# Maine Economic Indicators

# December 2023



Maine Department of Administrative and Financial Services
Office of the State Economist

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Maine Economic Indicators is a monthly report assembled by the Office of the State Economist that provides a synopsis of current economic trends and indicators for the state in comparison to New England and the United States. The intent of this report is to provide the public with a single document containing data aggregated from different sources typically used to track current economic and demographic conditions in the state.

The appendix provides comprehensive information related to the data presented herein. Data included in this report are assembled from various sources, subject to frequent revision, and provided in this report "as is" at the time of publication. Therefore, data presented in this report are subject to change over time.

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## 1 Snapshot

Indicators in this section provide a summary of Maine's current economic status. Figures for Maine are compared to New England and the United States. Sources are given in the appendix.

Reference			New	United
Period		Maine	England	States
2023	Total population	1,395,722	15,159,777	334,914,895
2022-2023	Annual population percent change	0.5%	0.3%	0.5%
2020-2023	Cumulative population percent			
2020-2023	change	2.4%	0.3%	1.0%
2022	Average earnings per job	\$61,708	\$80,905	\$71,586
2021-2022	Average earnings per job percent	4.2%	1.0%	1.7%
2021-2022	change	4.2/0	1.070	1.7 /0
November 2023	Unemployment rate	3.0%	2.9%	3.7%
November 2023	Total private nonfarm	553,600	6,645,800	134,120,000
	employment	333,000	0,043,000	134,120,000
November 2023	Labor Force	689,800	7,997,300	168,260,000
November 2023	Labor Force Participation Rate	58.9%	N/A	62.8%

### Annualized Percent Change from the previous quarter and Compound Annual Growth Rate (CAGR)

Real GDP	2022:Q4	2023:Q1	2023:Q2	2023:Q3	2022:Q4- 2023:Q3
Maine	8.1	-0.9	0.6	4.9	1.5
New England	5.8	-1.4	1.8	4.7	1.7
United States	2.6	2.2	2.1	4.9	3.0
Total Personal Income	2022:Q4	2023:Q1	2023:Q2	2023:Q3	2022:Q4- 2023:Q3
Maine	1.7	11.1	-2.1	3.8	4.1
New England	9.3	3.5	2.8	3.6	3.3
United States	4.7	6.8	4.0	3.5	4.7
Per Capita Personal Income	2022:Q4	2023:Q1	2023:Q2	2023:Q3	2022:Q4- 2023:Q3
Maine	0.9	10.4	-2.7	2.9	3.4
New England	9.0	3.5	2.7	3.4	3.2
United States	4.1	6.3	3.6	2.9	4.2
Wages & Salaries	2022:Q4	2023:Q1	2023:Q2	2023:Q3	2022:Q4- 2023:Q3
Maine	8.5	3.8	6.8	6.5	5.7
New England	5.1	5.8	3.3	5.7	4.9
United States	1.6	9.1	6.0	5.6	6.9

# 2 Annual Indicators

Indicators summarized below are updated annually on various release dates and provide a general summary of Maine's demographic and economic status.

Reference Period		Maine	New England	United States
2023	Total population	1,395,722	15,159,777	334,914,895
2022-2023	Annual population percent change	0.5%	0.3%	0.5%
2020-2023	Cumulative population percent change	2.4%	0.3%	1.0%
2023	Births	11,945	142,522	3,653,356
2023	Deaths	16,998	142,818	3,148,861
2023	Net migration	11,425	39,037	1,138,989
2022-2023	Annual rate of total net migration, per thousand (Maine ranks 9 <sup>th</sup> in the U.S.)	8.2	2.6	3.4
2022	Median age, years (American Community Survey)	45.1	41.2	39.0
2022	Associate degree: percent of population age 25 and above	10.7%	8.1%	8.8%
2022	Bachelor's degree: percent of population age 25 and above	22.3%	24.3%	21.6%
2022	Graduate or professional degree: percent of population age 25 and above	13.8%	19.1%	14.0%
2022	Percent of population below poverty level	10.8%	10.0%	12.6%
2022	Median family income	\$88,063	\$111,960	\$92,148
2022	Median household income	\$69,543	\$87,451	\$74,755
2022	Per capita personal consumption expenditures	\$55,789	\$61,033	\$52,542
2022	Per capita disposable personal income	\$53,011	\$65,072	\$56,062

