

#### December 2022 | Legislative Council Staff

### **Economic & Revenue Forecast**

Presentation to the Joint Budget Committee

December 20, 2022

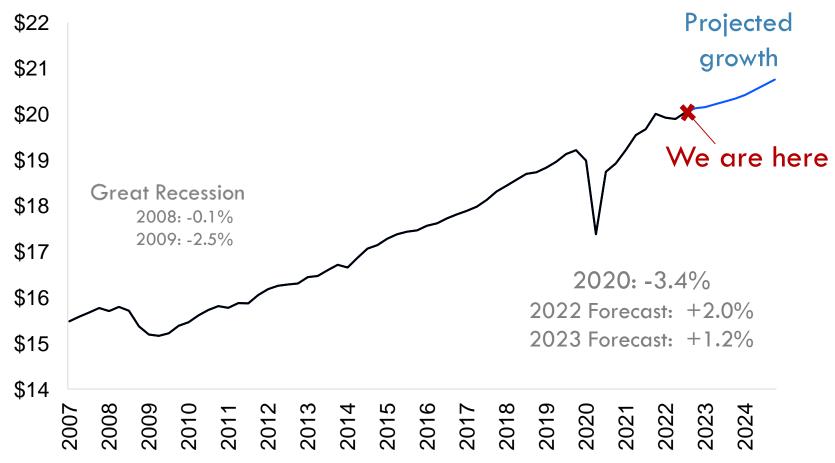
### **Economic Outlook**



## Positive, but slower, economic growth anticipated through forecast period

Real U.S. Gross Domestic Product

Dollars in Trillions



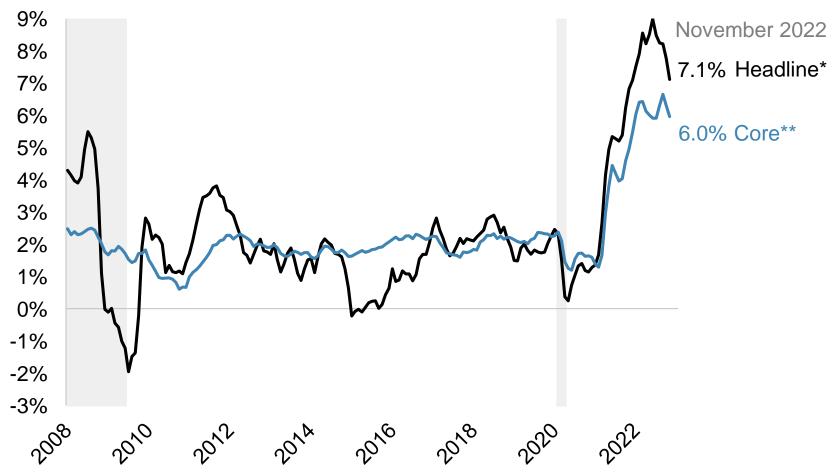
Source: U.S. Bureau of Economic Analysis and Legislative Council Staff December 2022 projections.

Real GDP is inflation-adjusted to chained 2012 levels and shown at seasonally adjusted annualized rates.

## Nation's inflationary pressures continue, forecast to average 8.1 percent in 2022 and 4.6 percent in 2023

U.S. City Average CPI-U Inflation

Year-over-Year Change in Prices



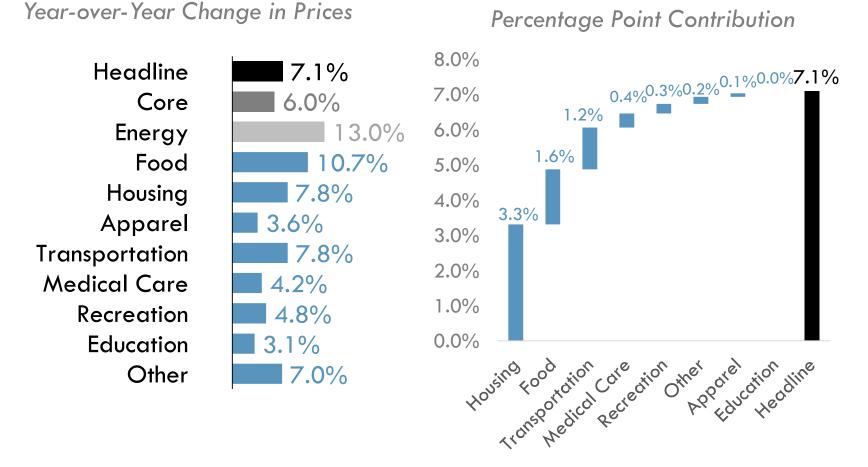
Source: U.S. Bureau of Labor Statistics.

Inflation is calculated as the growth in urban area prices in a given period relative to the same period in the prior year.

<sup>\*</sup>Headline inflation includes all products and services. \*\*Core inflation excludes food and energy prices.

## Energy and transportation prices easing, housing continues to exert upward pressure

U.S. CPI-U, Selected Components, November 2022

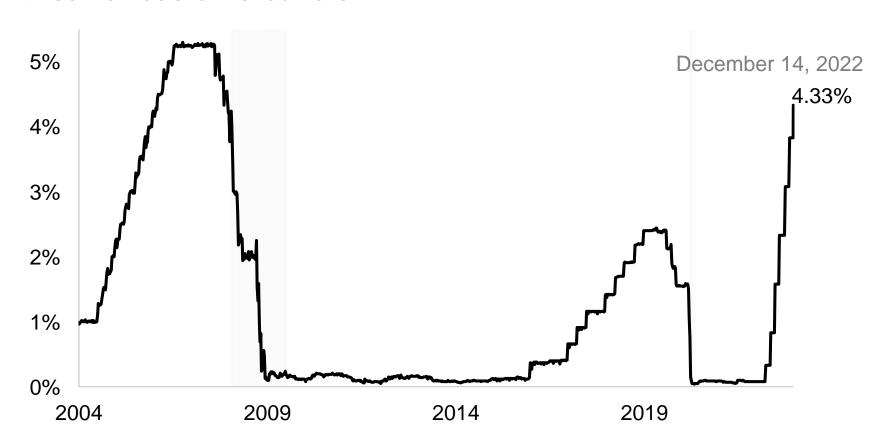


Source: U.S. Bureau of Labor Statistics.

Inflation is calculated as the growth in urban area prices in a given period relative to the same period in the prior year.

## Smaller rate increases ahead, with higher terminal peak

#### Effective Federal Funds Rate

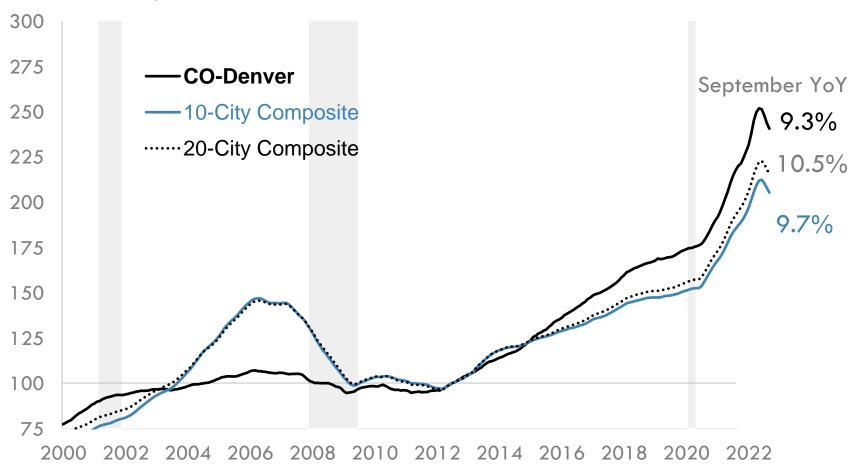


Source: Board of Governors of the Federal Reserve System, H.15 Selected Interest Rates

