

Office of the
Secretary of Public Safety and Homeland Security

**REPORT ON THE OFFENDER POPULATION
FORECASTS (FY2016 TO FY2021)**

To The Governor and General Assembly



Commonwealth of Virginia

Richmond, October 15, 2015

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Commonwealth of Virginia

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October 15, 2015

TO: The Honorable Terence R. McAuliffe
Governor

The Honorable S. Chris Jones
Chairman, House Appropriations Committee

The Honorable Charles J. Colgan
Co-Chairman, Senate Finance Committee

The Honorable Walter A. Stosch
Co-Chairman, Senate Finance Committee

The Honorable David B. Albo
Chairman, House Courts of Justice Committee

The Honorable Thomas K. Norment, Jr.
Co-Chairman, Senate Courts of Justice Committee

The Honorable Mark D. Obenshain
Co-Chairman, Senate Courts of Justice Committee

Each year, the Secretary of Public Safety and Homeland Security is required to present revised offender population forecasts to the Governor, the Chairmen of the House Appropriations and Senate Finance Committees, and the Chairmen of the House and Senate Courts of Justice Committees.

To revise the forecasts, my office brought together policy makers, administrators, and technical experts from all branches of state government for a series of meetings over the course of the summer and early fall. Using a consensus approach, with input from all those who participated in the process, a forecast for each of the four offender populations was adopted.

The 2015 forecasting process is complete and, as required by the Appropriation Act, this report is respectfully submitted for your review. Please contact my office should you have questions regarding any aspect of the offender forecasts.

Sincerely,

A handwritten signature in cursive script that reads "Brian Moran".

Brian J. Moran

Authority

This report has been prepared and submitted to fulfill the requirements of Item 376 of Chapter 665 of the 2015 Acts of Assembly. This provision requires the Secretary of Public Safety and Homeland Security to present revised offender population forecasts to the Governor, the Chairmen of the House Appropriations and Senate Finance Committees, and the Chairmen of the House and Senate Courts of Justice Committees by October 15, 2015. Specifically, the Secretary must present updated forecasts for the adult state-responsible confined population, adult local-responsible jail population, juvenile state-responsible population, and juvenile local-responsible population. In addition, the Secretary must ensure that the adult state-responsible population forecast includes an estimate of the number of probation violators in the overall population who may be appropriate for punishment via alternative sanctions. This document contains the Secretary's report for 2015.

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Executive Summary

Forecasts of persons confined in state and local correctional facilities are essential for criminal justice budgeting and planning in Virginia. The forecasts are used to estimate operating expenses and future capital needs and to assess the impact of current and proposed criminal justice policies. The Secretary of Public Safety and Homeland Security oversees the forecasting process and, as required by the Appropriation Act, presents updated forecasts annually to the Governor, the Chairmen of the House Appropriations and Senate Finance Committees, and the Chairmen of the House and Senate Courts of Justice Committees.

To produce the offender forecasts, the Secretary's Office utilizes an approach known as "consensus forecasting." This process brings together policy makers, administrators, and technical experts from all branches of state government. The Technical Advisory Committee is composed of experts in statistical and quantitative methods from several agencies. While individual members of this Committee generate the offender forecasts, the Committee as a whole carefully scrutinizes each forecast according to the highest statistical standards. Selected forecasts are presented to the Secretary's Work Group. The Work Group evaluates the forecasts and provides guidance to the Technical Advisory Committee. The Work Group includes deputy directors and senior managers of criminal justice and budget agencies, as well as staff of the House Appropriations and Senate Finance Committees. Forecasts accepted by the Work Group then are presented to the Secretary's Policy Committee. Led by the Secretary, the Policy Committee reviews the various forecasts, making any adjustments deemed necessary to account for emerging trends or recent policy changes, and selects the official forecast for each offender population. The Policy Committee is made up of lawmakers, agency directors, and other top officials and includes representatives of Virginia's prosecutor, police, sheriff, and jail associations. Through the consensus process, a forecast is produced for each of the four major offender populations.

The forecasts, approved in October 2015, were based on all of the statistical and trend information known at the time that they were produced. Implementation of a new jail data system in June 2013 has had an impact on the forecasting process. Conversion to the new jail data system, known as LIDS-CORIS, was not seamless. Issues encountered with the new system now have been resolved and the data has been verified by Virginia's Compensation Board. In addition, computer programming designed to support the jail data system was reviewed in detail and improvements to the programming were developed by the Compensation Board and implemented in 2015. Based on the improvements in the LIDS-CORIS system and support programming, population figures for the adult state and local-responsible populations were revised for the period January 2005 – June 2015. Information in this report is based on the revised population figures provided by the Compensation Board in June 2015.

Adult State-Responsible Confined Population. The largest of the forecasted populations, the state-responsible confined population includes offenders incarcerated in state prisons as well as state inmates housed in local and regional jails around the Commonwealth.

After more than a decade of growth, the population declined each year from fiscal year (FY) 2009 through FY2012. Much of the decline during that period can be attributed to a significant drop in the number of offenders committed to the state's Department of Corrections (DOC). This shift was consistent with observed changes in arrest patterns, a decline in felony sentencing events in circuit court, and a return to pre-2004 levels in the backlog of drug cases awaiting analysis at the Department of Forensic Science. During the two-year period between June 30, 2012, and June 30, 2014, the number of state-responsible inmates grew by approximately 1,000, or 2.7%, to a population of 38,871. The number of female offenders committed to prison increased significantly during that two-year period. In FY2015, the state-responsible population decreased by 0.3% to 38,761 inmates. Based on the approved forecast, the population is projected to increase by an average of 0.4% annually during the next six years, reaching 39,702 inmates by the end of FY2021 (see table below). This forecast is slightly lower than the forecast presented to the Governor and General Assembly last year. This is primarily driven by the forecast of new commitments to the Department, which suggests higher growth in offenders committed for property and drug offenses (i.e., offenders with shorter lengths-of-stay) relative to offenders committed for violent offenses (i.e., offenders with longer lengths-of-stay). As required by Appropriation language, the forecast has been disaggregated to identify the number of probation violators within the overall population who may be appropriate for punishment via alternative sanctions. By the end of FY2021, it is projected that the state-responsible population will include 1,776 technical probation violators (i.e., offenders who violated the rules of probation but have not been convicted of a new crime).

Adult Local-Responsible Jail Population. The local-responsible jail population is defined as the number of persons confined in local and regional jails across the Commonwealth, excluding state and federal inmates and ordinance violators. Following substantial growth in FY2006 and FY2007, the average local-responsible jail population declined each succeeding year through FY2010. In FY2011, the average local-responsible jail population began to rise, with growth of less than 1% in four of the last five years fiscal years. Overall, the average population increased by 0.2% in FY2015; however, the population during March through June of 2015 was significantly lower than expected given the typical seasonal patterns observed in jail populations. Under the approved forecast, the local-responsible jail population is projected to decline from an average of 19,411 in FY2015 to 18,501 in FY2017. Beginning in FY2018, the population is expected to increase for the remainder of the forecast horizon to an average of 19,002 in FY2021 (see table below).

Juvenile Direct Care Population. Juvenile offenders committed to the state are held in facilities operated by the Department of Juvenile Justice (DJJ) or they are placed in re-entry, community placement, or halfway house programs¹; collectively, these make up DJJ's total direct care population. The number of juveniles in the direct care population has been falling since FY2000. Some of the early decline may be attributed to a change in the minimum criteria for a juvenile to be committed to DJJ (from a felony or two Class 1 misdemeanor adjudications to a felony or four Class 1 misdemeanor adjudications) beginning July 1, 2000, as well as subsequent statutory changes discussed later in this report. These policy changes alone cannot explain the

¹ DJJ operated halfway houses for the direct care population beginning in July 2012. Due to budget reductions, the halfway houses were closed in January 2014.

persistent downward trend in commitments through FY2014. At Court Services Units, the point of entry into the juvenile justice system, the total number of juvenile intake cases has declined for the eleventh consecutive year. In addition, DJJ has implemented procedures that include the use of validated risk assessment instruments in numerous aspects of community and facility operations in order to reserve juvenile correctional beds for those who represent the greatest risk to public safety. For the first time since FY2000, the number of admissions to the population increased in FY2015 (up by 15 juveniles, or 4%). However, the total direct care population fell to an average of 509 in FY2015, a decrease of 90 from the previous year, due to shorter average lengths-of-stay. The forecast for the direct care population anticipates a continued decline through FY2019. Beginning in FY2020, this population is expected to level off. For FY2021, the average population is projected to be 302 juveniles (see table below).

Juvenile Detention Home Population. Juveniles held in local or commission-operated juvenile detention homes around the Commonwealth make up the juvenile local-responsible population. The juvenile detention home population declined from an average of 1,061 in FY2007 to an average of 729 in FY2013. Lower numbers of intakes at court service units and procedures to reduce detention of low-risk juveniles have contributed to the downward trend. The population increased slightly to 735 in FY2014 due to longer lengths-of-stay, but decreased to 709 in FY2015 due to drop in detainments (admissions) of nearly 9%. The average detention home population is projected to drop to 436 juveniles in FY2021 (see table below).

**Offender Population Forecasts
FY2016 – FY2021**

Fiscal Year	Adult State-Responsible Offender Population (June 30)	Technical Probation Violators within the Adult State-Responsible Offender Population (June 30)*	Adult Local-Responsible Jail Population (FY Average)	Juvenile Direct Care Population (FY Average)	Juvenile Detention Home Population (FY Average)
FY2015 (Actual)	38,761	1,730	19,411	509	709
FY2016	38,840	1,739	18,675	429	643
FY2017	39,646	1,805	18,501	346	594
FY2018	39,824	1,785	18,660	303	549
FY2019	39,338	1,733	18,825	295	508
FY2020	39,544	1,775	18,937	300	471
FY2021	39,702	1,776	19,002	302	436

* The Technical Probation Violator forecast is a subgroup of, and not in addition to, the Adult State-Responsible Offender Forecast.

Since the proportion of violators identified as technical violators declines as criminal histories are updated with new conviction information, this forecast should be considered a maximum.

Based on previous study, the Department of Corrections has estimated that 53% of technical violators sentenced to a state-responsible term may be suitable for alternative sanctions.

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Virginia's Offender Forecasting Process

Each year, the Secretary of Public Safety and Homeland Security oversees the offender forecasting process. These forecasts are essential for criminal justice budgeting and planning in the Commonwealth. They are used to estimate operating expenses and future capital needs for state prisons, local and regional jails, and juvenile correctional facilities. In addition, the forecasts provide critical information for assessing the impact of current and proposed criminal justice policies. The Secretary's Office utilizes an approach known as "consensus forecasting." First implemented in Virginia in the late 1980s, consensus forecasting is an open, participative approach that brings together policy makers, administrators, and technical experts from many state agencies across all branches of state government. The objective is to ensure that key policy makers and administrators in the criminal justice system have input into the forecast. Moreover, the process is intended to promote general understanding of the forecast and the assumptions that drive it.

