



# Oregon Corrections Population Forecast

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## Background

The Office of Economic Analysis (OEA) produces the semi-annual Oregon Corrections Population Forecast which provides projections of the offender populations supervised by the Oregon Department of Corrections (DOC). The forecast estimates the number of adults in custody (AIC) in the state prison system, offenders on probation, parole, post-prison supervision, and felony offenders serving sentences of 12 or fewer months in county jails.

Executive Order 95-06 and Oregon Revised Statute 184.351 direct the Department of Administrative Services (DAS) and the Corrections Population Forecasting Advisory Committee to produce the forecast. The forecast is mandated to estimate monthly populations over a ten-year period and is published April 1st and October 1st of each year. State agencies, in particular the DOC and the Oregon Criminal Justice Commission (CJC), are mandated to use the forecast for budgeting and policy development where the offender population is concerned.

The Advisory Committee, whose members are appointed by the Governor, is comprised of individuals with knowledge of the criminal justice system. Advice from the Committee forms the basis for forecast assumptions regarding policy and practices in the criminal justice system and the impact of law and policy changes on the corrections populations. Committee members bring to the forecast process decades of diverse experience in the public safety system. They meet prior to each forecast release to discuss forecast-related issues such as trends in crime, potential impact of new laws, changes in public safety policy or practices, and to advise technical aspects of the forecast process.

### Corrections Population Forecast Advisory Committee

Jeffrey Howes (Chair)	Multnomah County Deputy District Attorney
Honorable Debra Vogt	Lane County Circuit Court
vacant	District attorneys representative
Brook Reinhard	Lane County Public Defenders
Greta Lowry	Parole Board
Ken Sanchagrin	Criminal Justice Commission
Heidi Steward (acting)	Director Department of Corrections
Malcolm McDonald	Clackamas County Sheriff Captain
Jodi Merritt	Polk County Community Corrections Director

The general forecast process, the publication of the forecast (this document), and technical aspects of performing the forecast (e.g., data analysis), are managed by OEA, in partnership with the CJC, and with substantial assistance from the DOC.

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## Forecast Process

### Assumptions

The Covid-19 pandemic caused dramatic upheaval in the state's prison system. From the onset in April 2020 to February 2022, the prison population fell by nearly 2,500 beds. The primary driver behind this decline was a sharp reduction in prison intakes, from a monthly average of roughly 400 prior to the pandemic to 270 during the steepest segment of the decline. This forecast assumes intakes will return to pre-pandemic levels by 2029, which is a slower rebound than in previous forecasts. This is primarily, albeit not entirely, the product of systemic issues with the public defense system that the Corrections Population Forecast Advisory Committee believed would not resolve for at least a few years. The forecast is highly dependent on this assumption and significant error could result if it does not hold.

Recent forecast error, that is beds rising above the April 2024 forecast, is mostly due to increased new crime intake numbers in recent months, particularly in male statutory and property crimes. The impact of short-term transition leave remains unchanged from last forecast, while the previous impacts of the Ramos and Watkins decisions are assumed to be finished at this time with no further impacts in the forecast. Assumptions regarding each are also subject to error and could cause actual beds to deviate significantly from the forecast.

Beyond the circumstances of the pandemic, the forecast assumes that current laws and current criminal justice practices continue as they are now. This includes the expected impacts from HB 4002, which passed during the 2024 legislative session and started to be implemented on September 1<sup>st</sup>, 2024. It also assumes both criminal activity and demographics follow expected trends. If those or other assumptions fail, the forecast is at risk.

In the outer years of the forecast, fundamental shifts in criminal tendencies in the general population pose a risk to the forecast. For example, over the past quarter century overall crime rates, including serious person crimes, have declined. If that trend were to reverse itself over the coming decade, the corrections population could expand well beyond the current forecast.

Criminal justice system practices have a significant effect on the flow of individuals through the court system and into the prisons. Emphasis on specific criminal activity and plea practices, for example, can change based on law enforcement policy and prosecutorial discretion. The amount of discretion in the corrections system, in particular with respect to prosecution of crimes and punishments sought, introduces a considerable degree of uncertainty to the forecast. Even if there was never a change in criminal activity or laws in Oregon, the prison population could vary considerably based on

administrative procedures, policies, and individual discretion exercised in law enforcement, prosecution, plea bargaining, and sentencing by judges.

## **Methodology**

### *Adults in Custody Population*

The prison population forecast uses a model that simulates adults in custody entering prison, their length of stay in prison, and final release. The primary driver of the forecast in the short term is the release rate of the existing prison population. In the long term, new intakes drive population trends. The rate of intakes and releases results in turnover of about half the population every 18 months.