## Home prices falling nationally, Denver homes down 4.5% from peak

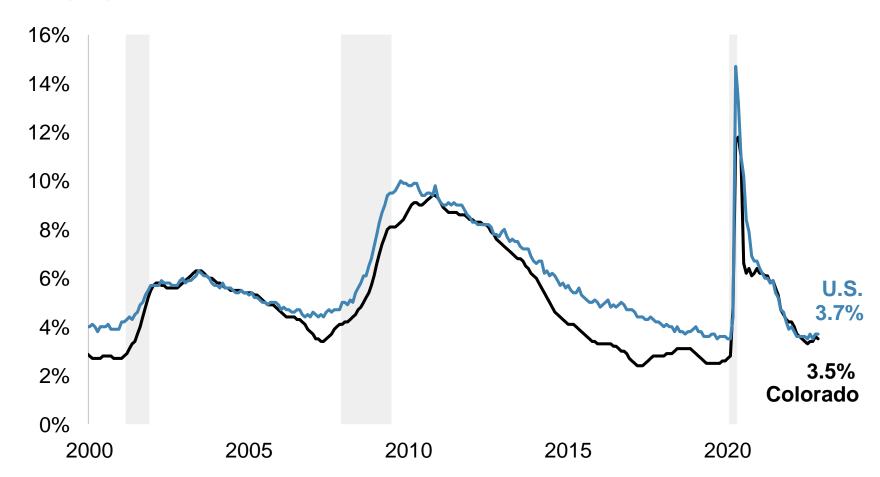
Case-Shiller Home Price Indices

Index 100 = July 2012

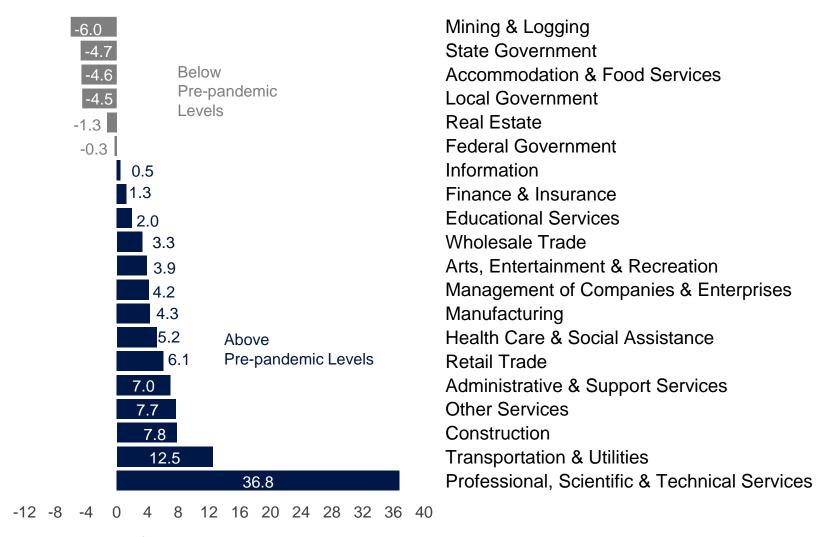


## Colorado's unemployment rate ticked down to 3.5 percent in November

#### Unemployment rates

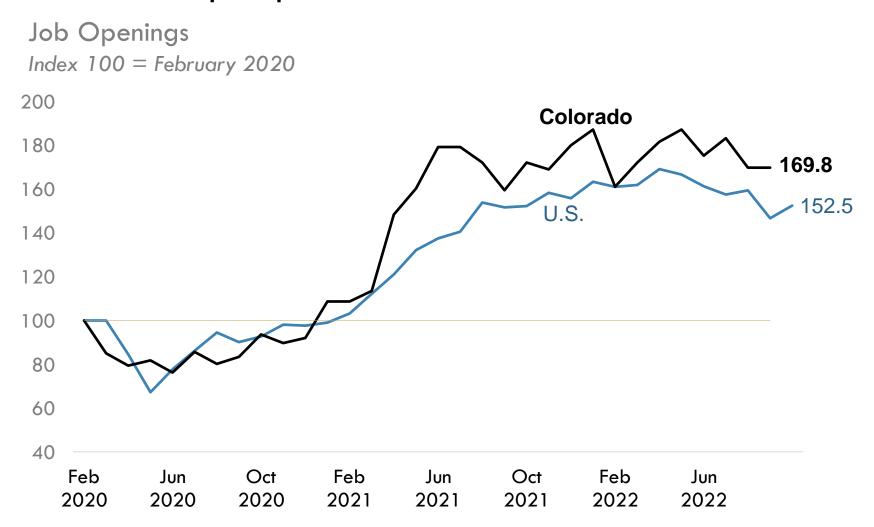


#### Majority of sectors have recovered jobs lost in the recession



Thousands of Jobs

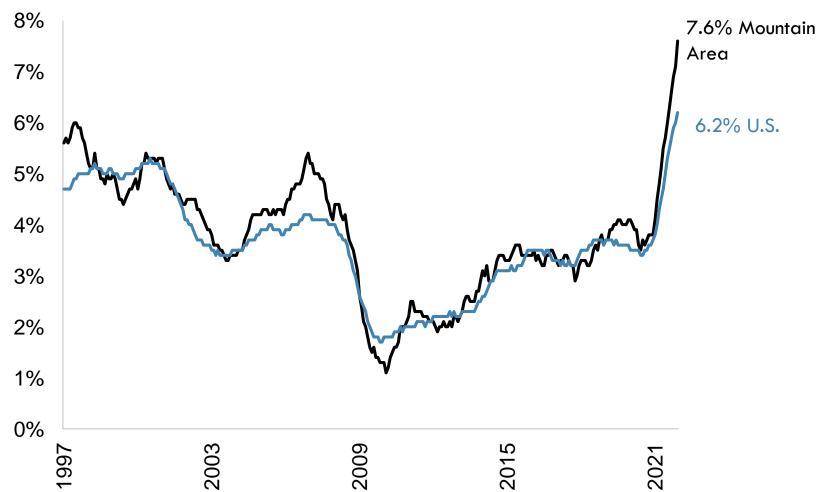
## Competition for workers remains high with job openings well above pre-pandemic levels



Source: U.S. Bureau of Labor Statistics, Job Openings and Labor Turnover Survey (JOLTS). Seasonally adjusted. Data through September 2022.

### Colorado's wage gains outperforming the nation

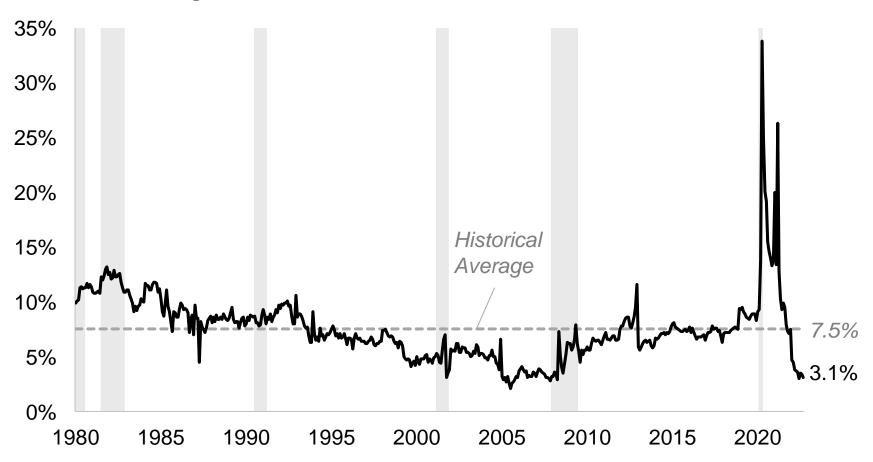




Source: Federal Reserve Bank of Atlanta. Data are 12-month moving averages of median wage growth, hourly data.

## Excess savings from pandemic-related programs spent down quickly

Personal Savings Rate



Source: U.S. Bureau of Economic Analysis.

<sup>\*</sup>The personal savings rate is calculated as the ratio of personal saving as a percentage of disposable personal income. Data are shown as seasonally adjusted annual rates.