The process is structured through committees. The Technical Advisory Committee is composed of experts in statistical and quantitative methods from several agencies. Analysts from particular agencies are tasked with developing offender forecasts. Typically, two forecast models are developed for each of the adult and juvenile populations by two analysts from separate agencies working independently of one another. Confidence in the forecast can be bolstered if different methods used by multiple agencies converge on the same future population levels. While individual members generate the various prisoner forecasts, the Technical Advisory Committee as a whole carefully scrutinizes each forecast according to the highest statistical standards. Select forecasts are recommended by the Technical Advisory Committee for consideration by the Secretary's Work Group. Work Group members include deputy directors and senior managers of criminal justice and budget agencies, as well as staff of the House Appropriations and Senate Finance Committees. Meeting throughout the development of the forecasts, the Work Group provides guidance to the Technical Advisory Committee, discusses detailed aspects of the projections, and directs technical staff to provide additional data needed for decision making. The diverse backgrounds and expertise of Work Group members promote in-depth discussions of numerous issues and trends in Virginia's criminal justice system. After thorough evaluation of each forecast, the Work Group makes recommendations to the Secretary's Policy Committee. Led by the Secretary, the Policy Committee reviews the various forecasts and selects the official forecast for each population. This Committee also considers the effects of emerging trends or recent policy changes, making adjustments to the forecasts as it deems appropriate. The Policy Committee is made up of agency directors, members of the General Assembly, and top-level officials from Virginia's executive, legislative, and judicial branches. Each year, at least one prosecutor, sheriff, police chief, and jail administrator are invited to serve on the Policy Committee to represent their respective associations.

The forecasting process benefits from rigorous quantitative analysis by the Technical Advisory Committee, detailed scrutiny by the Work Group, and high-level review by the Policy Committee. Through the consensus process, a separate forecast is produced for each of the four major correctional populations.

Forecasting Methodologies

Members of the Technical Advisory Committee utilize two types of methodologies to develop offender forecasts: time-series forecasting and computer simulation modeling. Time series forecasting is a set of statistical techniques that apply specifically to the analysis of data points that occur over time. Time-series forecasting assumes that there is a pattern in the historical values that can be identified. The goal is to define the pattern, understand the short-term and long-term trends, and pinpoint any seasonal fluctuations. Significant policy changes made in past years can be included in the statistical model and the impacts quantified. Time-series models then utilizes the pattern, trend, and seasonal variation identified in the historical data to project future values. Models developed from the same set of data can differ based on the statistical parameters included, external factors tested (factors that may be correlated with population changes), how many years of historical data are included in the analysis, etc. To develop time series models, analysts often withhold the most recent data points (e.g., the last 12 months). When a particular model is identified, the model is used to project population values for the period of data withheld from the model development. The projected values are compared to the actual values during the holdout period to assess the model's accuracy. Models can then be compared based on a variety of accuracy statistics so that the model with the best set of statistical properties can be selected. Analysts then re-run the selected model using all of the historical data, including data originally withheld during the model development stage. This is done to ensure that the most recent data are included when generating the actual forecast. Analysts on the Technical Advisory Committee use this process when developing offender forecasts using time series techniques.

In addition, DOC and DJJ use computer simulation modeling to forecast the adult state-responsible confined population and the state's juvenile direct care population, respectively. Computer simulation models are designed to mimic the flow of offenders through a system over the forecast horizon. Both DOC and DJJ use Simul8 forecasting software for this purpose. Simul8 is a standard software package made specifically for creating simulation models. It is flexible in that users can structure a simulation model to accurately portray their particular system and it can be easily modified to capture policy changes. Simul8 models can also be adapted to produce forecasts of important subpopulations. To accurately simulate the movement of offenders through a system, data describing the offenders admitted to, confined in, and released from the population are compiled and programmed into the simulation model. Use of simulation forecasting often requires assumptions to be made, for example, regarding the characteristics of future commitments/admissions to the system.

Members of the Technical Advisory Committee from particular agencies are assigned the task of generating the offender forecasts. These are presented to the Committee. Typically, the Committee examines two forecast models for each offender population. The models are developed by two analysts from different agencies working independently of one another. Each forecast is carefully scrutinized. The forecasts selected by the Technical Advisory Committee are recommended to the Secretary of Public Safety and Homeland Security's Work Group.

Adult State-Responsible Confined Population

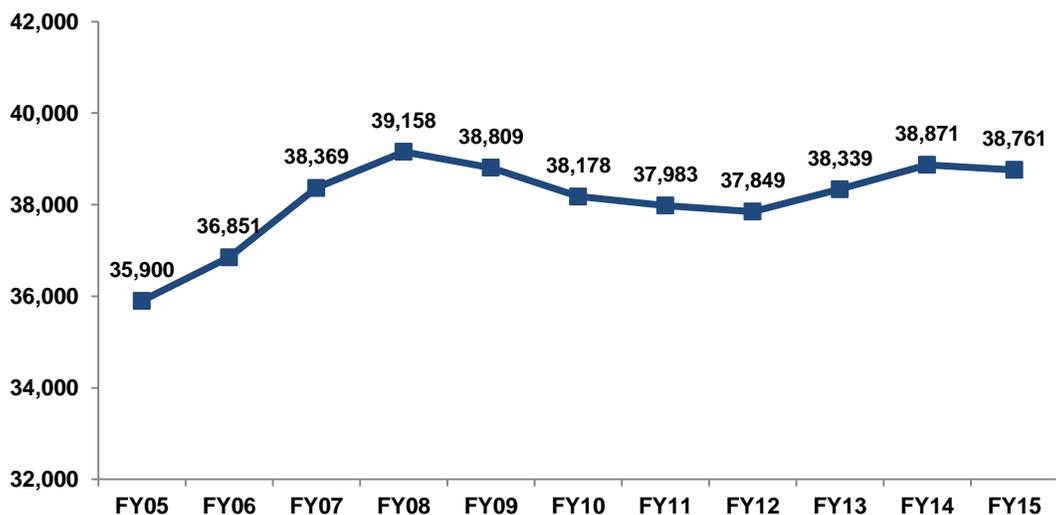
The adult state-responsible confined population includes offenders incarcerated in state prison facilities as well as those state-responsible offenders being housed in the local and regional jails around the Commonwealth. It is the largest of the four offender populations. For forecasting purposes, state-responsibility begins on the day an offender receives a state-responsible sentence (i.e., a sentence of one year or more for a felony offense). If the offender has multiple court cases, state-responsibility starts on the most recent sentencing date that occurs prior to the offender's classification by the Department of Corrections (DOC).

Based on improvements in the LIDS-CORIS data system and associated computer programming, the Compensation Board released revised figures for the number of state-responsible inmates held in jails during the period January 2005-June 2015. Figures for the total state-responsible confined population have been revised accordingly and, therefore, are not comparable to those provided in previous offender forecasting reports.

Population Change

The adult state-responsible confined population grew during FY2006 through FY2008, increasing by an average of 2.9% annually. Following its peak in FY2008, the population declined through FY2012, dropping by more than 1,300 inmates during that period (Figure 1). In FY2013, the inmate population grew by 1.3% to 38,339. This was the first increase in the population in five years. Growth continued in FY2014, with the number of state-responsible inmates reaching 38,871 (an increase of 1.4%). In FY2015, the population fell to 38,761, a decrease of 0.3% or 110 inmates.

Figure 1
Adult State-Responsible Confined Population (on June 30 of each year)



Based on improvements in the LIDS-CORIS data system and associated computer programming, the Compensation Board released revised figures for the number of state-responsible inmates held in jails during the period January 2005-June 2015. Figures for the total state-responsible confined population have been revised accordingly and, therefore, are not comparable to those provided in previous offender forecasting reports.

Accuracy of the Forecast Adopted in 2014

The forecast adopted in 2014 projected that the number of confined state-responsible offenders would reach 38,635 by the end of FY2015. At that time, the actual population exceeded the forecast by 126 inmates, or 0.3%.

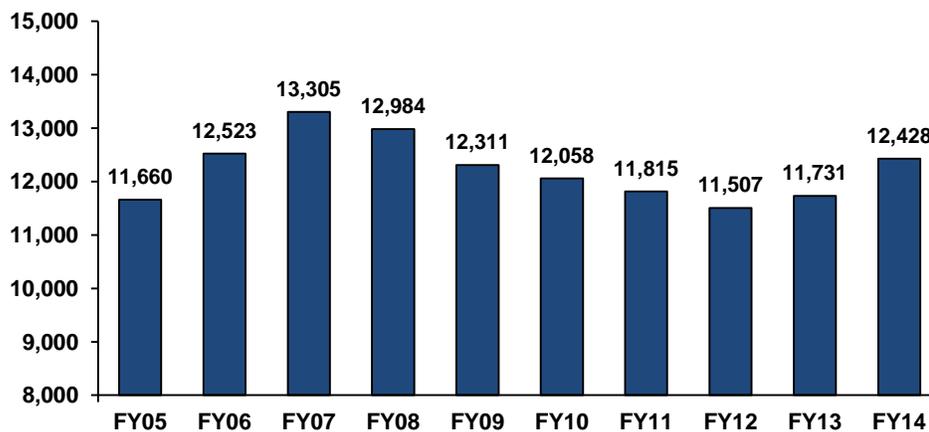
Figure 2
Accuracy of the Adult State-Responsible Confined Population Forecast Adopted in 2014

	Actual	Projected	Difference	Percent
Population on June 30, 2015	38,761	38,635	-126	-0.3%

Factors Affecting the Population

The number of offenders entering the state-responsible confined population each year is a critical factor affecting population growth. The number of state-responsible commitments increased sharply in FY2006 and FY2007 (Figure 3). After peaking in FY2007, the number of new commitments fell each year through FY2012. The drop in commitments during those years is the principal reason for the downward trend in the overall population during that time period. Likewise, the growth in the offender population in FY2013 and FY2014 is due, in large part, by recent increases in the number of offenders committed to the state. New commitments grew by 1.9% and 5.9% in FY2013 and FY2014, respectively. FY2015 commitment data is not yet available.

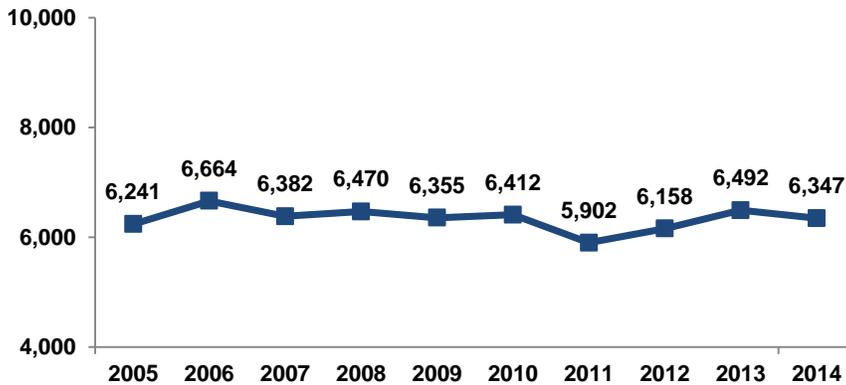
Figure 3
State-Responsible Commitments



There are numerous factors that may have an impact on the number and types of offenders sentenced to a state-responsible term of incarceration. Despite reductions in the crime rate (crimes per 100,000 population) since the early 1990s, the total number of adults arrested in Virginia (based on arrests reported to the Federal Bureau of Investigation) increased from 2005

through 2013. Examining the number and type of arrests can provide some insight into new commitments trends. The number of adults arrested for violent index crimes (murder/non-negligent manslaughter, forcible rape, robbery and aggravated assault) has fluctuated from year to year but has not exhibited an overall trend (Figure 4). Most recently, the number of adults arrested for violent offenses decreased by 2.2% from 2013 to 2014.

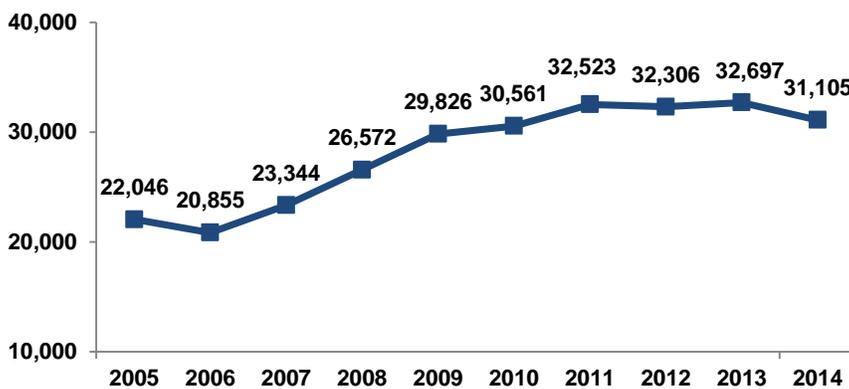
Figure 4
Number of Adult Arrests for Violent Index Crimes in Virginia (by Calendar Year)



Violent index crimes are murder/non-negligent manslaughter, forcible rape, robbery and aggravated assault.

