peak. Terminal dwells are shorter y/y



17

Source: STB EP724 Data, Sep. 6, 2023

THE U.S. ECONOMIC OUTLOOK

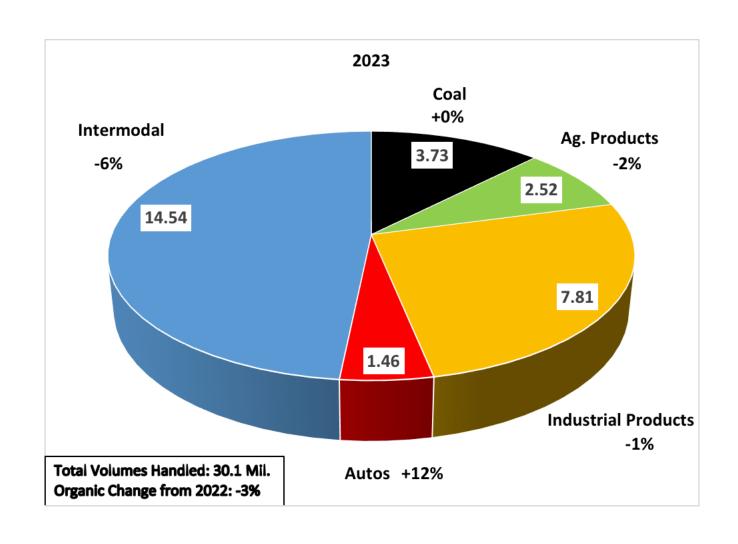


Macro Economic BASE CASE	Assumpt	ions
(Sep. 2023 Forecast)		
% Chg Y/Y Unless Stated	2023	2024
Real GDP	2.3%	1.5%
Unemployment Rate	3.6%	4.0%
EIA- Western Coal Production	-4.8%	-19.4%
EIA- App Coal Production	-5.0%	-22.3%
EIA- Interior Coal Production	6.0%	-9.6%
Coal Share of Electriicity Generation	15.8%	15.5%
Natural Gas Share of Electricity Generation	41.8%	39.9%
Renewables Share of Electricity Generation	22.5%	24.7%
Natural Gas Price (Henry Hub)	\$2.58	\$3.22
Grains Useage (Bushels, Billions)	20.3	21.0
Industrial Production	-0.2%	-1.1%
Manufacturing	-0.8%	-0.6%
Traditional Manufacturing	-0.7%	0.2%
Food (Ex. Beverages)	-1.5%	0.1%
Housing Starts (Millions)	1.418	1.385
Housing Starts (% Chg.Y/Y)	-8.6%	-2.3%
Furniture	-7.9%	-1.6%
Cement	-1.8%	5.5%
Nonmetallic Minerals	0.1%	1.1%
Iron & Steel	0.2%	1.1%
Chemicals	1.6%	1.4%
Plastics	-5.1%	0.7%
Oil & Gas Drilling	4.6%	1.4%
Aircraft & Parts	6.0%	8.3%
Railroad Equipment	-7.0%	-1.5%
Lt Veh - Sales (Millions)	15.5	15.6
Lt Veh - Sales (% Chg.Y/Y)	12.1%	1.3%
Goods Imports	-1.9%	4.3%
Goods Exports	2.5%	4.2%
Consumer Expenditures	2.5%	1.5%
Retail Sales	3.2%	2.1%
CPI Inflation	4.1%	2.7%
Core CPI Inflation	4.8%	3.1%
WTI Crude Oil (\$/Barrel)	77.8	81.5
Brent Crude Oil (\$/Barrel)	82.6	86.5
Brent-WTI Spread (\$/Barrel)	4.8	5.0

Source: S&P Global (Sep. '23); EIA and USDA WASDE (Sep. '23), SAK Economics LLC

THE U.S. FREIGHT RAIL OUTLOOK

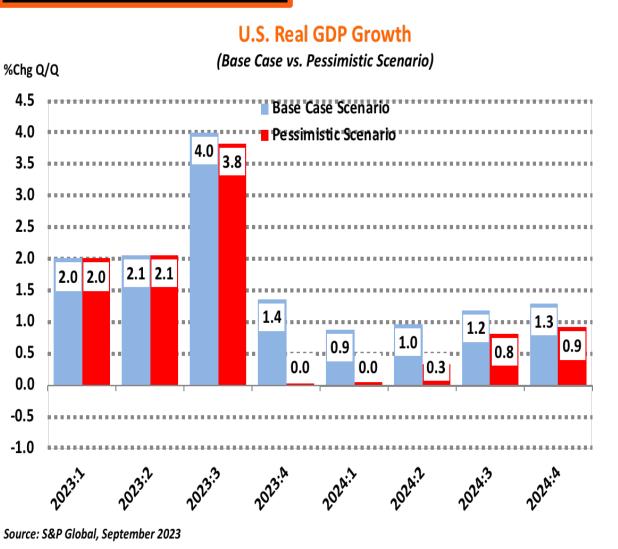




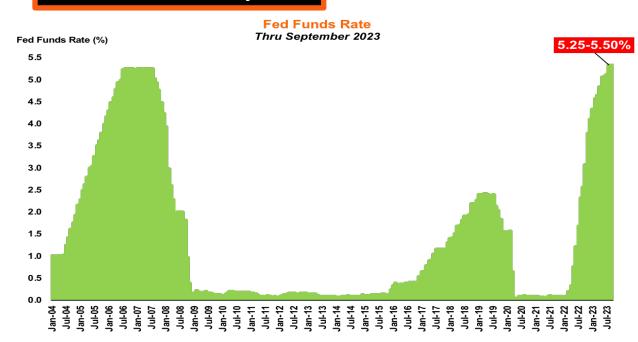
RISKS



Base Case Probability: 55%



Downside Probability: 30%



Source: Federal Reserve, September 12, 2023

	Headwinds		Tailwinds	
	Recession Scenario Probability (30%)		Optimistic Scenario Probability (15%)	
1	Fed Tightening	1	Jobs	
2	Banks: Credit Crunch	2	Supply Chains Easing	
3	Debt Ceiling	3	Fiscal Policy	
4	Energy Prices (War)	4	Productivity	
5	China	5	Incomes, Savings & Wages	
6	Student Loans	6	Rising Consumer Confidence	
	ce: SAK Economics LLC Sep. 2023			4

YOURS TRULY'S HEY (HAIR) DAYS



