Truth-in-Sentencing in Virginia
Evaluating the Process and Impact of Sentencing Reform

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EXECUTIVE SUMMARY

Reform and Truth-in-Sentencing in Virginia

Truth-in-sentencing (TIS) is the most prominent sentencing reform movement of the 1990s. The primary objective of TIS is to more closely align the sentence imposed by the judge with the actual amount of time served in prison by restricting or eliminating parole eligibility and good time. In many instances, these reforms are accompanied by significant increases in the penalties for violent offenders. TIS is based on a "just deserts" philosophy in which sentence length varies directly in proportion to the severity of the offense and allocates penalties as a deserved punishment rather than as a means for rehabilitation and treatment.

This report is the result of an 18-month partnership project funded by the National Institute of Justice to evaluate the development and impact of TIS in Virginia. The successful completion of this project required both intimate knowledge of the process underlying the changes to Virginia sentencing law and the capacity to conduct the evaluation in an appropriate and impartial manner. For this reason, a partnership was developed to bring together the historic and institutional knowledge of the Virginia Criminal Sentencing Commission (VCSC) and an objective, third-party evaluation team from the National Center for State Courts (NCSC).

The evaluators view the purposes and features of sentencing reform in Virginia as given, and no value judgments are made about the goals of TIS. No effort is made to advocate specific sentencing structures and strategies. As such, the purpose of this evaluation is to (1) analyze the approach used in Virginia to develop and implement one of the nation's pioneering efforts in TIS, including the abolition of parole and the initiative to increase prison sentences for violent offenders; (2) critically evaluate the analyses conducted to forecast the impact of TIS on sentencing outcomes and prison population; and (3) begin the process of conducting an evaluation of the impact of Virginia's sentencing reforms on recidivism among violent offenders. With the exception of the recidivism analysis, all analyses referred to in this report were conducted by the VCSC. The role of the NCSC was to evaluate the work of the VCSC.

Central findings include:
- TIS became effective in Virginia on January 1, 1995. Virginia's sentencing reforms abolished parole, reduced good time allowances to ensure that inmates serve a minimum of 85% of their imposed sentence, and increased prison sentences for violent and repeat offenders.
- Virginia, a long-time proponent of structured sentencing, implemented TIS through a revision of the state's existing voluntary system of sentencing guidelines. The benefit of the sentencing guideline approach is that it allows for a more accurate assessment of the likely impact of changes in sentencing and/or parole policy.
Guidelines systems are arguably the most cost-effective means of providing rational structure, relevant data, and the ability to accurately monitor and forecast sentencing outcomes.

Along with the federal government, Virginia is one of eight states that have abolished parole and implemented TIS legislation that requires almost all violent and nonviolent offenders to serve 85% of the imposed sentence. Under TIS, violent and repeat offenders receive sentences two to six times longer than previously. The amount of time served by nonviolent offenders was not changed by the move to TIS. Judge-imposed sentences for nonviolent offenders are lower under TIS, but the time served in prison remains the same because sentences are no longer reduced dramatically by parole and good time allowances.

Under TIS, offenders are expected to serve an average of 89.7% of the judicially imposed sentence. Although parole was abolished for all offenders convicted after January 1, 1995, parole remains in effect for individuals incarcerated prior to TIS reform. The parole grant rate (for eligible offenders) has dropped from 46% in 1991 to 5% in 1998.

The judicial sentencing recommendations under Virginia's TIS guidelines remain voluntary, but are usually followed by judges. Currently, judicial compliance rates are equal to or exceed overall pre-TIS guideline compliance rates of 78%.

Jury trial rates, predicted by some to rise as a result of TIS, have fallen steadily over the past 12 years. The most significant drop came at the time when bifurcated trials and TIS were implemented. Jury trials currently make up less than 3% of felony dispositions.

Analysts in Virginia forecast that more than 26,000 violent and 94,000 nonviolent felonies are expected to be averted between 1995 and 2005 by the passage of TIS—a proposition that was important for building institutional support for sentencing reform. Evaluators found that while analytically complex, the methods employed for determining preventable crime were conceptually sound and conservative in their estimates.

Prison population under TIS has been lower than originally forecasted. Evaluators cite several possible reasons for these overestimates, including lower-than-expected crime rates and inaccurate estimates of new admissions to prison.

A deterrence effect is one way for TIS to reduce recidivism in Virginia. The Offender Notification Release Program (ONRP) is designed to educate inmates leaving Virginia prisons specifically about TIS reforms. All inmates leaving the prison system are given a type of “exit interview” during which they are informed about the abolition of parole and the old good conduct credit system. Each departing inmate receives a wallet-sized “notification card” that contains the possible sentencing consequences of being arrested and convicted of a new felony offense.
As part of a long-term recidivism analysis, project staff have established baseline recidivism rates for the offender population released from prison prior to the introduction of TIS. Half (49.3%) of all offenders released from prison in 1993 were re-arrested for any new crime within three years. The number of persons who recidivate drops quickly as the measure of recidivism becomes more conservative (e.g., of those released from prison, 22% were reconvicted of a new felony).

Recidivism, if it does occur, is likely to happen sooner rather than later. For those who recidivate, the average time until first re-arrest for any crime was about 12 months, and 75% recidivate within 19 months.

Property offenders have the highest rates of recidivism, followed by drug offenders, then violent offenders. There is some evidence of offense specialization for property and drug offenders: 75% of those re-arrested for a property offense were originally incarcerated for a property crime and 59% of those re-arrested for a drug offense were originally in prison for a drug crime.
Introduction

Reform and Truth-in-Sentencing in Virginia

Strategies for reducing violent crime dominated Virginia politics during the 1993 gubernatorial race. George Allen, the republican candidate, made the elimination of parole and the institution of harsher punishment for violent offenders the centerpiece of his campaign. After winning the election, Allen established the Sentencing and Parole Abolition Commission, which moved quickly to recommend that Virginia establish Truth-in-Sentencing (TIS) through a major restructuring of the state's existing system of sentencing and parole. Determining the exact dimensions of sentencing reform occupied the political process throughout the first nine months of the Allen administration, and at a special session of the General Assembly in September, 1994, Virginia's legislature passed the most significant and comprehensive sentencing reforms in the state's history.

These reforms, which became effective on January 1, 1995, were designed to achieve three objectives:

- Increase prison terms for violent and repeat offenders;
- Abolish parole;
- Reduce allowances of “good time” to ensure that inmates serve 85% of their imposed sentence.

The abolition of parole and the restructuring of good time were accomplished by statute. In addition, the legislature created the Virginia Criminal Sentencing Commission (VCSC) to oversee the development, implementation, and maintenance of TIS guidelines. It became the responsibility of the VCSC to "retool" Virginia's existing guidelines so that violent and repeat offenders would now receive significantly harsher penalties. But the purse strings were not completely loosed. The legislative mandate to the VCSC also required that the demand for prison space under the new "hard time for hard crime" sentencing strategy be fiscally responsible. The VCSC used a reasoned and innovative approach to both increase incarceration periods for violent offenders and keep control over prison expenses under the new TIS guidelines.

What is Truth-in-Sentencing?

Truth-in-sentencing policies are designed to ensure that the amount of time an offender actually serves in prison is closely aligned with the original judicially imposed sentence. Many states seek to achieve this goal by significantly restricting or

1 Although the term truth-in-sentencing came to prominence in the 1990s, jurisdictions began moving in that direction in the early 1980s. The first TIS law was passed in Washington State in 1984. Congress mandated TIS at the federal level with the Sentencing Reform Act of 1984, which established a sentencing commission as an independent agency to recommend prescriptive sentencing guidelines, to eliminate parole, and to require that inmates serve at least 85% of their sentence (good time would be limited to 54 days per year). Discretionary parole
eliminating parole eligibility and good-time credits. The precise definition of "significant restrictions" has been strongly influenced by the federal government. Under the 1994 crime bill, Congress authorized incentive grants to states for construction or improvement of correctional facilities to "free conventional prison space for the confinement of violent offenders, to ensure that prison cell space is available for the confinement of violent offenders, and to implement truth-in-sentencing laws for sentencing violent offenders." To qualify for the TIS grants, states must require that violent offenders will serve at least 85% of the imposed prison sentence.

The 85% rule has become so commonplace that in 1998 27 states (including Virginia) qualified for the federal grant program. Though eligible for TIS Incentive Grants, many of these states have indeterminate sentencing systems; serving 85% of the minimum term in a sentence of 5 to 20 years would satisfy the TIS requirements of the federal legislation. A more conservative definition of TIS calls for sentences imposed in a guidelines or determinate sentencing structure where the 85% calculation can be made on a definite or "fixed" sentence. States also differ in the scope of TIS legislation. In many states TIS applies only to violent offenders. The federal government and eight states, including Virginia, apply an 85% TIS requirement to all felony offenders. This definition reflects the philosophy of TIS that all offenders serve a prison term that is closely aligned with the original sentence.

Proponents argue that TIS policies restore public confidence in the criminal justice system and further such concepts as predictability, proportionality, deterrence, victims' rights, and consistency in the sentencing process. TIS is deeply rooted in the determinate sentencing philosophy that dominated the 1980s. Generally, the determinate model holds that the authority to set sentence length resides with the court and that sentences should be served in full. Only modest reductions in sentence length based on satisfactory behavior while incarcerated (good time) are acceptable. The determinate model is based on a "just deserts" philosophy in which sentence length varies directly in proportion to the severity of the offense and, to a lesser extent, prior criminal history. The "just deserts" model emphasizes allocating scaled penalties as a deserved punishment rather than as a means for rehabilitation and treatment. This philosophy contrasts with indeterminate models that split authority over final sentence length between the court and the department of corrections. Under an indeterminate system, the court typically sets a minimum sentence in conjunction with a statutorily determined maximum sentence, with the actual release date determined by the parole board.

Opponents claim that TIS reforms are simply the latest in a long line of ill-conceived release was first abolished in Maine in 1975 (inmates in Maine currently serve 50 to 67% of their sentences based on good-time accrual). For more on state and federal reform efforts, see Ostrom, Kauder, Rottman, and Peterson (1998) and Greenfeld, Beck, and Gilliard (1996).

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ceived "get tough on crime" policies. This camp argues that some discretionary release mechanism should be retained by a paroling authority and that, in the long term, incarcerating offenders for longer periods of time simply wastes resources and will have little positive effect on public safety. The National Council on Crime and Delinquency (NCCD), for example, holds that the main factor for deciding release time should be an updated assessment of the inmate’s risk to the community—determined once a specified fraction of the custodial term has been served. NCCD also supports retaining the possibility of parole for serious offenders given maximum terms or life sentences. Critics also contend that TIS leads to creative, if not deceptive, charging and sentencing practices. Disparity may result from selective prosecutorial charging practices, or if pleas in certain jurisdictions are obtained by threatening to charge a particularly harsh statutory provision.

The optimal design of a just and equitable sentencing system that also makes efficient use of public resources will long be argued. People will continue to disagree as to whether particular sentencing policies are good or bad. What can’t be argued is that the implementation of TIS in Virginia has had a substantial impact on judicial sentencing practices and corrections policies.

Evaluating the Virginia Experience with Truth-in-Sentencing

Early in 1997, the Virginia Criminal Sentencing Commission (VCSC) agreed to participate in a systematic evaluation of Virginia’s new TIS reforms to be conducted by the National Center for State Courts (NCSC). To answer the fundamental question, “What impact did the implementation of TIS have on sentencing in Virginia?” the evaluators examine sentencing in Virginia from 1980 through the first three years of TIS reform (January, 1995, to January, 1997). The evaluation findings cover three distinct aspects of sentencing reform in Virginia and incorporate both a process and outcome orientation.