The number of adults arrested for property offenses (burglary, larceny and motor vehicle theft) grew between 2006 and 2011, before leveling off during 2012 and 2013 (Figure 5). In 2014, the number of these arrests declined by 4.9%. Larceny arrests account for the vast majority of arrests for property offenses. A portion of individuals arrested for larceny are charged with, or ultimately convicted of, misdemeanors which, without an accompanying felony, could not result in a state-responsible incarceration term. According to data from the Virginia Criminal Sentencing Commission, the number of sentencing events for felony larceny increased from roughly 5,500 per year during FY2009-FY2011 up to 6,078 in FY2013 and 6,274 in FY2014.

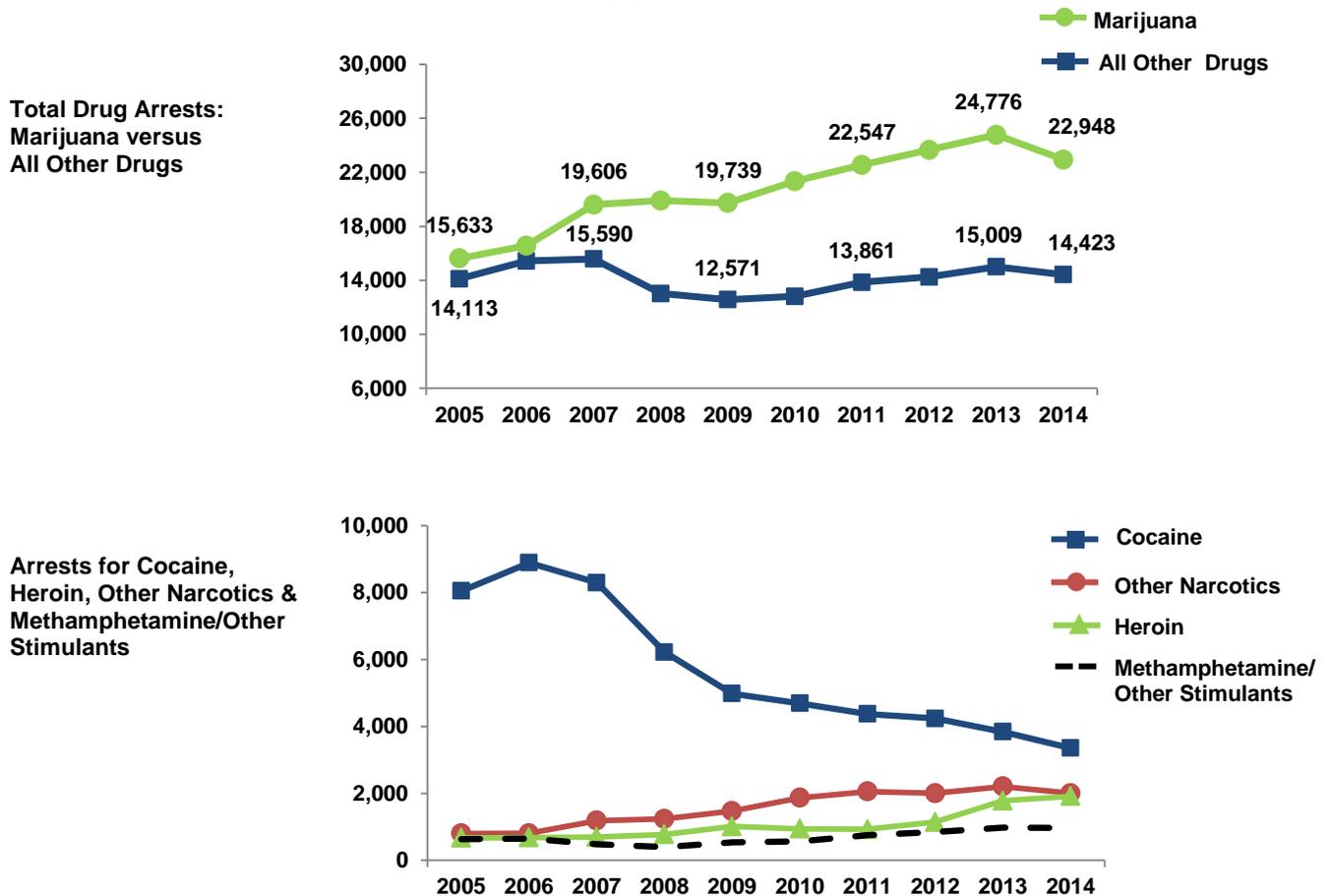
Figure 5
Number of Adults Arrests for Property Index Crimes in Virginia (by Calendar Year)



Property index crimes are burglary, larceny, and motor vehicle theft.

Overall, the number of adults arrested for drug offenses grew from the early 2000s through 2007. In 2008 and 2009, Virginia experienced a decline in the number of drug arrests. These decreases were largely attributable to substantial reductions in persons arrested for cocaine offenses. Federal data suggest reduced availability of cocaine in the United States during that time. Law enforcement efforts (e.g., seizures, crop eradication, and border security) and the drug war in Mexico appear to have impacted the ability of traffickers to deliver drugs to the U.S. During 2010 through 2013, however, the rate of decline in cocaine arrests slowed and the total number of drug arrests rose. Much of the increase during this period was associated with larger numbers of marijuana arrests (Figure 6 upper panel). The vast majority of marijuana arrests are for misdemeanor-level offenses for which an offender could not receive a prison sentence unless also convicted of a felony. In contrast, many of the arrests involving drugs other than marijuana are for felony-level offenses. For example, possession of cocaine, heroin, methamphetamine or other Schedule I or II drug is a Class 5 felony in Virginia. While cocaine arrests continued to fall, arrests for other Schedule I or II drugs increased during 2010-2013 (Figure 6 lower panel). In 2014, arrests dropped for all drugs except heroin (Figure 6 upper and lower panels). Due to court case processing times, this decrease in arrests will not significantly impact state-responsible commitments until after 2014.

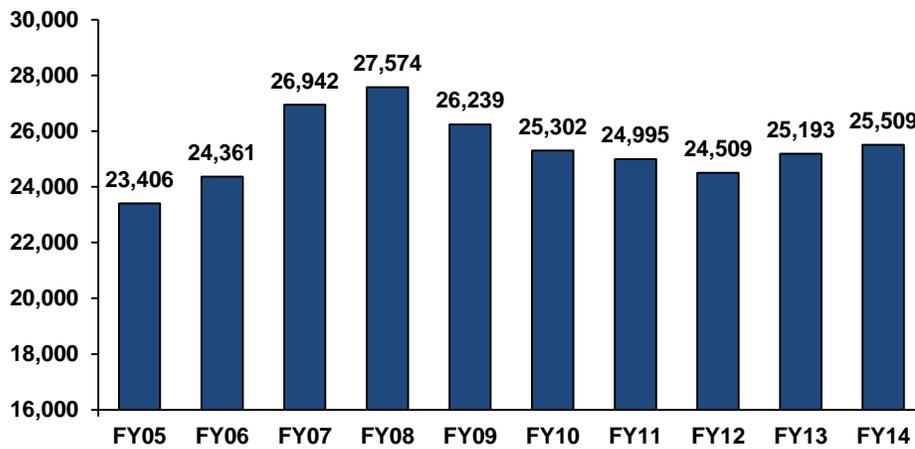
Figure 6
Number of Adult Arrests for Drug Crimes in Virginia (by Calendar Year)



Other Narcotics include opiates other than heroin, along with morphine and other drugs that dull the senses and may become addictive after prolonged use.

Offenders convicted of felonies are sentenced in Virginia’s circuit courts. According to the Virginia Criminal Sentencing Commission, the number of felony sentencing events declined after FY2008, which contributed to the downturn observed in commitments to the Department of Corrections. After peaking in FY2008, the number of felony sentencing events fell each year through FY2012 (Figure 7). In contrast, felony sentencing events increased by 2.8% in FY2013, which was followed by a 1.3% increase in FY2014. These increases in felony sentencing events correspond with the higher number of new commitments recorded during those years. While FY2015 new commitment data are not available from DOC, preliminary data from the Sentencing Commission suggest felony sentencing events will likely decline in FY2015 (reflecting the decrease in adults arrests recorded in 2014).

**Figure 7
Felony Sentencing Events in Circuit Court**

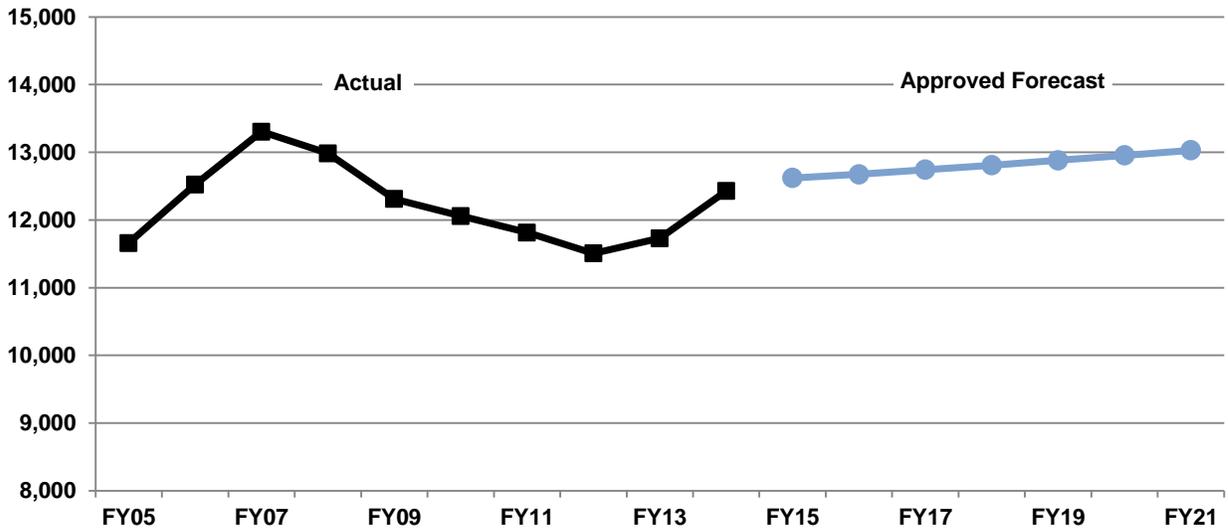


New Commitment Forecast

As noted previously, the number of commitments to DOC each year is a critical factor affecting population growth. To aid in the development of the population forecast, analysts first develop a projection of future state-responsible commitments. The commitment forecast is the total of six separate commitment forecasts based on gender and the type of offense for which the offender is committed to prison. Generating commitment forecasts by gender and offense type can account for differences in short and long-term trends across categories. New commitment forecasts are developed using statistical time-series forecasting techniques. These are described in the *Forecasting Methodologies* section of this report.

Based on the forecasts approved by the Secretary’s Policy Committee, the 5.9% growth in new commitments recorded in FY2014 is not expected to continue into the forecast horizon. New commitments are expected to increase by 1.5% in FY2015, followed by an average annual growth of 0.5% annually through FY2021 (Figure 8). This new commitment forecast is higher than the forecast approved last year. Comparing the two projections, the forecast adopted this year is higher than the previous forecast by an average of 550 commitments each year.

