

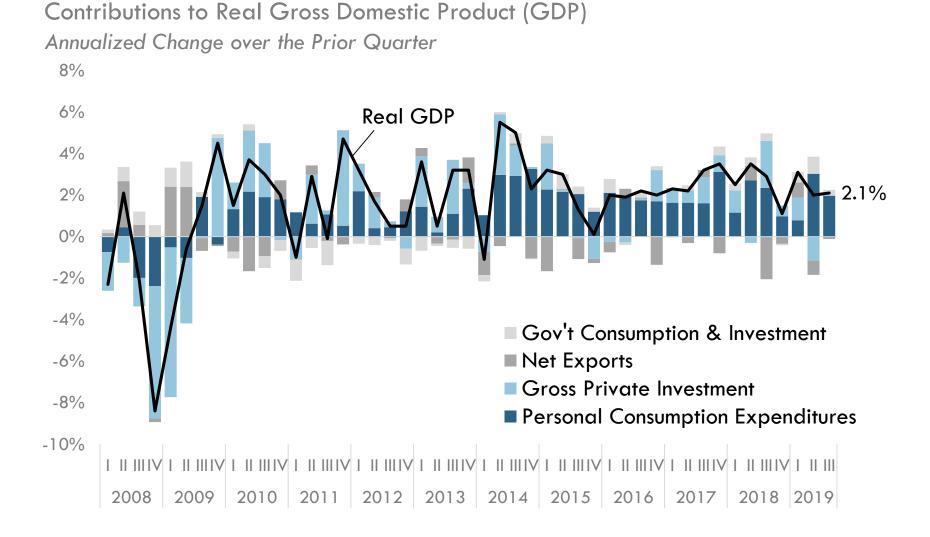
December 2019 | Legislative Council Staff Economic & Revenue Forecast

Presentation to the Joint Budget Committee December 20, 2019

Economic Outlook

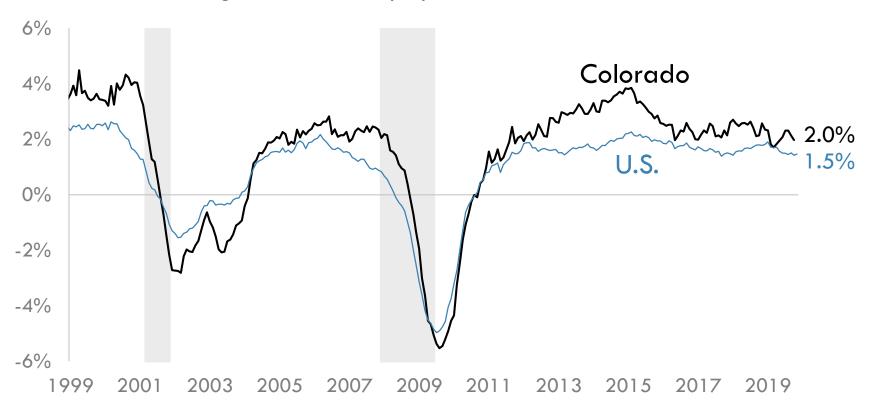


Consumers continue to drive growth in economic activity



Source: U.S. Bureau of Economic Analysis. Seasonally adjusted annual rates.

Employment growth continues, but will slow further as the labor market tightens

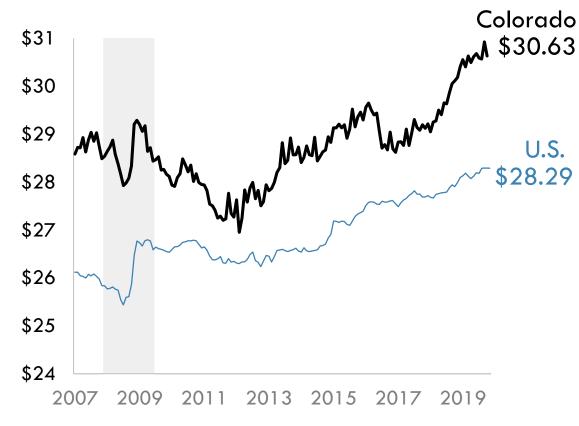


Year-over-Year Change in Nonfarm Employment

Source: U.S. Bureau of Labor Statistics. Seasonally adjusted. Colorado nonfarm employment estimates include estimates of revisions expected by Legislative Council Staff as a part of the annual rebenchmark process.

Wages will continue to rise as labor shortages in many industries persist, constraining business growth and profits

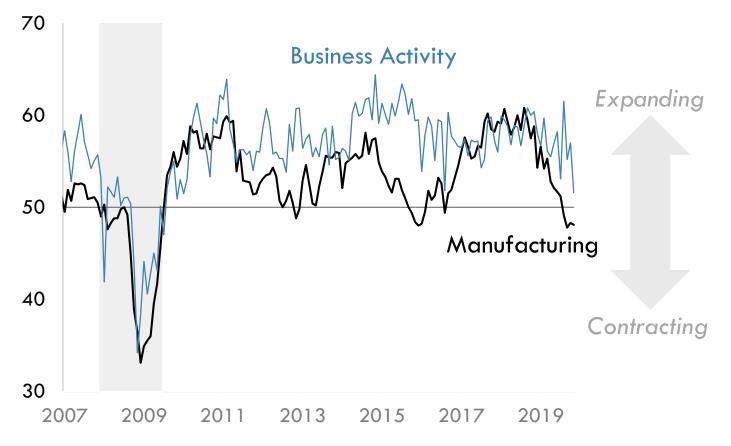
Real Average Hourly Earnings 2019 Dollars



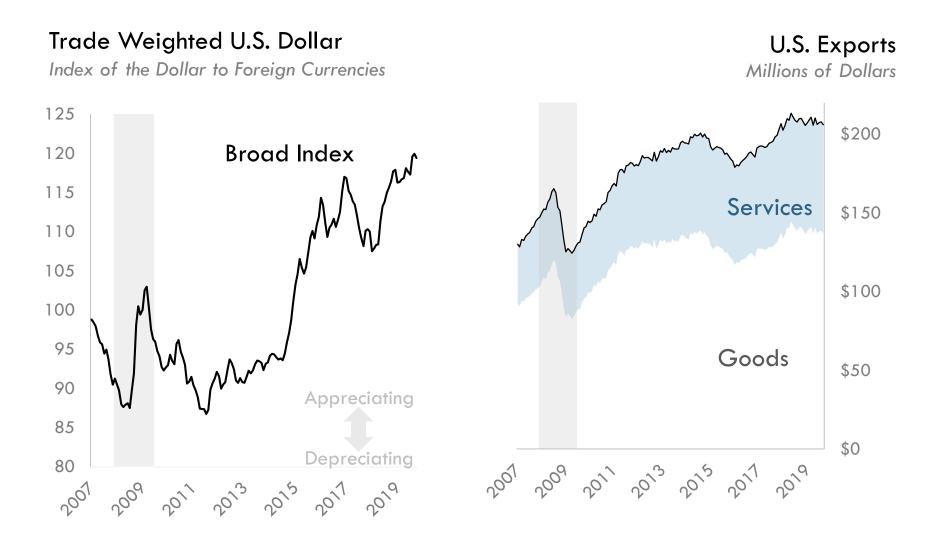
Manufacturing activity remains in contractionary territory and business activity has slowed