First, the evaluation focuses on the process by which the new TIS system was developed. In so doing, we define TIS and clarify precisely what TIS was meant to accomplish in Virginia. For the judiciary, the cornerstone of the 1993 sentencing reforms was a major redesign of the existing sentencing guidelines. Prior to reform, Virginia employed a set of voluntary, descriptive guidelines that, in combination with existing parole policies, ensured that the sentence imposed would be very different from the sentence actually served. Under TIS, parole was abolished and new guidelines were configured to more closely align imposed sentences with actual time served. This section examines the deliberations of the Governor’s Commission and the legislative committees responsible for implementing the ultimate design of sentencing reform in Virginia. Specific questions addressed in Chapters 2 and 3 include:

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7 Tonry (1996).
How has sentencing reform evolved in Virginia since 1980? Where does TIS fit within the historical context of sentencing reform in Virginia? What features characterized Virginia's sentencing guideline system prior to TIS? What operational and political factors contributed to the adoption or rejection of specific reform components and policies?

What is the precise design of TIS in Virginia? What is the current status of parole and good time in Virginia? How are violent and nonviolent offenders treated under Virginia's TIS? How were the new guidelines and sentencing ranges developed?

Second, the evaluation analyzes the effect of the TIS reforms against a set of explicit and implicit standards. The Governor and the Virginia legislature believed that judicial compliance with the new TIS guidelines would have two specific results: 1) relatively little change in the actual time served by nonviolent offenders; and 2) a need for more prison space due to significant increases in prison sentences for violent offenders. Also, they hoped that longer prison sentences for violent and repeat offenders under TIS would reduce violent crime and lead to fewer victims and lower costs of crime. VCSC staff conducted numerous analyses to estimate the costs associated with the implementation of TIS as well as the benefits of crime prevented under the new system. This stage of the evaluation assesses the outcomes of TIS against the expectations of the system designers. In addition, the methods used by the VCSC to forecast the potential impact of TIS on sentencing practices and corrections resources are reviewed and critiqued. Specific questions addressed in chapters 3, 4, and 5 include:

What is the impact of TIS on prison population? What techniques were used to forecast prison population under TIS? What was the estimated impact of TIS? How accurate was the forecast?

What is the impact of TIS on judicial compliance? How is judicial compliance measured? Has judicial compliance changed with the introduction of TIS? How does compliance in jury sentencing compare with compliance in nonjury sentencing?

How much new crime is prevented by the harsher penalties under TIS? How did Virginia estimate the level of preventable crime under TIS? What is the estimated "cost of crime" avoided through extended incarceration of violent offenders? Is there a beneficial "incarceration effect?"

Third, this evaluation includes the first half (or baseline) of a recidivism analysis for use in assessing the impact of TIS. The full recidivism study will be designed to compare recidivism of inmates released one year prior to the inception of the new sentencing laws with that of inmates released under TIS. However, because it is still too early to conduct an effective evaluation of the impact of TIS on the rate of recidivism of violent offenders, only the first half will be completed during this evaluation. At this stage, the NCSC, in close collaboration with the VCSC, has examined the background characteristics and prior conviction histories of offenders released from Virginia prisons in 1993. Records were then examined to determine whether offenders had been re-arrested or re-convicted within three years of their release from
prison. Multiple measures of recidivism are calculated and discussed.

In addition, this stage of the evaluation also examines the creation and implementation of a recent VCSC innovation, the Offender Notification Release Program (ONRP), which was implemented early in 1997. The ONRP is intended to enhance the specific deterrent effect of the tougher sentencing laws by informing inmates what their likely sentence will be if they commit other crimes after their release. Specific questions addressed in chapters 6 and 7 include:

- What were the patterns of recidivism prior to the implementation of TIS? How is recidivism calculated and measured? How was the necessary data gathered? What is the rate of recidivism for offenders released prior to the 1994 reforms?
- What is the design and purpose of the ONRP? How does Virginia attempt to educate inmates about to exit state correctional facilities about TIS reforms? How has the ONRP been implemented by the Department of Corrections?

In summary, the purpose of this evaluation is (1) to analyze the approach used in Virginia to develop and implement one of the nation's pioneering efforts in TIS, including the abolition of parole and the initiative to increase prison sentences for violent offenders; (2) to critically evaluate the analyses conducted by the VCSC to forecast the impact of TIS on sentencing outcomes and prison population; and (3) to begin evaluating the impact of Virginia's sentencing reforms and Offender Notification Release Program (ONRP) on recidivism among violent offenders.

Who Benefits from this Evaluation?

The evaluators view the purposes and features of sentencing reform in Virginia as given, and no value judgments are made about the goals of TIS. No effort is made to advocate specific sentencing structures and strategies. As such, the general objectives of this evaluation are (1) to increase our knowledge about the various sentencing policy alternatives considered in Virginia and (2) to clarify the outcome of particular choices. The knowledge gained from this approach is primarily designed to benefit Virginia policymakers and practitioners interested in an objective analysis of the development and implementation of the new sentencing reforms in their state. However, given the ongoing interest in sentencing reform elsewhere, especially in TIS and abolition of parole, there is considerable national interest in Virginia's experience. Additionally, an understanding of how sentencing reform operates in practice may help others advocate policies in sync with their objectives. Hence, this evaluation has been designed and written to clarify how sentencing reform efforts could be improved if initiated in other states.

Because many policymakers agree with the objectives of TIS, it is easy to overlook how outcomes might differ from intent. Desired objectives are not the same as workable solutions. For example, other states contemplating TIS reforms may benefit from a description and analysis of how Virginia (1) determined its new sentencing ranges under TIS, preserving historical time-served amounts for nonviolent offenders while increasing time served for violent offenders; (2) estimated the probable impact of its
sentencing reforms on avertable crime and the need for additional prison space; and (3) is measuring the impact of TIS on recidivism. Sound analysis will help policymakers evaluate more accurately whether a sentencing policy alternative will, in fact, accomplish the desired outcome.

VCSC/NCSC Evaluation Partnership

The evaluation focuses on the process of sentencing reform in Virginia and critically examines the primary analyses and impact assessments conducted on behalf of the Governor’s Commission as well as the legislative committees involved in sentencing reform. The majority of these analyses were conducted by the Criminal Justice Research Center (CJRC) within the Department of Criminal Justice Services. Several key staff of the CJRC, including the director Richard Kern, accepted permanent positions at the VCSC when it was established officially on January 1, 1995. The studies referenced and reviewed in this evaluation were collected from the files held at the current VCSC and were found in their original formats as printouts, graphical presentations, and various types of information and report packets (sometimes termed “fugitive” research and analysis).

The successful completion of this project required both intimate knowledge of the process underlying the changes to Virginia sentencing law and the capacity to conduct the evaluation in an appropriate and impartial manner. For this reason, a partnership was developed to bring together the historic and institutional knowledge of the VCSC with an objective, third-party evaluation team from the NCSC. The partners believe that the best (and arguably only) way to ensure that this evaluation had access to the necessary data and program documentation underlying Virginia’s implementation process was to involve the VCSC and its staff throughout the evaluation process. VCSC involvement included identifying the fundamental issues that drove sentencing reform; assisting in gaining access to and preparing databases; clarifying any data problems, details, and nuances; and providing evaluators with other relevant information that affected Virginia’s sentencing reform efforts. Ongoing communication between the NCSC and the VCSC helped close important gaps in the evaluation. At the same time, while cooperation between the VCSC and the evaluators was critical during certain stages, the evaluation team also acted independently. The NCSC evaluation team was given a free hand to design and conduct the evaluation and, as a consequence, bears responsibility for the evaluation results.

*Given the considerable overlap of key staff at the CJRC (prior to 1995) and at the VCSC (after 1995), this evaluation uses the shorthand of VCSC to refer to research and analysis conducted by both the CJRC and the VCSC.*
CHAPTER TWO

The Path to Reform

Virginia has been actively involved in sentencing research and reform since the early 1980s. Initially driven by concern over sentencing disparity, Virginia has been a consistent innovator and strong proponent of the sentencing guideline concept. The new TIS guideline structure is better understood when presented in the context of earlier reform efforts. In reviewing sentencing reform in Virginia over the past two decades, this chapter also underscores the critical importance of relevant data and effective staff to explain how decision making during the 1994 reform process could be both informed and fast. One fundamental, though often under-appreciated, component of rational sentencing reform is the creation and maintenance of a sentencing database. Virginia policymakers recognized that detailed and accurate information on past sentencing practices greatly enhances a state's ability to design and implement a specific set of sentencing reforms—and accurately estimate the possible impacts and associated cost. In addition, staff must have the capacity to knowledgeably assess and explain the expected differences between alternative reform packages. The rapidity with which the new TIS system was developed and approved by the legislature (as compared to many other states adopting TIS policies) was directly related to the extensive VCSC staff experience with sentencing-related research prior to 1994.

Early 1980s—Beginnings of Reform in Virginia

In 1982, Governor Charles S. Robb appointed the Task Force on Sentencing to study current sentencing policies and to recommend changes if appropriate. This study followed a series of newspaper articles and reports claiming the inconsistency and disparity of sentencing decisions in Virginia. The Task Force issued a final report in 1983, concluding that variation in the use of incarceration and length of prison terms for similarly situated offenders did exist across Virginia. These differences were found to be partially attributable to such factors as offender race, socioeconomic status, and location of the court. Based on these conclusions, the task force recommended that the Supreme Court of Virginia take steps to improve statewide consistency in sentencing through the development of historically based (or "descriptive") sentencing guidelines. The guideline concept did not have unequivocal support among the Virginia judiciary. In the absence of judicial oversight of the study methods and procedures, many judges were reluctant to accept earlier findings of unwarranted sentencing disparity. Concern centered on the belief that disparity studies conducted by the Governor's Task Force and the Richmond Times-Dispatch

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10 Similar findings/conclusions had been reached in several other states (Minnesota, Pennsylvania, Washington, Michigan), all of which established sentencing guidelines as a possible remedy for disparate sentencing decisions.
were based on a nonrepresentative sample of cases and that not enough factors were used to develop a rigorous statistical analysis of sentencing practices. At this point the Executive Committee of the Judicial Conference of Virginia decided that a more comprehensive profile of sentencing in Virginia was necessary before appropriate sentencing guidelines could be developed.

1984-1985 Building a Database

In 1984, the Secretary of Public Safety authorized the development of a fully automated Pre-sentence Investigation (PSI) system for collecting detailed information on almost all felony convictions. At that time, no database existed in Virginia to capture the offense and prior record information needed to conduct a comprehensive analysis of sentencing. Initially, this database would provide information for a statewide disparity study and, if required and appropriate, would serve as the basis for descriptive sentencing guidelines. Descriptive guidelines are based on actual past sentencing practices of judges. Suggested sentences under this style of guideline reflect a careful analysis of the sentences actually imposed by judges for particular combinations of offense and offender characteristics. The goal is to eliminate the atypical or unusual sentence (e.g., the high and low extremes at both ends of the sentencing spectrum).

A key to understanding statewide sentencing practice is having valid and reliable data on past sentencing outcomes. VCSC staff indicate that the lack of such data made many judges wary of previous sentencing disparity studies as well as the process of guideline development in other states. Since Virginia’s guidelines were to be purely descriptive, their quality and appropriateness would be tied directly to the data that underlie their development.

Pre-and post-sentence investigation (PSI) reporting formats were redesigned to measure 212 objectively coded offense and offender variables. Critical to the success of Virginia’s PSI database was the adoption of standard codes for probation and parole officers to record offense-specific information. These Virginia Crime Codes (VCCs) are a nine-digit alpha-numeric offense identification system based on the Code of Virginia and include approximately 1,300 misdemeanor and felony crimes. This new system replaced the use of “free format” descriptions (i.e., unstructured, longhand attempts to describe the nature of past and current convictions). The VCC database is maintained by the sentencing commission and is updated annually to reflect changes in statute or the addition of new laws. The VCC database includes the following information on each crime in the Code of Virginia:

- a unique Virginia Crime Code (VCC);
- a concise offense description, guided by the elements of the offense;
- the Code of Virginia section corresponding to the VCC;
- the statutory penalty range;
- the State Police and Department of Corrections NCIC code corresponding to the VCC.

