Commonwealth of Pennsylvania

ECONOMIC and ACT 1 INDEX UPDATE

68TH PASBO Annual Conference & Exhibits

March 16, 2023



Good Morning and a Quick Overview

I PA Economy: Where are we?

- Latest data: jobs, inflation, labor market
- Focus: labor market and demographics
- Focus: inflation and wages

II Statewide Public School Employment, Payroll and Wages

- COVID jobs contraction
- Real Average Weekly Wage contracts

III Act I Index Outlook

- Statewide Average Weekly Wage (SAWW) remains elevated
- Significant and sudden jump in Employment Cost Index (ECI)

"Why the Recession is Always Six Months Away"

THE WALL STREET JOURNAL.

March 6, 2023 10:45 am ET

"The next economic downturn has become the most anticipated recession in recent U.S. history. It also keeps getting postponed."

WSJ Economist Survey: Odds of Recession in Next 12 Months

Nov	2007	34%
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Dec 2007 38% (Dec 07 to Jun 09)

Jun 2022	44%
Jul 2022	49%

Oct 2022 63%

Jan 2023 61%

I. PA Economics: Recent Statewide Trends

	June 2022	Dec 2022	Latest	Latest Data For
Philly CPI-U All Items	8.8%	6.4%	6.9%	February 2023
Energy Only	46.0%	11.8%	6.6%	February 2023
Grocery Only	13.1%	14.2%	13.3%	February 2023
Gasoline (\$/gallon)	\$5.07	\$3.40	\$3.63	March 14
Unemployment Rate	4.3%	4.3%	4.3%	January 2023
Wage Growth	9.8%	5.6%	5.1%	2023 Q1

Note: All growth rates are year over year. Energy is 7.0% of CPI-U and includes gasoline and household utilities. Groceries are 7.6% of CPI-U. Sources: U.S. Bureau of Labor Statistics and AAA (PA average gasoline price).

PA Labor Market: Pre vs Post Pandemic

	2019 Q4	2022 Q4	Change
Number Jobs (000s)			
Establishment Survey (# jobs)	6,142	6,099	-42
Household Survey (# people)	6,314	6,222	-92
Labor Force (age 16+)			
Number (000s)	6,580	6,474	-105
Participation Rate	63.2%	61.8%	-1.5%
Population (000s)			
Age 18 to 64	7,917	7,777	-140
Age 65+	2,362	2,537	+174

PA Payroll Job Gains/Losses (000s)

Sector or Sub-Sector	Change
Warehousing and Storage	+30
Management (HQs)	+14
Couriers and Messengers	+6
Nursing Home and Residential Care	-27
Full-Service Restaurants	-18
Local Gov't: municipals	-10
Colleges and Universities	-9
Non-Profits	-9
Accommodation	-8
Local Gov't: school districts	-7
All Other	<u>-4</u>
Total Change	-42
Source: U.S. Bureau of Labor Statistics.	

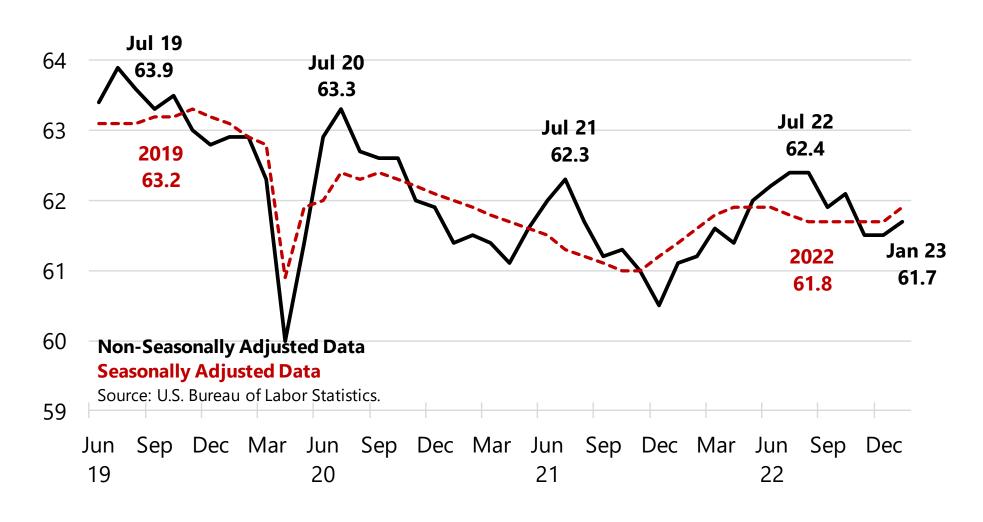
2019 Q4 vs 2022 Q4

excludes self-employed count of jobs, not people

FedEx, UPS

Limited-Service Restaurants now > pre-COVID (+3k)