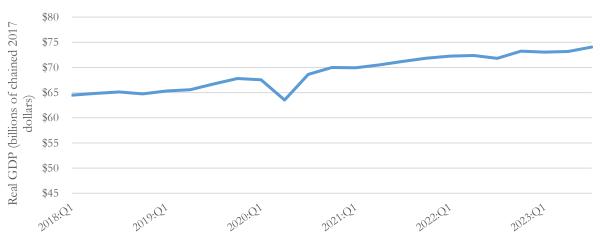
### 3 Quarterly and Monthly Indicators

#### 3.1 Gross Domestic Product (GDP)

Maine's real GDP grew 4.9% at an annualized rate in the third quarter of 2023, ranking 19<sup>th</sup> in the U.S. (growth of 4.9%) and first in New England (growth of 4.7%). The industry sectors that contributed the most to Maine's third quarter growth were retail trade (+2.07 percentage points), construction (+0.52 percentage points), and health care and social assistance (+0.46 percentage points). These gains were partially offset by declines in other industries, including utilities (-0.53 percentage points) and wholesale trade (-0.34 percentage points).

2023:Q3	Maine	United States
Nominal GDP (Current dollars)	\$91.8 billion	\$27.6 trillion
Real GDP (Chained 2017 Dollars)	\$74.0 billion	\$22.5 trillion

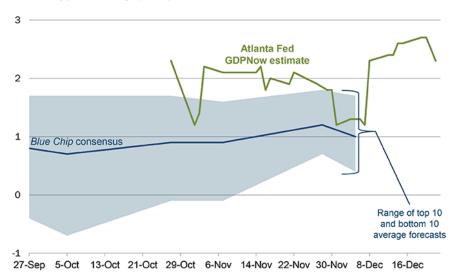
Real GDP (billions of chained 2017 dollars) - Maine



#### 3.1.1 GDP Now from the Federal Reserve Bank of Atlanta

GDPNow, which is reported by the Atlanta Fed, is "a running estimate of real GDP growth based on available data for the current quarter." This model uses a similar methodology to the one used by the U.S. Bureau of Economic Analysis in their official GDP estimates and is revised each time the monthly source data is updated. The nowcast estimate for 2023:Q4 as of December 22, is that U.S. real GDP will **increase by 2.3 percent** at an annual rate.

Evolution of Atlanta Fed GDPNow real GDP estimate for 2023: Q4 Quarterly percent change (SAAR)

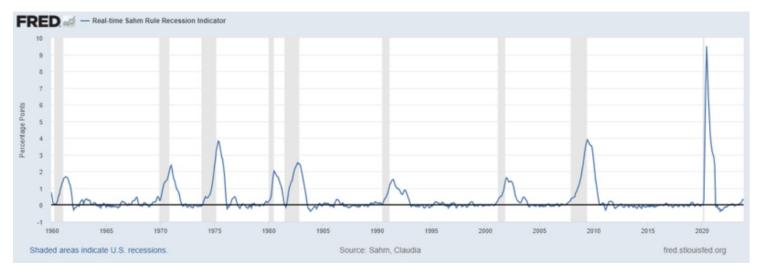


#### 3.2 Recession Indicators

NBER is the primary source in the United States that declares when recessions begin and end and defines a recession as a significant decline in economic activity that is spread across the economy and lasts more than a few months. Other recession indicators are used to estimate business cycles in real time but are not official sources for when recessions begin and end.

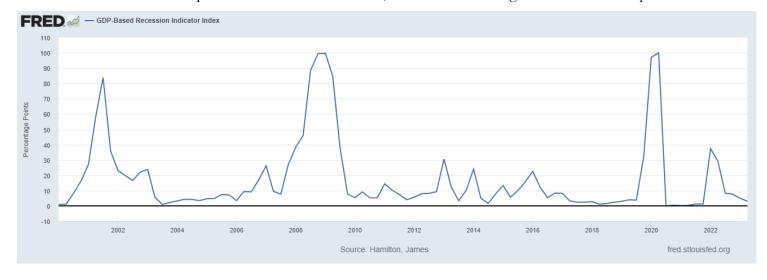
#### 3.2.1 Real-time Sahm Rule Recession Indicator

The Real-time Sahm Rule Recession Indicator<sup>1</sup> signals a recession when the 3-month moving average of the national unemployment rate (U3) rises by at least 0.5 percentage points relative to its low in the previous 12 months. In November 2023, this indicator showed that the three-month average of national U3 was 0.30 percentage points above its 12-month low.



#### 3.2.2 GDP-Based Recession Indicator Index

The GDP-Based Recession Indicator Index<sup>2</sup> is 3.0 percentage points (2023:Q2), down from 4.9 in the first quarter of 2023. The index ranges from 0 to 100, and values above 67 provide a historically reliable indicator that the economy is in recession. This index is calculated with a one quarter lag, which allows for extra insight and accounts for data revisions to make dependable inference. Therefore, the index does not get revised once it is published.