Figure 8
Forecast of State-Responsible New Commitments



Actual:	Year	Commitments	Change
	FY08	12,984	-2.4%
	FY09	12,311	-5.2%
	FY10	12,058	-2.1%
	FY11	11,815	-2.0%
	FY12	11,507	-2.6%
	FY13	11,731	1.9%
	FY14	12,428	5.9%
	Avg. change		-0.9%

Forecast:	Year	Commitments	Change
	FY15	12,620	1.5%
	FY16	12,676	0.4%
	FY17	12,743	0.5%
	FY18	12,809	0.5%
	FY19	12,881	0.6%
	FY20	12,955	0.6%
	FY21	13,029	0.6%
	Avg. change		0.5%

Assumptions for Department of Corrections' Simulation Model

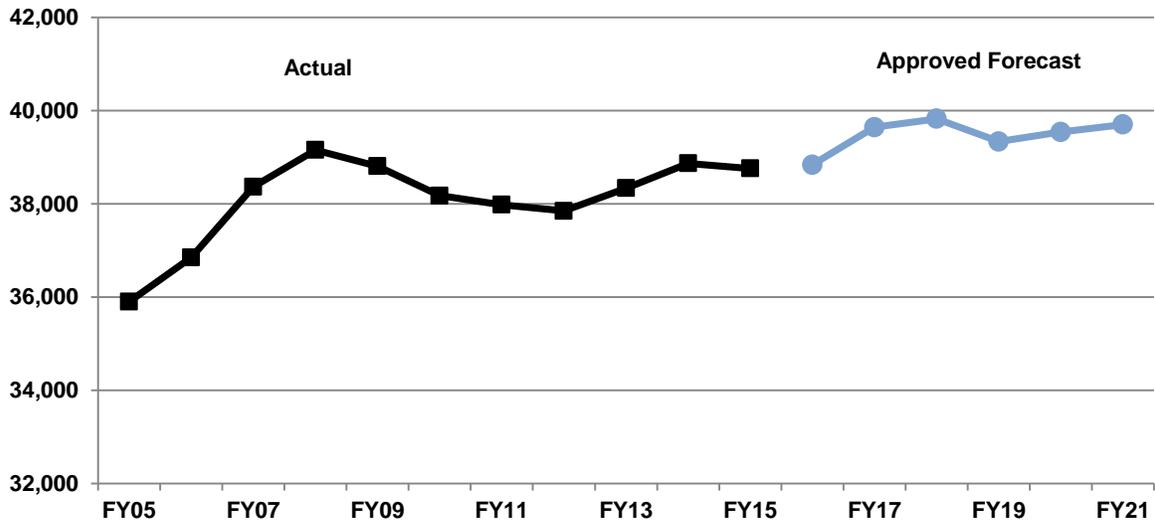
DOC utilizes a computer simulation model to develop its forecast of the adult state-responsible confined population. A description of simulation modeling can be found in the *Forecasting Methodologies* section of this report. Use of simulation forecasting requires several assumptions regarding commitments and releases. The important assumptions incorporated into DOC's simulation model include those listed below.

- The number of future commitments is based on the new commitment forecast approved by the Policy Committee (see above);
- Future commitments will have the same characteristics (e.g., gender, offense type, sentence length) as recent commitments to the Department;
 - Characteristics of future male commitments are based on the most recent 12 months of available data;
 - Characteristics of future female commitments are based on the most recent 24 months of available data (24 months were used due to the smaller number of female commitments and the variability of the data);
- Future parole violator admissions are projected based on the trend observed during the most recent three years of available data (i.e., the average annual change over the last three fiscal years is applied for each year of the forecast horizon);
- Due to declining numbers, characteristics of parole violators, such as length of stay, are based on analysis of five years of data;
- For truth-in-sentencing/no-parole offenders, release dates are computed based on the sentence and the rate at which offenders earn sentence credits;
- For discretionary parole releases, parole grant rates by gender and crime type are based on the most recent year of available data (since release rates have been declining over time);
- For parole-eligible inmates not released by the model to discretionary parole, the release date is assumed to be the offender's mandatory parole release date;
- For indeterminate sentences to DOC's youthful offender program, expected length-of-stay is assumed to be 34.1 months (based on releases of these offenders in FY2015);
- To account for offenders who die in custody, three-year average rates are applied (for male inmates these rates are disaggregated by race and age groups);
- Offenders with sentences of life or death, and offenders given sentences pursuant to § 19.2-297.1 (three-time loser provision), will remain confined throughout forecast horizon and, based on the extremely small numbers sentenced to death since FY2009, no new offenders will enter death row during the six-year forecast period; and
- The proportion of offenders who exit the state-responsible population in other ways (e.g., pardon), and their associated length-of-stay, is based the most recent 12 months of available data.

Forecast of the Adult State-Responsible Confined Population

The Secretary’s Policy Committee examined the state-responsible population forecasts produced by the DOC simulation model and the DPB time series model (see the *Forecasting Methodologies* section of this report for a description of these techniques). The Policy Committee approved DOC’s projection forecast for both the male and female state-responsible offenders. Based upon the approved male and female forecasts, the total inmate population is projected to increase by 1,063 between the end of FY2015 and the end of FY2018 (Figure 9). After a decline in FY2019, the population is expected to begin growing again at a rate of 0.4% to 0.5% annually. By the end of FY2021, the number of state-responsible inmates is expected to reach 39,702.

Figure 9
Adult State-Responsible Confined Population Forecast (for June 30 of each year)



Actual:	Year	Population	Change	Forecast:	Year	Population	Change
	FY10	38,178	-1.6%		FY16	38,840	0.2%
	FY11	37,983	-0.5%		FY17	39,646	2.1%
	FY12	37,849	-0.4%		FY18	39,825	0.5%
	FY13	38,339	1.3%		FY19	39,338	-1.2%
	FY14	38,871	1.4%		FY20	39,544	0.5%
	FY15	38,761	-0.3%		FY21	39,702	0.4%
	Avg. change		0.0%		Avg. change		0.4%

The forecast is slightly lower than the forecast presented to the Governor and General Assembly last year (Figure 10), despite this year’s higher new commitment forecast. This is driven primarily by different rates of growth expected among commitments by offense type. The new commitment forecast projects higher rate of growth in offenders committed for property and drug offenses (i.e., offenders with shorter lengths-of-stay who will move through the system faster) relative to offenders committed for violent offenses (i.e., those with longer lengths-of-stay).

Figure 10
Comparison of 2014 and 2015 Forecasts of the
Adult State-Responsible Confined Population

Year	2014 Forecast	2015 Forecast
FY2015	38,635	
FY2016	39,427	38,840
FY2017	39,768	39,646
FY2018	39,440	39,825
FY2019	39,554	39,338
FY2020	39,666	39,544
FY2021		39,702

Figures represent the population on June 30 of each year.

The state-responsible population forecast is disaggregated by gender below (Figure 11). Between FY2010 and FY2015, the number of females in the state-responsible population grew by 17.1%, compared to a 0.3% increase in the number of state-responsible males during that same time period. Based on the approved forecast, the females will continue to grow faster than their male counterparts. During FY2016 through FY2021, the male population is expected to grow at an average rate of 0.3% annually, compared to the 1.9% average annual growth for the female population.

Figure 11
Adult State-Responsible Confined Population by Gender
(for June 30 of each year)

Year	Males	Change
FY16	35,515	0.2%
FY17	36,116	1.7%
FY18	36,203	0.2%
FY19	35,712	-1.4%
FY20	35,862	0.4%
FY21	36,003	0.4%

Projected average growth
 FY2016 – FY2021: 0.3%

Year	Females	Change
FY16	3,325	0.8%
FY17	3,530	6.2%
FY18	3,622	2.6%
FY19	3,626	0.1%
FY20	3,682	1.5%
FY21	3,699	0.5%

Projected average growth
 FY2016 – FY2021: 1.9%

As required by Item 376 of Chapter 665 of the 2015 Acts of Assembly, the forecast has been disaggregated to identify the number of probation violators within the overall population who may be appropriate for punishment via alternative sanctions. By the end of FY2021, it is projected that the state-responsible population will include 1,776 technical probation violators (Figure 12 below). Technical violators are offenders who violated the rules of probation but have not been convicted of a new crime. This forecast is approximately 460 higher than the forecast presented last year. However, the forecast should be considered a maximum, as DOC will continue to analyze this subpopulation. As the criminal history repository is updated with new conviction information, the proportion of violators identified as technical violators (i.e., those with no new convictions) may decrease.

Based on previous study, DOC has estimated that 53% of technical violators with a state-responsible sentence may be suitable for alternative sanctions such as its detention and diversion center programs. DOC concluded that approximately 47% of technical violators entering DOC are likely not good candidates for such alternatives due to convictions for violent offenses (22%), mental health issues (15%), or medical conditions (10%).

Figure 12
Technical Probation Violator Population Forecast

Year	Forecast
FY16	1,739
FY17	1,805
FY18	1,785
FY19	1,733
FY20	1,775
FY21	1,776

The Technical Probation Violator forecast is a subgroup of, and not in addition to, the State-Responsible Inmate Forecast.

Adult Local-Responsible Jail Population

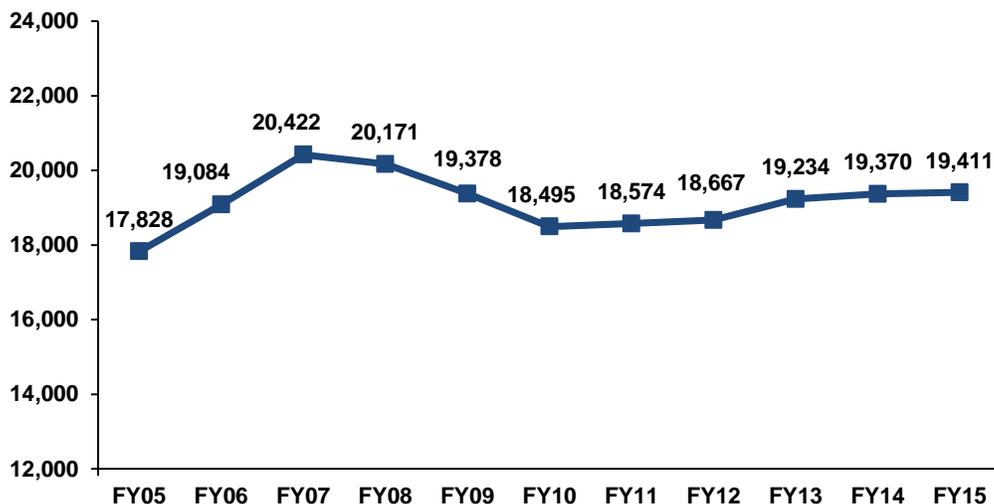
The adult local-responsible jail population is defined as the number of persons confined in local and regional jails across the Commonwealth, excluding state and federal inmates and ordinance violators. Because jail populations fluctuate daily (with higher numbers on weekends) and seasonally (with peaks during late summer and early fall and lows during the winter months), the average daily population traditionally is used for reporting and forecasting purposes.

Based on improvements in the LIDS-CORIS data system and associated computer programming, the Compensation Board released revised figures for the local-responsible jail population for the period January 2005-June 2015. Therefore, the figures in this report are not comparable to those provided in previous offender forecasting reports.

Population Change

Following substantial growth in FY2006 and FY2007, the average local-responsible jail population declined each succeeding year through FY2010 (Figure 13). From FY2011 through FY2015, the population rose slowly, growing by an average of less than 1% annually over the last five years. While the local-responsible jail population increased by 0.2% in FY2015, the population did not exhibit its typical seasonal pattern over the course of the year. During March through June of 2015, the population remained close to its winter lows. This was significantly lower than expected given the seasonal patterns usually observed (population increases during the spring/summer with peaks during late summer and early fall). This has had an impact on this year's forecast because it represents a lower "jumping off" point for the projection models than would have been expected.