Institute for Supply Management Indices

Diffusion Index



A strong dollar makes imports cheaper, but exports more expensive

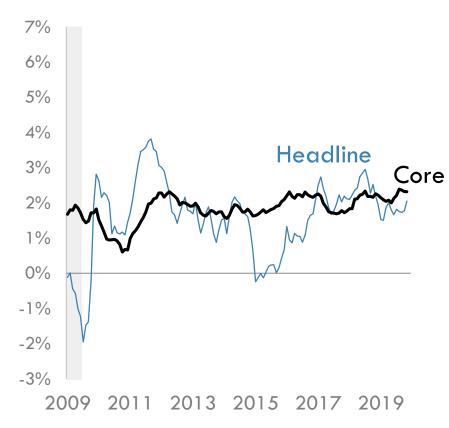


Source: Federal Reserve Board of Governors & Bureau of Economic Analysis (balance of payments basis). Seasonally adjusted. 7

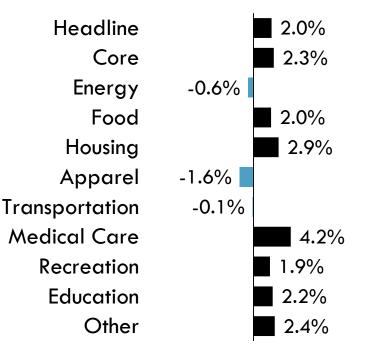
Inflationary pressures remain fairly subdued

CPI-U Inflation, U.S. City Average

Year-over-Year Change in Prices



November 2019 over November 2018



Crude oil prices remain subdued by strong supply, weaker demand

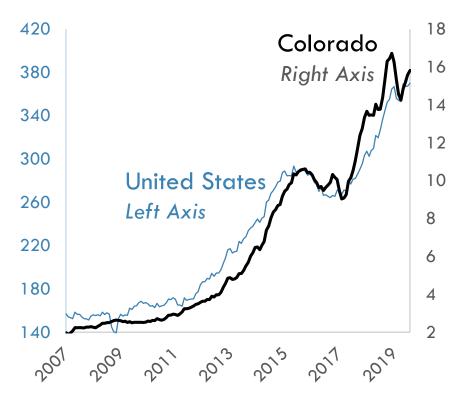
West Texas Intermediate Crude Oil Price Dollars per Barrel \$160 \$120



Source: Energy Information Administration. Average weekly prices through December 13, 2019.

Crude Oil Production

Millions of Barrels per Month



Source: Energy Information Administration. Three-month moving averages. Data are through August 2019.

Economic Outlook

U.S. and Colorado economic growth will continue, but at slower rates

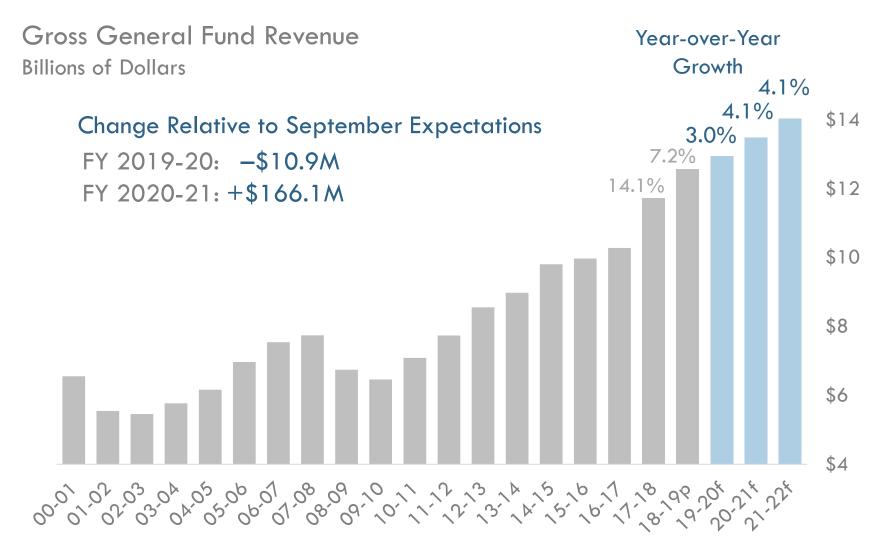
- Labor markets will tighten further, constricting business growth and profits with higher wages
- Inflationary pressures will remain subdued on slower global economic demand for goods and slowing housing costs
- Energy, manufacturing, and export industry activity expected to remain soft into 2020

Recessionary risk for 2020 has eased, but risk remains elevated for the forecast period.

General Fund Budget Outlook

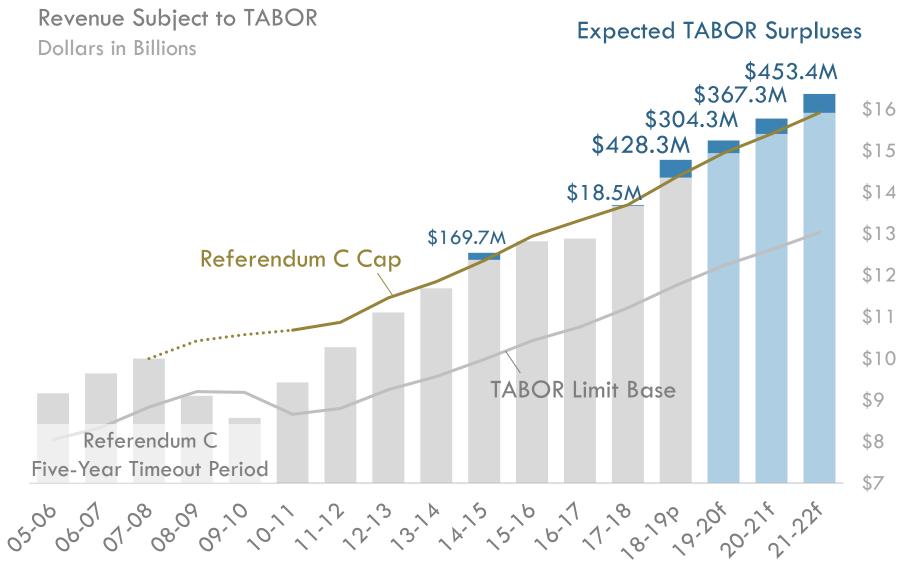


Ongoing shifts in taxpayer behavior and slowing economic growth are expected to drive General Fund revenue growth



Source: Colorado Office of the State Controller and Legislative Council Staff December 2019 forecast.