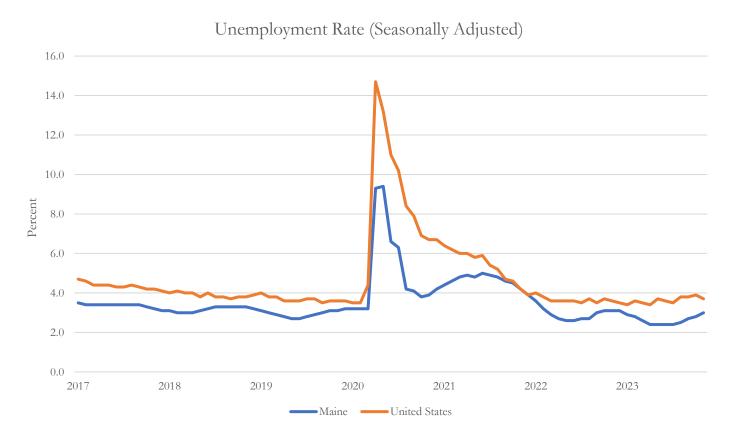
<sup>&</sup>lt;sup>1</sup> Created by Dr. Claudia Sahm, Federal Reserve Board of Governors

<sup>&</sup>lt;sup>2</sup> Created by Dr. James Hamilton, University of California San Diego

#### 3.3 Labor Markets<sup>3</sup>

#### 3.3.1 Unemployment Rate November 2023: 3.0%

Maine's seasonally adjusted unemployment rate was 3.0% in November, an increase from 2.8% in October. The increase in Maine's unemployment rate was due to more people joining the labor force and seeking work. Maine's 3-month average unemployment rate from September to November was 2.8%, up from 2.4% for the three months ending in August. Maine's unemployment rate has been trending below the U.S. unemployment rate since early 2022 and is just above the New England rate of 2.9%.



#### 3.3.2 <u>Labor Force Participation Rate November 2023: 58.9%</u>

Labor force participation (LFP) was 58.9% in November, up 0.1 percentage points from October. Maine Department of Labor is continuing to track the <u>divergence between payroll survey data and household survey data</u>. Household survey data, the source of the labor force participation figures, may be underestimating the labor force.

The employment to population ratio (EPOP), an alternative measure of labor market activity which measures the total number of employed working-age adults divided by the total working-age population, was 57.2% in November, up 0.1 percentage points from October. Labor force participation and EPOP have gradually increased this year. Both measures are up by 0.9 percentage points since January.

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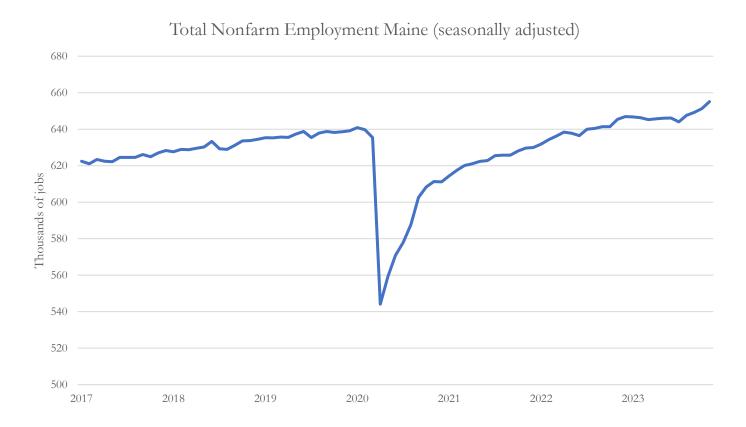
<sup>&</sup>lt;sup>3</sup> The data for unemployment rates and labor force are derived from the Local Area Unemployment Statistics (LAUS) program and data for nonfarm payroll jobs are derived from the Current Employment Statistics (CES) program. The numbers presented below are estimates which vary month to month in either direction and are subject to substantial revision. The Maine Department of Labor cautions users to analyze general trends over several months as opposed to making conclusions based on changes month to month.

### Labor Force Participation & Employment-Population Ratio (Maine)



#### 3.3.3 Total Nonfarm Payroll Job Estimates November 2023: 655,100

Seasonally adjusted nonfarm jobs increased by 3,800 to a record 655,100 in November. On an annual basis, nonfarm jobs are up 9,700 from November 2022.