Figure 13
Adult Local-Responsible Jail Population (Fiscal Year Average)



Based on improvements in the LIDS-CORIS data system and associated computer programming, the Compensation Board released revised figures for the local-responsible jail population for the period January 2005-June 2015. Therefore, the figures in this report are not comparable to those provided in previous offender forecasting reports.

Accuracy of the Forecast Adopted in 2014

Under the forecast adopted in 2014, the local-responsible jail population was projected to increase to an average of 20,458 for FY2015 (Figure 14). The forecast was higher than the actual population by 1,047 individuals, or 5.4%. As noted above, the local-responsible jail population figures have been revised. New jail population figures are lower than the previously-available data used for the 2014 forecasting process. Also, as noted above, the local-responsible jail population did not exhibit the typical seasonal patterns during FY2015. Instead of returning to higher population levels during the summer and early fall, the population remained near winter lows through June 2015.

Figure 14
Accuracy of the Adult Local-Responsible Jail Population Forecast
Adopted in 2014

	Actual	Projected	Difference	Percent
FY2015 Average Population	19,411	20,458	1,047	5.4%

Factors Affecting the Population

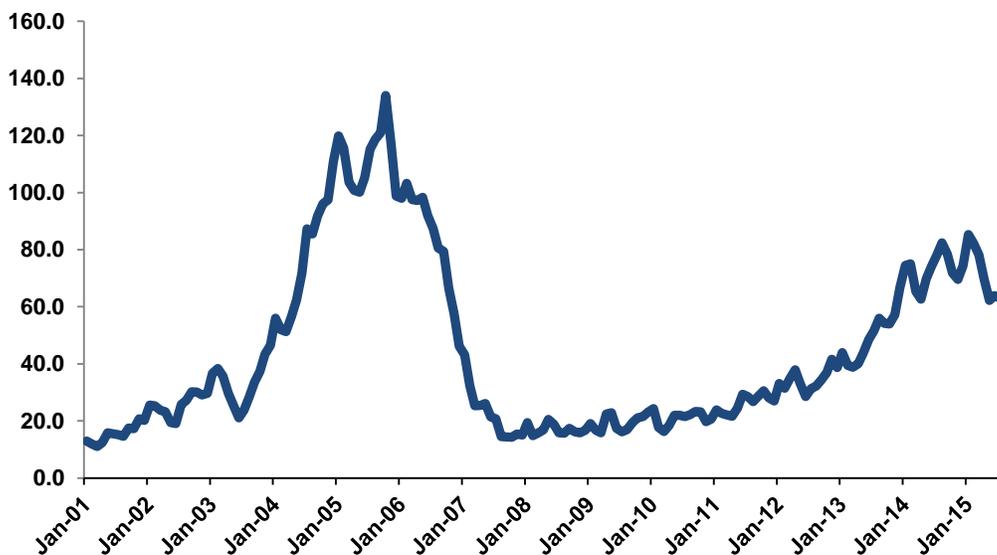
Numerous factors have an impact on the local-responsible jail population, such as arrests, bail release decisions, case processing time in the courts (which affects the time served awaiting trial), and lengths-of-stay for convicted offenders serving a sentence.

Despite reductions in the crime rate (crimes per 100,000 population) since the early 1990s, the total number of adult arrests in Virginia (based on arrests reported to the Federal Bureau of Investigation) had been climbing from 2007 through 2013. In 2014, the number of adults arrested declined across all three offense categories (violent, property and drug). Shifts in arrest patterns, both in number and types of arrests, can have a significant impact on the local-responsible population, including individuals in the awaiting trial and the number of sentenced offenders in jail. The number of adults arrested for violent index crimes (murder/non-negligent manslaughter, forcible rape, robbery and aggravated assault) has fluctuated from year to year but has not exhibited an overall trend. Most recently, the number of adults arrested for violent offenses decreased by 2.2% from 2013 to 2014. The number of adults arrested for property offenses (burglary, larceny and motor vehicle theft) grew between 2006 and 2011, before leveling off during 2012 and 2013 (Figure 5). In 2014, the number of these arrests declined by 4.9%. The number of arrests for drug offenses increased more than 43% between 2002 and 2007. In 2008 and 2009, Virginia experienced a decline in drug arrests. Data reveal that this dramatic shift was driven by a steep drop in arrests for cocaine offenses, which have fallen by 62% since 2006. Federal data suggest reduced availability of cocaine in the U.S. today compared to 2006. However, the rate of decline in cocaine arrests has slowed. The total number of drug arrests has been rising since 2010 due to increases in arrests for marijuana, heroin and other drugs. For example, between 2009 and 2013, arrests for heroin grew by 76%, while arrests for methamphetamine and other stimulants drugs together increased by 83%. Marijuana arrests have significantly increased since 2006, although most marijuana charges are misdemeanors for which a relatively small percentage of offenders are confined in jail.

One factor that almost certainly has had an impact on the awaiting trial population in the last ten years is the backlog of drug cases awaiting analysis at the Department of Forensic Science (DFS). Beginning in 2003, the average number of days to complete a drug analysis rose sharply (Figure 15). The backlog is suspected to have resulted in delays in criminal case processing for those offenders charged with drug crimes. The effect of these delays could be seen in the dramatic rise from FY2004 through FY2007 in the number of persons in jail awaiting trial and those in jail with additional charges pending. Once given additional resources, DFS was able to swiftly reduce the backlog of drug cases. With analysis for thousands of drug cases completed, a large number of open court cases could be concluded and the offenders convicted and sentenced. Consequently, the number of offenders in jail awaiting trial declined and several categories of sentenced offenders increased through FY2008.

Since FY2013, the average number of days to complete a drug analysis has been increasing and the drug case backlog has been rising once again. DFS has indicated that there are several reasons for this. The number of non-marijuana drug samples submitted to the Department has been increasing recently and many of the samples involve chemically complex drugs that take longer to analyze. Moreover, the 2009 U.S. Supreme Court decision in Melendez-Diaz has had a long-term impact on the agency. In the Melendez-Diaz case, the Supreme Court ruled that a forensic analyst generally must testify in person, unless waived by the defendant. This has required DFS analysts to spend additional time in court, decreasing time spent in the lab. Finally, when DFS hires new analysts, the training and certification process takes many months; thus, new analysts are not available to take on the more complex types of cases for quite some time.

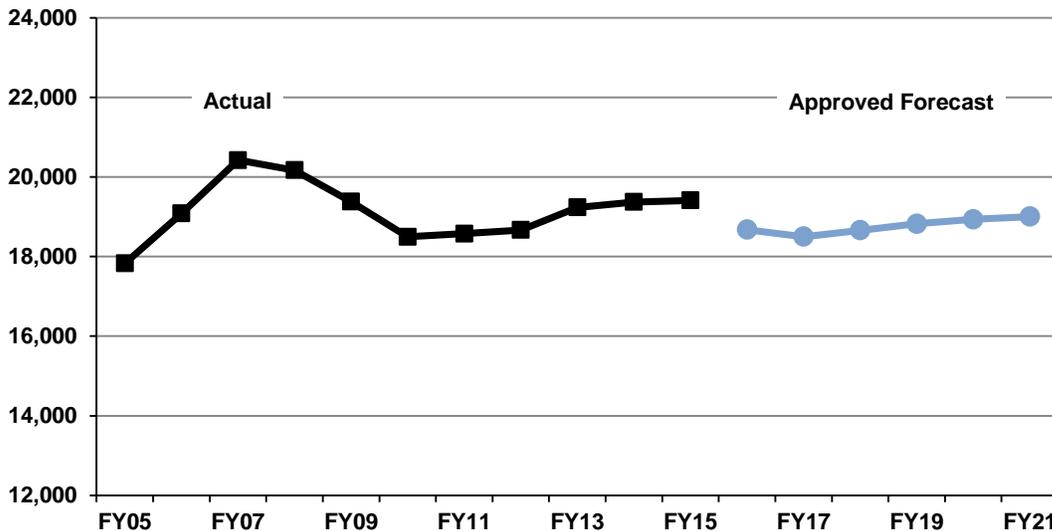
Figure 15
Department of Forensic Science
Average Days to Complete Drug Analysis



Forecast of the Adult Local-Responsible Jail Population

Forecasts of the local-responsible jail population were produced by the Department of Criminal Justice Services (DCJS) and DPB. Both agencies used time series techniques to forecast this population (time series forecasting techniques are described in the *Forecasting Methodologies* section of this report). After carefully scrutinizing both proposed local-responsible jail forecasts, the Technical Advisory Committee and the Work Group recommended the DCJS model because it yielded a slightly better fit to the historical data. The Policy Committee approved this forecast. The local-responsible jail population is projected to decline from an average of 19,411 in FY2015 to 18,501 in FY2017. While the fiscal year average for FY2015 was 19,411, the population averaged 18,726 for the month of June 2015 (which was more than 900 below the June 2014 population). Thus, the “jumping off” point for the forecast was well below the average for the fiscal year. Beginning in FY2018, the population is projected to increase slowly, at less than 1% per year, to an average of 19,002 in FY2021 (Figure 16).

Figure 16
Local-Responsible Jail Population Forecast (Fiscal Year Average)



Actual:	Year	Population	Change	Forecast:	Year	Population	Change
	FY10	18,495	-4.6%		FY16	18,675	-3.8%
	FY11	18,577	0.4%		FY17	18,501	-0.9%
	FY12	18,667	0.5%		FY18	18,660	0.9%
	FY13	19,234	3.0%		FY19	18,825	0.9%
	FY14	19,370	0.7%		FY20	18,937	0.6%
	FY15	19,411	0.2%		FY21	19,002	0.3%
	Avg. change		0.0%		Avg. change		-0.3%

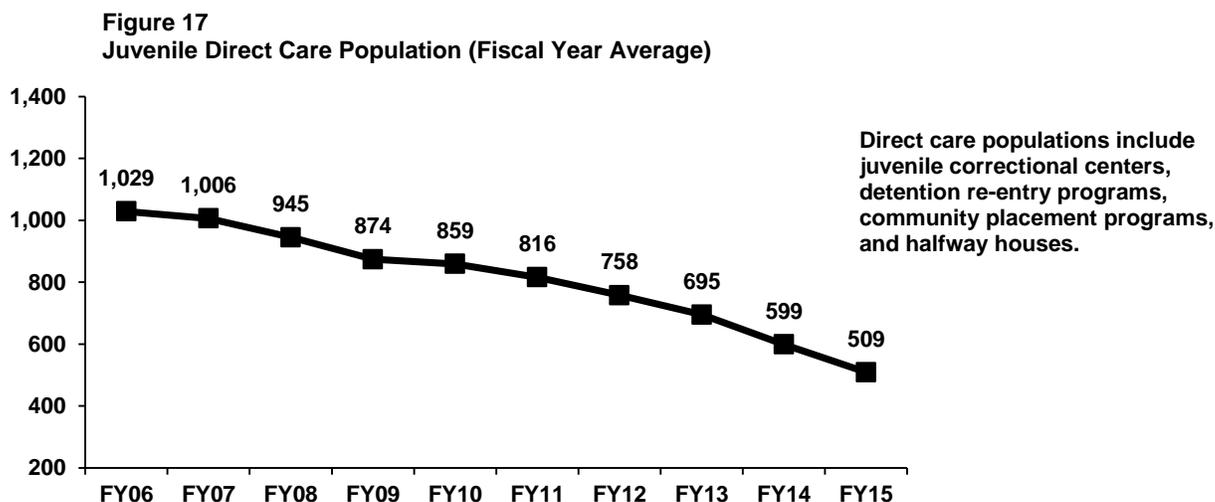
Figures represent the average population for each fiscal year.