PA Labor Force Participation Rate Declines During COVID



LFPR = share of adults age 16+ working or looking for work

Growth of age 65+ pushes LFPR down

by Age Group 25-54 82.5%

55-64 65.3%

65-69 34.3%

70-74 19.8%

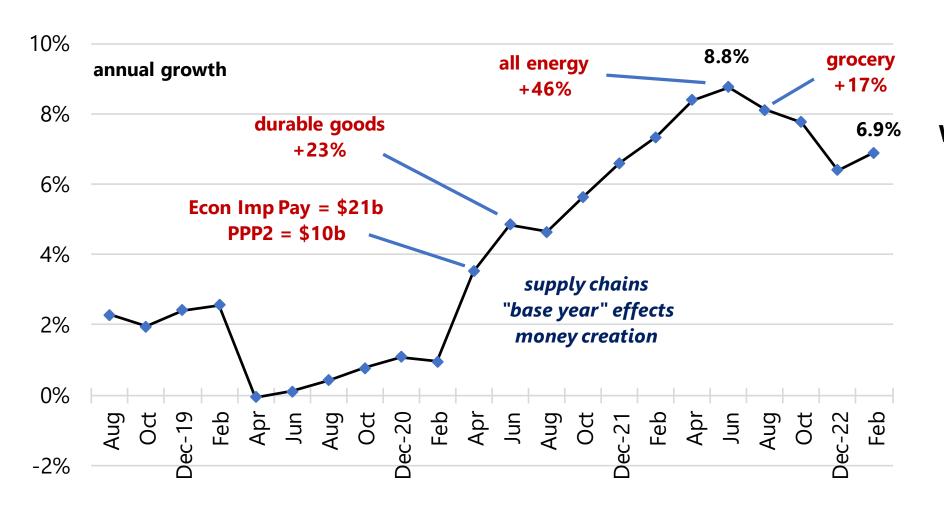
Roughly 2/3 of total labor force decline (-105k) due to demographic factors

Federal Pandemic Stimulus Ends (\$ billions to PA)

	2020	2021	2022	2023.1	2023.2	2023.3
Unemployment Comp	\$31.5	\$16.9	\$0.1			
Economic Impact Payments	11.2	22.1	0.8			
PPP Loans	20.7	10.0				
CTC/ERC/Dependent Care		4.4	3.8			
SNAP and P-EBT	1.3	3.4	2.7	\$0.4	\$0.1	\$0.2
Rent and Childcare Assist	<u>0.1</u>	<u>1.6</u>	<u>1.2</u>	<u>0.3</u>	<u>0.2</u>	<u>0.2</u>
Total	64.8	58.3	8.6	0.7	0.3	0.4
Student Loan Moratorium	\$5.7	\$7.7	\$7.7	\$1.9	\$1.9	??

Note: Unemployment Comp includes \$5.2 (2020) and \$0.8 (2021) billion of state monies. Excludes most direct federal monies to state and local government units and higher education institutions. Childcare includes stabilization funds (\$820m) and block grants (\$865m).

Philadelphia CPI-U: Three Inflation "Waves"



Wage-Price "Persistence"

is 5% wage growth consistent with 2% inflation?

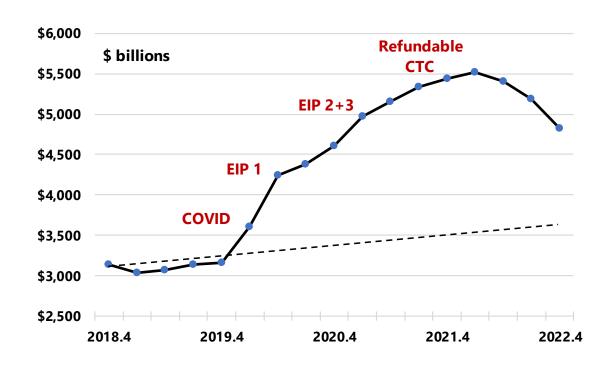
Something must give productivity gains? reduced profits?

8

Consumer Price Index Growth - February 2023

Component	U.S.	Philadelphia
All Items	6.0%	6.9%
Groceries	10.2%	13.3%
Dining Out	8.4%	7.2%
Rent of Residence	8.8%	8.3%
Owner Occupied Housing	8.0%	7.6%
All Energy (gasoline, utilities)	5.2%	6.6%
New Cars	5.8%	5.7%
Used Cars	-13.6%	-13.6%
All Durable Goods	-1.8%	0.7%
Medical Care	2.1%	4.9%
Airline Fares	26.5%	n.a.
Vehicle Insurance	14.5%	n.a.
Note: Growth rates are year-over-year. Source: U.S. Bureau	ı of Labor Statistics.	