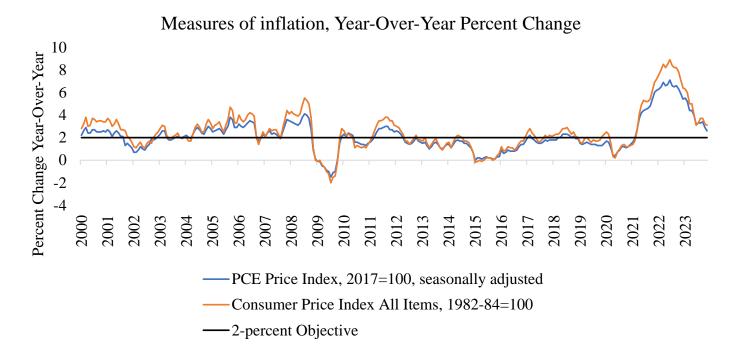


#### 3.4 National inflation measures

#### 3.4.1 Consumer Price Index vs. Personal Consumption Expenditures

There are two measures of inflation in the United States. The Consumer Price Index is released by the Bureau of Labor Statistics and is based on surveys of urban consumers, while Personal Consumption Expenditures price index is calculated by the Bureau of Economic Analysis and based on surveys of what businesses are selling. Both are used officially for various federal purposes, although the Federal Reserve focuses on PCE in monetary policy decisions.

In November the PCE price index grew by 2.6% year-over-year, down from 2.9% in October. On a monthly basis, it declined 0.1%, the first decline since April 2020. The CPI all-items index grew by 3.1% in November before seasonal adjustment, down from 3.2% in October. Growth in both indexes has decelerated considerably since June 2022 but both remain above the 2% Federal Reserve target.



#### 3.4.2 Expenditure categories of the CPI

The CPI for all urban consumers increased 3.1% year-over-year in November and 0.1% from a month prior. Shelter (+0.4%) continued to increase and offset a decline (-6.0%) in the gasoline index.

The energy index overall was down 2.3% in November on a monthly basis and is down 5.4% from November 2022. Fuel oil was down 2.7% in November and is down 24.8% year-over-year. (Heating oil prices were at historic heating season highs in November 2022).

The food index was up 0.2% in November and up 2.9% year-over-year. The core index, which excludes volatile food and energy prices, increased 0.3% from October and is up 4.0% year-over-year.

	Year-Ove	er-Year	Month-Ov	ver-Month
	(not seasonally adjusted)		(seasonally adjusted)	
Table 1. Percent Change in Consumer Price Index by Expenditure Category	Oct-23	Nov-23	Oct-23	Nov-23
All items	3.2	3.1	0.0	0.1
Food	3.3	2.9	0.3	0.2
Energy	-4.5	-5.4	-2.5	-2.3
All items less food and energy	4.0	4.0	0.2	0.3
Commodities (less food and energy)	0.1	0.0	-0.1	-0.3
Household furnishings and supplies	0.7	-0.3	-0.2	-0.7
Apparel	2.6	1.1	0.1	-1.3
Transportation commodities (less motor fuel)	-2.1	-0.9	-0.4	0.5
Medical care commodities	4.7	5.0	0.4	0.5
Recreation commodities	-0.4	-0.6	0.1	-0.6
Education and communication commodities	-7.1	-7.9	-1.3	-2.6
Alcoholic beverages	3.7	2.9	0.2	-0.1
Other goods	5.6	5.1	1.1	0.1
Services (less energy)	5.5	5.5	0.3	0.5
Shelter	6.7	6.5	0.3	0.4
Water and sewer and trash collection	5.3	5.4	0.3	0.3
Medical care services	-2.0	-0.9	0.3	0.6
Transportation services	9.2	10.1	0.8	1.1
Recreation services	5.7	4.8	0.1	0.1
Education and communication services	2.3	1.4	0.0	0.1
Other personal services	6.7	6.1	0.3	0.3

#### 3.5 Energy

#### 3.5.1 Gasoline

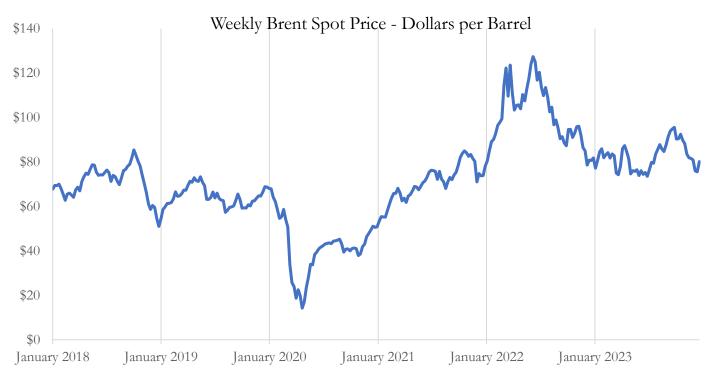
The average price of a gallon of gasoline in New England was \$3.281 on December 26, \$0.19 lower than a month prior and \$0.13 lower than the same week of 2022. The average price of gasoline in the month of December was down \$0.17 from November.