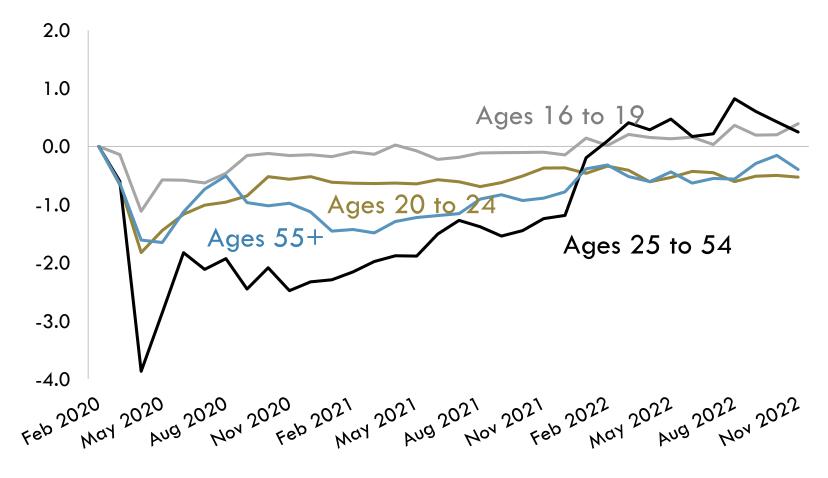
### Risks to the forecast remain weighted to the downside

- Risks to the forecast remain elevated amid rapid monetary tightening, a housing market correction, and declining household balance sheets
- Downside: inflation and more aggressive monetary policy response, steeper housing market correction, geopolitical uncertainty and trade disruptions
- Upside: sustained drop in energy prices and faster resolution to inflationary pressures, resolution to war in Ukraine, and stabilized supply chains
- Risk of near-term recession remains elevated but the forecast anticipates a continued, yet slowing expansion

# Supplemental Economic Outlook Slides

## Workers ages 25 to 54 lead labor force recovery, followed by teens

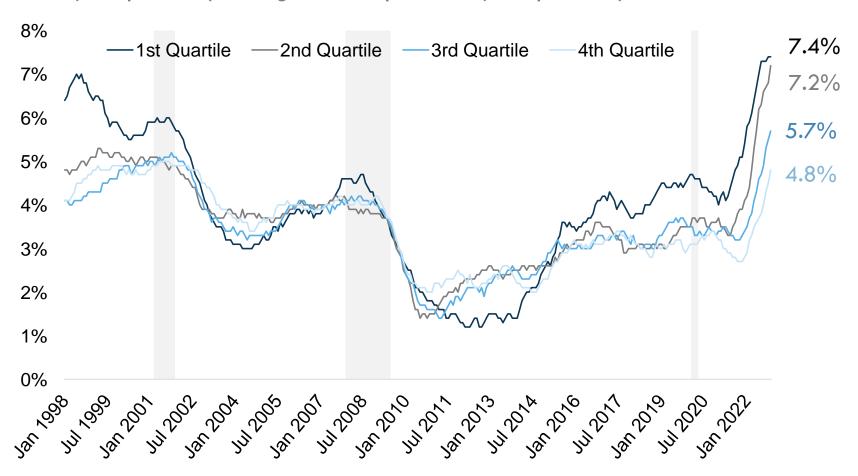
U.S. Labor Force by Age Index 0.0 = January 2020



Source: U.S. Bureau of Labor Statistics with Legislative Council Staff calculations. Data are seasonally adjusted and through November 2022.

#### U.S. wage growth varies by wage quartile

12 month moving averages of monthly median wage growth, lowest 25 percent (1<sup>st</sup> quartile) to highest 25 percent (4<sup>th</sup> quartile)



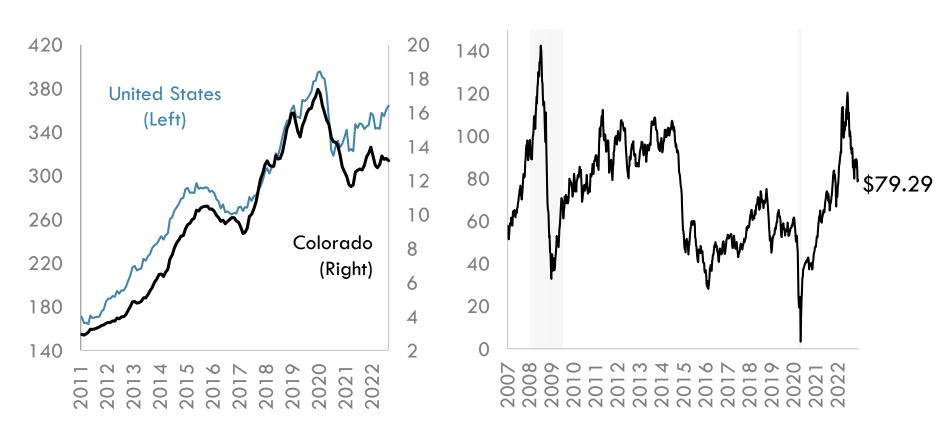
Source: Federal Reserve Bank of Atlanta Wage Growth Tracker. Data through November 2022.

#### **Energy market dynamics**

Crude Oil Production

Millions of Barrels per Month





Source: U.S. Energy Information Administration. Data are shown as three-month moving averages and are not seasonally adjusted. Data are through August 2022.

Source: U.S. Energy Information Administration. Weekly average prices. Data are not seasonally adjusted. Data through June 17, 2022.

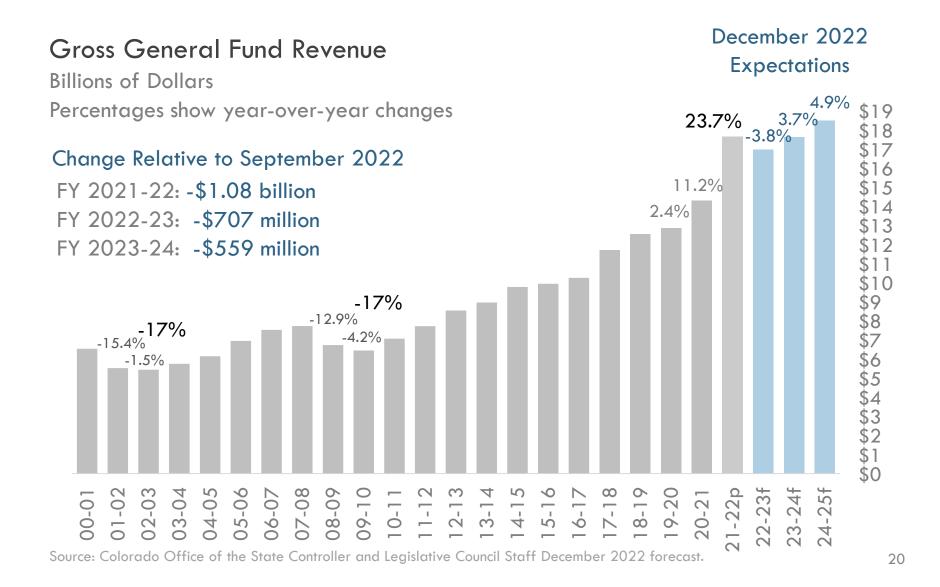
### General Fund Budget Outlook



### Adjustments for ballot measures

- Proposition 121 Income Tax Rate Cut
  - \$670M for FY 2022-23 (1.5 year impact)
  - -\$440M for FY 2023-24, FY 2024-25
  - No impact on discretionary budget (reduces TABOR obligation)
- Proposition 123 Affordable Housing
  - Diverts revenue from GF and exempts from TABOR
  - \$150M in FY 2022-23 (0.5 year impact), \$300M thereafter
  - No impact on discretionary budget (reduces TABOR obligation)
- Proposition FF Healthy School Meals
  - Raises income tax revenue, exempts from TABOR, earmarks
  - \$50M in FY 2022-23 (0.5 year impact), \$100M thereafter
  - No impact on discretionary budget (rebates and expenditures)
- Small adjustments for Amendment E, Proposition 125