"Justice For All," (1983). This study examined sentences handed down for robbery cases and found the existence of unwarranted sentencing disparity.

Roughly 20,000 new cases have been added to the PSI database each year since 1985; the current system contains about 200,000 cases.
The PSI system and the establishment of the VCC coding system is particularly noteworthy for this evaluation because this rich source of information underlies almost all sentencing guidelines data analysis, research, and monitoring from 1983 to the present. Given the importance of the VCC system and PSI database, the state should be cognizant of at least two related issues. First, consideration should be given to developing a unique offender identifier to be used consistently across Virginia's numerous criminal-justice-related data systems. Such an identifier would ease significantly the effort and cost associated with merging the PSI database with additional sources of data. For example, without a unique identifier, it is currently difficult to supplement PSI data with criminal history information for analysis related to recidivism, juvenile justice, or risk assessment. Second, the VCSC must be diligent and clear in communicating their rationale for maintaining the PSI database. One method of preserving the PSI database is by initiating and supporting efforts to improve efficiency through automation and quality control. Otherwise, efforts to scale down or even eliminate the PSI data collection citing the ongoing expense required to collect, edit, and sustain the system may surface. As compared to nonguideline states, an advantage for Virginia (and other states that have developed and maintained guidelines) is the substantial collection of reliable data sources. The lesson learned is that any meaningful attempt at structured guidelines development must be accompanied by improvements in existing data systems.

1986-1987 Statewide Disparity Study

In April of 1986, the Chief Justice of the Virginia Supreme Court appointed the Judicial Sentencing Oversight Committee to oversee a statewide study of judicial sentencing practices within the Commonwealth. The study uncovered evidence of unwarranted sentencing disparity; statistical analysis showed that a variety of extralegal factors influenced sentencing outcomes, including offender race and gender, type of criminal defense attorney, jury vs. bench trial, and level of offender education. The influence of these factors was also found to vary according to offense type, sanction (i.e., probation, jail, prison), and geographical area of the state. According to VCSC staff, these findings would later be the primary impetus for moving forward in sentencing guidelines development.

During 1987, the Executive Committee of the Judicial Conference of Virginia voted to present the results of the disparity study to all circuit court judges during a series of regional meetings. The outcome in each region was a vote by the circuit judges recommending the implementation of voluntary sentencing guidelines. Unlike other states considering guidelines as a way to curtail rising prison populations or as means for implementing non-incarcerative sentences, Virginia's sole purpose for guidelines development was to reduce unwarranted sentencing disparity.

On the basis of the findings from the disparity study, the Chief Justice appointed a new committee to oversee the development of sentencing guidelines. Although a
departure from the practice in most other states where sentencing commissions include representation from each branch of government, this committee was comprised solely of judges. The general belief of the Virginia committee was that sentencing is a judicial function; and since the guidelines were to be voluntary, only the judiciary needed to be involved in their development.

**1987-1988 Guidelines Developed**

The Judicial Sentencing Guidelines Committee (JSGC) was responsible for all policy decisions regarding sentencing guidelines development and operation. The first step was to operationally define “appropriate sentence length” so that the effectiveness of the guidelines could be measured. The JSGC determined that the sentencing guidelines ranges would encompass the middle 50% of historical sentence lengths and that a judicially imposed sentence was defined as appropriate if it fell within this range and “inconsistent” (and possibly disparate) if it fell below or above this mid-range. Therefore, the highest 25% and the lowest 25% of all historical sentences fell outside the guidelines ranges. The basic characteristics of Virginia’s first set of descriptive sentencing guidelines included:

- Use of a judicial sentencing worksheet as opposed to a sentencing grid;
- Presentation of eight specific offense groups (i.e., assault, burglary, drugs, fraud, homicide, larceny, robbery, sexual assault) with individual sets of scoring factors and worksheets;
- A bifurcated worksheet design beginning with an in/out decision (prison v. no prison), followed by length of incarceration, if appropriate;
- Presence on the worksheets of only legally relevant offense- and offender-related factors found to be statistically significant in the analysis of historical sentencing practices;
- Recommendation of “effective time sentences” defined as the length of the judicially imposed sentence minus any suspended time;
- Strictly voluntary sentencing guidelines where judicial compliance would not be mandated and there would be no opportunity for appellate review based on a challenge to the guidelines.

Because Virginia’s guidelines were to be descriptive of historical patterns across the commonwealth and based on legally defensible criteria, VCSC staff analyzed the PSI database to determine normal sentencing practice as well as the specific offense and offender-related factors significant in predicting judicial sentences. Thus, no “normative” adjustments were made to the observed sentencing patterns to enhance (or reduce) the recommended punishment for specific crimes and only statistically significant offense- and offender-related factors were used to create the guidelines. In this manner, the influence of extralegal factors (e.g., race, gender, identity of the judge or judicial circuit, method of adjudication) was reduced so that those factors would no longer exert a systematic influence in sentencing decisions.

In developing the pilot guidelines, VCSC staff used three statistical procedures to analyze PSI data on 33,573 felony cases sentenced between February, 1985, and June, 1987. All felony convictions resulting in probation and/or a suspended sentence, a jail term, or a prison term were examined. The results of this comprehensive analysis were used to design a sentencing guidelines framework consisting of three worksheets:

- **Worksheet A**: used to determine whether a person would receive a prison or a nonprison sentence;
- **Worksheet B**: used to determine whether a person would receive probation or jail (if nonprison sentence indicated on Worksheet A);
- **Worksheet C**: used to determine the length of a prison sentence (if prison sentence indicated on Worksheet A).

Eight sets of offense-specific guideline worksheets were formulated and a manual was created to explain their application.  

Worksheets A and B were designed using multiple discriminate function analysis. In keeping with a bifurcated design, this analysis was used to determine the factors influential in judicial decisions of whether or not an offender was to be incarcerated. A second statistical technique called “probit” was used in the initial pilot guideline development to refine the proportional weights of the factors for Worksheets A and B. This technique allows one to compare each specific factor’s importance in the sentencing decision. For example, assume that the coefficient (i.e., the numerical representation of a factor’s “importance” in a sentencing decision) for “use of a firearm” was the same as that for “serious injury of a victim.” This indicates that judges have historically given about the same weight (sentence outcomes have been equally influenced by these two offense factors) for firearm use as they have for serious victim injury when considering whether or not someone should go to prison.

The offense- and offender-related characteristics linked to the length of prison sentence (Worksheet C) were uncovered using ordinary least squares multiple regression (OLS). Coefficients associated with each factor in the analysis translate roughly into months of incarceration. For example, a drug offender who scored “61” on Worksheet C under the factor “Counts of Primary Offense” implies that the historic sentence for a drug offender convicted of four counts of selling drugs was about 61 months (five years) longer than a person convicted of one count of selling drugs, all other factors being equal. The factors found to be statistically significant, and their relative impact, were critical elements for future guidelines development, and, eventually, the establishment of the current TIS guidelines.

research staff responsible for conducting the disparity analysis and pilot guidelines development operated in a team environment supervised by a project director with previous experience in sentencing guidelines development and other criminological research. Individual researchers were responsible for different segments of the guideline development, while results were checked independently through blind repeat analyses using the same data. This process verified findings across analysts with the results and any inconsistencies being reported during regularly scheduled staff meetings. Researchers were well qualified to conduct the analyses, possessing advanced degrees in social science and criminal justice research and statistics, while also having various levels of previous applied research experience. Evaluators note that guideline development in Virginia benefited greatly from comprehensive data sources, adequate resources, and staff expertise.

1988-1990 Sentencing Guidelines Pilot Study

Virginia's judiciary voted to pilot test the voluntary guidelines before recommending statewide implementation. Six judicial circuits (out of a possible 31) representing a mix of rural and urban courts were selected as pilot sites. A judge from each of these six circuits sat on the Judicial Sentencing Guidelines Committee (JSGC), which provided policy oversight during the process. After a series of regional training seminars, guidelines went into effect in July, 1988, with a plan to pilot the system for one year. Judges in the pilot sites were asked to consider the guidelines in almost all felony cases, explain any reasons for departure, and return the completed forms for monitoring and evaluation.

Because the purpose of the first set of guidelines was to reduce disparity, the JSGC directed staff to evaluate the effects of guidelines on sentencing consistency and neutrality. Consistency was defined as the extent to which similarly situated offenders who committed similar crimes received similar sentences. The JSGC chose to measure the effect of the guidelines on consistency by judicial compliance: the percentage of sentences that were within sentencing guidelines ranges before and after guidelines were implemented. Compliance rates were examined in pilot and nonpilot sites to provide a comparative control group. As shown in the bar chart, compliance rates (percentage of judicial sentences that fell within recommended ranges) during the pilot program ranged from 74% to 88% depending on the offense group, and ranged from 70% to 82% depending on the pilot site. Overall, the average compliance rate was 78%, with departures more likely to be mitigated (15%) than aggravated (7%).

Neutrality, or impartiality, was assessed by examining whether variation in sentence length was explained by differences in legally relevant factors (e.g., offense severity, prior record) and not by extralegal factors such as race or gender. Neutrality was measured by applying the same statistical techniques used for guidelines development to determine which extralegal factors, if any, exerted influence in sentencing decisions in both pilot and nonpilot sites. Using consistency and neutrality as a framework for evaluating the existence of sentencing disparity has been documented in

Voluntary Sentencing Guidelines Compliance Rates
January to September, 1989

<table>
<thead>
<tr>
<th>By Offense</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sexual Assault</td>
<td>74%</td>
</tr>
<tr>
<td>Drugs</td>
<td>76%</td>
</tr>
<tr>
<td>Fraud</td>
<td>77%</td>
</tr>
<tr>
<td>Assault</td>
<td>78%</td>
</tr>
<tr>
<td>Robbery</td>
<td>79%</td>
</tr>
<tr>
<td>Larceny</td>
<td>80%</td>
</tr>
<tr>
<td>Burglary</td>
<td>82%</td>
</tr>
<tr>
<td>Homicide</td>
<td>88%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>By Circuit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit 12</td>
<td>70%</td>
</tr>
<tr>
<td>Circuit 20</td>
<td>76%</td>
</tr>
<tr>
<td>Circuit 19</td>
<td>78%</td>
</tr>
<tr>
<td>Circuit 21</td>
<td>78%</td>
</tr>
<tr>
<td>Circuit 4</td>
<td>80%</td>
</tr>
<tr>
<td>Circuit 16</td>
<td>82%</td>
</tr>
<tr>
<td>Total</td>
<td>78%</td>
</tr>
</tbody>
</table>
past sentencing literature, and both terms still appear as meaningful performance indicators in this area.  

A year-long pilot study revealed that judges were using the guidelines, complying with guideline recommendations, and that the guidelines effectively reduced unwarranted disparity. As an example, the top bar chart shows the percentage of sentences for assault and burglary within the guidelines ranges in the pilot and nonpilot sites both before and after guidelines were introduced. For both offenses shown, the compliance percentage is notably higher in pilot sites than nonpilot sites. An illustration of the extent to which neutrality was achieved is depicted in the bottom bar chart. Following the introduction of guidelines, the influence of extralegal factors in explaining variation in sentence length for prison-bound burglary offenders was reduced substantially in the pilot sites (10% of explained variance was accounted for by extralegal factors in pilot sites as compared to 54% in nonpilot sites after guidelines implementation).

The evaluation also attempted to measure judicial perception and attitudes toward the pilot guidelines. A survey conducted during the pilot program found strong acceptance of the voluntary guidelines among participating judges. The survey showed 90% of judges believed the guidelines had increased consistency in sentencing, while affecting judicial discretion minimally or not at all. Almost all judges (31 of 32 judges surveyed) felt that having the guidelines available as a reference tool was preferable to not having guidelines. The same number said that the guidelines should be expanded statewide. The one judge who did not want to see guidelines expanded also indicated he did not believe in the existence of unwarranted sentencing disparity.