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New England - All Grades and Formulations Gasoline Price Per Gallon

#### 3.5.2 Brent Spot Prices

The weekly Brent spot price averaged \$78.16 for the month of December and was at \$80.15 for the week ending December 22, 2023. The Brent spot price decreased by \$1.47 since the week ending November 24, 2023.

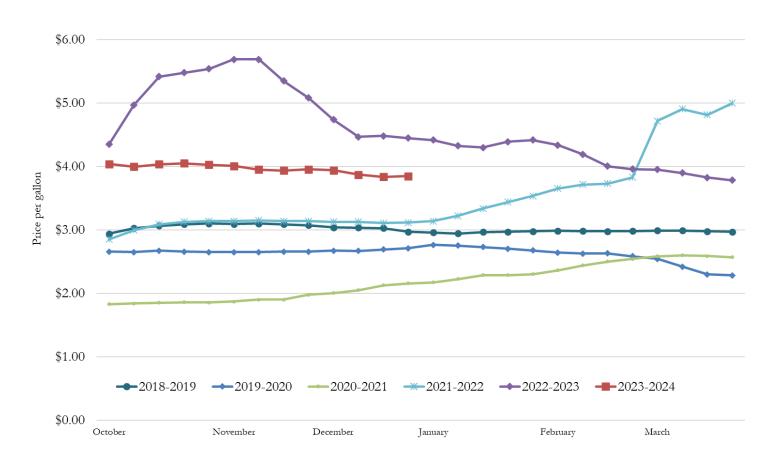


#### 3.5.3 Heating Oil

The price of a gallon of heating oil in Maine averaged \$3.85 in the week ending December 25, down \$0.11 from the month prior. Prices are down by \$0.60 from the same week last year, but \$0.77 above the five-year average of the same week in 2018-2022.

According to the Governor's Energy Office, prices on the most recent date measured (December 11) were highest in the Northern region of the state, at \$3.97 per gallon on average, and lowest in the Southwest/West-Central region of the state, at \$3.87 per gallon on average.

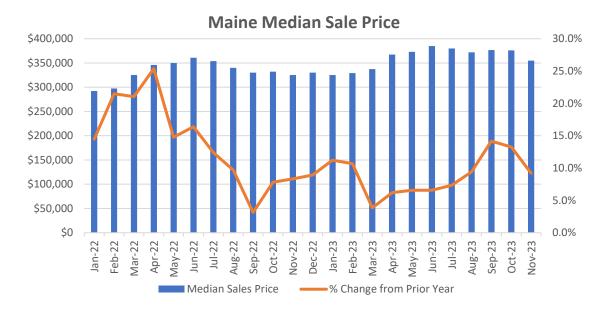
Maine No. 2 Heating Oil Residential Price



#### 3.6 Housing

#### 3.6.1 Sales

Home sales decreased statewide by 5.5% in November 2023 compared to November 2022, reflecting continued low inventory. The median sale price in Maine was \$355,000, a decrease of 5.6% from October and an increase of 9.2% year-over-year. Home prices in Maine have a defined seasonal pattern and are typically lower in the late fall and winter months. When looking at 3-month rolling averages, all counties except Sagadahoc had a decrease in homes sold and all counties had increases in median sale prices compared to the same three months of 2022. The annual increase in sale prices ranged from 1.6% in York County to 32.0% in Hancock County.