### Revenue decrease expected in FY 2022-23 after accounting for ballot measures



#### TABOR Outlook

Revenue Subject to TABOR
Billions of Dollars

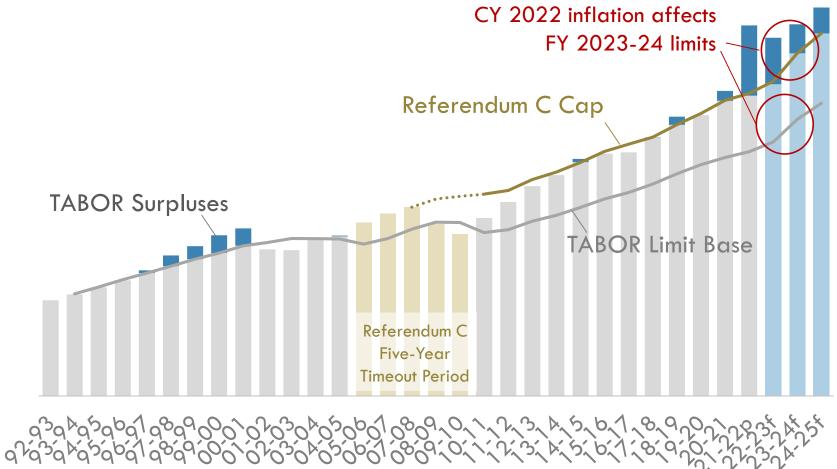
#### Revenue Above the Ref C Cap

FY 2021-22 (still preliminary): \$3.73 billion

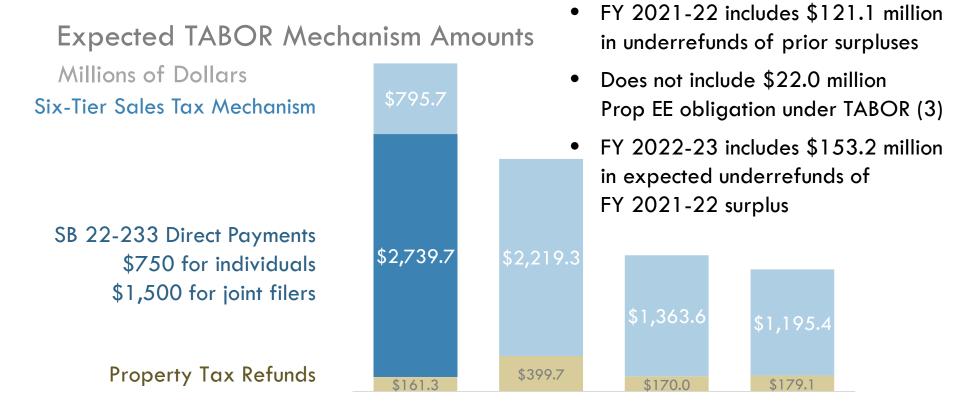
FY 2022-23: \$2.47 billion

FY 2023-24: \$1.53 billion

FY 2024-25: \$1.37 billion



#### Outlook for TABOR refunds has shifted with Prop 121

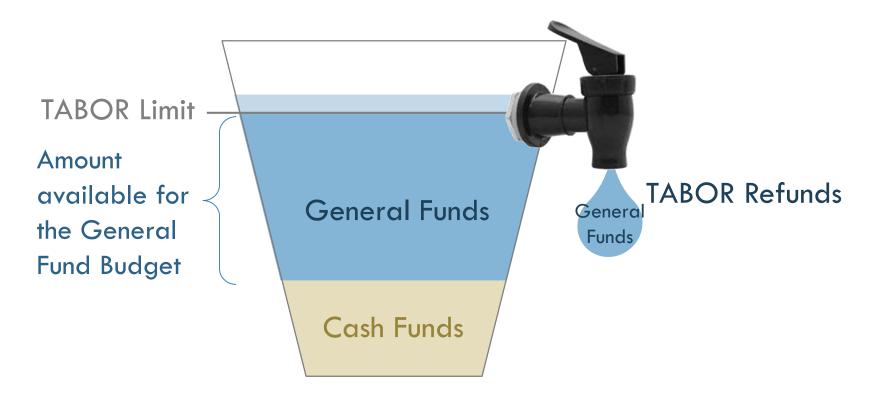


 TABOR Surplus & Set Aside:
 2021-22
 2022-23
 2023-24
 2024-25

 Refunded in Fiscal Year:
 2022-23
 2023-24
 2024-25
 2025-26

#### TABOR Refunds are refunded from General Funds

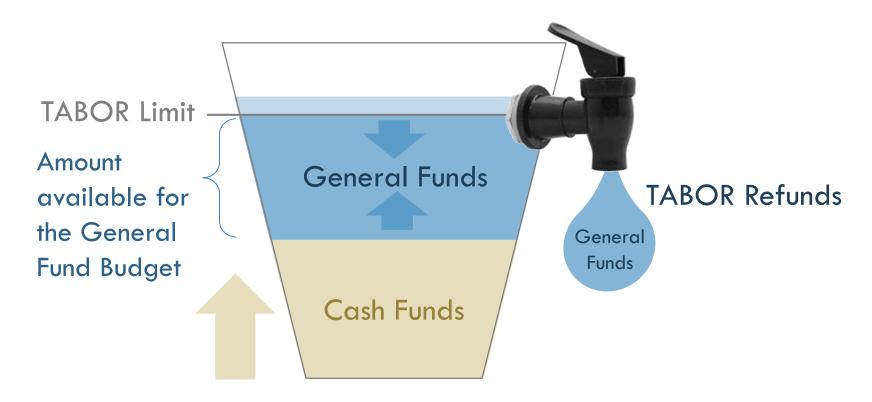
In a TABOR surplus situation...



General Fund dollars in = General Fund dollars out

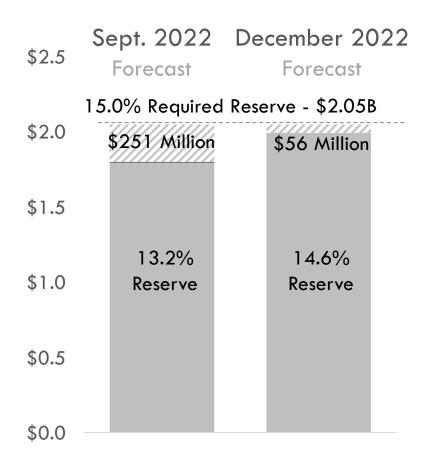
#### TABOR Refunds are refunded from General Funds

In a TABOR surplus situation...



Cash Fund dollars in = General Fund dollars out

#### Current Year | FY 2022-23 General Fund Reserve



Changes since the September 2022 forecast:

\$57.2 million higher beginning balance (+)

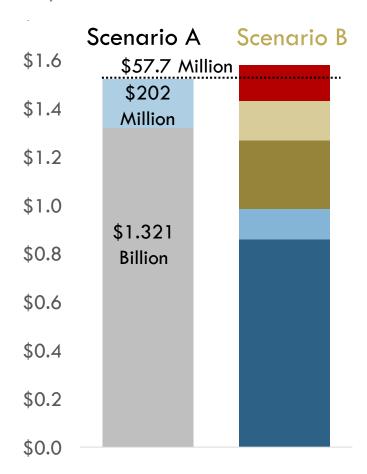
Net transfers from the GF decreased by \$101.8 million (+)

Revenue and TABOR refund expectations both decreased; on net, \$84.4 million less in TABOR refund obligation (+)

\$48.5 million more in statutory rebates and expenditures (-)

### Budget Year FY 2023-24 Budget Outlook

Scenario A: Additional revenue available to spend or save above FY 2022-23 spending levels. Amounts hold FY 2022-23 appropriations constant and incorporate the revenue forecast, current law transfers, rebates and expenditures, and the 15% reserve requirement.



#### Scenario B Assumptions

- Increased reserve requirement: \$148 million
- Transfers to other cash funds: \$164 million
- Capital construction transfers: \$283 million
- Placeholders total \$128 million
- Proposed budget increases appropriations by \$858 million
- FY 2022-23 Mid-Year Adjustments increase beginning balance by \$202 million

#### Risks to the Forecast

#### Elevated recession risk

- Global economy deteriorating
- Aggressive Fed tightening risks triggering recession
- Other economic risks from supply chains, housing market, Ukraine,
   COVID-19

#### Risks to the budget outlook

- Revenue will be constrained by the Referendum C cap through the forecast period
- Immediate risks to the budget are on the expenditures side
- Less TABOR refund cushion to absorb forecast error; a recession would likely constrain revenue available for the budget
- Higher (or lower) cash funds revenue subject to TABOR means more (or less) budget pressure