1991-1993 Statewide Voluntary Guidelines

After viewing the results of the pilot study, the JSGC, with the approval of the Chief Justice, recommended that the sentencing guidelines be implemented statewide. Virginia's circuit judges voted to adopt the sentencing guidelines statewide effective January, 1991. The sentencing guidelines were monitored and adjusted annually over the next three years to reflect current judicial practice. Interviews with commission members and staff reveal that a key to program acceptance by the judiciary was the descriptive and voluntary nature of the guidelines. In addition, the comprehensive and yearly re-analysis of felony conviction and sentencing data to ensure that the guidelines were based on current trends in judicial sentencing was unique to Virginia. Although many states make adjustments (largely normative ones) to their sentencing guideline grids and/or worksheets to reflect the changing purposes

19 Interviews with VCSC staff indicate that some judges in nonpilot sites requested and received guideline manuals and worksheet copies during the pilot study period. Judges were provided manuals at the direction of the Oversight Committee and the chief justice, since the system was viewed as a valuable decision aid that was only voluntary in nature. The existence and use of these manuals may have had contaminating effects on the study results, although staff conversations with several judges indicate that there was no reason to believe guidelines were being used systematically in nonpilot sites.
or goals of sentencing, no state has kept and maintained such an exhaustive analytical approach to the guideline revision process as Virginia.21

The earliest years of guidelines development in Virginia (1985-1988) were supported almost entirely by Bureau of Justice Assistance grants that were later replaced by state general fund monies. Late in 1990, Virginia’s legislature passed House Joint Resolution 46 encouraging the use of sentencing guidelines statewide and appropriated money for a full-time sentencing committee staff. Over the last ten years, staff size has ranged from five to ten full-time employees (in addition to occasional grant-funded or temporary staff designated for special projects). Although other states have seen staff size grow in more recent years, this level of staff commitment was unusual during the mid- and late-1980s. States currently have, on average, five to six employees assigned to staff a sentencing commission and to maintain a guidelines system, although several states also use those positions for nonguideline-related activities.22

Virginia provides one instance where federal seed or start-up money was used to initiate a long-term project, later supported by state revenue based on a proven need and commitment to the program.


At the time of Governor Allen’s election in November, 1993, judges in Virginia were using judicially controlled voluntary sentencing guidelines with an average compliance rate of 76%.23 Though the judiciary was satisfied that the guidelines were accomplishing their intended purpose (to reduce unwarranted disparity) and with the design of the guidelines (voluntary and descriptive), there was rising concern about large differences between judicially imposed sentences and the amount of time an offender actually served in prison. Public opinion in Virginia was strongly negative toward the perceived leniency of the parole board’s release decisions during the early 1990s.24 Fear of crime was heightened by media coverage showing violent crime rates at record highs. As the gubernatorial race was heating up in late 1993, both candidates increasingly stressed specific crime and public safety issues in their respective platforms. Mary Sue Terry, the Democratic candidate, focused on gun control, specifically, a five-day waiting period for handgun purchases. The Republican candidate, George Allen, made parole abolition and TIS his primary public safety, if not his overall, campaign theme. When the campaign season began, Allen was well behind in pre-election polls, but he won the race by a wide margin. One of his first major actions after taking office was the signing in January, 1994, of an anticrime package and the creation of the Commission on Parole Abolition and Sentencing Reform.25

21 Part of this commitment can be attributed to sufficient funding levels during different phases of guidelines development. This also allowed guidelines staff to conduct numerous training seminars and to provide ongoing presentations and technical assistance for judges, probation officers, and attorneys.
22 Kauder, Ostrom, Peterson, and Roterman (1997).
24 Survey Research Laboratory (1993).
Allen charged this commission with "developing a plan to abolish parole, establish truth-in-sentencing, and ensure that violent and repeat criminals stay in prison for much longer periods of time."\textsuperscript{26} The commission had 32 political appointments, and was cochaired by former U.S. Attorney General William P. Barr and Former U.S. Attorney of the Eastern District of Virginia, Richard Cullen. The commission was staffed administratively by an additional 18 persons representing the executive branch, the attorney general's office, and several private consultants. This administrative body provided general policy direction for the Criminal Justice Research Center (CJRC) within the Department of Criminal Justice Services, the group responsible for the research and impact analyses associated with commission recommendations. The Research Center was headed by Richard P. Kern, who was also serving simultaneously as executive director for the existing JSGC.

At about this same time, the democratically controlled general assembly created their own study group called the Sentencing and Parole Reform Commission. The legislative commission, which was also receiving analytical and staff support from the CJRC, was exploring a broad menu of potential reforms. What distinguished the two commissions early on was the predetermined decision by the Governor's commission to implement TIS and abolish parole.

In the summer of 1994, the Governor announced a special session of the General Assembly to be convened in the fall for the sole purpose of considering sentencing reform legislation. As the legislative session neared, the Governor's commission and the legislative commission solidified their respective reform packages. The Governor's package became known as Proposal X, while the legislative package was referred to as Proposal A. Policy stances formed and split along party lines, between the executive and legislative branches, and by other competing special interest groups (including prisoner advocacy groups, the NRA, victims groups, the NAACP, etc.). The political wrangling was intense as all seats of both General Assembly houses were up for election within a year of the special sentencing and parole reform legislative session. Despite the rhetoric, the final recommendations from each commission were often quite similar. Both agreed to retain certain elements of Virginia's pre-reform sentencing system, including:

- A Sentencing Commission and the use of voluntary sentencing guidelines;
- No appellate review of sentencing guidelines departures;
- Jury sentencing.

While there was also substantial agreement about the basic structure of sentencing reform (e.g., abolishing discretionary parole release, curtailing good time, the proportion of imposed sentence to be served, and increasing time served for violent offenders), there were important differences in the details.\textsuperscript{27} The following table depicts the main features of Proposals X and A and compares those features to the system that was operating in 1994. The differences and similarities of the proposals are analyzed and discussed in the next chapter.

\textsuperscript{26} Governor's Commission on Parole Abolition and Sentencing Reform (1994).
\textsuperscript{27} "Parole Abolition Sentencing Reform Proposals" (1994).
Proposals for Sentencing Reform, 1994

<table>
<thead>
<tr>
<th>Commission Structure</th>
<th>Existing System</th>
<th>Proposal X (Executive)</th>
<th>Proposal A (Legislative)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seven-member committee, judges only</td>
<td>Executive Branch, members from all branches</td>
<td>Legislative Branch, members from all branches</td>
</tr>
<tr>
<td>Sentencing Guidelines</td>
<td>Voluntary, descriptive, based on historical judge &quot;effective time&quot; sentencing</td>
<td>Voluntary, based on historical time-served, normative increases part of original reform</td>
<td>Voluntary, normative adjustments (increases) to be recommended by commission package and legislation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Worksheets</th>
<th>Requested</th>
<th>Required</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Time Served</td>
<td>21% - 47% of sentence</td>
<td>65%-100% of sentence</td>
<td>100% of sentence, plus extended time for dangerous offenders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Departures/appeals</th>
<th>No written reasons/No appeal</th>
<th>Written reasons/No appeal</th>
<th>Written reasons/No appeal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jury sentencing</td>
<td>Bifurcated sentencing, jury receives no sentencing guidelines</td>
<td>Bifurcated sentencing, jury receives no sentencing guidelines</td>
<td>Sentencing guidelines also provided to jury</td>
</tr>
<tr>
<td>Good Time</td>
<td>Multiple levels/300 days per year average</td>
<td>Flat rate up to 54 days per year</td>
<td>None; application to extended term possible</td>
</tr>
<tr>
<td>Parole</td>
<td>Discretionary &amp; mandatory</td>
<td>Abolished</td>
<td>Abolished</td>
</tr>
<tr>
<td>Parole Supervision</td>
<td>All on parole supervision upon exiting prison</td>
<td>Mandatory supervision for 6 months to 3 years</td>
<td>Long-term community supervision to follow</td>
</tr>
<tr>
<td>Prison bed space</td>
<td>Forecast variable</td>
<td>Forecast more predictable</td>
<td>Forecast more predictable</td>
</tr>
</tbody>
</table>

**Sentencing Guidelines Framework for Truth-in-Sentencing**

The NCSC evaluation team believes that one of the best design decisions made by policymakers in Virginia was the retention of sentencing guidelines. The benefit of the sentencing guideline approach is that it allows for a more accurate assessment of the likely impact of a change in sentencing and/or parole policy. Guidelines systems are arguably the most cost-effective means of providing rational structure, relevant data, and the ability to accurately monitor and forecast sentencing outcomes.

Eight states (Ohio, Virginia, Arizona, North Carolina, Delaware, Kansas, Minnesota, and Mississippi) and the federal government have abolished parole and implemented TIS legislation that requires almost all violent and nonviolent offenders to serve 85% (75% in Delaware) of the imposed sentence. All but two states (Arizona and Mississippi) introduced TIS into a sentencing guidelines system or developed guidelines in conjunction with TIS reform. For example:

- North Carolina's sentencing reforms received considerable attention in 1994, when parole was abolished, good time restricted, and a comprehensive community corrections plan developed. The North Carolina Sentencing Commission implemented grid-based presumptive sentencing guidelines, increased sentences for violent offenders, and developed a structured system to divert nonviolent and most drug offenders into alternative or intermediate sanction programs.
Oklahoma established a Truth-in-Sentencing Policy Advisory Commission in 1995 and proposed sentencing matrices (guidelines) and an 85% time-served minimum. In conjunction with TIS, Oklahoma proposed two other major reform components, which could free the prison space needed to accommodate the prisoners who would now serve virtually the entire imposed sentence. The Pre-Adjudication Act provides services to substance-abusing offenders at the “front end” of the system, and the Community Correction Act increases and enhances a continuum of sentencing options at the community level. The Oklahoma commission also recommended abolishing jury sentencing as part of its overall TIS reform package.

Kansas established mandatory guidelines in 1993 and abolished parole releases replacing post-supervision periods with a set 24- or 36-month supervision period. Good time can be earned by participating in programs, but cannot reduce a sentence by more than 15%. Good time earned is further added to any period of post-release. The Kansas grids contain border boxes that allow presumptive prison sentences to be replaced by explicit correctional/treatment programs only if readily available to the offender.

However, the creation of a sentencing commission and the enactment of structured sentencing guidelines is not a requirement for TIS. For example:

- Mississippi enacted legislation in 1995 that abolished discretionary parole and requires inmates to serve 85% of their imposed sentences without the introduction of sentencing guidelines. No adjustments were made to existing sentencing ranges—judges still set a fixed term within the existing statutory ranges for particular felony classes.

- In Arizona, TIS requires offenders to serve 85.7% of their imposed “presumptive” sentence. For most offenses, sentence lengths were “rolled back” to reflect the historical time served. However, offenders deemed to be “dangerous and repetitive” did not have their sentence ranges adjusted. These offenders will serve longer periods of incarceration as a result of delayed release eligibility.28

The major problem for states without guidelines is the reduced ability to estimate future prison bed space needs. The ability to forecast is particularly important in the context of a major reform like TIS. Many commentators argue that the 85% rule (with or without sentencing guidelines) will have greater impact on punishment and the use of prison resources than other sentencing reform measures, including mandatory minimums and three-strikes legislation, because 85% policies are usually applied to all eligible offenders, regardless of prior criminal history.29

The following timeline begins in 1985 and provides an overview of the major policy initiatives leading up to the initiation of TIS in 1995.  