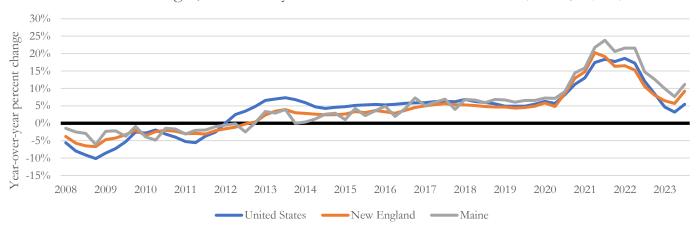
September 1, 2023 – November 30, 2023 Home Sales					
Geography	Geography No. of Units One Year Median Sale Change (Units) Price		One Year Change (Price)		
Androscoggin	282	-15.3%	\$318,500	17.1%	
Aroostook	205	-19.0%	\$164,600	12.7%	
Cumberland	905	-11.6%	\$550,000	13.4%	
Franklin	113	-24.2%	\$320,000	28.0%	
Hancock	199	-15.3%	\$429,000	32.0%	
Kennebec	384	-15.6%	\$304,500	14.9%	
Knox	143	-3.4%	\$430,000	9.5%	
Lincoln	123	-8.9%	\$500,000	22.0%	
Oxford	199	-25.8%	\$315,000	11.1%	
Penobscot	396	-15.9%	\$250,000	4.2%	
Piscataquis	89	-13.6%	\$205,000	9.0%	
Sagadahoc	119	4.4%	\$425,000	13.8%	
Somerset	156	-19.2%	\$233,500	16.8%	
Waldo	120	-14.9%	\$330,000	24.1%	
Washington	124	-12.7%	\$227,950	14.0%	
York	611	-16.4%	\$467,500	1.6%	
Maine	4063	-14.9%	\$370,000	12.1%	

#### 3.6.2 House Price Index

In the third quarter of 2023, Maine's year-over-year growth in the house price index (HPI)<sup>4</sup> was 11.1% (seasonally adjusted), second highest in the nation for year-over-year growth after Vermont (11.8%). On a seasonally adjusted quarterly basis, Maine's house price index increased 2.7% from the second quarter of 2023 compared to 3.8% in New England and 1.7% in the U.S. As shown in the chart below, Maine's percent change in HPI remains well above the U.S. and New England, and all three saw an uptick in HPI growth in Q3 following recent declines.

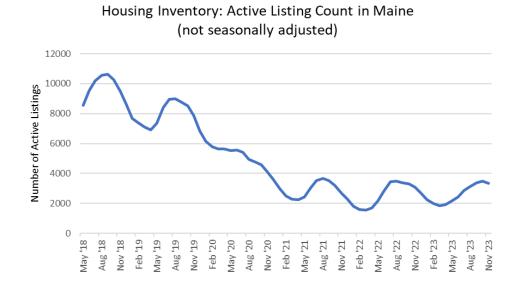
Reference Period			New	United States
		Maine	England	
2022:Q3-2023:Q3	HPI percent change from previous year	11.1%	9.2%	5.5%

Percent Changes, Year-over-year in FHFA House Price Index (Seasonally Adjusted)



#### 3.6.3 Inventory

There were 3,324 active listings of single-family and condo homes in Maine in November. Since inventory levels have a defined seasonal pattern, it is most useful to look at changes year-over-year. Inventory has been at historically low levels since 2020. The number of active listings in November 2023 was up 8.4% from November 2022, but down 65% from November 2018.



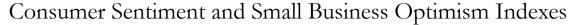
<sup>&</sup>lt;sup>4</sup> According to the Federal Housing Finance Agency (FHFA), the HPI "measures average price changes in repeat sales or refinancing on the same properties."

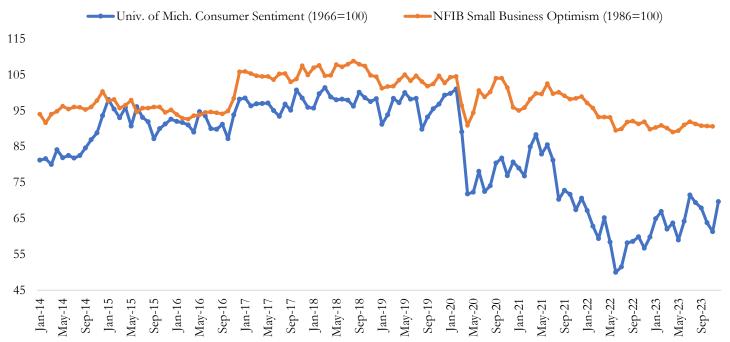
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#### 3.7 Sentiment

The **Index of Consumer Sentiment** from the University of Michigan was up 13.7% in December from the prior month and up 16.6% from the prior year. The dramatic improvement in sentiment this month reflects positive perceptions of inflation trends and was seen across all age, income, education, geographic and political affiliation groups. The growth in the index in December offsets all declines in the previous four months.

The **Small Business Optimism Index**, as measured by the National Federation of Independent Businesses, was relatively unchanged in November (-0.1%) and down 1.4% in the past 12 months. November was the 23rd consecutive month below the 50-year average.