The long-term prison population depends primarily on the forecast of future intakes (number and lengths of stay). In contrast to releases, future prison intakes cannot be mechanically determined based on any current information. Intakes are forecasted based on historical trends and anticipated population growth in Oregon. The trend integrates demographics, crime rates, criminal justice practices, and other factors which influence intakes and sentence lengths. The forecast assumes future intake trends will be similar to what has been observed in the recent past. The release profile for future intakes is a function of recent patterns as well.

As a technical note, modeling the prison population relies on both the number of intakes each month and how long each adult in custody will stay. The forecast handles the number of expected releases by simulating the full distribution of lengths of stay. The forecast tracks the number of intakes broken down by lengths of stay in one-month increments up to 10 years. The total time in months created by adding up all the individual lengths of stay for intakes is termed 'intake volume', and is measured in bed months. For example, if intakes occurred at a fixed level of 10,000 bed-months per month for many years, the prison population size will eventually equal 10,000 beds. That would represent a long-run steady-state population level where intakes exactly equal releases every month.

Prison intakes are the major determinant of the long-term prison population size, so it is valuable to have factors which are predictive of future intakes. The size of Oregon's population, as well as its age and gender mix, are primary determinants of future intakes. Changes in criminal sentencing laws are another major factor. When sentencing laws change, the full effect on prison populations can take years to be fully realized, but an attempt is made to estimate and incorporate the complete policy impact in the forecast as soon as the law is passed.

Various other factors have been suggested and checked for possible value in predicting future prison intakes. These include trends related to crime, the economy, student assessments, and court filings. Generally speaking, aside from population cohort sizes, there are no obvious causal (or predictive) relationships to prison trends which the forecast can rely on. Therefore, the forecast for future intakes is solely based on intake trends from the recent past with adjustments for law changes and population growth.

The final forecast is the sum of individual forecasts that explicitly break it down into smaller pieces to improve transparency and to better illuminate the potential impact of future policy reforms. Detailed forecasts are generated by gender and by crime type (Person-, property- and statutory-crime). Beginning with the October 2020 forecast, these six cohorts have been split into twelve by delineating between a prison stay associated with a new crime versus one precipitated by a revocation of community supervision.

The forecast is seasonally adjusted<sup>1</sup>. It is known that the prison population oscillates in a seasonal pattern. Depending on the day of the week or month, prison populations can change by almost 100 prisoners. An algorithm has been created that simulates these variations and implements them into the current forecast. Incorporating seasonal trends explains most of the recent variability in the short-term forecast, and makes the near-term forecast considerably more accurate.

### Intake Trends

Monthly variance in intakes is large. Relative to the underlying trend, actual intakes can regularly be plus or minus 50 in any given month. This contributes to month-to-month volatility in the overall prison population as well.

The impact of the pandemic on intakes can be seen beginning in April 2020. As noted previously, intakes are expected to return to pre-pandemic averages in 2029, in line with the changes made in the most recent forecast. The recent downward revision to the intake forecast in the next few years is in part due to the ongoing issues with the public defense system that will take some time to resolve. In the outer years, the intake forecast is driven by predicted growth in the 18-44 (“at-risk”) population. This assumption implies that crime rates will remain flat throughout the forecast horizon.

### Total Prison Intakes

Actuals | 7 Month Average | Forecast | Previous Forecast



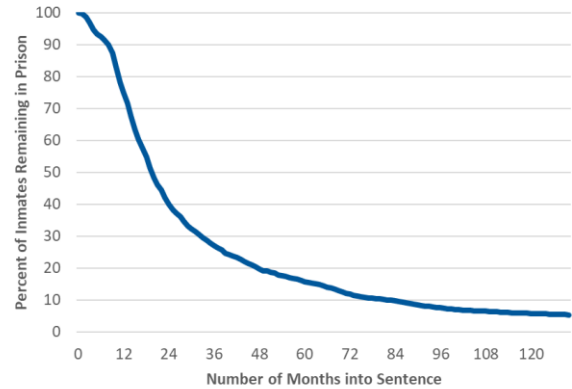
Source: Oregon Dept of Corrections, Oregon Office of Economic Analysis

<sup>1</sup> Standard economics' "seasonal adjustment" evens out seasonal oscillation and derives underlying trends. The DOC seasonal adjustment does the opposite, it implements seasonal oscillation into underlying trends to better forecast a precise month.

### Release Profile of Incoming Adults in Custody

The release profile of recent actual intakes is a critical component in forecasting the length-of-stay characteristics of future intakes. Note that for each given intake class, roughly half will be released within 18 months. Additionally, significant changes to the release profile of a given subpopulation will have long-run impact on the forecast for two reasons: first, the effect is only realized at the end of an offender’s sentence, and second, it takes time for changing length-of-stay characteristics to compound to alter the profile of the forecast.