Juvenile Direct Care Population

Juvenile state-responsible offenders are committed by a court to Virginia's Department of Juvenile Justice (DJJ). They are housed in juvenile correctional facilities around the state or they are placed in re-entry, community placement, or halfway house programs²; collectively, these make up DJJ's direct care population. Virginia's juvenile justice system differs substantially from the adult system. While Virginia has moved to a more determinate sentencing system for its adult offenders, dispositions involving commitment in the juvenile justice system remain largely indeterminate. Approximately 84% of commitment orders for the DJJ in FY2015 called for an indeterminate sentence.³ This means that the DJJ, rather than a judge, determines the length of the juvenile's commitment. The courts commit a smaller percentage of juvenile offenders to DJJ with a determinate, or fixed length, sentence; a juvenile given a determinate commitment may be reviewed by the judge at a later date and may be released at the judge's discretion prior to serving the entire term. In Virginia, juveniles tried and convicted as adults in circuit court may also be committed to DJJ, at the judge's discretion.

Population Change

The juvenile direct care population has been declining since FY2000. The population fell from an average of 758 juveniles in FY2012 to an average of 695 juveniles in FY2013, a decrease of 8.3% (Figure 17). In FY2014 and FY2015, the downward trend accelerated and the population decreased by 13.8% and 15.1%, respectively. For FY2015, the average population was 509 juveniles.



² DJJ operated halfway houses for the direct care population beginning in July 2012. Due to budget reductions, the halfway houses were closed in January 2014.

³ In FY15, 84% of the commitment orders for DJJ received indeterminate sentences. A juvenile may have more than one commitment order. In FY14, 68% of juveniles committed to the DJJ received indeterminate sentences only (this excludes any juveniles that had indeterminate and determinate sentences or indeterminate and blended sentences; it is strictly an indeterminate sentence).

Accuracy of the Forecast Adopted in 2014

The juvenile direct care population forecast adopted in 2014 was very accurate overall during FY2015 (Figure 18). The previous forecast had projected a decline in the population; however, the population did not decrease as much as had been anticipated based on the forecast. For FY2015, the average population was 11 juveniles (or 2.2%) higher than the forecast.

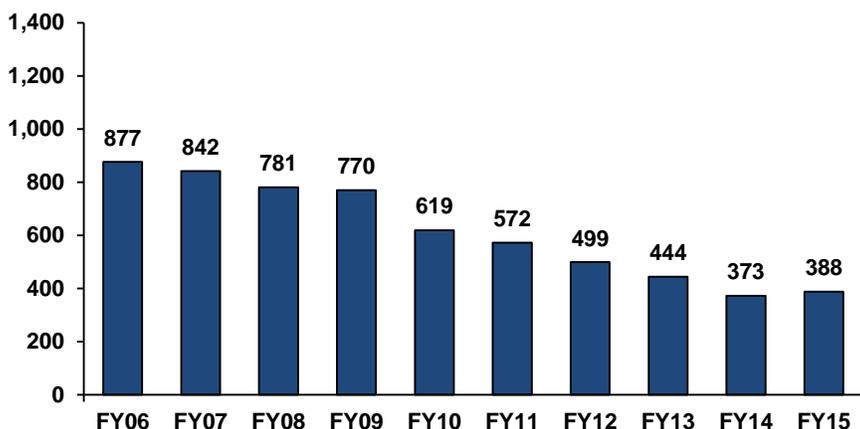
Figure 18
Accuracy of the Juvenile Correctional Center/Direct Care Population Forecast
Adopted in 2014

	Actual	Projected	Difference	Percent
FY2015 Average Population	509	498	-11	-2.2%

Factors Affecting the Population

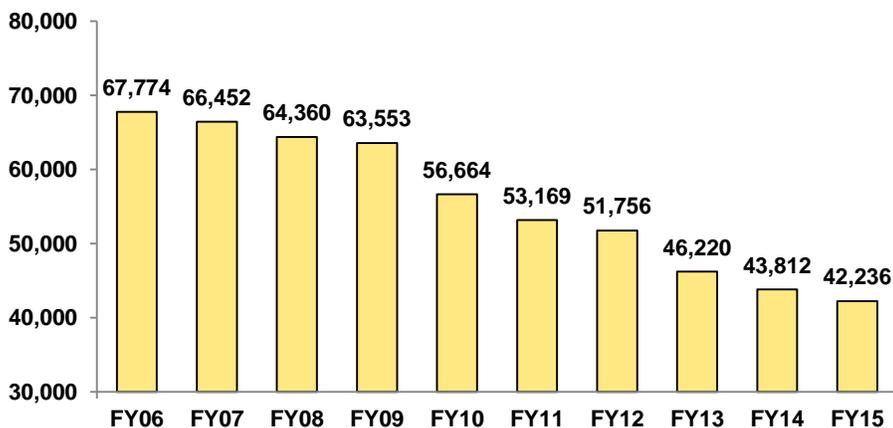
The number of juveniles in DJJ correctional centers, which accounts for the majority of the Department's total direct care population, has been declining (Figure 19). The decline has largely been driven by a decrease in the number of admissions. There have been several statutory and policy changes related to juvenile offenders. The General Assembly changed the minimum criteria for a juvenile to be committed to DJJ (from a felony or two Class 1 misdemeanor adjudications to a felony or four Class 1 misdemeanor adjudications) beginning July 1, 2000. In 2002, the General Assembly required DJJ to establish objective guidelines for use by intake officers when deciding whether to place a juvenile in a juvenile detention home at intake. In 2004, DJJ successfully implemented, statewide, the use of the Detention Assessment Instrument (DAI), a validated detention screening tool. In 2004, the General Assembly afforded juveniles the right to counsel in their initial detention hearing. The legislation also provided that, when a juvenile is not detained, but is alleged to have committed an offense that would be a felony if committed by an adult, that juvenile may waive his right to an attorney only after he or she consults with an attorney. Additionally, in 2004 and 2009, the *Code of Virginia* was amended to expand the use of diversion by intake officers by allowing intake officers greater discretion to divert lesser offenses such as any misdemeanors, child in need of services, and child in need of supervision offenses from going to court. These policy changes, alone, however, cannot explain the trend in admissions that persisted through FY2014. Between FY2006 and FY2014, yearly admissions to the Department of Juvenile Justice dropped by 57%. In FY2015, the number of admissions increased for the first time in 15 years. It is unclear if this indicates a leveling off in admissions or if this is simply a temporary tick up that will be followed by a continuation in the overall downward. Data from DJJ indicates that the increase in admissions for FY2015 is largely attributable to two months during the year in which admissions were unusually high; the remaining months of the year were roughly the same, if not lower, than the same month of the previous year. The Technical Advisory Committee will continue to monitor admissions throughout the coming year.

Figure 19
Admissions to the Department of Juvenile Justice



The state’s Court Services Units serve as the point of entry into the juvenile justice system. An “intake” occurs when a juvenile is brought before a court services unit officer for one or more alleged law violations. DJJ data reveal that the total number of juvenile intake cases has been falling over the last decade (Figure 20). Between FY2006 and FY2015, intake cases at Court Services Units declined by nearly 38%.

Figure 20
Juvenile Intake Cases at Court Services Units



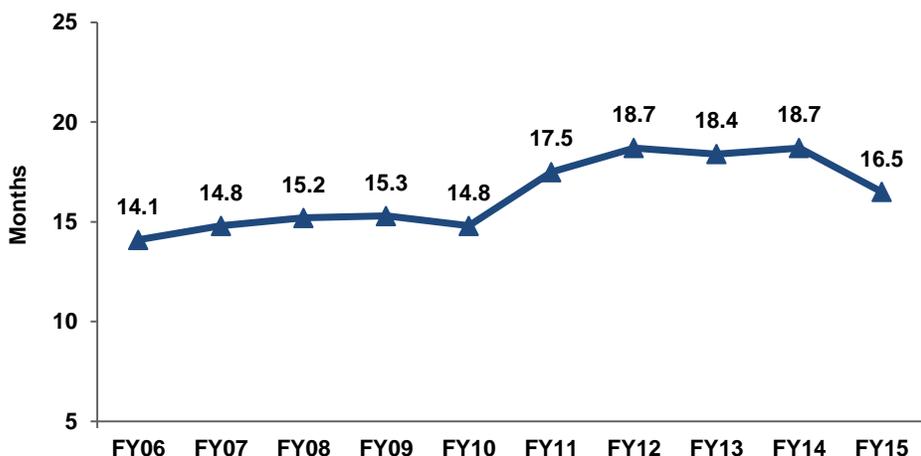
DJJ procedures and practices may have affected intakes and admissions. DJJ has implemented approaches that include the use of validated, structured decision making tools in numerous aspects of community and facility operations. Critical decision points include the initial decision to detain, the assignment to various levels of community probation or parole supervision, and the classification of committed juveniles within the facility setting. Tools include the DAI described above, a court services unit risk assessment instrument, and the juvenile correction center classification instrument. The DAI is designed to enhance consistency and equity in the detention decision and to ensure that only those juveniles who represent a

serious threat to public safety and those most at risk for failing to appear in court are held in secure pre-trial detention. In 2008, DJJ began the process of implementing an enhanced risk/needs assessment tool, called the Youth Assessment & Screening Instrument (YASI), in the Court Services Units. Finally, DJJ has implemented policies to address juvenile probation and parole violators. The goal is to enhance consistency and equity in the handling of violators and to ensure that only those juveniles who represent a serious threat to public safety are confined.

The composition of commitments to DJJ has continued to change as well. Many less serious juvenile offenders are no longer committed to DJJ. Thus, juveniles with longer commitment terms now make up a larger share of those received by DJJ. There are three categories of juvenile commitments: indeterminate commitments, determinate commitments, and blended sentences. For a juvenile with an indeterminate commitment, DJJ determines how long the juvenile will remain in direct care, up to 36 months for most offenses. These juveniles are assigned a length-of-stay range based on guidelines. Length-of-stay guidelines in use through October 2015 considered the juvenile's current committing offenses, prior offenses, and length of prior delinquency or criminal offense record. In FY2015, the most common assigned length-of-stay categories for court-ordered indeterminate commitments were 6-9 months and 6-12 months. Failure to complete a mandatory or recommended treatment program, such as substance abuse or sex offender treatment, or the commission of institutional offenses, could prolong the actual length of stay beyond the assigned range. For a juvenile given a determinate commitment to DJJ, the judge sets the commitment period to be served (up to age 21), although the juvenile can be released at the judge's discretion prior to serving the entire term. Nonetheless, determinately-committed juveniles remain in DJJ facilities longer, on average, than juveniles with indeterminate commitments to DJJ. The average assigned-of-stay for a court-ordered determinate sentence to DJJ is approximately 39 to 42 months. Finally, a juvenile given a blended sentence can serve up to age 21 at a DJJ facility before being transferred to DOC to serve the remainder of his term in an adult facility. One juvenile may be subject to more than one commitment order and type of commitment order. Compared to FY2004, the percentage of commitment orders for determinate commitments and blended sentences now make up a larger share of admissions. Together, orders for these two commitment types increased from roughly 10% of the total in FY2004 to as high as 19% in FY2010. In FY2015, determinate commitments and blended sentences accounted for 16% of commitment orders received by DJJ.

Along with admissions, actual length-of-stay is a critical factor affecting the direct care population. In FY2014, the average length-of-stay was 18.7 months, compared to 14.1 months in FY2006 (Figure 21). Average length-of-stay decreased to 16.5 months in FY2015. The drop in length-of-stay in FY2015 was the primary driver of the population decline during the year.