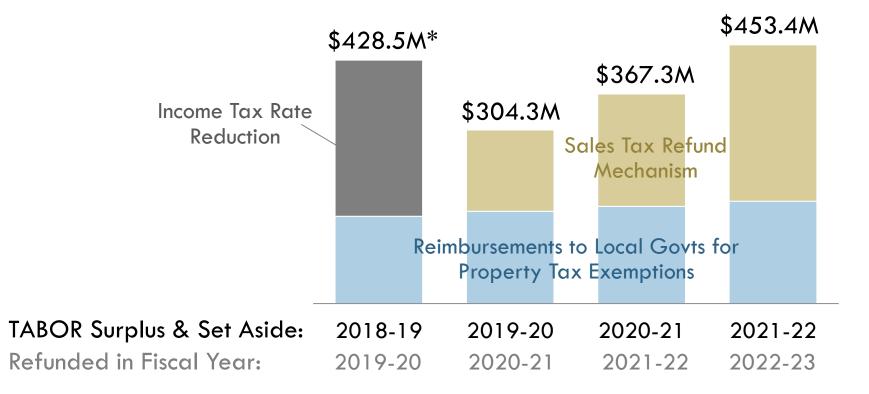
TABOR Outlook



Source: Colorado Office of the State Controller and Legislative Council Staff December 2019 forecast.

TABOR surplus revenue is set aside in the year in which a surplus occurs to pay refunds in the following budget year

Expected TABOR Refunds & General Fund Budget Impacts Dollars in Millions



Source: Colorado Office of the State Controller and Legislative Council Staff December 2019 forecast. *This amount includes \$0.1 million in underrefunds from the FY 2014-15 surplus.

Last Year | FY 2018-19 General Fund Reserve

Dollars in Millions

Sep	otember 2	2019 Dec	cember 2019
	Forecast		Forecast
		1	1.3% Reserve
\$1,200	10.2% Reser	rve	
\$1,000	\$331.8M	Surplus Above Required Reserve	\$452.4M
\$800		7.25%	
\$600	\$814.2M	Reserve Requirement	\$814.2M
\$400			
\$200			
\$0 -			

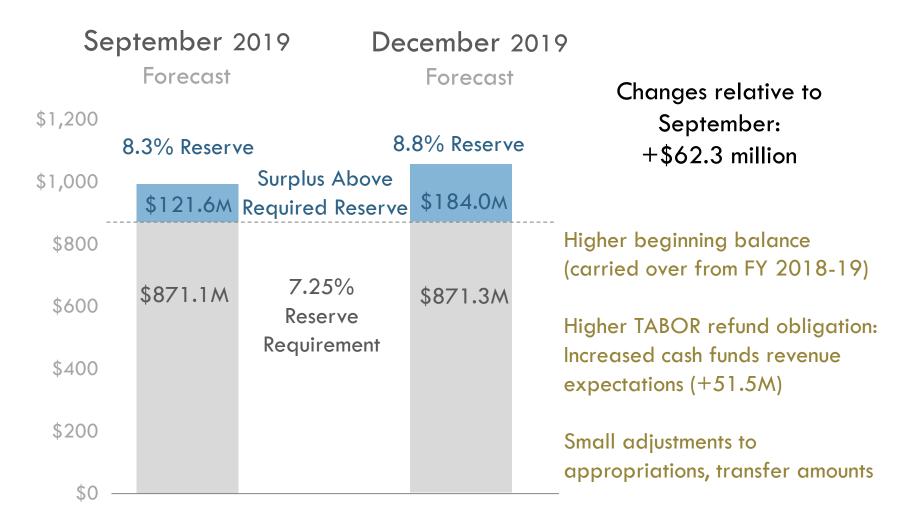
Changes relative to September: +\$120.5 million

The change is attributable to a new assumption for the FY 2018-19 year-end balance based on the Basic Financial Statements. This amount will be updated with the release of the CAFR.

Source: Legislative Council Staff forecasts based on current law.

Current Year | FY 2019-20 General Fund Reserve

Dollars in Millions

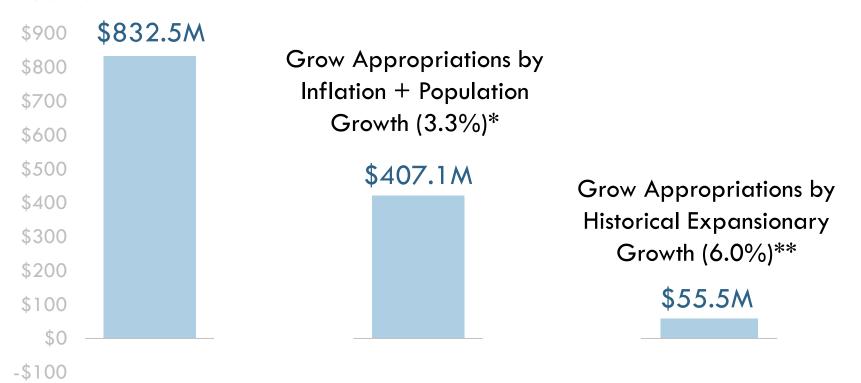


Source: Legislative Council Staff forecasts based on current law.

Next Year | FY 2020-21 Budget Outlook Scenarios

Amounts **above** or **below** the required 7.25% reserve. Incorporates the revenue forecast, current law transfers, rebates and expenditures, TABOR refund obligations, and the reserve requirement.

Hold FY 2019-20 Appropriations Constant



Source: Legislative Council Staff December 2019 forecast.

*2020 population and inflation projections. **Appropriations growth over the past two economic expansions.

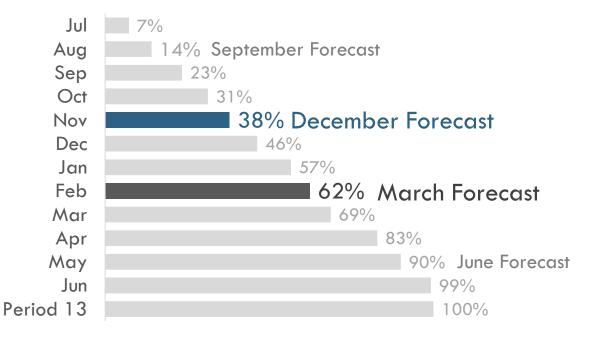
Risks to the Forecast

Upside Risks for FY 2019-20

- Ongoing shifts in taxpayer behavior with federal tax law changes
- Taxation of out-of-state (including online) sales tax collections

How Much Do We Know About FY 2019-20?