Release Profile of Oregon Adults in Custody



### Modeling the Adults in Custody Population

Conceptually, the forecast model operates as a sequence of discrete months, feeding forward from one month to the next. Each month starts with the base population for the month; i.e., a distribution of expected length of stay for adults in custody who are in the prison population on the first day of the month. Lengths of stay less than one month represent adults in custody who will be released prior to the next month and are removed from the model. The number of intakes and distribution of their lengths of stay is projected for each month and flows into the base population for the next month. The equation below represents the elements:

$$Population_{T+1} = Population_T + Intakes_T - Releases_T$$

Where time T is the first of the month in question and time T+1 is the first of the following month.

Starting with the October 2020 forecast, the prison population has been disaggregated into twelve distinct subpopulations, delineated by gender (Male, Female), crime type (Person, Property, and Statutory), and finally admission type (New Crime versus a Revocation). Breaking the population down by these variables allows for analysis and insights not possible at the headline level.

## Risks

### Dynamic Environment

Fundamental changes in the corrections system, or its inputs, degrade the value of historical trends in forecasting and present a considerable risk to forecast accuracy. System changes establish new relationships between criminal activity and the prison population, and those relationships cannot be known until after stability in the system is reestablished. For example, Measure 11 had considerable



indirect impact on the prison population via changed plea practices. It took several years following the implementation of Measure 11 for that effect to be known.

The most significant immediate risk is how the Covid-19 pandemic plays out relative to the recovery profile assumed in this forecast. For more information, see section one of this report.

Starting in January 2009, there have been several significant changes in the corrections system from Ballot Measure 57 (2008), House Bill 3508 (2009), Senate Bill 1007 (2010), Ballot Measure 73 (2010), Senate Bill 395 (2011), House Bill 3194 (2013), HB 3078 (2017)<sup>2</sup>, and to a much smaller degree SB 1562 (2018). The impacts of these changes have been realized in the data and no longer require adjustments to the baseline forecast.

For the current forecast, the following four pieces of legislation are still having an ongoing impact on the system. Given that impact estimates are forecasts in and of themselves, the potential exists for the actual effect to differ from the adjustments being incorporated into the forecast.

House Bill 2328 (2019) changed the mental state required for the finding that a defendant committed the crime of unlawful use of a vehicle. The defendant, as well as any passenger, must only know that the risk exists that the owner did not consent to the use of the vehicle. The impact was minimal at first and rose to an increase of 92 beds at full impact. Only a minimal adjustment remains as most of the impact is assumed to have been realized in the data.

Senate Bill 1002 (2019) eliminated a prosecutor's ability to waive eligibility for certain sentence reduction programs, including the Alternative Incarceration Program, in a plea deal. While no impact was included in the forecast, there is the potential on either side for a modest impact. In particular, prosecutors could increase the sentence length of the plea offer to compensate for not being able to waive potential sentence reductions where such a stipulation would have otherwise been made. However, if the result is that more offenders become eligible for sentence reduction, the impact could be fewer beds.

Senate Bill 48 (2021) included several reforms designed to reduce the size of the population held in pretrial detention across the state pending trial/adjudication. It is possible that reductions in pretrial populations could have an impact on prison beds, as research indicates that individuals held pretrial are more likely to be sentenced to prison compared to similar pretrial defendants who are not detained while their cases are pending. The actual impact on prison beds, however, is unknown due to several factors. First, judicial pretrial release orders are the primary driver of pretrial detainment and SB 48 requires all presiding judge orders to be reformed according to a model order authored by the Chief Justice of the Oregon Supreme Court. As of July 1, 2022, pretrial release orders were released by all presiding judges across the state. However, given that individual presiding judges were able to work with local stakeholders to craft their specific pretrial judicial orders, there is variation across the state in the content of these orders. The precise impact of these orders and the variation between judicial districts is not yet known and anecdotal evidence suggests that some districts have been experiencing

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<sup>2</sup> <https://olis.oregonlegislature.gov/liz/2017R1/Measures/Overview/HB3078>

higher jail populations during these initial implementation months. Therefore, while the intent of the reforms aimed at judicial pretrial release orders is to reduce the size of the population detained pretrial, as of this time it is impossible to predict whether and how much of a reduction will occur or what the characteristics of the impacted population will be. Second, it is possible that the impacts of SB 48 may be primarily limited to lower level, non-prison eligible offenses.