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The Design of TIS Guidelines in Virginia

This chapter reviews the major policy issues and sentencing guideline design considerations raised during deliberations over sentencing reform. Numerous data analyses were conducted on behalf of the Governor's Commission as well as the legislative committees responsible for modifying statutes to codify the intended reforms. The primary targets of reform were (1) abolishing parole and (2) establishing TIS (including lengthier incarceration for violent felons). In addition, many other topics were examined including the expanded role of alternative sanctions, the relationship between age and recidivism, and mandatory minimum sentencing. The most pertinent studies are reviewed in the following three sections.

1) Abolition of Parole

- **The Structure of Parole Prior to TIS**: Virginia's system of parole came under fire in the early 1990s. A commission was appointed by the General Assembly in 1990 to "determine specific reasons for Virginia's low parole rate," and make suggestions for reform. This move was motivated at least in part by severe overcrowding in Virginia's prisons. Just three years later, the parole board was being closely scrutinized on charges of undue leniency.

- **Options for Parole and Good Time Reform**: This debate focused on three basic issues: (1) Should Virginia modify or completely eliminate discretionary release?; (2) Should parole and good time reform apply to both violent and nonviolent offenders?; and (3) Should post-release supervision be maintained?

2) Truth-in-Sentencing (Incorporating Longer Sentences for Violent Offenders)

- **Sentence Time Served vs. Sentence Time Imposed**: A necessary first step was to determine the average difference between the judicially imposed sentence and the actual time served in prison for violent and nonviolent offenders.

- **Shifting from "Effective Time" to "Time Served" Sentencing for Nonviolent Offenders**: To accommodate TIS and ensure that nonviolent offenders would serve the same amount of time post-reform as pre-reform, the guideline recommendations for nonviolent offenders were modified to reflect historical time served.

- **Normative Sentence Enhancements for Violent Offenders**: Violent offenders were targeted to receive and serve substantially longer sentences under TIS. The definition of

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30 The Criminal Justice Research Center performed the majority of these analyses, most of which have not been published other than for the intended audience. These studies were collected from the files held at the current VCSC and were found in their original formats as printouts, graphical presentations, and various types of information and report packets (sometimes termed "fugitive" research and analysis).

“violent offense” was expanded to include some burglary crimes and “violent offender” to include the entire criminal history including juvenile delinquency adjudications.

3) Related Analyses

- The Relationship Between Offender Age and Crime: Considerable debate took place over whether the incapacitation of young violent offenders during their “crime prone years” would end a likely cycle of recidivism and as such should be an explicit purpose of TIS reform.

- Mandatory Minimum Sentences under TIS: Issues of incorporating mandatory minimum sentences within the rational framework of TIS guidelines were explored.

- Expand Alternative Punishment/Treatment Options: Included in the comprehensive reform package was the legislative goal of using a risk assessment instrument to identify and divert at least 25% of incarceration-bound drug and property offenders into alternative sanction programs.

Because of the analytical complexity and evaluation techniques applied, review of the projected and actual impact of TIS on (1) correctional population and prison bed space needs (Chapter 4), judicial compliance (Chapter 5), and preventable crime (Chapter 6) are discussed separately.

The Structure of Parole Prior to TIS

Changing public perception about Virginia’s discretionary release policies is linked to the 1994 gubernatorial campaign where the parole system was blamed for increased crime and waning public confidence in the criminal justice system.32 One of George Allen's first actions as governor was to appoint a new parole board. As can be seen in the adjacent trend chart, the impact was immediate: the parole grant rate fell sharply from about 20% in 1993 to 10% in 1994. Although parole was abolished by Virginia's General Assembly in 1994, the parole system continues to govern release dates for offenders incarcerated prior to January 1, 1995. Between 1995 and 1998, parole grant rates hovered between 15 and 20%.33

In keeping with the parole laws and policies that existed prior to parole abolition, discretionary release for eligible offenders (those sentenced prior to January 1, 1995) is determined by prior prison commitments, the current offense and sentence, and the number of days the offender has earned for good conduct. Offenders automatically are eligible for mandatory parole six months prior to the expiration of their sentence. The Parole Board does not vote on mandatory parole decisions, but it does set the conditions of parole and assigns a period of post-release supervision. Offenders convicted

33 In 1998, three years after parole was abolished for new offenders, the parole grant rate for offenders convicted prior to 1995 again dropped off. With only a few months of data, it is difficult to assign a reason for the steep decline in the grant rate, except to point out that many less serious offenders from the pre-1995 period have already been paroled, leaving a higher proportion of serious offenders in the parole-eligible pool.
prior to the 1994 reforms continue to earn good conduct allowance according to the good time system in effect before parole reform. Each prisoner is assigned a good conduct allowance class, which determines the accrual rate for good conduct credit (i.e., Class I earns 30 days for 30 served; Class II earns 20 for 30; Class III earns 10 for 30; Class IV earns 0 for 30). Full good conduct allowance is counted toward the mandatory release date and half of the good conduct allowance is credited toward discretionary parole eligibility.

Once the Department of Corrections determines that an offender is eligible for parole, the case is reviewed by the Parole Board. The parole review process consists of an interview and recommendation by a parole examiner, after which each of the board's five members reviews the case individually. A consensus of three members (four in first degree murder cases) is required to grant parole. If the offender is released, the board sets the conditions of parole, which may include residence in a halfway house, day reporting, intensive supervision, electronic monitoring, and/or drug testing. For offenders released on mandatory parole, a minimum of six months' post-release supervision is required.

Criticism of the inconsistencies in parole decisionmaking led the Parole Board to introduce a system of parole guidelines in 1992. These guidelines were an attempt to structure parole decisions and base them on objective factors (e.g., present offense, prior criminal record, personal and social history, community resources) as well as subjective factors (e.g., changes in motivation and behavior, impressions gained during interviews). The guidelines were intended to increase consistency and accountability, give guidance to staff, make systematic use of experience, increase openness, handle the increasing number of decisions, and make better predictions.

Virginia's parole guidelines considered four factors: felony risk, time served, institutional behavior, and "auxiliary" information. To determine felony risk, the guidelines incorporate a risk assessment tool based on prior record, prison conduct, and offender characteristics (e.g., age, substance abuse, education). Each of these felony risk factors is scored and the sum of all factors provides an indicator of felony risk, which places the offender in one of four risk categories: low, medium low, medium high, or high. To ensure appropriate punishment, consistency, and fairness, the guidelines compare time served by the offender to the average for the governing offense. The wide range of "average" time served for offenses is divided into four time-served categories: low, medium low, medium high, and high. Also, the guidelines take into account any disciplinary infractions that have occurred in the last year. Finally, auxiliary information such as special needs of the offender and input from the victim and the inmate's family is considered. These voluntary parole guidelines continue to be used to assess parole-eligible offenders.

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35 Ibid.
36 Center for Effective Public Policy, quoted in Virginia Parole Board presentation materials.
Options for Parole and Good Time Reform

Options for sentencing and parole reform were considered and introduced by both the legislative commission and the Governor's Commission. Each group confronted three basic issues: (1) Should Virginia modify or completely eliminate discretionary parole release?; (2) Should parole and good-time reform apply to both violent and nonviolent offenders?; and (3) Should post-release supervision be maintained?

Decision 1: Should Virginia modify or completely eliminate discretionary parole release?

Many states have enacted legislation requiring offenders to serve a flat percentage (usually 85%) as part of a TIS reform package. Other states require a variable percentage based on characteristics of the offense or offender, such as prior record. For example, in Arkansas, the percentage of time that offenders must serve ranges from 33% to 70% according to the seriousness of the offense and whether the offender is a habitual offender. Another option used by some states was to modify release policy by requiring offenders to serve a clearly articulated minimum sentence before becoming eligible for parole. New Hampshire, for example, has retained an indeterminate sentencing structure, but requires offenders to serve 100% of the minimum sentence imposed before becoming eligible for parole. The legislative commission considering parole and sentencing reform met several times to consider these issues. The final recommendation was to abolish parole entirely.

The Governor's Commission reached the same conclusion at its first meeting in February 1994. The Governor asked the commission to remember that "parole must be replaced by a system that deters crime by making punishment certain and predictable." Thus, it was a foregone conclusion that the Governor's Commission on Parole Abolition and Sentence Reform would recommend the elimination of discretionary release.

Reform of good-time policies presented a similar set of options. All good conduct allowance could be eliminated, or the current system could be modified. Virginia's good time credit allowance system was a complicated four-level structure, making it difficult to reliably calculate release eligibility. Moreover, the system was considered overly generous, allowing the average inmate to receive, on average, 300 days for 365 served. Modification of the good time system could mean simply reducing the number of good time levels or restricting offenders to a flat number of days per year. Another option was to retain good time but not apply it to parole eligibility. Finally, good time allowance could be incorporated up front by the judge, thereby reducing the upper range of a sentence.

The two commissions reached different conclusions on good time reform. After testimony and input from prison officials, "awareness of the difficult task corrections officials face on a daily basis, coupled with the responsibility to maintain discipline

and order” led the Governor’s commission to recommend replacement of the good conduct allowance system with a flat rate of 54 days a year that must be earned by the offender. The legislative commission chose to eliminate good time altogether, stating that “the beneficial effect of good time credits on correctional management appears to be arguable.”

Decision 2: Should Parole and Good Time Reform Apply to both Violent and Nonviolent offenders?

According to a 1995 survey by the National Institute of Corrections, 16 states have eliminated discretionary parole release for all offenders. However, several states have opted to eliminate discretionary parole only for targeted offenders. In Virginia, both commissions recommended that parole and good time reform policies should apply to all offenders. The governor’s commission considered retaining the current parole system for nonviolent offenders, but ultimately rejected it for three reasons. First, the commission considered TIS an important reform in and of itself, and as such, equally useful to judges and juries whether incarcerating violent or non-violent offenders. Second, because most nonviolent offenders sentenced to prison in Virginia face incarceration after several previous convictions, the commission felt that they should be required to serve the full sentence imposed. Third, the commission questioned the efficacy of a system that combined real-time sentences and parole-eligible sentences for different offenders. Such a new two-tiered system—much like the existing system it was replacing—would be both difficult to administer and confusing to the public.

Decision 3: Should post-release supervision be maintained?

In recommending the elimination of parole, Virginia joined a number of states that have eliminated or limited parole release. Of the states that have abolished parole, only Maine has eliminated post-release supervision entirely. Most states recognize the role a period of supervised release serves in helping the offender reintegrate into the community successfully. For example, Minnesota incorporates a supervised release period into the guidelines sentence where two-thirds of the sentence must be served in prison and one-third is served on supervised release. North Carolina requires all violent offenders to serve a nine-month period of post-release supervision, with a five-year period required for sex offenders.

40 Ibid.
43 South Carolina has abolished parole eligibility for violent offenders. In Georgia, a constitutional amendment eliminates parole eligibility for offenders convicted of certain violent crimes. New York has eliminated parole for second-time felons convicted of a violent felony (as defined by the legislature).
46 Ibid., p. 23.
In Virginia, both commissions recommended that some type of post-release supervision be retained. The Governor's Commission called for a mandatory period of supervision for six months to three years following release, the exact length of which would be determined by the sentencing judge. The legislative commission's plan suggested that offenders receive an extended maximum term beyond the minimum term imposed by the sentencing judge. Once the offender has served the mandatory term, "clearly prescribed release criteria or other risk assessment tools" would be used to evaluate the offender's fitness to return to society. The legislative commission suggested that a judicial entity (i.e., a public safety commission) determine whether the offender must serve the extended term. In addition to this extended term, the legislative commission recommended a period of post-release supervision for all released inmates.

In addition, the Governor's Commission recommended that transitional policies be developed for inmates as they approach their release dates. These programs would provide for a "gradual step-down" within the correctional facilities, including work centers or drug treatment facilities. This recommendation was similar to legislation in effect in other states that provides transitional periods for inmates prior to release. For example, in Ohio, offenders can be transferred from incarceration to community sanctions. Ohio felons serving ten years or less are eligible for judicial release and, if release is granted, the court can place the offender in any community-control sanction for up to five years. The percentage of time served before becoming eligible for judicial release is determined on a sliding scale according to the original sentence length. In Delaware, judges may sentence offenders to more than one level of punishment, allowing offenders to "flow down" from more to less severe sanctions.