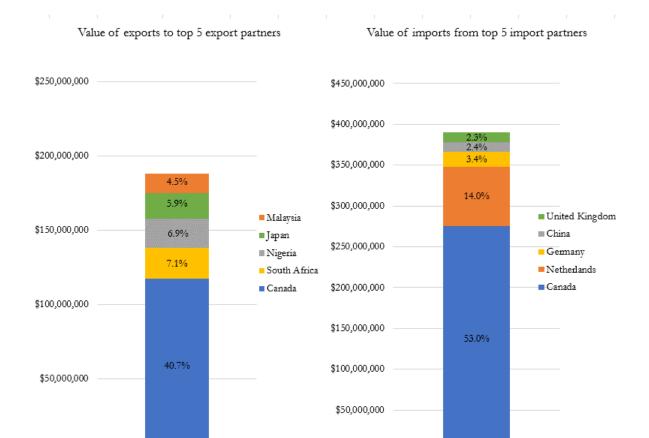




#### 3.8 Trade Outlook

#### 3.8.1 Exports and trade partners

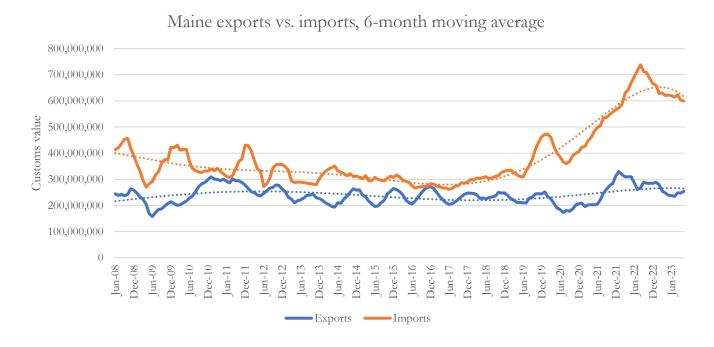
In October 2023, total exports were down 10.2% in Maine, down 3.5% in New England, and down 1.3% nationwide compared to October 2022. Year-over-year exports have been volatile since early 2021. Maine's top trade partner was Canada, which accounted for 53% of imports and 41% of exports.



Similar to the nation, Maine's trade deficit has grown in recent months as the U.S. dollar has strengthened relative to foreign currencies, which makes imports from other countries cheaper and more attractive. Conversely, a strong U.S. dollar can lead to decreasing exports, as goods and services from the U.S. are more expensive for international consumers. These dynamics contribute to a large trade deficit, both in Maine and the U.S. After peaking in August 2022 at -\$471 million, the six month average trade deficit was -\$346 million as of October 2023.

\$0

\$0



# 4 Appendix

## 4.1.1 Data Sources

Indicator	Source	Reference Period	Release Date
Population: estimates and			
percent change	Census Bureau – Pop. Ests.	2023	December 19, 2023
Net migration: total and percent			
change	Census Bureau – Pop. Ests.	2023	December 19, 2023
Median age	Census Bureau – ACS 1-year	2022	September 14, 2023
Educational attainment	Census Bureau – ACS 1-year	2022	September 14, 2023
Poverty level	Census Bureau – ACS 1-year	2022	September 14, 2023
Income	Census Bureau – ACS 1-year	2022	September 14, 2023
Per capita personal	,		,
consumption expenditure	U.S. Bureau of Economic Analysis	2022	October 4, 2023
Per capita personal income	U.S. Bureau of Economic Analysis	2022	September 29, 2023
Average earnings per job	U.S. Bureau of Economic Analysis	2022	September 29, 2023
Gross domestic product	U.S. Bureau of Economic Analysis	2023:Q3	December 22, 2023
<u>GDPNow</u>	Atlanta Fed	2023:Q4	December 22, 2023
Real-time Sahm Rule Recession			
Indicator	Sahm, Claudia/FRED	Nov. 2023	December 8, 2023
GDP-Based Recession Indicator			
<u>Index</u>	Hamilton, James/FRED	2023:Q2	October 26, 2023
Personal income: total, per			
capita, and wages and salaries	U.S. Bureau of Economic Analysis	2023: Q3	December 22, 2023
<u>Unemployment rate</u>	U.S. Bureau of Labor Statistics	Nov. 2023	December 22, 2023
Labor force participation	U.S. Bureau of Labor Statistics	Nov. 2023	December 22, 2023
Nonfarm payroll job estimates	U.S. Bureau of Labor Statistics	Nov. 2023	December 22, 2023
Consumer Price Index	U.S. Bureau of Labor Statistics	Nov. 2023	December 12, 2023
	U.S. Bureau of Economic		
PCE Price Index	Analysis/FRED	Nov. 2023	December 22, 2023
Brent Spot Prices	Energy Information Administration	Dec. 22, 2023	December 28, 2023
Gasoline	Energy Information Administration	Dec. 26, 2023	December 26, 2023
Heating Oil Prices	Energy Information Administration	Dec. 25, 2023	December 28, 2023
House price index	Federal Housing Finance Agency	2023:Q3	November 28, 2023
Housing: Units and Median Sale		SeptNov.	
Price	Maine Association of REALTORS®	2023	December 20, 2023
Housing Inventory – Active			
Listing Count in Maine	Realtor.com via FRED	Nov. 2023	November 30, 2023
	University of Michigan Survey of		
Index of Consumer Sentiment	Consumers	Nov. 2023	December 22, 2023
	National Federation of Independent		
Small Business Optimism Index	Businesses	Nov. 2023	December 12, 2023
Imports & Exports	USA Trade Online	October 2023	December 6, 2023