House Bill 4002 (2024)<sup>3</sup> was recently passed by the Legislature and designed to reform Measure 110, passed by the voters in 2020. The bill removes barriers and establishes programs and policies aimed at improving access to substance use disorder treatment. It also establishes a criminal justice framework for possession or delivery of controlled substances designed to encourage treatment over penalties such as jail or probation. According to the latest estimates from the Oregon Criminal Justice Commission, the impacts of HB 4002 are relatively small when it comes to the prison population forecast, but sizable in terms of increases in probation, post-prison supervision, and local control caseloads. As for the specific impacts built into the forecast, there is an increase of 31 adults in custody that phase in over the next few years, which is predominantly male, new statutory crimes. This is primarily driven by additional convictions and enhancements for drug delivery law changes. Additional impacts are expected in the local control (+5), local control misdemeanor (+226), and post-prison supervision (+92) populations. The largest impact is expected in the probation caseload where the forecast is increased nearly 3,900 in the years ahead. The bill creates Drug Enforcement Misdemeanors for possession of user amounts of controlled substances, which can be sentenced to up to 18 months of probation. As the effective date of the bill is September 1, 2024, we are only just beginning to see the effects as of the publication of this report. More information will be available for the next forecast cycle.

An additional risk to the forecast involves any additional impact from two court decisions: the US Supreme Court decision in the 2020 case of *Ramos v. Louisiana* and the Oregon Supreme Court decision in the 2022 case of *Watkins v. Ackley*. At present, the forecast assumes that the impact of these rulings on releases are complete. To the extent there remain more eligible adults in custody, it would place downward pressure on the total prison population in the coming months.

The Office of Economic Analysis and the Criminal Justice Commission will continue to monitor releases and modify these adjustments as necessary.

### *Future Policy Changes*

In recent years, the majority of forecast error can be traced to changes in public policy rather than demographic or behavioral changes among potential offenders. Given the dynamic policy environment, policy changes represent the largest risk to the forecast. As has been proven over the years, voter initiatives have the potential to drastically change the public safety system. The fiscal condition of state and local governments also represents a risk to the forecast. In particular, counties which have historically received federal timber payments face significant budget risks which could impact the public safety system, and potentially change the quantity and character of felony sentences. Fewer

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<sup>3</sup> <https://olis.oregonlegislature.gov/liz/2024R1/Measures/Overview/HB4002>

fiscal resources dedicated to public safety would be expected to reduce the prison population in the near term, but that effect could later reverse if underlying crime rates increased.

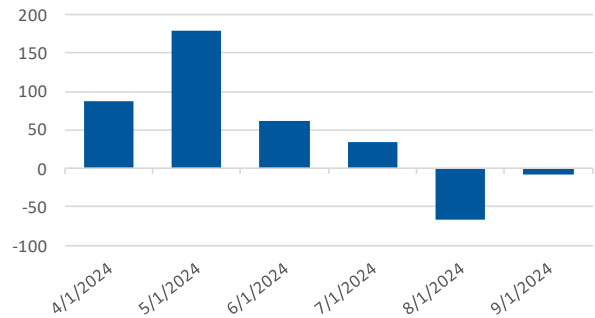
## Forecast

### Prior Forecast Tracking

April's forecast lowered the estimate for prison populations after actual numbers fell below previous forecast expectations. However, in recent months the actual prison population has mostly tracked above the April forecast. As of September 2024, there are 9 fewer Adults in Custody (AIC) than in the prior forecast. The errors were fairly widespread across sex and crime types, but male statutory-crimes accounted for the largest share of the variance.