### K-12 Enrollment Forecast



#### K-12 Public School Enrollment

Full-Time Equivalent (FTE) Students

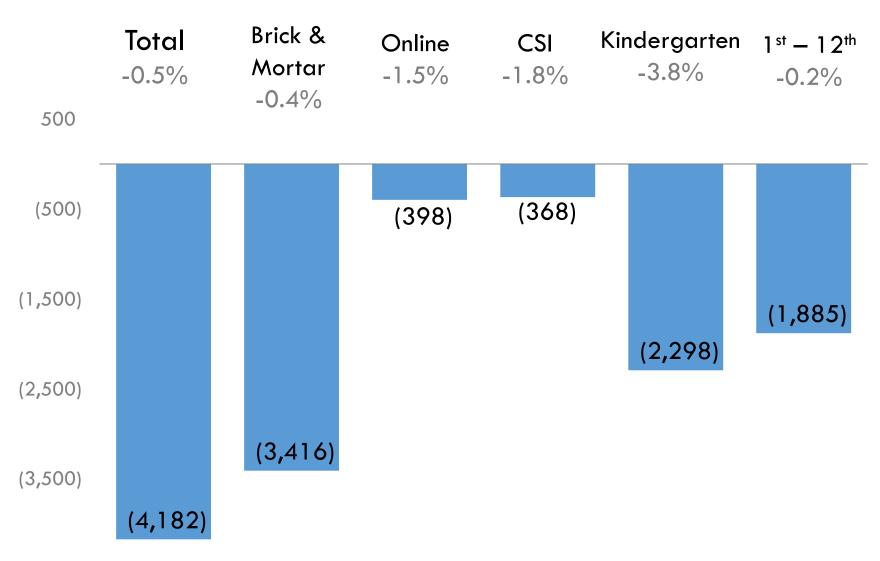
| Region             | Actual <b>2022-23</b> | Percent<br>Change |  |
|--------------------|-----------------------|-------------------|--|
| Colorado Springs   | 122,718               | 0.1%              |  |
| Eastern Plains     | 25,076                | 0.0%              |  |
| Metro Denver       | 472,401               | -0.9%             |  |
| Mountain           | 24,516                | -0.3%             |  |
| Northern           | 92,359                | 0.6%              |  |
| Pueblo             | 32,096                | 0.3%              |  |
| San Luis Valley    | 6,957                 | -1.2%             |  |
| Southwest Mountain | 13,345                | -2.1%             |  |
| Western            | 49,616                | -1.0%             |  |
| Statewide Total    | 839,082               | -0.5%             |  |

Decline in 2022-23 Enrollment: -4,182 FTE

-4,627 FTE (-0.5%) less than forecast last year

#### Actual Change in 2022-23 Enrollment

Year-over-Year



(4,500)

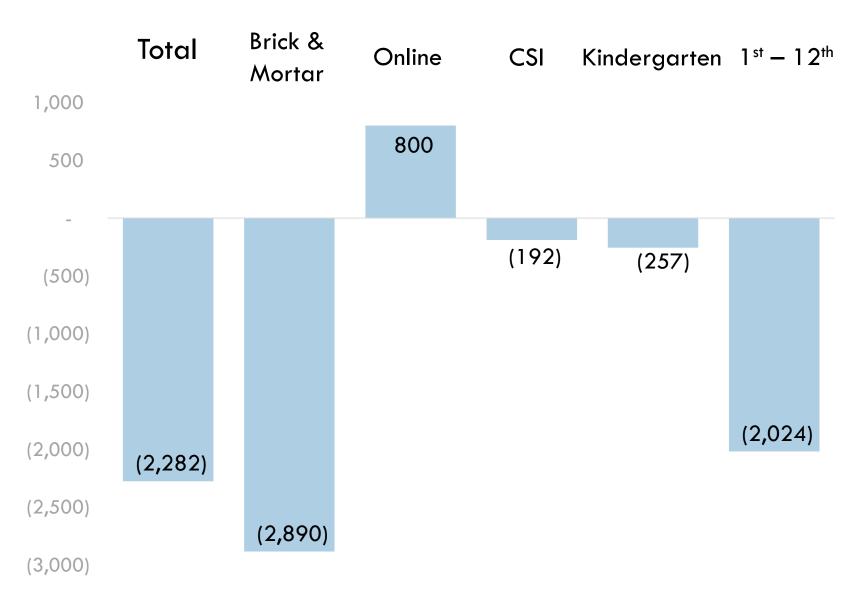
#### K-12 Public School Enrollment

Full-Time Equivalent (FTE) Students

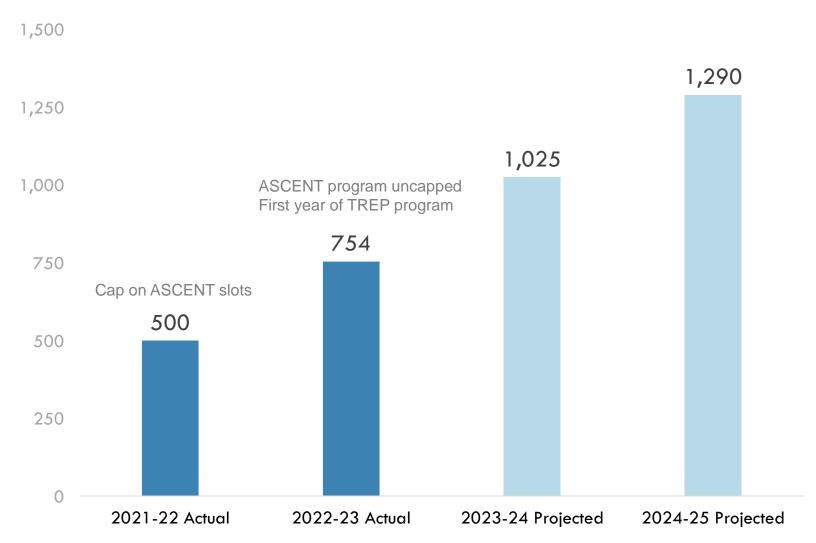
| Region             | Actual 2022-23 | Percent<br>Change | Estimated 2023-24 | Percent<br>Change | Estimated 2024-25 | Percent<br>Change | Average<br>Growth* |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Colorado Springs   | 122,718        | 0.1%              | 123,301           | 0.5%              | 123,833           | 0.4%              | 0.5%               |
| Eastern Plains     | 25,076         | 0.0%              | 25,257            | 0.7%              | 25,293            | 0.1%              | 0.4%               |
| Metro Denver       | 472,401        | -0.9%             | 468,459           | -0.8%             | 465,830           | -0.6%             | -0.7%              |
| Mountain           | 24,516         | -0.3%             | 24,499            | -0.1%             | 24,364            | -0.6%             | -0.3%              |
| Northern           | 92,359         | 0.6%              | 93,500            | 1.2%              | 94,405            | 1.0%              | 1.1%               |
| Pueblo             | 32,096         | 0.3%              | 31,880            | -0.7%             | 31,612            | -0.8%             | -0.8%              |
| San Luis Valley    | 6,957          | -1.2%             | 6,967             | 0.1%              | 6,948             | -0.3%             | -0.1%              |
| Southwest Mountain | 13,345         | -2.1%             | 13,333            | -0.1%             | 13,313            | -0.2%             | -0.1%              |
| Western            | 49,616         | -1.0%             | 49,605            | 0.0%              | 49,574            | -0.1%             | 0.0%               |
| Statewide Total    | 839,082        | -0.5%             | 836,800           | -0.3%             | 835,172           | -0.2%             | -0.2%              |

#### Projected Change in 2023-24 Enrollment

#### Year-over-Year



### **Extended High School Enrollment**



#### Risks to the K-12 Enrollment Forecast

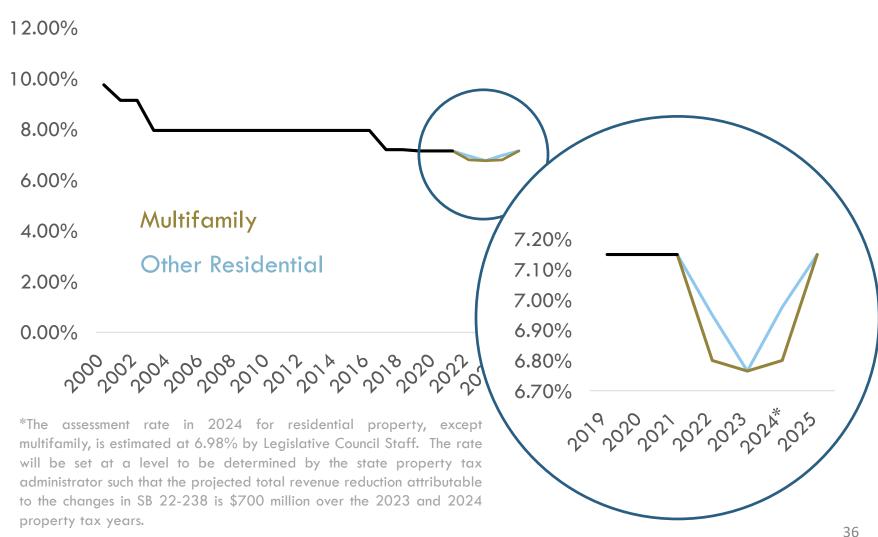
- Upside risk to the forecast
  - Students return more quickly than expected
- Downside risks to the forecast
  - Housing affordability issues
  - Lower birth rates
  - Slowing net in-migration