Available General Fund Collections Data as a Share of Total Fiscal Year Collections*



*Six-year average of actual collections data, FY 2013-14 to FY 2018-19p.

Risks to the Forecast

Elevated downside risk for FY 2020-21 and FY 2021-22

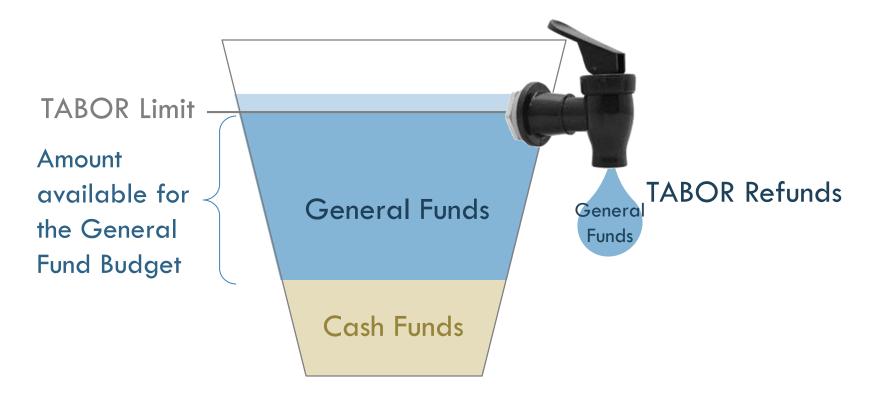
- Slower growth as the economic expansion matures
- Leading indicators improved some, but still flashing warning signs

In the current TABOR refund situation...

- The TABOR limit will constrain revenue growth
- Upside surprises mean larger TABOR refunds
- Higher than expected cash fund revenue will increase General Fund budgetary pressures

TABOR Refunds are refunded from General Funds

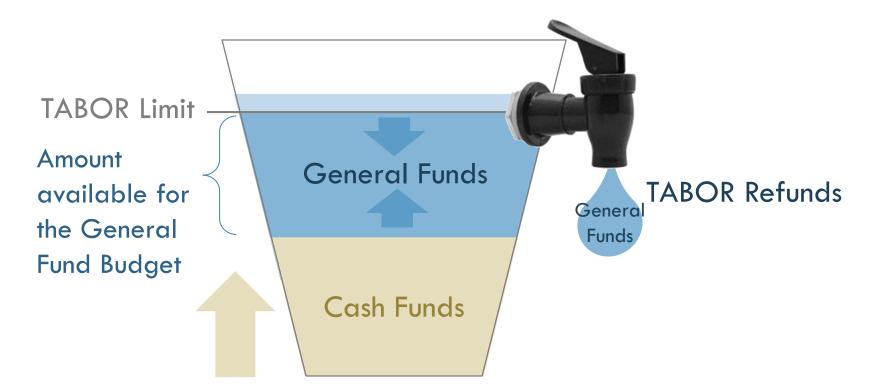
In a TABOR surplus situation...



General Fund dollars in = General Fund dollars out

TABOR Refunds are refunded from General Funds

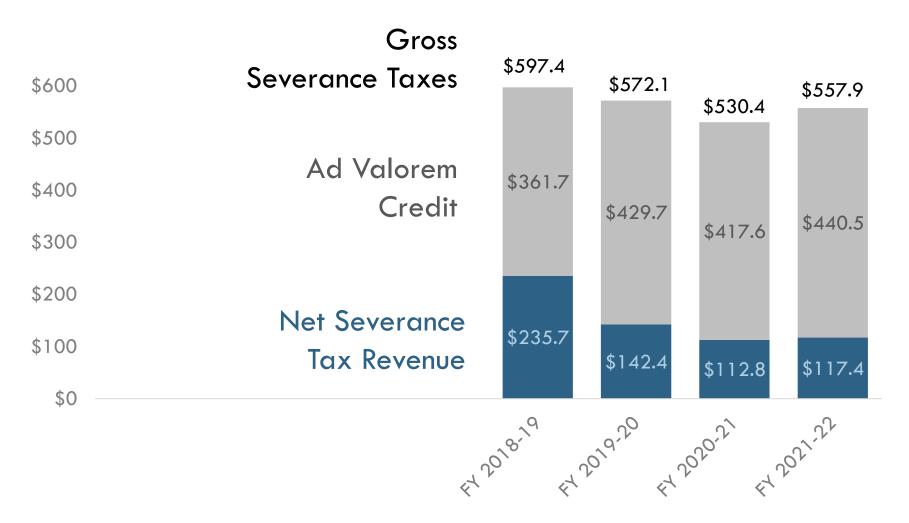
In a TABOR surplus situation...