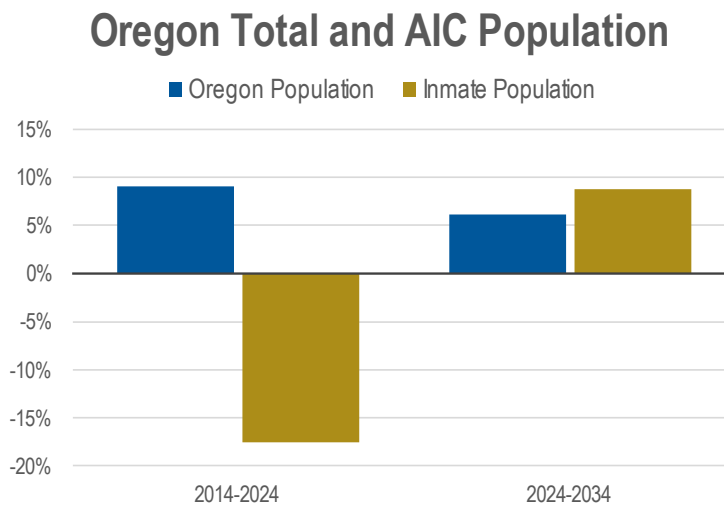
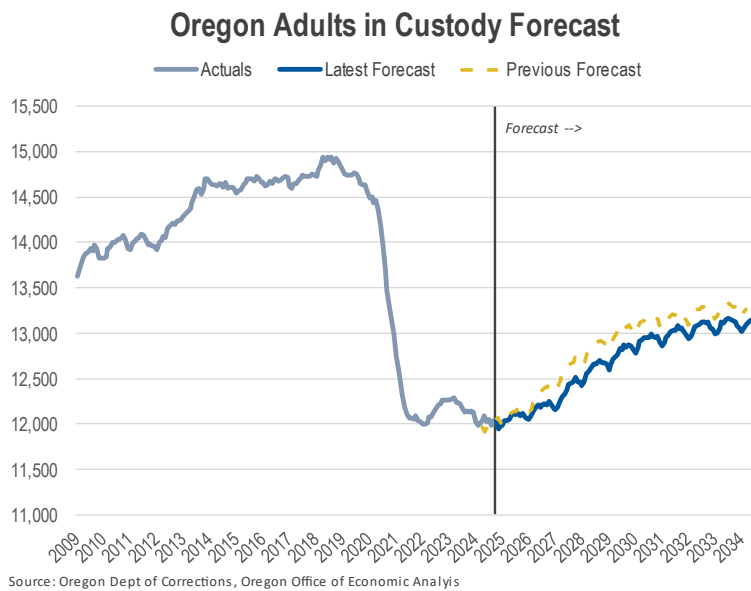
#### Forecast Tracking

*Actual number of Adults in Custody minus the previous forecast*



## Prison Population Forecast

As noted previously, the AIC population fell significantly below the prior forecast. The new April forecast maintains a similar growth profile, accelerating over the next few years as intakes approach pre-pandemic levels and then easing for the remainder of the forecast horizon. The number of adults in custody housed in Oregon's prisons, currently 12,033, is expected to equal 13,170 in ten years. The 10-year change in the prison population is 8.8 percent. To put that in context, Oregon's population is expected to grow 6.2 percent over the same timeframe. As a result, the incarceration rate (prison beds per 1,000 population) is expected to increase 2.5 percent over the next ten years. This is the end result of assuming intakes, and therefore AIC eventually return to pre-pandemic patterns, relative to measures of criminal activity.



## Male and Female Adults in Custody

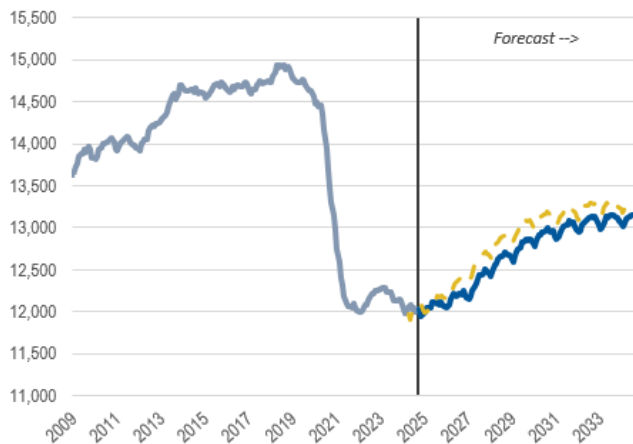
The current forecast projects that the male AIC population will grow 9.0 percent over the next ten years, reaching 12,139 by September 2034. The growth is augmented as the population rebounds from the effects of the Covid-19 pandemic.

The female AIC population is expected to equal 1,031 by September 2034, a 14.6 percent increase from the current level. The forecast exhibits the same impact and recovery profile due to the Covid-19 pandemic discussed above.