### **Assessed Values**



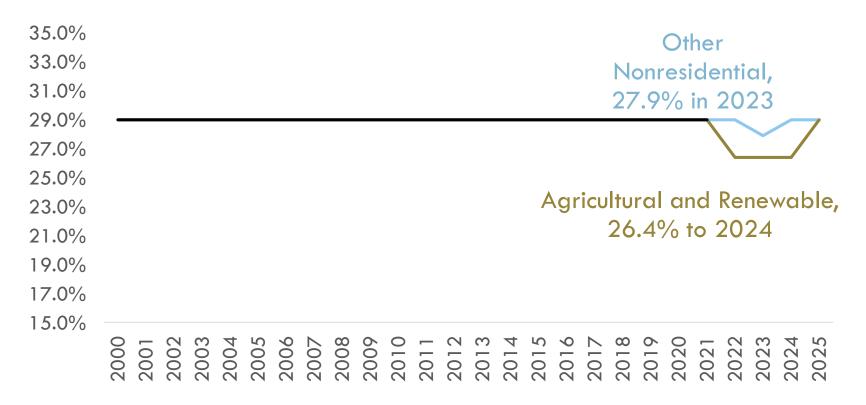
# Residential assessment rates established at 7.15% with temporary legislative reductions





# Nonresidential assessment rates for most property established at 29% with temporary legislative reductions

Nonresidential vacant, commercial, industrial, natural resources, stateassessed, agricultural, and renewable energy assessment rates



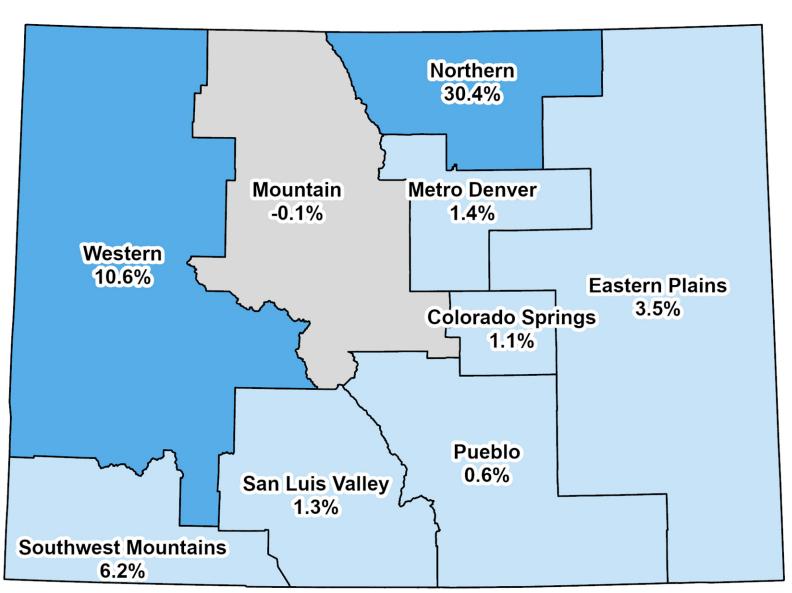
Source: Legislative Council Staff. Does not include oil and gas land and leaseholds, producing mines, and severed mineral interests that are assessed at varying rates.

### 2022: Intervening Year

#### Determines school finance for FY 2022-23

- Intervening year AV changes limited
  - O&G, mines, state assessed, new construction
- Total AVs will increase 5.5% from 2021
- Incorporates the impact of SB 21-293
  - RAR fell to 6.95%, or 6.80% for multifamily
  - NRAR fell to 26.40% for agriculture and renewable energy

## 2022 Intervening Year: 5.5% growth

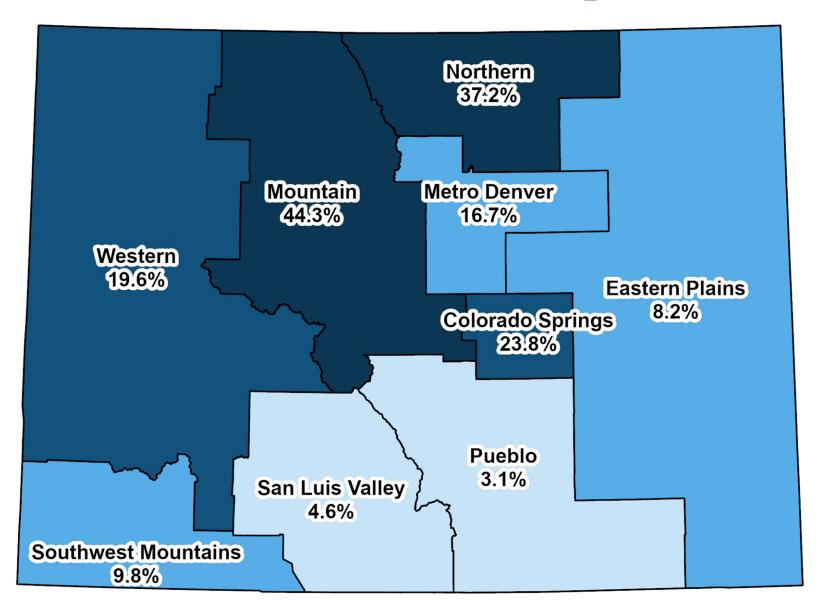


#### 2023: Reassessment Year

Determines school finance for FY 2023-24

- Total AVs will increase 22.5% from 2022
  - compare to 4.4% in 2021, 17.0% in 2019, 10.1% in 2017
- Residential AVs will increase 26.5%
  - Represents appreciation between June 2020 and June 2022
  - Statewide appreciation in home prices
- Nonresidential AVs will increase 19%
  - Rebound in commercial values
  - High oil and gas prices
- Incorporates the impact of SB 22-238's temporary assessment rate reductions and subtractions from residential and commercial actual values

## 2023 Reassessment Year: 22.5% growth



#### Risks to the Assessed Valuation Forecast

- Market conditions, including:
  - Value of oil and gas production through the forecast period
  - Housing market correction and impact on 2025 reassessment cycle
- Evolving property tax policy environment
  - Forecast relies on an estimate of the residential assessment rate in 2024 for properties other than multifamily, a rate to be set by the property tax administrator

## School Finance Outlook

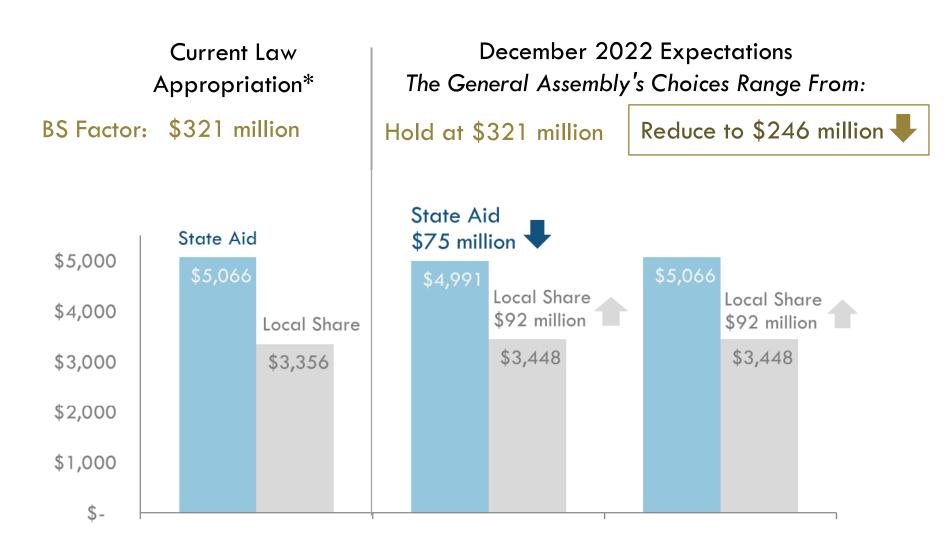


#### School Finance Basics

- Funded Pupil Count is the statutory student count metric used to allocate funding.
- State Aid = Total Program Local Share.
- General Assembly sets the Budget Stabilization Factor to establish Total Program and State Aid.
- General Assembly balances contributions to State Aid from General Fund and State Education Fund.