### 5. Glossary

Average earnings per job: Total earnings, which is the sum of wages and salaries, supplements to wages and salaries, and proprietors' income, divided by total full-time and part-time employment.

Compound Annual Growth Rate: = 
$$\left(\frac{Final\ Value}{Initial\ Value}\right)^{\frac{1}{No.\ of\ Periods}} - 1$$

Gross Domestic Product: The measure of the market value of all final goods and services produced within a state in a particular period of time. GDP by state differs from national GDP for the following reasons: GDP by state excludes and national GDP includes the compensation of federal civilian and military personnel stationed abroad and government consumption of fixed capital for military structures located abroad and for military equipment, except office equipment. *Real GDP*: Real GDP by state is an inflation-adjusted measure of each state's gross product that is based on national prices for the goods and services produced within the state. The real estimates of gross domestic product (GDP) by state are measured in chained (2012) dollars.

<u>Housing Price Index</u>: A weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or refinancing on the same properties.

<u>Labor Force Participation Rate</u>: The labor force as a percent of the civilian noninstitutional population ages 16 years and older.

<u>Net Migration Rate</u>: The U.S. Census Bureau defines the net migration rate as the difference between the number of migrants entering and those leaving an area in a year, per 1,000 midyear population. May also be expressed in percent. A positive figure is known as a net immigration rate and a negative figure as a net emigration rate.

<u>Personal Consumption Expenditures by State</u>: A measure of spending on goods and services purchased by, and on behalf of, households based on households' state of residence divided by the resident population of the area.

<u>Personal Income</u>: Income that persons residing in the area receive in return for their provision of labor, land, and capital used in current production as well as other income, such as personal current transfer receipts. *Per capita personal income*: The personal income of a given area divided by the resident population of the area. *Per capita disposable personal income*: The income available to persons for spending or saving (personal income less personal current taxes) of a given area divided by the resident population of the area.

<u>Poverty Level</u>: The U.S. Census Bureau uses a set of money income thresholds that vary by family size and composition to determine who is in poverty. If a family's total income is less than the family's threshold, then that family and every individual in it is considered in poverty.

<u>Real Trade Weighted Value of the Dollar</u>: An index that calculates the inflation-adjusted value of the U.S. dollar against the currencies of countries with which the state trades.

<u>Total merchandise exports</u>: Total exports are calculated by adding domestic exports (goods that are grown, produced, or manufactured in the United States) to foreign exports (foreign-origin goods that have previously entered the United States, Puerto Rico, or the U.S. Virgin Islands for consumption, entry into a CBP bonded warehouse, or a U.S. <u>Foreign Trade Zone (FTZ)</u>, and at the time of exportation, have undergone no change in form or condition or enhancement in value by further manufacturing).

Total Private nonfarm employment: Each month Current Employment Statistics (CES) surveys a sample of about 2,700 nonfarm private employers (plus federal, state, and local government employers) in Maine asking them to report the number of jobs, hours, and earnings of workers on their payroll during the week including the 12th day of each month. The sample accounts for just 7% of employers, but 34% of nonfarm jobs in the state because a high share of large employers are surveyed.

<u>Unemployment Rate</u>: Number of unemployed as a percent of the labor force. To be classified as unemployed, persons must be aged 16 years and older with no employment during the reference week, were available for work, except for temporary illness, and had made specific efforts to find employment sometime during the 4-week period ending with the reference week.

<u>Wages and Salaries</u>: Remuneration receivable by employees (including corporate officers) from employers for the provision of labor services, measured before deductions such as social security contributions, union dues, and voluntary employee contributions to defined contribution pension plans.