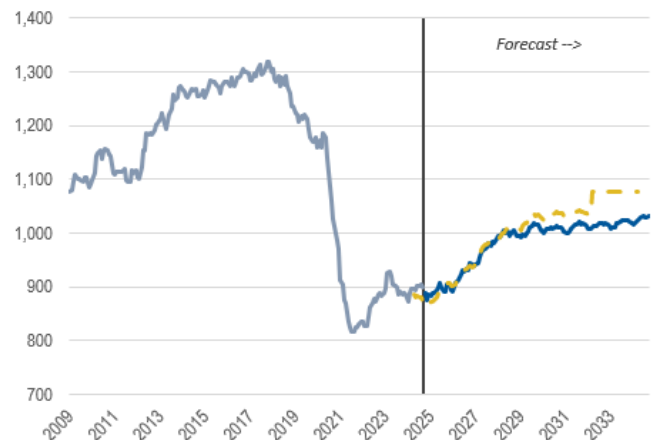
## Oregon Adults in Custody Forecast

Actuals | Latest Forecast | Previous Forecast

Male Adults in Custody



Female Adults in Custody



Source: Oregon Dept of Corrections, Oregon Office of Economic Analysis

## Components of Change

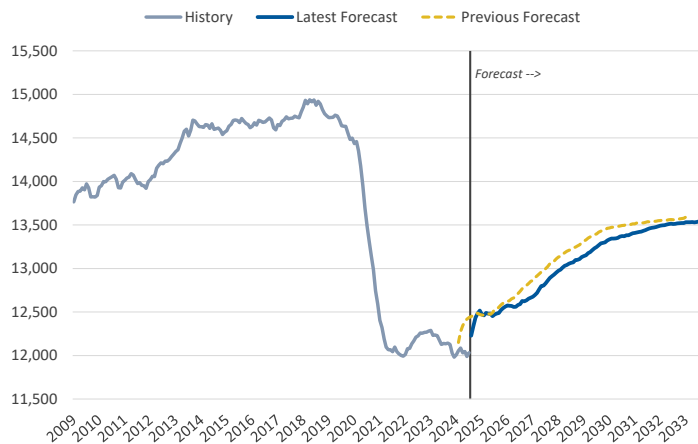
There are two components of change in each prison forecast: updates to the model due to new empirical data and new law changes.

### Model Updates

When new DOC data are input into the forecast model, changes in intakes, sentence lengths, releases, etc. are integrated and create a “new normal” within the model. The graph to the right exhibits the change to the model output prior to any add factors for the prospective impact of recent law changes and the ongoing factoring of short-term transition leave. The model output appears to project a near-term spike in the prison population. This is a product of how

transition leave is handled in the model as a structural add-factor. Once transition leave is factored into the forecast, the near-term jump disappears (see final forecast).

**Total Adults in Custody - Model Output**



### Net Law Impacts

As discussed above, transition leave is maintained as a permanent add-factor due to the way the program affects the data. Now this forecast is the impact of HB 4002, as discussed previously, which raises the total AIC population by 31 over the years ahead. The only potential outstanding issue would be any lingering impacts for the Ramos and Watkins decisions discussed earlier.

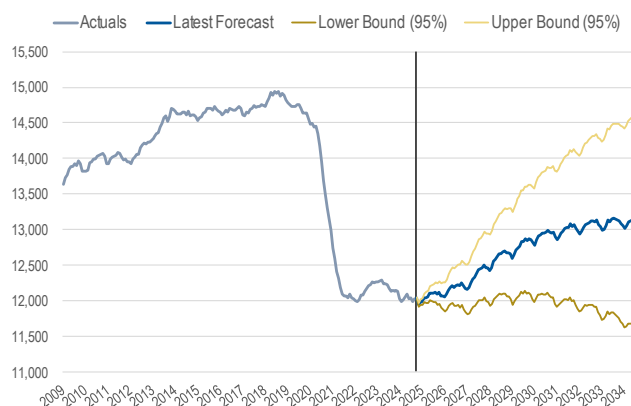
## Margin of Error

Oregon HB 3194 directs that the Department of Administrative Services “identify the forecast’s margin of error” (Section 46-3(a)). The margin of error depends on the timeframe being examined. Historical error rates serve as a guide for assessing the potential for actual prison population counts to differ from the forecast in the near term.

The historical deviation for the October of even year forecasts, when gauged at the end of the same biennium, is 2.5 percent. Note that this statistic excludes the large error observed in the 2019-21 biennium due to the Covid-19 pandemic as it is customary in forecasting to exclude significant outliers. There is a 95 percent probability that the actual prison population will fall in the 11,802 and 12,408 range at the end of the current biennium. The primary driver for potential error in the near term is error in the forecast for releases and intakes in the coming months.

In addition to the forecast’s role in near- to medium-term budgeting, the forecast is also used to guide long-term planning for prison capacity. Coming up with a predicted margin of error for the 10-year forecast is complicated by the fact that major law changes (Measure 11, Measure 57, HB 3508, House Bill 3194, House Bill 3078, and now House Bill 4002) produce large errors in the forecasts that preceded their passage. The prison forecast presented here, being a “current-law” forecast, does not anticipate potential law changes. The 10-year margin of error for this forecast should coincide with potential model error, thus making historical error rates inappropriate.