#### Change in Expectations for FY 2022-23 School Finance Funding

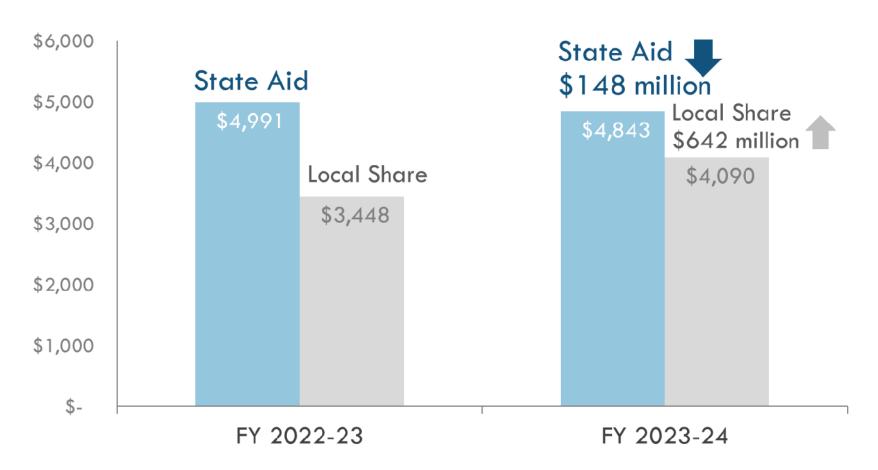
**Dollars in Millions** 



Source: Legislative Council Staff December 2022 forecast. \*Current Law appropriation uses December 2021 forecast.

## Year-over-Year Change in School Finance Funding FY 2022-23 to FY 2023-24

**Dollars in Millions** 



Source: Legislative Council Staff December 2022 forecast.

<sup>\*</sup>Assumes a constant Budget Stabilization Factor.

# Scenario Implications for General Fund (GF) and State Education Fund (SEF) Contributions in 2023-24 & 2024-25

- Scenario in text assumes GA doesn't want to:
  - maintain BS Factor longer than necessary;
  - significantly increase balance in SEF;
  - produce a cliff effect by having negative y/o/y change in GF contribution.

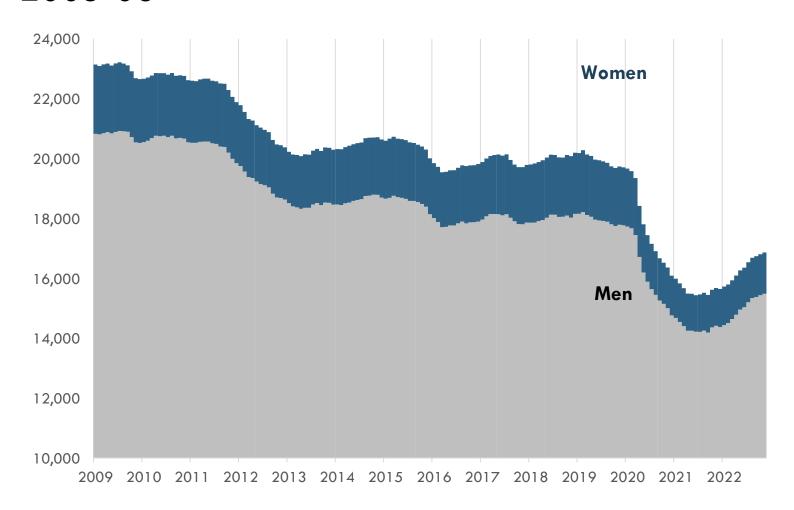
(Scenario largely depends on predicted increases local share in 2023 and 2025, and inflation moderating.)

- Eliminating BS Factor and maintaining \$1.3 B SEF ending balance in 2023-24 requires:
  - \$49 million increase in GF appropriation;
  - \$149 million decrease SEF contribution.
- Maintaining 0 BS Factor and a \$850 M SEF ending balance in 2024-25 requires:
  - \$22 million increase in GF appropriation;
  - \$485 million increase in SEF contribution.

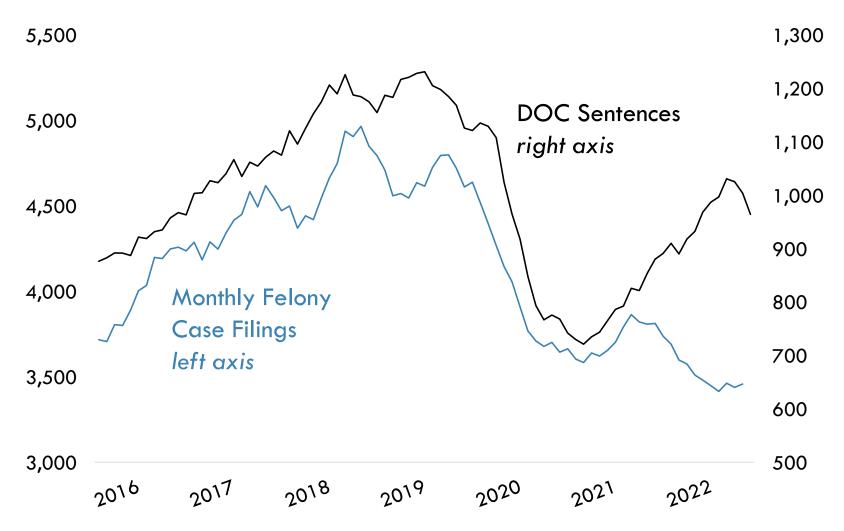
## **Adult Corrections Populations**



# The prison population increased by 6.0 percent in FY 2022-23, the largest percentage increase since FY 2005-06

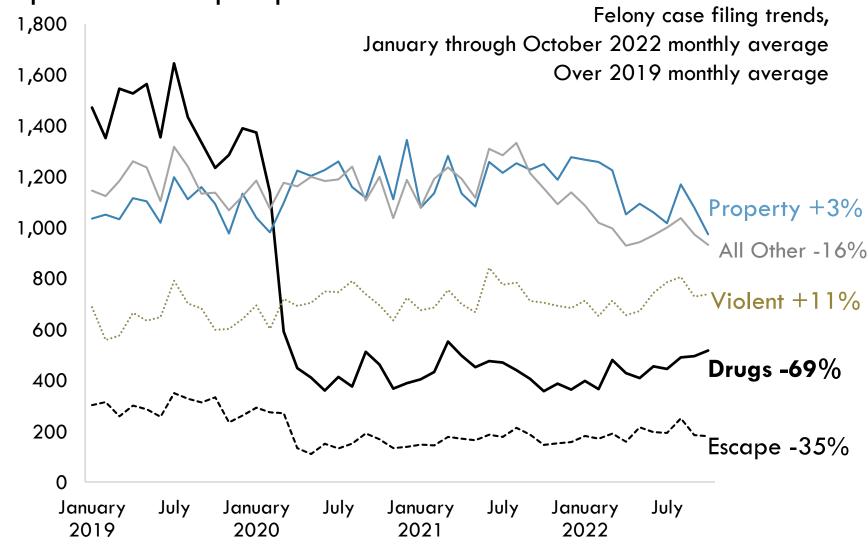


#### Shifting relationship between case filings and sentences

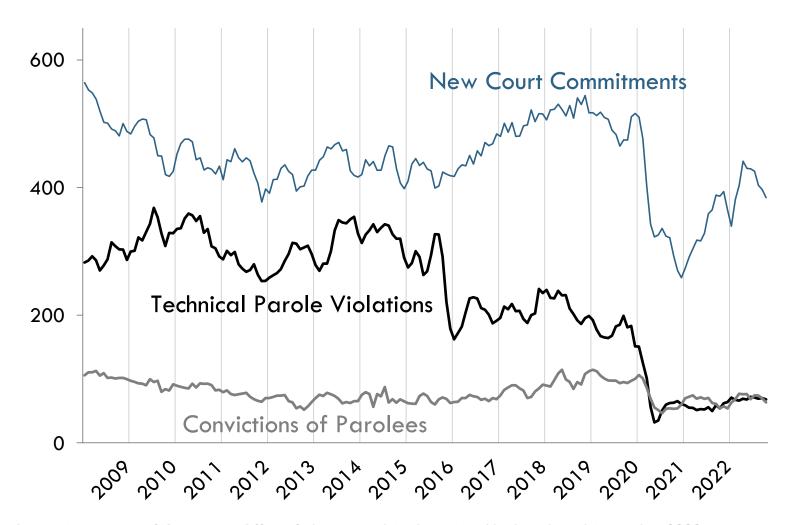


Source: Office of the State Court Administrator. Monthly data; both series shown as six-month moving averages through October 2022.