Cash Fund dollars in = General Fund dollars out

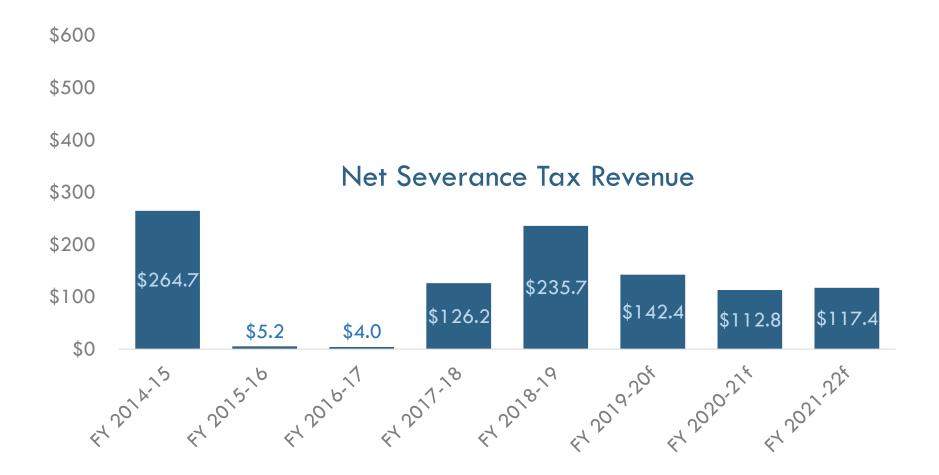
Severance Taxes Are Noisy

Dollars in Millions



Severance Taxes Are Noisy

Dollars in Millions



K-12 Enrollment Forecast



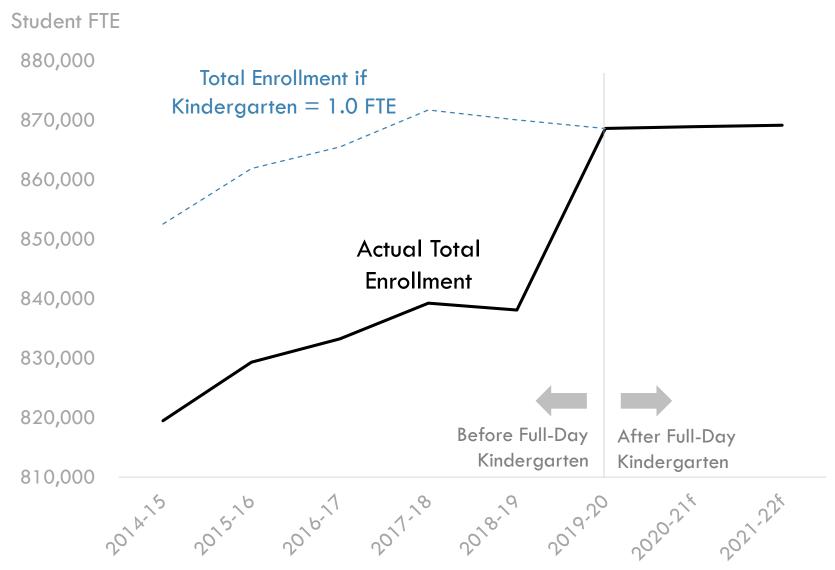
K-12 Public School Enrollment

Full-Time Equivalent (FTE) Students

	Actual	Percent
Region	2019-20	Change*
Metro Denver	494,190	3.2%
Northern	91,722	4.8%
Colorado Springs	124,019	4.7%
Pueblo	33,370	4.0%
Eastern Plains	26,898	4.4%
San Luis Valley	7,414	2.8%
Mountain	25,489	2.6%
Southwest Mountain	13,589	4.1%
Western	51,909	3.3%
Statewide Total	868,597	3.6%

Source: Colorado Department of Education and Legislative Council Staff December 2019 forecast. *Percent change from 2018-19, when kindergarten students were counted as 0.5 FTE.

Total K-12 Enrollment



Source: Colorado Department of Education and Legislative Council Staff December 2019 forecast (f). *Prior to 2019-20, kindergarten students were counted as 0.5 FTE.

K-12 Public School Enrollment

Full-Time Equivalent (FTE) Students

Region	Actual 2019-20	Percent Change*	Estimated 2020-21	Percent Change	Estimated 2021-22	Percent Change	Average Growth**
Metro Denver	494,190	3.2%	491,985	-0.4%	490,832	-0.2%	-0.3%
Northern	91,722	4.8%	93,069	1.5%	93,690	0.7%	1.1%
Colorado Springs	124,019	4.7%	125,051	0.8%	125,791	0.6%	0.7%
Pueblo	33,370	4.0%	33,139	-0.7%	32,809	-1.0%	-0.8%
Eastern Plains	26,898	4.4%	27,188	1.1%	27,456	1.0%	1.0%
San Luis Valley	7,414	2.8%	7,489	1.0%	7,545	0.7%	0.9%
Mountain	25,489	2.6%	25,368	-0.5%	25,272	-0.4%	-0.4%
Southwest Mountain	13,589	4.1%	13,615	0.2%	13,680	0.5%	0.3%
Western	51,909	3.3%	52,002	0.2%	52,064	0.1%	0.1%
Statewide Total	868,597	3.6%	868,907	0.0%	869,138	0.0%	0.0%

Source: Colorado Department of Education and Legislative Council Staff December 2019 forecast.

*Percent change from 2018-19, when kindergarten students were counted as 0.5 FTE.

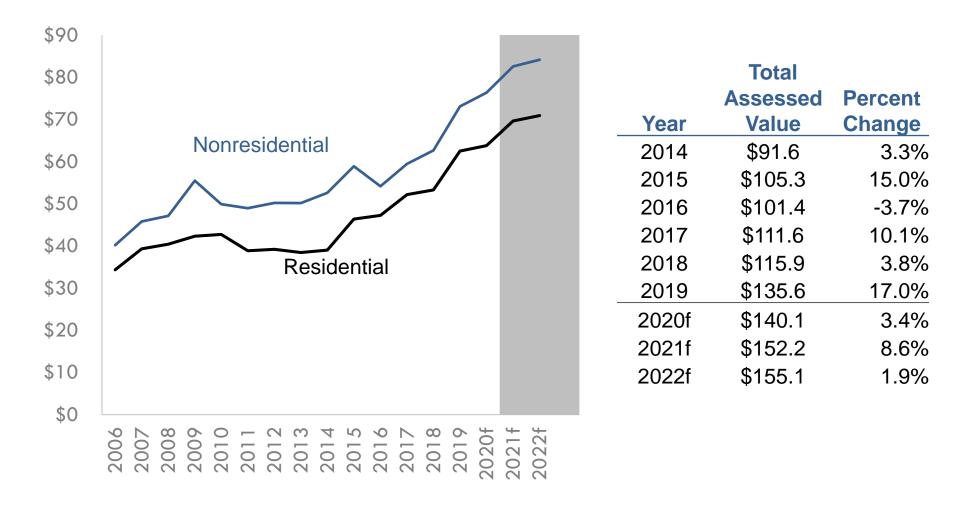
**Compound average annual growth rate between 2019-20 and 2021-22.