**Prison Forecast with Confidence Interval**



A better gauge is derived from analyzing the variance in growth rates for time frames more or less absent of law changes to assess the potential for the projected baseline growth of 8.8 percent to be off. Computed in this way, there is a 95 percent probability for the actual adult in custody count to differ from this forecast by up to 11.4 percent in either direction.

## Community Corrections

The community corrections population involves felony, designated drug-related misdemeanor (HB2355), and designated person related misdemeanor (SB 497) offenders who are not in prison. House Bill 2645 (2023) included fentanyl in the drug-related misdemeanor population. The Department of Corrections receives General Fund that it passes to 34 of the 36 counties to provide direct oversight. In Linn and Douglas counties, the Department staffs the community corrections department directly.

The forecast projects the felony and designated drug and person related misdemeanor probation caseload, local control population (incarceration in jail), and post-prison supervision and parole (Parole/PPS). Each group is forecasted separately for budgeting purposes. The community corrections forecasts rely primarily on the relatively stable historical trends in the respective populations. In addition, the Parole/PPS population has exhibited a strong correlation with the AIC population over time.

The forecasts for the Local Control, Parole/Post-Prison Supervision, and Probation populations reflect the pandemic impact and recovery profile discussed at the beginning of the report. All three populations fell sharply following the onset of the pandemic and are expected to rebound in the direction of their pre-pandemic levels. For this October 2024 forecast, all three subpopulations closely tracked the previous forecast. The PPS forecast is lowered slightly in keeping with the AIC forecast trends.

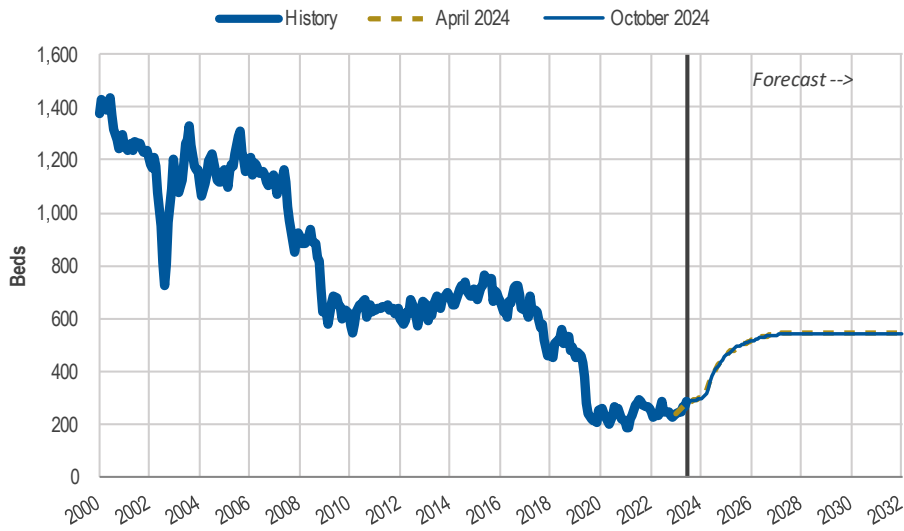
In November 2020, Oregon voters passed Ballot Measure 110, which reduced many possession-of-a-controlled-substance felonies or misdemeanors to violations as of February 1, 2021. As discussed previously, the recently passed House Bill 4002 (2024) reforms Ballot Measure 110. The Criminal Justice Commission estimated the impacts on the local control, post-prison supervision, and probation community corrections populations, which are incorporated into this forecast. Implementation of HB 4002 started on September 1, 2024, and early data shows an uptick in arrests for possession-related offenses.

The Local Control forecast numbers do not include jail beds occupied by repeat DUI offenders, which are reimbursable under Measure 73 (2010). The reimbursement provisions of Measure 73 require separate budgeting for those beds, and, while the majority of the jail usage falls under the umbrella of Local Control, pre-trial jail time does not.

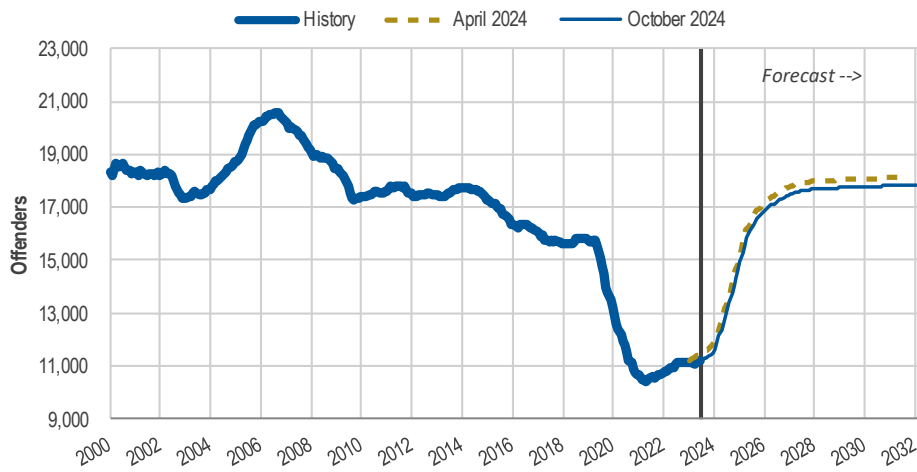
The three graphs below (next page) show the population history (heavy blue line), the current forecast (light blue line), and the previous forecast (dotted gold line) for the local control, the probation, and the parole/PPS population groups.