1994 Special Session Legislation

The final TIS legislation incorporated the recommendations of the Governor's Commission regarding three major issues: parole, good time, and release supervision. Parole was abolished and replaced with a period of post-release supervision similar to supervised probation. Good time accrual was bounded by a maximum of 4.5 sentence credits (54 days per year) to be earned through program participation and adherence to applicable rules and requirements. TIS legislation allows judges to impose a suspended term of six months to three years for each felony count in addition to the term of incarceration. This additional suspended term is imposed in conjunction with a six-month to three-year period of post-release supervision (the length of the additional term and the post-release supervision need not be the same). The additional term is imposed if the offender does not adhere to the conditions of post-release supervision (essentially the same as traditional probation). Judges can continue to suspend a portion of the imposed sentence and place the offender on probation after incarceration.

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49 Ibid., p. 6.
As a result of the TIS reforms, the caseload of the parole board has declined steadily since 1996. The parole board decisions are now limited to those offenders whose crimes were committed prior to January 1, 1995, and certain conditional release decisions. Geriatric prisoners sentenced after January 1, 1995, can be considered for conditional release by the parole board after serving a minimum of five years (offenders over 65) or ten years (offenders over 60) of the sentence imposed.51 As in other states that have abolished discretionary parole, the parole board no longer retains any role in supervising offenders after release, either on post-release supervision or parole. In mid-1996, the parole board support staff was reorganized under the Community Corrections division of the Department of Corrections, which supervises all offenders released from Virginia prisons.

**Truth-in-Sentencing (Incorporating Longer Sentences for Violent Offenders)**

All structured sentencing systems provide judges with guidance concerning the appropriate sanctioning ranges for a particular set of case circumstances. Some systems provide only minimal guidance whereas others set rigid criteria for determining a sentence. Since 1986, Virginia has used a very detailed set of factors (which are different for each major offense group) to score a sentencing guidelines case. When determining sentence length, the score serves as the midpoint for a sentencing range that sets parameters for judicial compliance. Outlining how the ranges evolved from the previous guidelines system is important for understanding the current TIS guidelines system.52

**Prison Time Served vs. Sentence Imposed**

The basic tenet of TIS legislation is to more closely align imposed sentences with time served. Felony offenders in Virginia are now required to serve at least 85% of their prison sentence behind bars. Prior to the 1994 sentencing reforms, many argued that the combination of parole eligibility and good time credits meant that time served was typically much less than the judicially imposed sentence. However, the exact amount of time served by offense and offender type was not generally known. One reason for this lack of information was that an acceptable time served percentage had not been established in Virginia. The main reason, though, was the inherent complexity of the calculation to determine eligibility for discretionary release. As discussed earlier in this chapter, multiple good-time accrual rates, parole guidelines and risk assessment, and subjective impressions of rehabilitation made it difficult to determine consistently, and with confidence, the amount of time offend-

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52 Individuals interested in the precise structure and content of the guideline scoring system and the ranges of sentence recommendations should see the Virginia Sentencing Guidelines Manual (1998). The Virginia sentencing guidelines incorporate individual case circumstances that vary widely in terms of the nature of the offense, victim injury, extent and seriousness of prior record, and prior terms of incarceration or legal restraint. All of these factors are used on the guideline worksheets when determining a sentence recommendation.
ers would serve in prison. It was simply very difficult, if not impossible, to articulate the entire release eligibility process. Both democrats and republicans acknowledged the inadequacy of a system in which actual time served could not be more easily determined or predicted.

Despite the inherent difficulties, a necessary first step was to determine the actual relationship between judge-imposed sentences and time served. A database was thus created from the Offender Based State Correctional Information System (OBSCIS) maintained by the Department of Corrections. Controlling for offense and prior prison commitments, the average sentence and time served for offenders released from prison between 1988 and 1992 was calculated. The table below estimates the average percent of sentence served under TIS (1995-1997) compared to the actual time served for selected offense groups prior to TIS (1988-1992). During the years prior to TIS, offenders in Virginia prisons typically served between 20% and 48% of their imposed sentences.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average Imposed Sentence</td>
<td>Average Time Served</td>
</tr>
<tr>
<td>1st degree murder</td>
<td>35.2</td>
<td>10.3</td>
</tr>
<tr>
<td>2nd degree murder</td>
<td>16.7</td>
<td>5.7</td>
</tr>
<tr>
<td>Rape/sodomy</td>
<td>9.2</td>
<td>4.4</td>
</tr>
<tr>
<td>Robbery</td>
<td>13.8</td>
<td>4.4</td>
</tr>
<tr>
<td>Malicious wounding</td>
<td>8.3</td>
<td>2.8</td>
</tr>
<tr>
<td>Voluntary manslaughter</td>
<td>6.6</td>
<td>2.2</td>
</tr>
<tr>
<td>Aggravated sexual battery</td>
<td>5.6</td>
<td>2.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average Imposed Sentence</td>
<td>Average Time Served</td>
</tr>
<tr>
<td>Burglary</td>
<td>6.8</td>
<td>2.2</td>
</tr>
<tr>
<td>Involuntary manslaughter</td>
<td>6.2</td>
<td>1.9</td>
</tr>
<tr>
<td>Sale schedule I/II drugs</td>
<td>7.4</td>
<td>1.6</td>
</tr>
<tr>
<td>Possession schedule I/II drugs</td>
<td>5.4</td>
<td>1.4</td>
</tr>
<tr>
<td>Larceny</td>
<td>4.4</td>
<td>1.3</td>
</tr>
<tr>
<td>Sale marijuana</td>
<td>4.4</td>
<td>0.9</td>
</tr>
<tr>
<td>Fraud</td>
<td>4.3</td>
<td>1.2</td>
</tr>
</tbody>
</table>

53 The number of prior prison commitments is the only recidivism measure that statutorily affects parole eligibility. OBSCIS contains a variable called "felon term indicator" or "FTI." The FTI number equates to the number of times a person has received a prison commitment. 54 Although offenders in Virginia prisons were serving significantly less than their imposed sentence, the proportions were not far from the national average: felons sentenced in 1994 served between 32% and 55% of their sentences. See U.S. Department of Justice (1994). 55 Joint Subcommittees on Public Safety of the House Appropriations and Senate Finance Committees (1994).
The results of this analysis were fundamental to the Governor's Commission's efforts to garner support for TIS. Among all felons released from state prisons, those who had been convicted of first degree murder served an average of only 29% of their terms...those convicted of 2nd degree murder actually served slightly more, averaging 34% of their terms.... Of all offense categories, no group served, on average, as much as half of the sentence the circuit court judge thought he or she was imposing... The commission interpreted these findings as evidence of "across-the-board leniency:"

What is apparent is the absence of truth-in-sentencing in Erginia at any level. Early release is not confined to particular types of crime for which one may suppose offenders to be more amenable to treatment or less prone to recidivate. If anything, the across-the-board leniency indicates a pervasive philosophy favoring rehabilitation of criminals rather than incapacitation...

The right half of the table shows the expected average time served and the expected proportion of prison sentence served for felons sentenced between 1995 and 1997, the first three years of TIS. It is estimated that compliance with the “85% rule” now in place in Virginia will translate into offenders serving between 88% and 92% of their imposed sentences. The actual length of imposed prison sentence reflects two crucial TIS guideline design considerations. First, the guideline ranges for non-violent crimes were reduced from “effective time” to historical “time served.” Second, the guideline ranges for violent offenses were targeted for significant normative increases from past “effective time.”

Shifting From “Effective Time” to “Time Served” Sentencing for Nonviolent Offenders

As discussed in Chapter 2, specific sentence recommendations on the pre-TIS guideline worksheets were chosen based on careful analysis of past sentencing practices. The sentence ranges captured the middle 50% of past-time-served amounts for groups of similarly situated offenders. The highest 25% and lowest 25% of sentences being deemed “inconsistent” (and possibly disparate) were excluded. Hence, the sentencing worksheet recommendations reflected historical “effective sentences” (i.e., the typical judicially imposed sentence for different groups of similarly situated offenders). Most importantly, these effective sentences under the pre-TIS guidelines would be reduced by parole and good time policies.

In conjunction with parole abolition, the Governor's Commission decided to transform the sentencing recommendations of the guidelines from historical “effective sentencing” to historical “time-served” sentencing (Worksheet C). No change was

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57 Ibid., p. 22.
58 Actual time served figures reflect variation in average good time accrual rates by offense.
59 The design and purpose of each worksheet is discussed in more detail in Chapter 2. See the Virginia Sentencing Guidelines Manual (1998) for the most current version of the worksheets used to determine the sentencing recommendation for all crimes covered by the guidelines.
made to the guidelines with respect to the determination of the historical prison/no prison decision (Worksheets B and C): the rate at which offenders received a prison versus a non-prison sentence would remain consistent with past practice. In addition, the number of guideline worksheet offense groups was expanded from 8 to 12.

The move from effective sentences (pre-TIS) to time-served sentences (post-TIS) did not greatly change the amount of time nonviolent offenders would actually serve in prison. The difference rested on the proportion of the imposed sentence that would actually be served in prison (i.e., 85% under TIS). Public acceptance of the Governor's plan hinged on clarifying why recommended sentences for nonviolent offenders under TIS would sometimes appear substantially lower than in the past: under the previous system, prison sentences were often reduced dramatically by parole and good conduct allowance credits, while under the new system, the judge's imposed sentence will be served in full (with the offender eligible for only 54 days or 15% good time credit). Therefore, judicial-imposed sentences for nonviolent offenders tend to be lower under TIS, but the amount of time actually served in prison remains about the same.

The following table compares the guideline sentence ranges recommended under the previous parole system to those recommended under the TIS time-served guidelines for two typical nonviolent sentencing scenarios. Guideline sentence recommendations are calculated with great specificity depending on a variety of offense and offender factors. The TIS sentencing guidelines recommend a midpoint sentence (in months) with an accompanying range that encompasses 50% of past-time-served amounts for a group of inmates that were situated similarly in terms of offense and offender characteristics. This normative decision mirrors practice under the previous guideline system where the guideline ranges covered 50% of past effective sentences.

### Sentencing Recommendations—Comparing TIS to Previous Guidelines

<table>
<thead>
<tr>
<th>Offense Scenario</th>
<th>&quot;Effective&quot; Sentence Recommended Under Prior Guidelines (before 1/1/95)</th>
<th>TIS Offense or Offender Enhancement</th>
<th>&quot;Time Served&quot; Sentence Recommended Under TIS Guidelines (after 1/1/95)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sell Schedule I or II Drug:</td>
<td>4 yr. 11 mo. (3 yr. - 7 yr. 2 mo.)</td>
<td>No enhancement</td>
<td>1 yr. (7 mo. - 1 yr. 4 mo.)</td>
</tr>
<tr>
<td>1 count, no additional offenses, no prior record</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Larceny from Person:</td>
<td>5 yr. (2 yr. 8 mo. - 7 yr. 3 mo.)</td>
<td>No enhancement</td>
<td>1 yr. 8 mo. (11 mo. - 2 yr. 6 mo.)</td>
</tr>
<tr>
<td>2 counts, prior record for grand larcery, on probation at time of offense</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

60 During a September 1998, interview, former Governor George Allen, Sentencing and Parole Abolition Chairman Richard Cullen, and former Allen Chief Legal Counsel Frank B. Atkinson stressed that having a system of sentencing guidelines in place meant that policymakers and researchers would not have to start from scratch when devising the sentencing ranges under TIS. In addition, circuit court (felony) judges were accepting of the use and purpose of sentencing guidelines.