Savings Cushion?: US Deposits at FDIC Banks and Savings/Loans



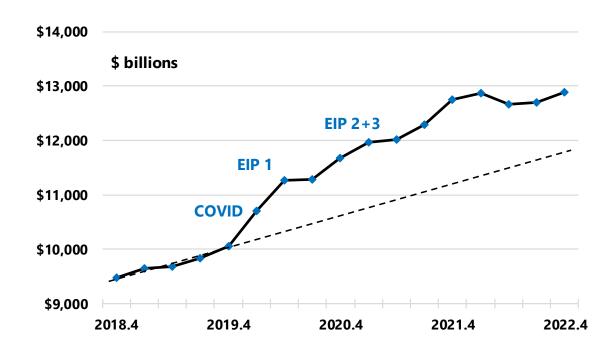
FDIC non-interest bearing deposits

~\$1.2 trillion (+34%) above trendline but falling rapidly

FDIC interest bearing deposits

~\$1.0 trillion (+9%) above trendline

Inflation = +15% 2019.4 to 2022.4



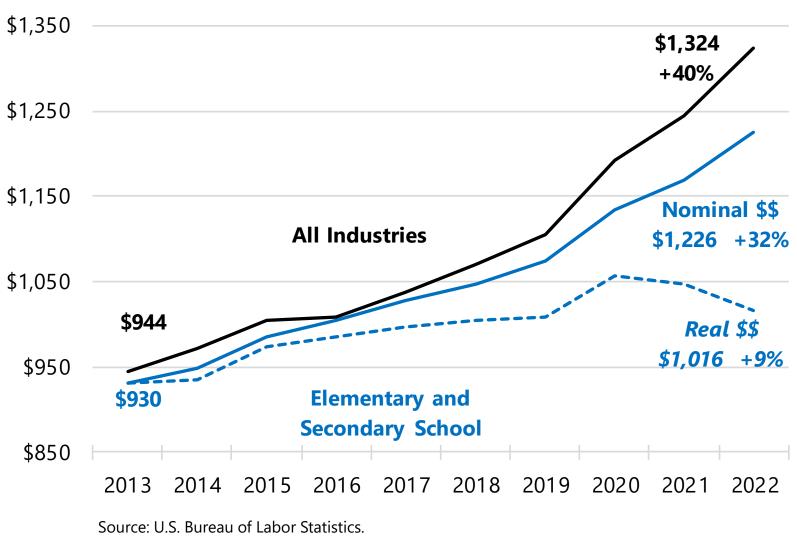
II. Statewide Public School Employment and Payroll

	16-17	17-18	18-19	19-20	20-21	21-22	22-23
Employment (000s)	267.9	268.1	268.8	267.2	257.7	263.0	265.3
Growth	-0.3%	0.1%	0.3%	-0.6%	-3.6%	2.0%	0.9%
Payroll (\$ billions)	\$13.31	\$13.47	\$13.79	\$14.04	\$14.18	\$14.70	\$15.07
Growth	2.8%	1.1%	2.4%	1.8%	1.0%	3.7%	2.5%

Notes: Blue text denotes projection. Employment and payroll includes all public schools (traditional, charters, and cyber charters) and a small number of higher education jobs (2,630 in 2022) held by PSERS members.

Source: Employment from U.S. Bureau of Labor Statistics, Local Government – Education. Total Payroll from PSERS.