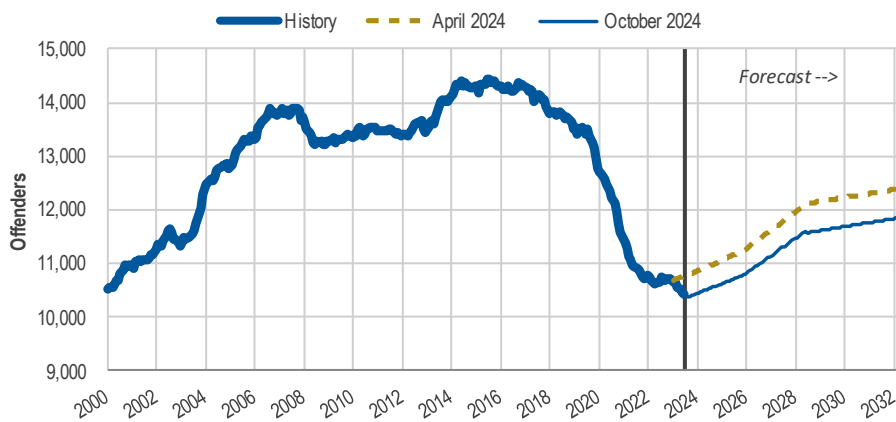
### Local Control Forecast



### Probation Forecast



### Parole / Post-Prison Supervision Forecast



## Sources of Forecast Error

Forecast error is the difference between what was forecasted at a specific point in the future and what is actually observed when that time comes. Understanding the sources of forecast error is helpful in interpreting forecast risks.

The largest source of forecast error is associated with law changes which become effective after the forecast is released. There have been a number of laws over the past 20 years which caused, or were expected to cause, prison population changes of a magnitude significant to the forecast. The forecast does not project law changes or practical application of current law, but rather assumes the current legal environment persists unchanged across the 10-year forecast projection period.

Forecasts released following major law changes can suffer from incorrect estimates of the impact of the law change on the prison population. This is because law changes often have a significant indirect impact that is not known until it is evidenced by data, sometimes months or years later.

Regardless of law changes, there are additional sources of error with baseline forecast projections. The forecast relies on modeling the release of current prisoners and projecting the intake of future prisoners. Although the sentences pronounced in court judgments are known, the actual length of stay of an adult in custody in prison can vary considerably from what is expected based on the judgment. This introduces error into the model. Situations which make the length of stay indeterminate include: resentencing to a longer or shorter sentence; indeterminate parole board sentences (before the guidelines); participation and success in Alternative Incarceration Programs; Transition Leave; time served after failure on probation or parole; death of the adult in custody; transfer in/out of state; amount of earned time earned; absconding or return from absconding; sentence commutation, temporarily out for medical reasons or court appearance.

Further out in the forecast horizon, error in projecting future prison entrants can be significant. The forecast accuracy depends on the accurate projection of the number of future prison intakes and their lengths of stay. Differences of as little as one percent in projected intake rates could add to an overall error of 1,000 beds over the forecast horizon. As such, the outer years of the forecast are very sensitive to the accuracy of assumptions regarding new intakes.

Finally, daily variation in the prison population due to intake and release activity is considerable. The population on a given day regularly deviates from the monthly average population by more than 100 beds. Therefore, the actual population on the first day of a given month can be expected to differ from the forecast value by 100 beds without concern. This also means that forecast values should be interpreted as the mid-point of a range (+/- 100) within which the actual population will fluctuate.

## Appendix

### Prison Population Forecast Values

All forecast values are published in spreadsheet format and can be viewed and downloaded from the link below. The spreadsheet includes forecast data tables for the prison and community corrections forecasts and some additional forecast-related data such as: male and female forecasts; Male-person, -property and -statutory forecasts; seasonally and non-seasonally adjusted forecasts; and new law impact estimates.

<https://www.oregon.gov/das/oea/Pages/forecastcorrections.aspx>