61 The 12 guideline offenses include murder/homicide, sexual assault, rape, robbery, assault, larceny, burglary dwelling, burglary structure, kidnapping, drugs, fraud, and miscellaneous.

Similarly, in the case of violent offenses, some recommended sentences may appear lower under the new system, but, if followed, the resulting length of stay in prison will be significantly longer under the new system (as the previous table shows, for example, in the cases of robbery and malicious wounding).

**Violent Offenders: Normative Sentence Enhancements**

During the September, 1994, Special Session, the General Assembly acted to enhance sentence recommendations for certain categories of crimes beyond the level of historical time served. These "normative" adjustments were made for violent crimes or in cases involving a prior violent adjudication or conviction. The process began with VCSC staff determining sentences imposed and actual time-served amounts for violent offenders who entered or left the system between 1988 and 1992. Historical time-served amounts formed the basis for normative sentencing adjustments. However, prior to enhancement, these historical sentences were increased by 13.4% to incorporate the projected award of sentence credits that might be earned under the new system.

For the crimes of first degree murder, second degree murder, rape in violation of code 18.2-61, forcible sodomy, object sexual penetration and aggravated sexual battery, the recommended prison sentence was enhanced by:

- 125% for offenders without prior convictions for violent crimes;
- 300% for those with a criminal record that has at least one violent prior felony conviction or juvenile adjudication with a statutory maximum penalty of less than 40 years, hereafter referred to as a Category II criminal record; and
- 500% for those with a criminal record that has at least one violent prior felony conviction or juvenile adjudication with a statutory maximum penalty of 40 years or more, hereafter referred to as a Category I criminal record.

For the crimes of voluntary manslaughter, robbery, aggravated malicious wounding, malicious wounding, any burglary of a dwelling house or statutory burglary of a dwelling house or any burglary committed while armed with a deadly weapon or any statutory burglary committed while armed with a deadly weapon, the recommended prison sentence was enhanced by:

- 100% for offenders with no prior violent convictions;
- 300% for Category II records; and
- 500% for Category I records.

For the crimes of manufacturing, selling, giving or distributing, or possessing with the intent to do any of the former, of a Schedule I or I1 controlled substance, the recommended prison sentence was not enhanced for those without a prior violent crime, but was increased by 200% for Category I1 and 400% for Category I records. For any guidelines offense not listed above, the recommended prison sentence was not enhanced for those without a prior violent crime, but enhanced 100% for Category I1 and 300% for Category I records.63

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63 Although the percentage enhancements mentioned here are based on normative policy decisions, there was also empirical support for increasing time served for certain groups of violent and repeat violent offenders. This research is discussed in Chapter 3.
The Impact of Enhancements on Guideline Recommendations and Actual Time Served

Legislation that codified the enhancements to historical time-served amounts specified which offenses (both current and prior record) were to trigger increases. However, individual case circumstances vary widely in terms of the nature of the offense, victim injury, extent and seriousness of prior record, and prior terms of incarceration or legal restraint. All of these factors are used on the guideline worksheets when determining a sentence recommendation. The table below illustrates the recommended guideline ranges for two violent sentencing scenarios.

Sentencing Recommendations - Comparing TIS to Previous Guidelines

<table>
<thead>
<tr>
<th>Offense Scenario</th>
<th>&quot;Effective&quot; Sentence Recommended Under Prior Guidelines (before 1/1/95)</th>
<th>TIS Offense or Offender Enhancement</th>
<th>&quot;Time Served&quot; Sentence Recommended Under TIS Guidelines (after 1/1/95)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robbery of residence: Firearrr use, no injury, no prior record</td>
<td>11 yr. 8 mo.</td>
<td>Violent offense enhancement</td>
<td>5 yr. 5 mo. - 6 yr. 7 mo.</td>
</tr>
<tr>
<td>Rape: Firearrr use, prior record, indecent liberties</td>
<td>30 yr. 8 mo.</td>
<td>Violent offense enhancement and prior record enhancement</td>
<td>27 yr.</td>
</tr>
</tbody>
</table>

While it is difficult to summarize how the normative enhancements affect each individual case, it is possible to examine past historical time-served amounts before TIS with projected and expected actual time-served amounts following TIS. The projected time-served amounts reflect the estimates used by policymakers during the 1994 reform process of what average judicially imposed sentences would be under TIS. Expected actual time-served amounts are based on sentences actually imposed by judges between 1995 and 1997. These figures are illustrated in the adjacent bars for both a basic case and for cases involving Category I or II prior records.65

As the bars show, both the projected and expected actual time-served amounts under TIS are greater than past practice (1988-1992). However, the original projections of time served under TIS that informed the 1994 Special Session do not fully track with expected actual time served based on sentencing practice during the first three years of TIS (1995-1997).66 Offenders convicted of first degree murder, second degree murder, and robbery with a firearm are all expected to serve more time than was originally projected by the governor's commission. On the other hand, offenders convicted of rape are expected to serve slightly less time while an offender with a forcible sodomy conviction is expected to serve the projected time. The results also vary by Category I or II prior record enhancements, with some offense groups expected to serve less time than anticipated (Category II prior record for first degree

65 A basic case is a case with no aggravating circumstances - no multiple counts, no additional offenses, no weapon use, and no prior record. Category I and II case definitions are explained earlier in this section.
66 The divergence between projections and expected actual time served amounts are due primarily to differences in the rate at which judges were expected to comply with guideline recommendations and the rate at which they actually comply. See Chapter 5 for an analysis of judicial compliance.
murder and Category I for Robbery with a Firearm) and some serving more than projected (Category II for Second Degree Murder). Rape offenders are expected to serve slightly less time for a basic and Category I case and about 60% less for a Category II case as compared to the projected time served. Despite these differences, rapists are still expected to serve more than double the time under TIS as compared to the old system.67

Related Analyses
The Relationship Between Offender Age and Recidivism
A major concern of the Governor's Commission on Parole Abolition and Sentence Reform was the increase of young violent offenders. According to studies provided by the Department of Criminal Justice Services, most "criminal careers" begin around age 14 and peak by age 21, with "retirement" by the late 20s or early 30s. The most prevalent age of arrest for violent crime (e.g., murder/manslaughter, robbery) was 18. This was particularly troubling to the commission given that recent increases in violent crime were occurring at a time when the most crime-prone age group (14 to 21) was at a ten-year low. Staff also conducted analyses to show the connection between age and time served and the likelihood of being recommitted to prison. As shown on the right, young offenders convicted of violent crime who spend less than three years in prison are more likely to be recommitted to prison as compared to older offenders or young offenders who spend more than three years incarcerated.

The VCSC discussed specific strategies to target and "incapacitate" young violent offenders through their most crime-prone years. Although the commission elected not to use offender age as an explicit scoring factor within the guidelines structure, they felt that much the same effect could be achieved by adding the number of prior juvenile adjudications into the calculation of prior record. Hence, sentence enhancements tied to prior record would apply more quickly to younger offenders with any history of serious criminal activity. Prior to TIS reform, an offender's juvenile record was not scored on a guidelines worksheet.

Mandatory Minimum Sentences Under TIS
Mandatory minimum sentencing laws have existed in Virginia for almost 30 years and are currently in effect for 45 discrete felony offenses. The TIS sentencing guidelines make recommendations for almost 95% of Virginia's felony offenders, includ-

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67 The reasons for these time-served variations may well be a function of data limitations and noncomparable sample sizes for the different subgroups of offenders. For example, projected time-served amounts were estimated on larger, more general, groups of offenders. The current time-served figures are calculated on individualized offender groups that have actually been sentenced under the new TIS system. Combining the more serious offender groups with specific offense and offender factors reduces the size of the samples that can be analyzed in a comparable way. Judicial compliance with the guidelines may also impact time-served figures. This can be seen with the rape category, where compliance is lower than all other offense groups (most departures in rape cases are mitigated sentences). This compliance issue has been addressed in an ongoing fashion by the VCSC, with revised worksheets attempting to better model the specific circumstances (e.g., victim age, relationship, etc) in rape cases.
ing offenses for which mandatory minimum terms apply. In these cases, the mandatory minimum penalty supersedes the guideline recommendation. An offender convicted of a crime that carries a mandatory minimum penalty must receive at least the specified minimum sentence, which cannot be suspended in whole or in part. However, prosecutors often avoid charging offenders with offenses that carry mandatory minimums. An offender who has cooperated in the prosecution of other cases may not be charged with the mandatory minimum offense or a lengthy mandatory minimum may be used as a bargaining chip in plea negotiations. For example, sex offenses are among the hardest of cases to successfully prosecute, and certain concessions are sometimes made to ensure a felony conviction with accompanying prison time. The VCSC estimates that applicable mandatory minimums are charged in only about 50% of sex offense cases.

In 1996, the General Assembly requested that the VCSC study the effects of mandatory minimum felony sentences on the use of prison beds and to identify deviations from the guidelines necessitated by the existence of mandatory minimum laws. The commission developed a computer program to estimate the sentence expected under the new TIS guidelines for all offenders affected by provisions of mandatory minimums. Six categories of mandatory minimum offenses were analyzed by the commission: injury to law enforcement officer, sale of drugs to minors, firearm use in felonies, sexual assault (subsequent conviction), violent sexual assault (subsequent conviction), and habitual traffic offender. The six categories of offenses cover 99% of the total number of convictions which carry a mandatory minimum. The VCSC determined that in most cases, the guidelines sentence must be adjusted upward to satisfy mandatory minimum requirements.

### Mandatory Minimum Penalties Impact Analysis Results, 1995

<table>
<thead>
<tr>
<th>Offense</th>
<th>Average Guidelines Sentence Increase Under Mandatory Minimum (months)</th>
<th>Estimated percentage of new prison admissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injury to Law Enforcement Officer</td>
<td>1.9</td>
<td>.2%</td>
</tr>
<tr>
<td>Sale of Drugs to Minor Three Years Junior</td>
<td>27.8</td>
<td>.1</td>
</tr>
<tr>
<td>Use of Firearm in the Commission of Certain Felonies</td>
<td>3.1</td>
<td>.5%</td>
</tr>
<tr>
<td>Sexual Assault, Subsequent Conviction</td>
<td>19.7</td>
<td>.3</td>
</tr>
<tr>
<td>Subsequent Violent Felony Sexual Assault</td>
<td>0</td>
<td>.2</td>
</tr>
<tr>
<td>Habitual Traffic Offender</td>
<td>3.9</td>
<td>.3</td>
</tr>
</tbody>
</table>

With respect to required prison space, the VCSC determined that the impact of mandatory minimums needed to be evaluated in terms of the application of the law as well as the severity of the penalty. For example, while the presumptive sentence increase (relative to the guideline recommendation) is much greater for sexual assault than habitual traffic, the VCSC study determined that the widely used habitual

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69 Oklahoma and Utah have repealed mandatory minimum penalties as part of sentencing reform. See Ostrom, Kauder, Rottman, and Peterson (1998).
traffic offender mandatory minimum had far greater impact on prison use than sexual assault mandatory penalties. The total number of mandatory minimum convictions for 1995 is shown below.