Assessed Valuation Forecast

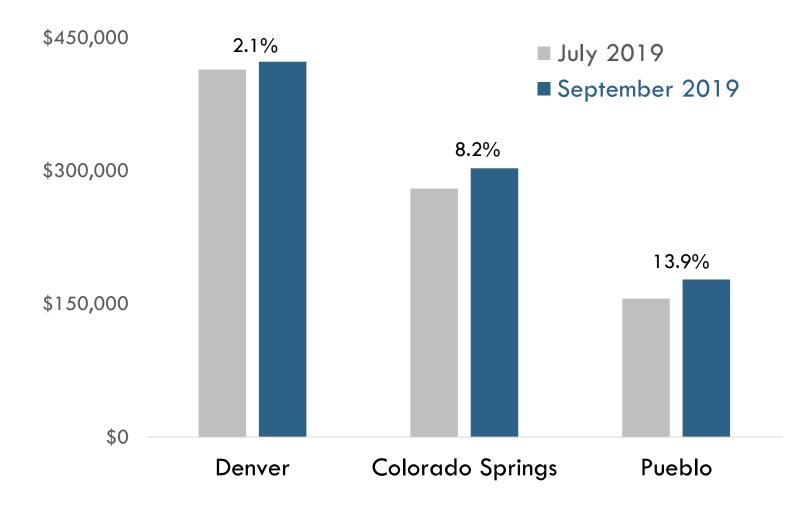


Assessed Values in Colorado

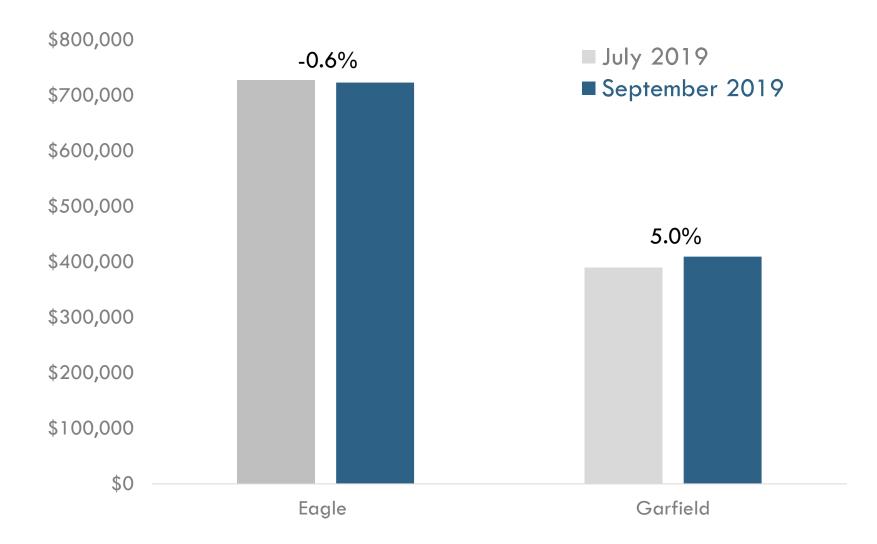
Dollars in Billions

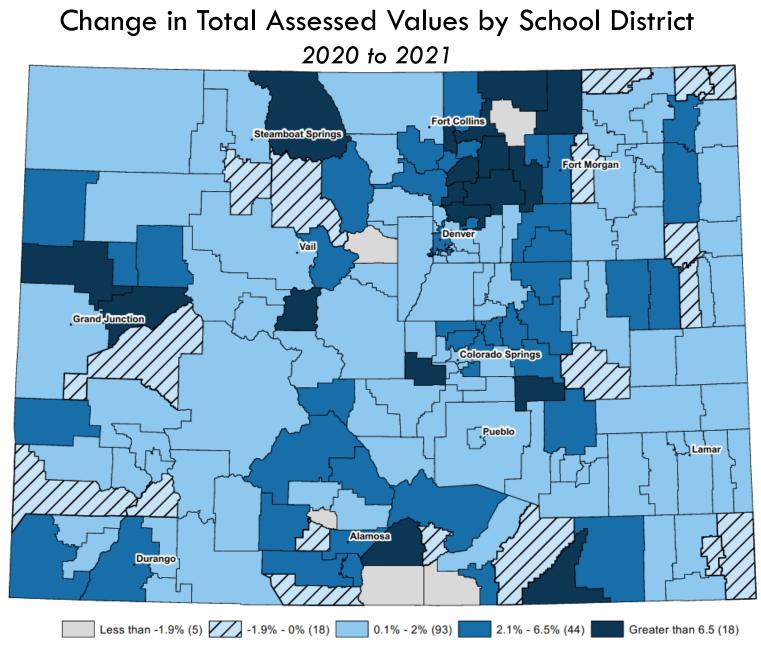


Comparison of Median Home Values

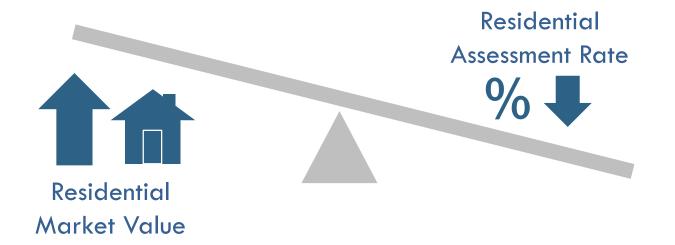


Comparison of Median Home Values





Source: Colorado Legislative Council Staff December 2019 Forecast.

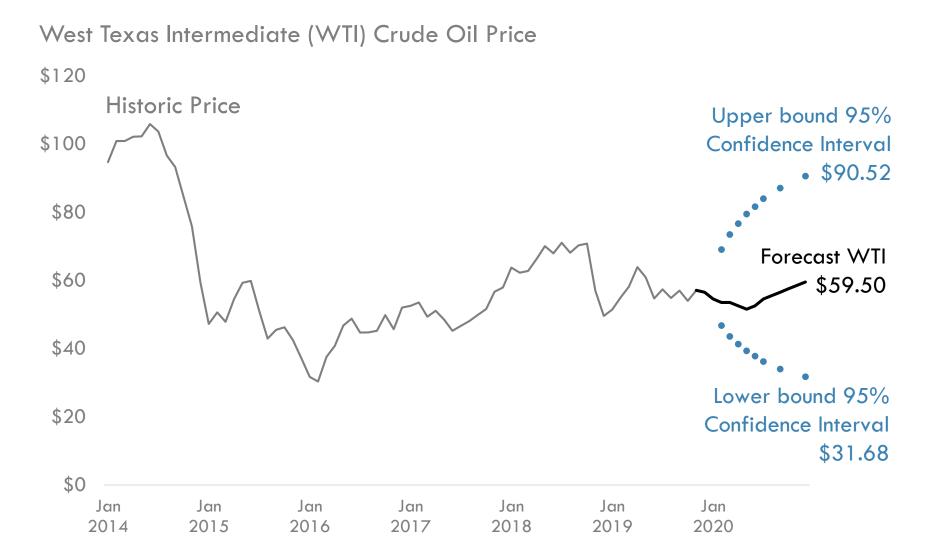


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Residential Assessment Rate 2021 & 2022



But the forecast is not without risks



Source: U.S. Energy Information Administration, December 2019 Short Term Energy Outlook.

What does the price of oil mean for the RAR?