Figure 21
Average Length-of-Stay in the Juvenile Direct Care Population (in months)



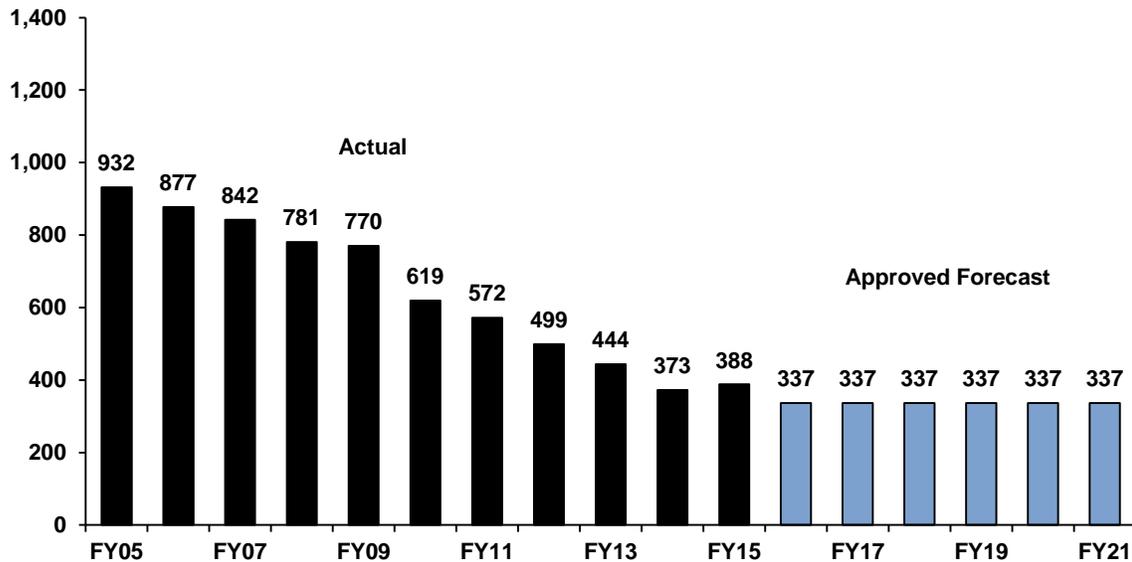
In 2015, the Juvenile Justice Advisory Board approved a change in the length-of-stay guidelines proposed by the Department. It is expected that the new length-of-stay guidelines, which took effect on October 15, 2015, will result in shorter lengths-of-stay for most juveniles committed to DJJ. Whereas the previous length-of-stay guidelines used committing offenses, prior offenses, and length of prior delinquency or criminal offense record, the new guidelines are based on the most serious committing offense and the juvenile’s risk level, as determined by the YASI (Youth Assessment and Screening Instrument). The YASI includes information on the juvenile’s contacts with the criminal justice system. In addition, the highest range of the new length-of-stay guidelines is 9 to 15 months, compared to a high-end range of 24 to 36 months under the previous length-of-stay guidelines. Actual length-of-stay will continue to depend upon the juvenile's completion of mandatory or recommended treatment objectives, such as substance abuse or sex offender treatment, and the juvenile's behavior within the facility.

New Admissions Forecast

The admissions forecast is one of the key inputs into DJJ’s simulation model. Given the long-term downward trend in juvenile admissions, statistical models based on historical data are not useful tools in projecting future admissions because the models will continue the downward trend to zero, which is not a realistic assumption for future admissions to DJJ. As in previous years, the Policy Committee concluded that the decrease in admissions will not continue indefinitely. In four of the last eight years, the Policy Committee elected not to use the statistical forecast of juvenile admissions and instead set a level admissions forecast equal to the number of actual admissions during the most recent fiscal year. In the other years, the Policy Committee utilized the statistical projection for the early years of the forecast horizon and then assumed a flat admissions forecast for the remaining years of the forecast period.

Members of the Policy Committee discussed multiple admissions scenarios for this year’s forecast. The Technical Advisory Committee had recommended a flat forecast of 373 admissions (the FY2014 figure) throughout the forecast period. The number of admissions in FY2015 was not used, as the increase in admissions observed in FY2015 may be temporary and not continue during the six years of the forecast period. Members of the Policy Committee suggested a forecast of 337 admissions. This is an average of the actual number of admissions in FY2014 (373) and the forecasted number of admissions for FY2016 based on DJJ’s statistical model (302). DJJ’s Director suggested using 302 as the six-year admissions forecast. The Policy Committee representative from DPB expressed concern that these latter forecasts of admissions (337 and 302) would prove to be too low and recommended that a flat forecast of 373 be used. While there was not agreement among all members, a majority of the Committee members supported a flat forecast of 337 admissions per year throughout the forecast horizon (Figure 22).

Figure 22
Juvenile Direct Care Admissions Forecast



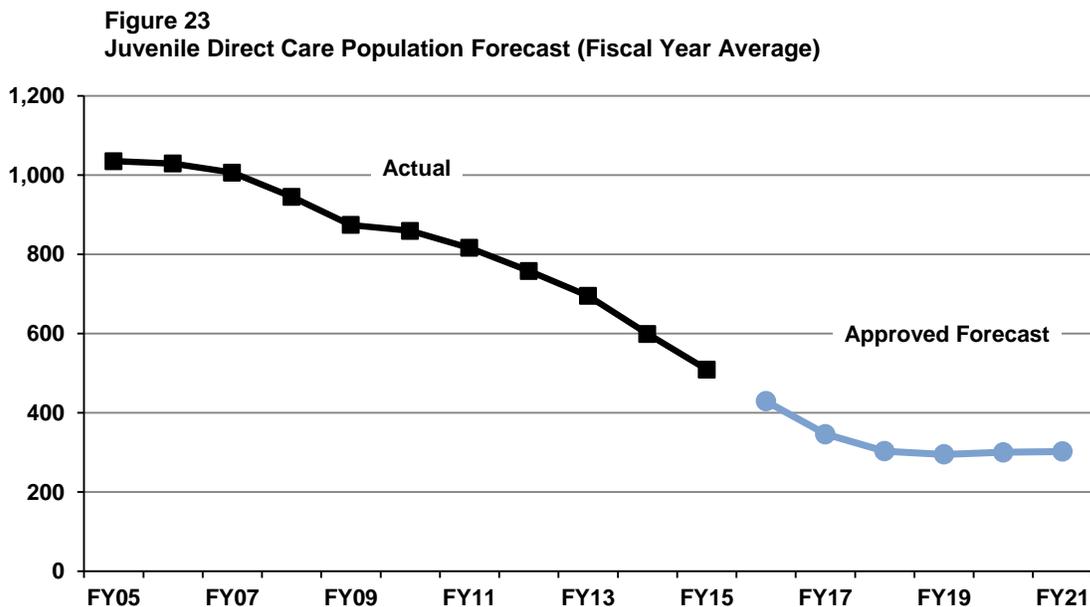
Assumptions for Department of Juvenile Justice's Simulation Model

DJJ utilizes a computer simulation model to develop its forecast of the juvenile direct population. A description of simulation modeling can be found in the *Forecasting Methodologies* section of this report. Use of simulation forecasting requires several assumptions regarding commitments and releases. Following are the important assumptions incorporated into DJJ's simulation model.

- The number of future admissions will reflect the admissions forecast approved by the Policy Committee (see below);
- Future admissions will have the same characteristics (e.g., offenses, prior record adjudications, treatment assignment, institutional offenses, etc.) as admissions during FY2013-FY2015 (three-year average);
- Juveniles given a determinate commitment or blended sentence will comprise the same percentage of admissions as they did during FY2013-FY2015 (three-year average).
- Juveniles assigned to the DJJ's mandatory sex offender program will comprise the same percentage of admissions as they did during FY2013-FY2015 (three-year average);
- Through October 2015, juveniles with indeterminate commitments will be assigned to length-of-stay categories (using the length-of-stay guidelines in effect until that time) in the same proportions as admissions during FY2013-FY2015 (three-year average);
- Beginning in November 2015, juveniles with indeterminate commitments will be assigned length-of-stay categories according to DJJ's new length-of-stay guidelines;
 - Based on FY2013-FY2015 admissions characteristics, future admissions will be assigned to one of the new length-of-stay categories;
- Because it is not known how long juveniles will actually serve under the new guidelines, DJJ examined historical data to determine how long juveniles in each length-of-stay category actually served under the previous guidelines, and applied that proportion to the juveniles assigned to the new length-of-stay categories.

Juvenile Direct Care Population Forecast

The Policy Committee examined the juvenile direct care population forecasts produced by the DJJ simulation model and the DPB time series model (see the *Forecasting Methodologies* section of this report for a description of these techniques). After reviewing both the DJJ and DPB population projections in detail, the Policy Committee approved the DJJ simulation model forecast. However, DPB’s projection was comparable to DJJ’s. The approved forecast suggests that the population will continue to decline in the short term (Figure 23). The forecast projects a decrease through FY2019, when the population is expected to reach 295 juveniles. Beginning in FY2019, however, the population is expected to level off. This leveling can be attributed to the flat admissions forecast. By FY2021, the total juvenile correctional center/direct care population is projected to be 302. This forecast is roughly 100 juveniles lower than the forecast submitted to the Governor and General Assembly in 2014.



Actual:	Year	Population	Change	Forecast:	Year	Population	Change
	FY10	859	-1.6%		FY16	429	-15.6%
	FY11	816	-5.0%		FY17	346	-19.3%
	FY12	758	-7.1%		FY18	303	-12.4%
	FY13	695	-8.3%		FY19	295	-2.6%
	FY14	599	-13.8%		FY20	300	1.7%
	FY15	509	-15.1%		FY21	302	0.7%
		Avg. change	-8.5%			Avg. change	-7.2%

Figures represent the average population for each fiscal year.

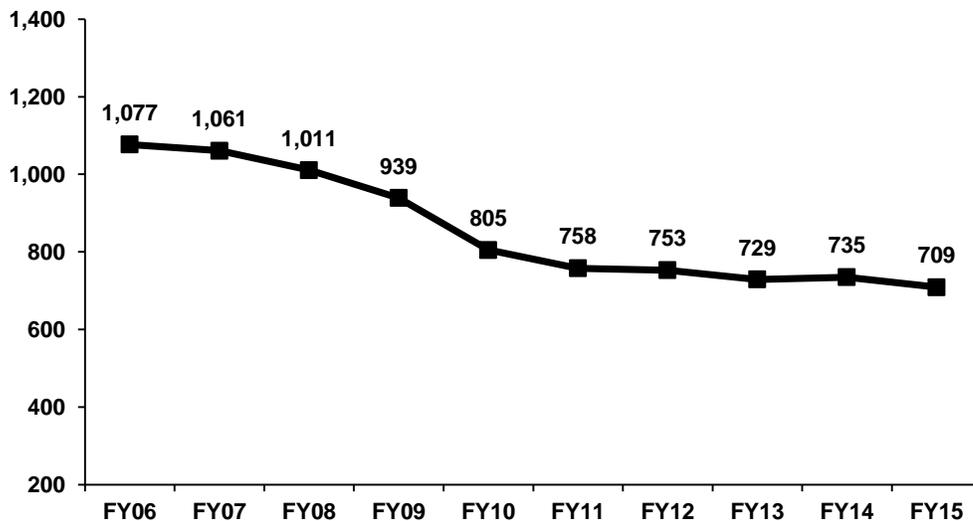
Juvenile Detention Home Population

Local governments or multi-jurisdictional commissions operate secure juvenile detention homes throughout the Commonwealth. The Board of Juvenile Justice promulgates regulations and the Director of the Department of Juvenile Justice is responsible for the certification of these facilities. To be eligible for pre-dispositional detention, there must be probable cause to establish that the juvenile committed a Class 1 misdemeanor or a felony offense. A judge may order a juvenile charged with a felony-level offense or a Class 1 misdemeanor to be held in detention pending adjudication, disposition, or placement. To be eligible for post-dispositional detention, the juvenile must be 14 years or older and been found to have committed a non-violent juvenile felony or Class 1 or Class 2 misdemeanor offense. A judge may order an adjudicated juvenile to be held in post-dispositional detention up to 30 days or, if the juvenile detention home operates a post-dispositional detention program, up to 6 months. Historically, the majority of the juvenile detention home population has been comprised of juveniles in pre-dispositional status.