Real PA Average Weekly Wage Contracts



Average Weekly Wage contracts past two years

Philadelphia CPI-U

2021 +4.0%

2022 +7.9%

2023 +5.0% to 5.5%

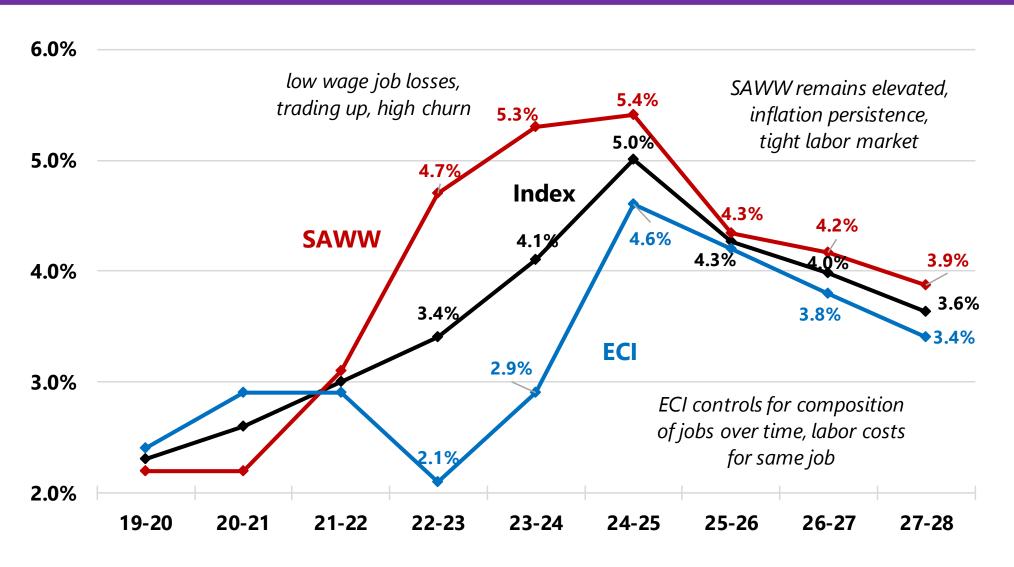
III. Act 1 Index Forecast

19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27
2.3%	2.6%	3.0%	3.4%	4.1%	5.0%	4.3%	4.0%
2.2%	2.2%	3.1%	4.7%	5.3%	5.4%	4.3%	4.2%
2.4%	2.9%	2.9%	2.1%	2.9%	4.6%	4.2%	3.8%
					'		
August 2022 Forecast (Base Index)					4.5%	4.0%	3.8%
				-0.1%	+0.5%	+0.3%	+0.2%
	2.3% 2.2% 2.4%	2.3%2.6%2.2%2.2%2.4%2.9%	2.3% 2.6% 3.0% 2.2% 2.2% 3.1% 2.4% 2.9% 2.9%	2.3% 2.6% 3.0% 3.4% 2.2% 2.2% 3.1% 4.7% 2.4% 2.9% 2.9% 2.1%	2.3% 2.6% 3.0% 3.4% 4.1% 2.2% 2.2% 3.1% 4.7% 5.3% 2.4% 2.9% 2.9% 2.1% 2.9% cast (Base Index) 4.2%	2.3% 2.6% 3.0% 3.4% 4.1% 5.0% 2.2% 2.2% 3.1% 4.7% 5.3% 5.4% 2.4% 2.9% 2.9% 2.1% 2.9% 4.6% cast (Base Index) 4.2% 4.5%	2.3% 2.6% 3.0% 3.4% 4.1% 5.0% 4.3% 2.2% 2.2% 3.1% 4.7% 5.3% 5.4% 4.3% 2.4% 2.9% 2.9% 2.1% 2.9% 4.6% 4.2% cast (Base Index) 4.2% 4.5% 4.0%

Notes: SAWW is statewide average weekly wage. ECI is employment cost index (2022.4 growth rate is 4.7%).

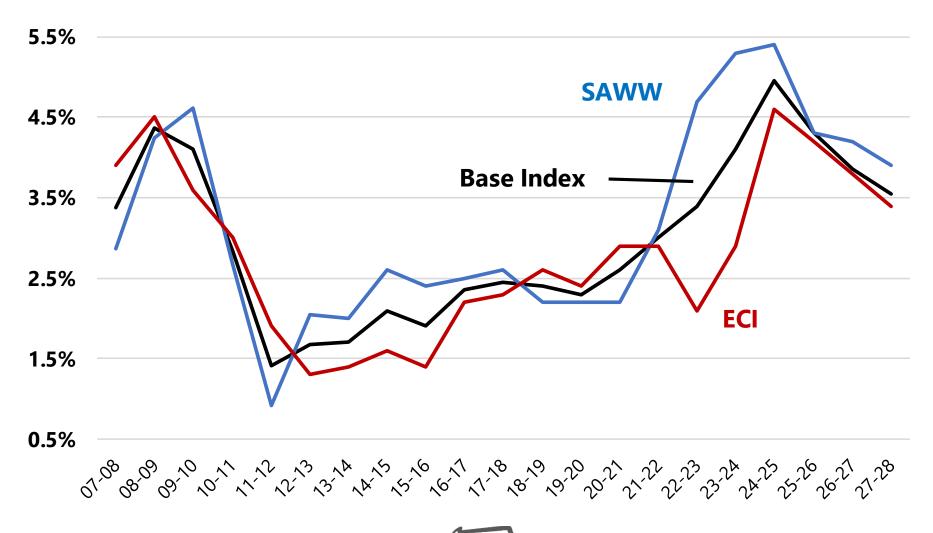
Source: Reported by the Department of Education through 23-24, forecast by the IFO thereafter.

Act 1 Index Components



ECI response rates down dramatically 2010 71.8% 2019 62.3% 2021 54.3% 2022 50.6%

Act 1 Index: Long-Term Perspective



Closing Comments

Pennsylvania (and its public schools) face significant challenges

- Contracting working age population implies tight labor markets going forward
- 2019 to 2022: -131,000 (-1.7%)
- 2022 to 2025: -128,000 (-1.7%)
- Inflation appears persistent for now

How long will Act 1 Index remain elevated?

- Latest release for ECI growth was 4.7% for 2022 Q4
- Much depends on ECI | SAWW forecast is more reliable (assumes no recession)
- Falling ECI response rates complicate the forecast