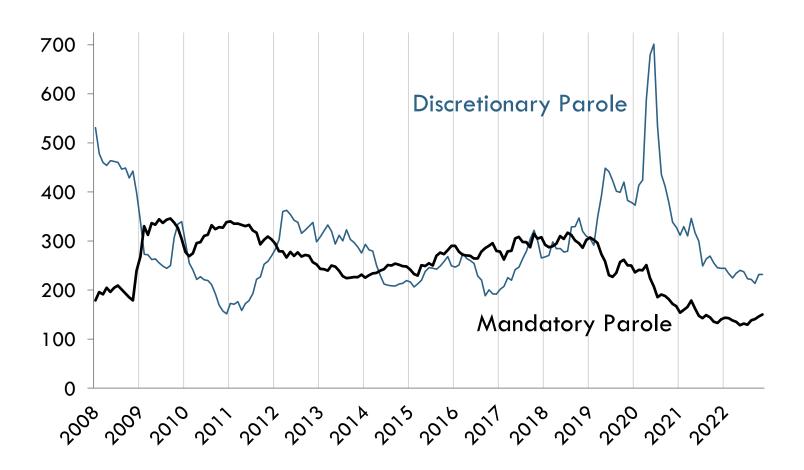
# State district court drug felony case filings are down 69 percent from pre-pandemic levels



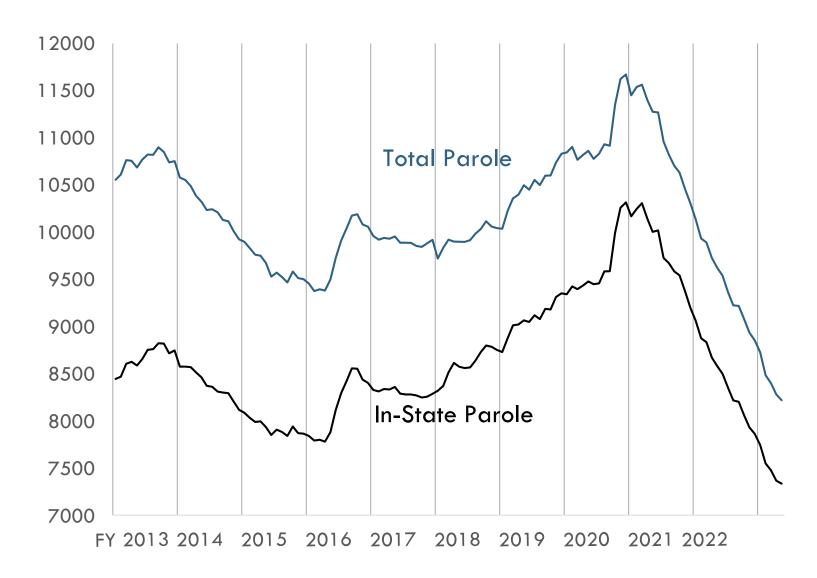
# New court commitments have risen; other admissions remain suppressed.



#### Releases to parole show signs of flattening

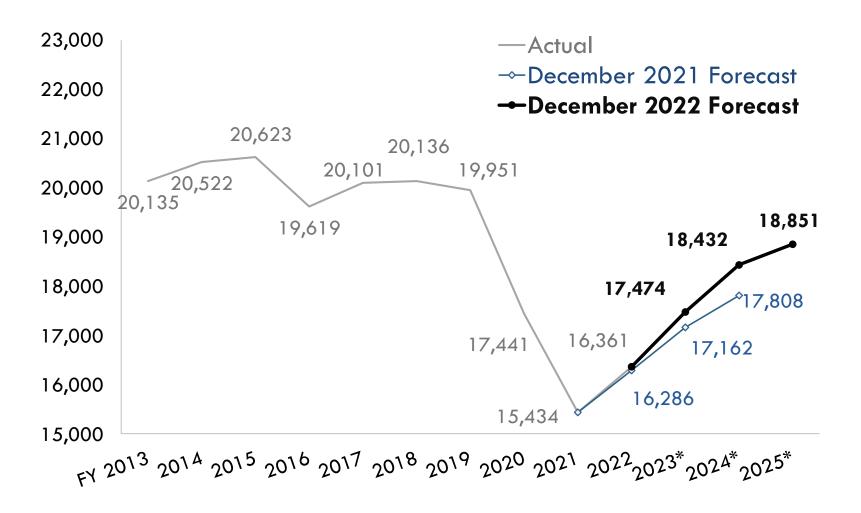


#### After spiking in 2020, parole population plummeted



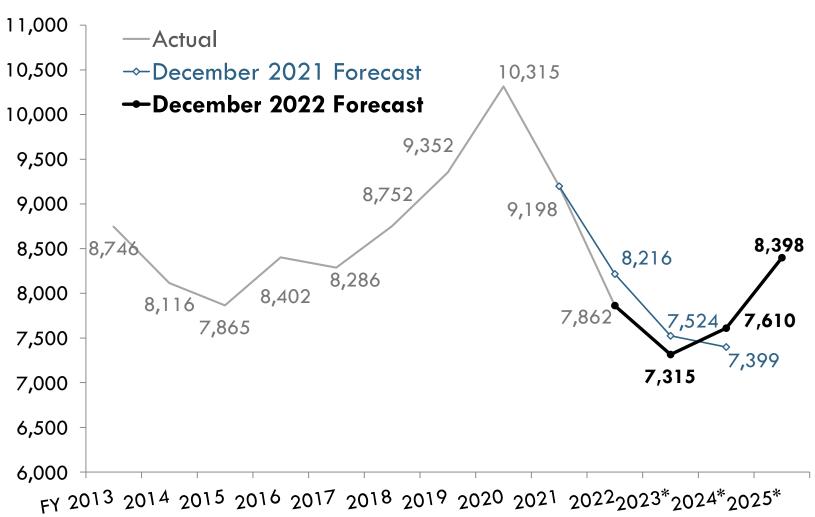
#### The prison population will increase in 2022

Adult Inmate Population Forecasts as of June 30



# Parole caseload has declined since June 2020, expected to rise again starting in FY 2023-24.

Adult Parole Caseload Forecasts as of June 30



### Forecast uncertainty remains elevated

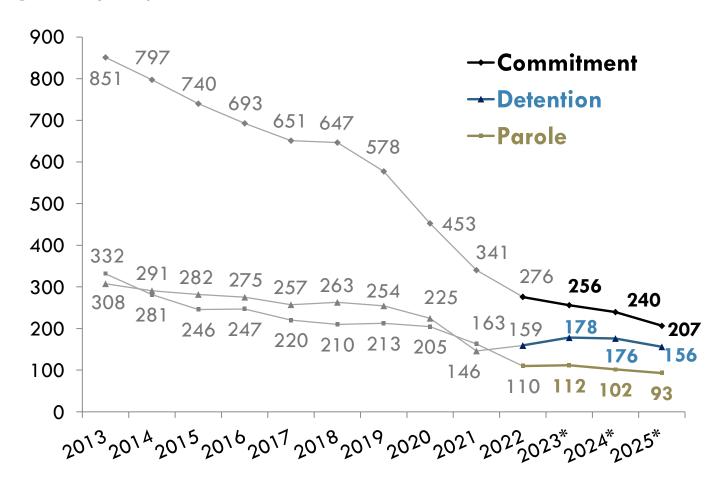
- This forecast always contains (bidirectional) error
  - Before 2020, current year forecast error averaged about
     1.7 percent, or 328 inmates
  - Current year forecast error from the 2021 forecast is 0.5 percent, or 75 inmates in June 2022
  - Relative to last year, risks are lower, but remain elevated
  - Longer term impacts of legislative changes are emerging more clearly
  - Uncertainty remains elevated as the system is in transition
  - Small deviations in the timing and extent of assumed adjustments can contribute to large population changes
  - A key risk is staffing shortages and turnover affecting operations throughout the criminal justice system

## Youth Corrections Population Forecast



# DYS Populations falling with some fluctuations in the forecast period

Average Daily Populations



#### Questions?

#### Budget, Economy, General

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#### K-12 Enrollment

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