Population Change

Overall, the juvenile detention home population declined by 34% between FY2006 and FY2015, although the rate of decline slowed after FY2011 and the population even recorded a small increase in FY2014 (Figure 24). In FY2015, the detention home population averaged 709 juveniles statewide. While individual facilities may be experiencing crowding, juvenile detention home capacity statewide has not been fully utilized in recent years.

Figure 24
Juvenile Detention Home Population (Fiscal Year Average)



Accuracy of the Forecast Adopted in 2014

The forecast of the juvenile detention home population adopted in 2014 was fairly accurate throughout FY2015, particularly through the first half of the fiscal year. On average for the year, the forecast was 28 juveniles (or 3.9%) higher than the actual population (Figure 25). The population had been projected to increase slightly from 735 in FY2014 to 737 in FY2015. Instead, the actual population declined by 3.5% during the fiscal year.

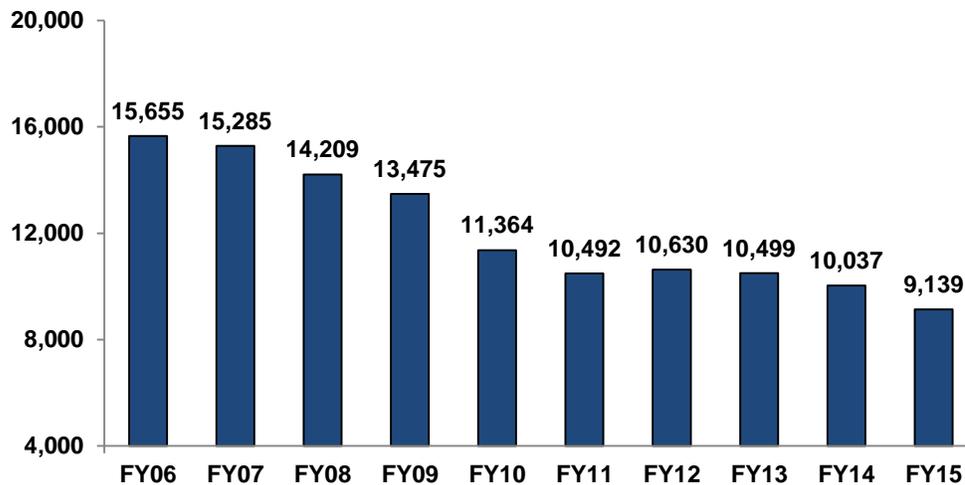
Figure 25
Accuracy of the Juvenile Detention Home Forecast
Adopted in 2014

	Actual	Projected	Difference	Percent
FY2015 Average Population	709	737	28	3.9%

Factors Affecting the Population

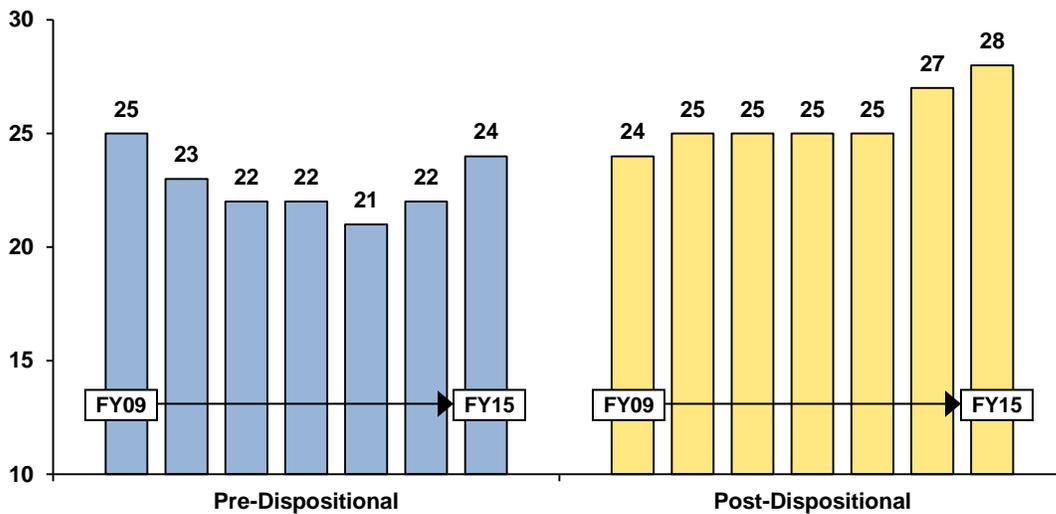
As described in the previous chapter, the number of juvenile intake cases has declined significantly since FY2006. Reflecting this downward trend in intakes, detention home admissions (first-time detainments, excluding transfers) dropped 33% between FY2006 and FY2011 (Figure 26). After remaining relatively flat from FY2011 to FY2013, detainments dropped by 4% in FY2014. This was followed by an 8.9% decrease in detainments in FY2015.

Figure 26
Juvenile Detention Home Admissions –
First-Time Detainments (excluding Transfers)



Shorter lengths-of-stay for a large share of those in juvenile detention homes was an important factor in reducing the population between FY2008 and FY2011, during which time the average length-of-stay for the pre-dispositional juveniles fell from 26 to 22 days (Figure 27). The next year, average pre-dispositional length-of-stay decreased to 21 days. Length-of-stay for juveniles placed in post-dispositional detention, who account for a smaller share of the population, remained at 24 or 25 days until FY2013. In FY2014, both pre-dispositional and post-dispositional length-of-stay increased. This increase in length-of-stay offset the decrease in admissions and resulted in a small increase in the population, overall, for the fiscal year. Length-of-stay for pre-dispositional and post-dispositional juveniles continued to increase in FY2015. The increase in length-of-stay in FY2015, however, was offset by a significant decrease in admissions to detention homes, resulting in decline in the population for the year.

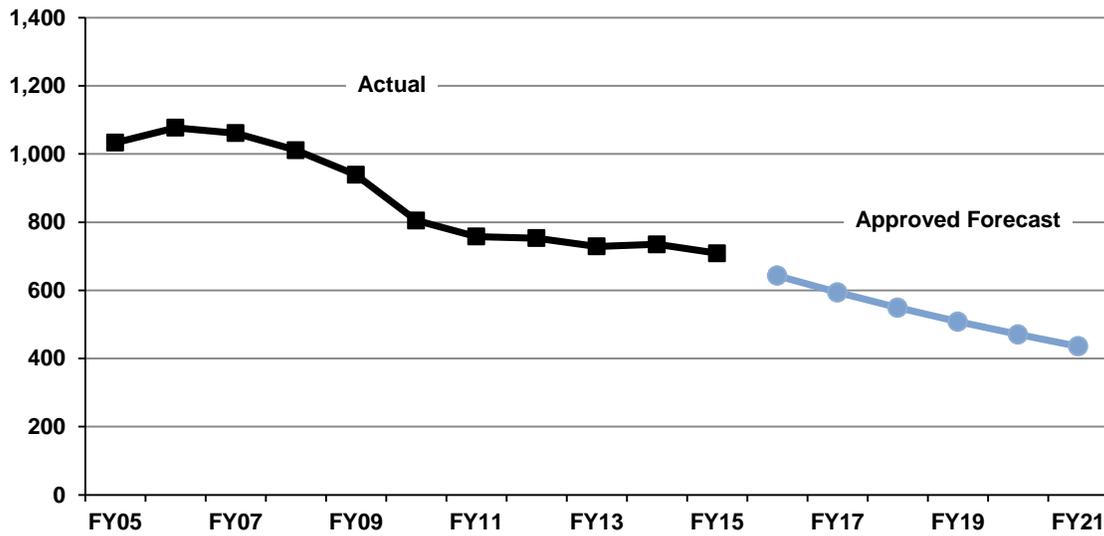
Figure 27
Average Length-of-Stay in Juvenile Detention Homes
(in days)



Juvenile Detention Home Population Forecast

Forecasts of the juvenile detention population were produced, one by DJJ and the other by DPB. Both agencies used time series techniques to forecast this population (time series forecasting techniques are described in the *Forecasting Methodologies* section of this report). After careful evaluation of both the DJJ and DPB projections, the Policy Committee approved the DJJ model as the official forecast of the juvenile detention home population. Under the approved forecast, the detention home population is expected to decline over the next six years by an average of 7.8% annually, reaching an average population of 436 in FY2021 (Figure 28).

Figure 28
Juvenile Detention Home Population Forecast (Fiscal Year Average)



Actual:	Year	Population	Change	Forecast:	Year	Population	Change
	FY10	805	-14.3%		FY16	643	-9.3%
	FY11	758	-5.8%		FY17	594	-7.6%
	FY12	753	-0.7%		FY18	549	-7.6%
	FY13	729	-3.2%		FY19	508	-7.5%
	FY14	735	0.8%		FY20	471	-7.3%
	FY15	709	-3.5%		FY21	436	-7.4%
		Avg. change	-4.4%			Avg. change	-7.8%

Figures represent the average population for each fiscal year.

Appendices

Appendix A
Legislative Directive

Item 376 of Chapter 665 of the 2015 Acts of Assembly

Authority: Title 2.2, Chapter 2, Article 8, and § 2.2-201, Code of Virginia.

- A. The Secretary of Public Safety and Homeland Security shall present revised state and local juvenile and state and local responsibility adult offender population forecasts to the Governor, the Chairmen of the House Appropriations and Senate Finance Committees, and the Chairmen of the House and Senate Courts of Justice Committees by October 15, 2014, for each fiscal year through FY 2020 and by October 15, 2015, for each fiscal year through FY 2021. The secretary shall ensure that the revised forecast for state-responsible adult offenders shall include an estimate of the number of probation violators included each year within the overall population forecast who may be appropriate for alternative sanctions.

- B. The secretary shall continue to work with other secretaries to (i) develop services intended to improve the re-entry of offenders from prisons and jails to general society and (ii) enhance the coordination of service delivery to those offenders by all state agencies. The secretary shall provide a status report on actions taken to improve offender transitional and reentry services, as provided in § 2.2-221.1, Code of Virginia, including improvements to the preparation and provision for employment, treatment, and housing opportunities for those being released from incarceration. The report shall be provided to the Governor and the Chairmen of the House Appropriations and Senate Finance Committees no later than November 15 of each year.

- C. The Secretary of Public Safety and Homeland Security, in consultation with the Secretaries of Administration and Technology, shall review the feasibility of implementing an integrated criminal justice system web portal for the purpose of securely disseminating information to federal, state, and local criminal justice agencies. Such a web portal would be intended to provide real-time access to information residing in the data systems of the respective agencies participating in the web portal, through a single secure point of entry. Consideration shall be given to the experience of other states in implementing web portals for similar purposes; the potential value to be gained from sharing information in Virginia's criminal justice system; the potential for supporting the costs for such a web portal through agency fees; and the costs, benefits, potential revenues, and time frames for implementing such a system. A preliminary report, including initial findings and recommendations, shall be presented to the Governor and the Chairmen of the House Appropriations and Senate Finance Committees by December 1, 2015.

Appendix B
Committee and Work Group Members

2015 Policy Committee Members

The Honorable Beth Arthur
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The Technical Advisory Committee would like to acknowledge the assistance of **Warren McGehee** of the Virginia Department of Corrections.