	Baseline *	Scenario 1	Scenario 2
Implied Price of Oil, Dec 2020	\$59.50	\$50.50	\$68.50
RAR	7.13%	7.00%	7.15%
Change in 2021 AV from baseline	\$O	-\$2.7 billion -1.7%	\$1.6 billion 1.0%

School Finance Outlook

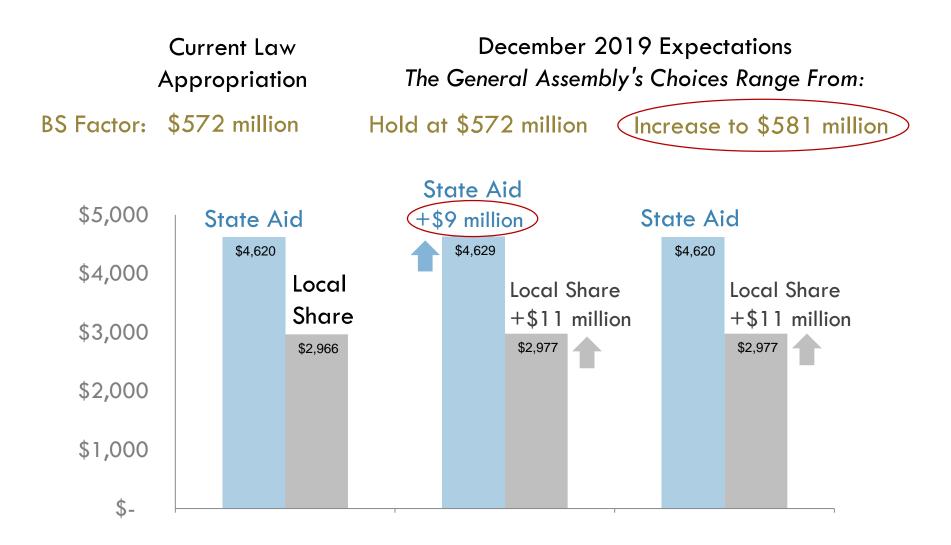


Changes Under House Bill 19-1262 FY 2019-20 Cost of Full-Day Kindergarten Implementation

Dollars in Millions

		Funded	Total	
	Utilization	Pupil Count	Program	State Aid
Estimated	┌ 100%	25,896	\$220.6	\$213.2
	95%	24,702	\$210.3	\$202.9
	90%	23,508	\$200.0	\$192.7
	85%	22,367	\$190.2	\$182.9
Actual		23,803	\$204.2	\$198.3

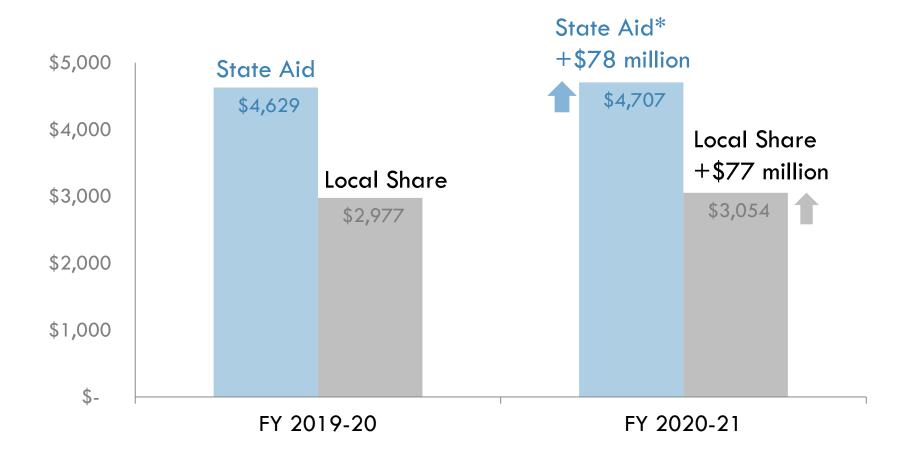
Change in Expectations for FY 2019-20 School Finance Funding Dollars in Millions



Source: Legislative Council Staff December 2019 forecast.

Year-over-Year Change in School Finance Funding FY 2019-20 to FY 2020-21

Dollars in Millions



Source: Legislative Council Staff December 2019 forecast.

*Assumes a constant Budget Stabilization Factor.

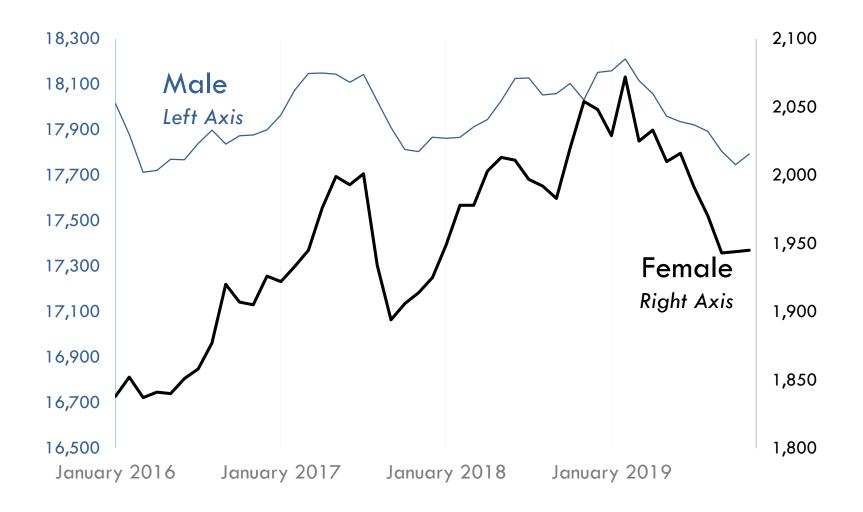
Implications for Balancing General Fund (GF) and State Education Fund (SEF) Contributions in 2020-21

- \$9M required increase in 2019-20; \$78M increase in state aid requirement in 2020-21 year-over-year reduces flexibility.
- Increasing 2019-20 SEF spending by \$9M implies \$15 million (0.4%) GF increase in 20-21.
- Increasing BS Factor by \$9M implies \$3 million (0.1%) GF
 decrease in 2020-21.

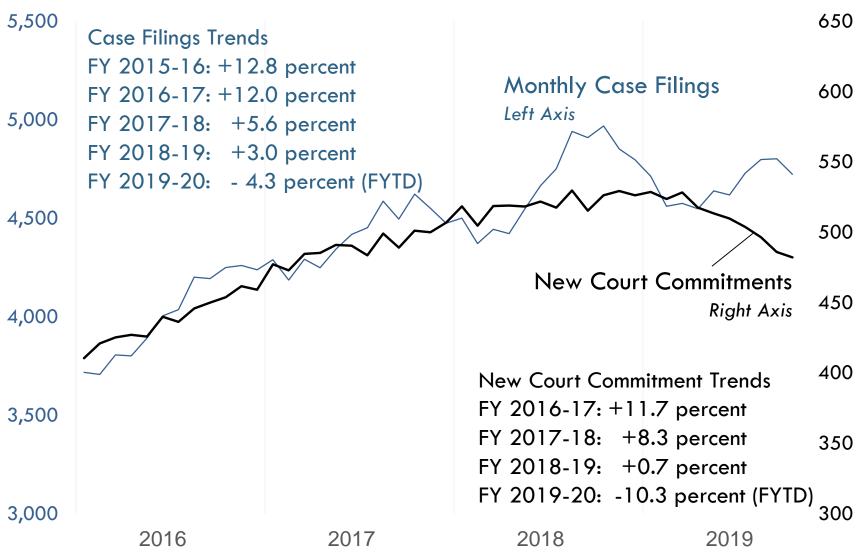
Adult Corrections Population Forecast



The prison population is down 2.7 percent since February



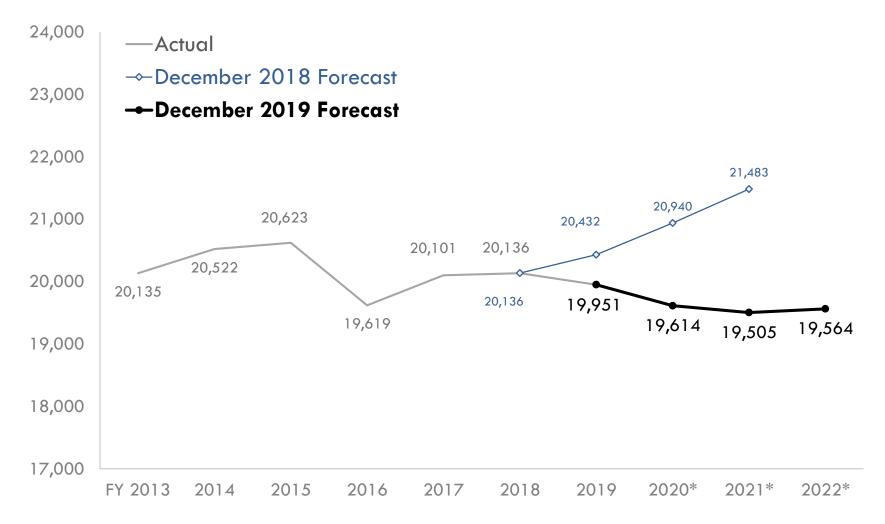
Case filings are down, and so are admissions



Source: Office of the State Court Administrator (case filings) and Department of Corrections, Office of Planning and Analysis (new court commitments). Monthly data; both series shown as six-month moving averages.

Trend in commitments has reduced inmate expectations

Adult Inmate Population Forecasts as of June 30



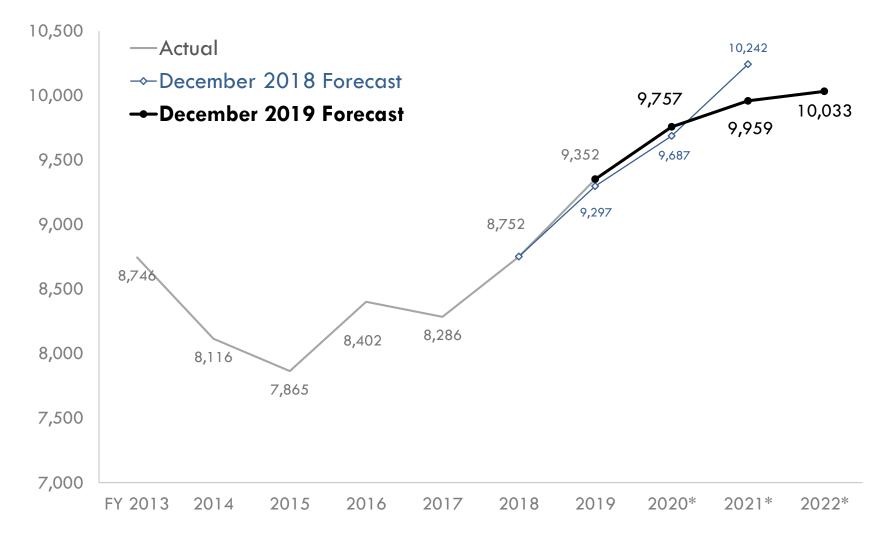
Source: Department of Corrections and *Legislative Council Staff December 2019 forecast.

Forecast uncertainty remains elevated

- This forecast always contains (bidirectional) error
 - Current year forecast error averages about 1.7 percent, or 328 inmates
 - Budget year forecast error is about 2.1 percent, or 413 inmates
- Trajectory of new court commitments is most important determinant of forecast accuracy
- Other risks include:
 - Implementation of SB 19-143
 - More parole board members and judges
 - Supreme Court decision in Allman v. People
 - Termination of Denver Community Corrections contracts

Parole caseload growth will continue

Adult Parole Caseload Forecasts as of June 30



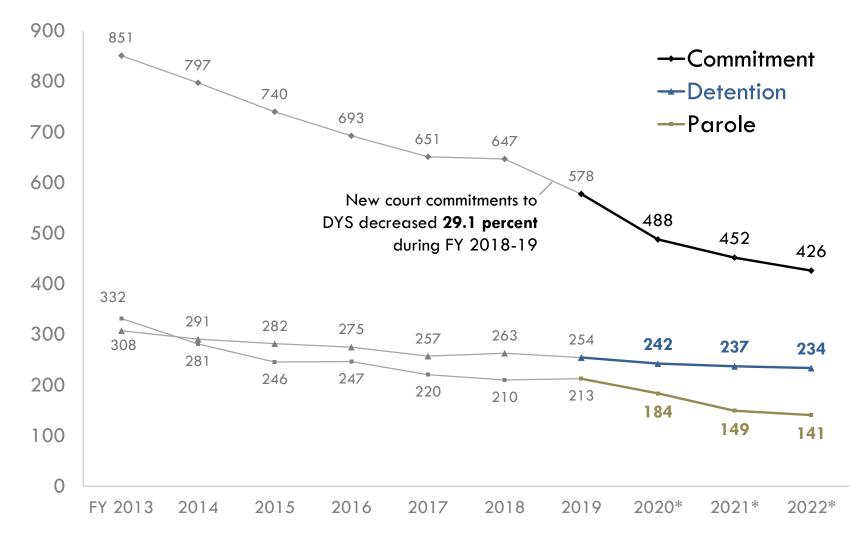
Source: Department of Corrections and *Legislative Council Staff December 2019 forecast.

Juvenile Corrections Population Forecast



All DYS Populations are Falling

Average Daily Populations through FY 2021-22



Questions?

Kate Watkins

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