Of 21,756 Felony Convictions—1,605 Carried a Mandatory Minimum Penalty

<table>
<thead>
<tr>
<th>Offense</th>
<th>Mandatory Minimum Penalty</th>
<th>Number of 1995 Convictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Conviction for a Violent Felony</td>
<td>Life</td>
<td>0</td>
</tr>
<tr>
<td>Violent Sexual Assault, subsequent conviction</td>
<td>10 years to life</td>
<td>0</td>
</tr>
<tr>
<td>Drug Kingpins</td>
<td>20 years</td>
<td>5</td>
</tr>
<tr>
<td>Sexual Assault, subsequent conviction</td>
<td>5 to 20 years</td>
<td>0</td>
</tr>
<tr>
<td>Firearm Use During Felony</td>
<td>3 to 5 years</td>
<td>613</td>
</tr>
<tr>
<td>Drug Crimes w/Firearm</td>
<td>2 to 5 years</td>
<td>22</td>
</tr>
<tr>
<td>Assault Law Enforcement Officer</td>
<td>6 mos. to 2 years</td>
<td>56</td>
</tr>
<tr>
<td>Homicide (vehicular)</td>
<td>1 year</td>
<td>9</td>
</tr>
<tr>
<td>Traffic (habitual offender)</td>
<td>1 year</td>
<td>886</td>
</tr>
<tr>
<td>All other Offense</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Most of Virginia's mandatory minimums were enacted when parole was in effect. When the General Assembly abolished parole and the earlier system of good time, felons who formerly served between 20 and 50% of their sentences will now serve at least 85% of their imposed prison term. The General Assembly has chosen not to amend the general criminal statutes that delineate mandatory minimum penalties. As a result, the actual penalty, as measured by time served, for felonies with mandatory minimum provisions occurring after January 1, 1995, has increased significantly.

Use of Alternative Punishment/Treatment Options

One of the legislative requirements included in the comprehensive reform package of 1994 was the goal of diverting 25% of prison-bound offenders to alternative sanctions. At the time sentencing reforms were being debated, policymakers were concerned about the rising prison population and that a significant share of the state budget was being spent on corrections. In Virginia, as elsewhere, there was a great deal of interest in identifying effective ways to punish nonviolent felons in a more cost-efficient fashion. Alternative sanctions or so-called intermediate punishments have been developed to address this need. However, many have raised the concern that alternative punishments may be applied to the unintended offender population—those who otherwise would receive probation (i.e., net widening). Also, there is the issue of whether the use of intermediate sanctions, in lieu of traditional incarceration, is effective in protecting public safety. Given these issues and concerns lawmakers drafted language (Code of Virginia §17-235) that charges the VCSC to accomplish the following:

- Prepare guidelines for sentencing courts to use in determining appropriate candidates for alternative sanctions;
- Develop an offender risk assessment instrument for use in all felony cases, based on a study of Virginia felons, that will be predictive of the relative risk that a felon will become a threat to public safety;
Apply the risk assessment instrument to nonviolent felony offenders and, with
due regard for public safety needs, examine the feasibility of achieving the goal of
placing 25% of such offenders into alternative sanction programs.

The VCSC has interpreted its directive from the legislature as the diversion of
25% of nonviolent offenders into other means of punishment than incarceration.
Decisions about diversion are to be guided by the score obtained from a risk assess-
ment instrument, prepared at the time of the pre-sentence investigation report for
use by the sentencing judge.

The VCSC has developed and is currently pilot testing a risk assessment tool to be
used by judges at the time of sentencing to identify the best candidates for diversion
based on past recidivism. The use of the risk assessment instrument is expected to
remain voluntary. Over the next 18 months, the NCSC and VCSC will expand their
partnership to include a comprehensive evaluation of risk assessment and diversionary
policies that are now being implemented. The evaluation will have three goals: 1) to
evaluate the methods used to develop the risk assessment instrument; 2) to evaluate the
use, workload implications, and effectiveness of the instrument; and 3) to establish a
methodology and baseline database to conduct a complete impact evaluation.

The intended goals of risk assessment can only be accomplished if adequate resources
and programs exist for offender diversion. Virginia currently uses boot camp, detention
center, intensive supervision, day reporting, and electronic monitoring as alternative
sanction options. On July 1, 1998, roughly 500 persons were in the detention,
diversion, and boot camp programs, up from 300 persons the same month in 1997. In
1998, however, there were more than 700 offenders on facility waiting lists.
The Impact of TIS on Prison Population in Virginia

The impact of TIS legislation on Virginia's correctional resources was a source of early concern to lawmakers. During the 1994 Special Session, the Virginia General Assembly passed legislation requiring the VCSC to estimate the impact of all proposed sentencing legislation on correctional resource needs. The comprehensive sentencing reform package included the following features with the greatest potential to affect correctional populations:

- All felony offenders must serve at least 85% of their prison sentence;
- Violent offenders will serve substantially longer prison sentences (two to six times longer in many cases);
- Juvenile adjudications of delinquency for felony-level crimes are now scored as part of an offender's prior criminal record;
- Local jails will now house offenders receiving sentences of six months or less rather than 24 months or less;
- The VCSC was charged by statute to develop for judges' use a risk assessment instrument that would be predictive of the relative risk that an offender poses to public safety. The goal was to use this instrument to identify and divert to community corrections up to 25% of nonviolent felons who would otherwise be incarcerated.

This chapter describes the specific techniques used by the VCSC to estimate the impact of TIS on future correctional populations in Virginia and compares the forecasted impact to actual impact. It is worth noting that the Virginia General Assembly went on to adopt a very sensible constraint when TIS was implemented in 1995: All proposed sentencing legislation in Virginia must be accompanied by a "Commission Prison Impact Statement." A bill will die in the legislature unless the necessary funds are appropriated.

71 §30-19.1:5 of the Code of Virginia.
72 §17-235, paragraphs 4, 5, and 6 of the Code of Virginia.
73 Following the 1994 reforms, Virginia joined the ranks of other states (e.g., Kansas, Minnesota, North Carolina, Oregon, and Washington) where enabling legislation required explicit consideration by the sentencing commission of the impact of sentencing guidelines on correctional resources, Tonry (1997). When reviewing state sentencing commission performance through the early nineties, Tonry (1991, 1993) maintained that a necessary condition for success was the legislative requirement that "sentencing policy be meaningfully related to correctional resources." Tonry asserted that the ability of Minnesota, Oregon, and Washington to hold their prison populations within capacity for extended periods after guidelines implementation was attributable to their "resource constraint" policies, Tonry (1997). Success, though, has not necessarily been long-lived. Prison populations in Minnesota and Washington rose rapidly following 1993-legislated increases in penalties provoked by sensational crimes in each state.
74 Similarly, the sentencing commission in North Carolina has made skillful use of "impact statements" on a number of occasions to dissuade legislators from enacting punitive legislation that would have taxed correctional resources well beyond their current capacities. North Carolina has successfully managed to constrain the growth of its state prison system by expanding the use of intermediate sanctions and community corrections for less serious offenders and still increasing sentences for the most serious offenders, Wright (1998). Effective management was possible in North Carolina because "the sentencing structure is effectively predicting the correctional resources that the State will need and is directing serious felons and misdemeanants to longer prison terms while sending less serious felons to non-prison punishments" (p. 13).
Estimating the Impact of Truth-in-Sentencing on Correctional Populations

Forecasts of the correctional population incorporating different sets of assumptions. In general, forecasts may be qualitative, quantitative, or a blend of both approaches. Qualitative forecasting methods generally use the opinions of experts to predict future events subjectively. Such methods are used when historical data are either not available or of questionable validity. Quantitative forecasting techniques analyze historical data to predict future values for a variable of interest (e.g., prison population).

Quantitative forecasting models can be grouped into two varieties—univariate models and causal models. Univariate models predict future values based solely on past values of the time series. When a univariate model (e.g., exponential smoothing, decomposition methods, Box-Jenkins models) is used, historical data are analyzed to identify and extrapolate patterns in the data to produce forecasts. For example, past levels of prison population are used to forecast future levels of prison population. Univariate forecasting models are most useful and accurate when conditions are expected to remain relatively constant or the time frame of the forecast is short. However, these models are less useful when it comes to forecasting the impact of changes in policy.

Causal forecasting involves identifying variables that are related to the variable being forecast. Once these causal variables are identified, a model is developed that describes the relationship between all the variables. For example, information on the number of new admissions to prison, expected sentence length, and parole grant rates could be used to forecast future levels of prison population. Causal models are better suited than univariate models for assessing the impact of policy alternatives on the future values of the variable of interest. This approach to modeling is often employed to produce forecasts with longer time horizons because it can incorporate theoretical or other assumptions about future events.

One type of causal model that has seen extensive application to court and correctional policy modeling and alternatives forecasting is the simulation model. Simulation refers to the use of mathematical models to study systems that are characterized by the occurrence of discrete, random events. These individual events are represented by random vari-

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76 A time series is a chronologically ordered sequence of observations on a particular variable. Bowerman and O'Connell (1993).
77 Simulation is an activity whereby one can draw conclusions about the behavior of a given system by studying the behavior of a corresponding model whose cause-and-effect relationships are the same as (or similar to) those of the original system, Gottfried (1984). Software to develop simulation models has become increasingly available and progressively easier to use. Simulation models historically were often developed from scratch using a programming language such as FORTRAN or C++, though these were generally eclipsed by programming languages designed specifically for simulation such as SLAM and SYMSCRIPT. Increasingly, PC-based software such as @Risk and the PC-version of SLAM are becoming available to develop simulation models. See, e.g., Kramer, Lubisz, and Kempinen (1989); Flango and Ostrom (1996).
ables whose values are generated by a computer. This approach synthesizes the randomness that is present in a real system, allowing the behavior of the original system to be reproduced artificially.

Given the VCSC's need to examine numerous alternatives to implementing TIS, the commission opted to develop a stochastic-process computer simulation forecast model (Criminal Justice Research Center @Risk). The model was developed to simulate judicial decisionmaking and the demand for prison beds specifically within the context of the new TIS guidelines. The program has the flexibility to model a wide variety of alternative sentence ranges and recommendations. There are numerous interrelated components of the simulation program: Criminal justice system admissions, guidelines emulation, judicial compliance, rates of earned sentence credits, recidivism rates, and the offender-mix distribution. In addition, the model can accommodate anticipated changes in the crime prone "at-risk" age groups within the admissions module of the program. The simulation model is programmed using the Excel spreadsheet program and the @Risk software package.

**CJRC @Risk Simulation Model**

There are two central elements to simulating state prison population: stock population (i.e., the number of inmates imprisoned at the beginning of the simulation) and new admissions. The stock population was defined as the number of inmates in Virginia prisons just prior to sentencing reform and the abolition of parole in January, 1995. It was assumed that the stock population of prisoners sentenced prior to the 1994 reforms would gradually decline over time at a rate largely determined by the Parole Grant Rate (PGR). The higher the PGR, the faster the rate at which the stock population will decline.

The @Risk model begins to estimate the number of new admissions by generating a Length-of-Stay (LOS) for different categories of hypothetical offenders during each month of the forecast period. This step differentiates the pool of new admissions into offender groups and assigns an average sentence to the offenders in each group. The generated LOS is then used to determine how many months each specific group of offenders will remain in prison. The LOS generated for each hypothetical offender group (sentenced before and after reform) was then used to model the LOS for all offenders admitted during a particular month. Admissions during a particular month are described as a monthly admissions cohort.

The model uses special counting cells called queuing cells to keep track of the contribution that each category of offender from each monthly admissions cohort makes to the prison population for all subsequent months in the forecast time horizon. For all months after the hypothetical offender has exited the system (because of parole release or sentence completion), the offender's monthly admissions cohort

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77 Microsoft Excel Version 4.0.
80 @Risk Version 3.0.
81 Creech (1997).
adds nothing to the queuing cells. This process is repeated for every monthly admissions cohort. After the last month in the forecast time horizon is reached, the contributions of each admissions cohort to the prison population of each month are summed and a forecast of prison population for each month is produced. A variety of summary statistical measures (e.g., mean, standard deviation, percentiles, minimum, maximum, etc.) are produced as part of the process.

Initial validation. A prerequisite to using simulation to model policy alternatives is that the simulation model be validated. This is typically accomplished by inputting historical data for the model parameters, using the model to generate forecasts for a time period that has already passed, and then comparing the accuracy of the post-hoc forecasts to the actual numbers. If the forecasts of historical data are accurate according to pre-established criteria, the model is considered valid.

The historical approach to validation was not used because the type of historical data needed for the simulation were not available (e.g., compliance with the TIS guidelines, rate of attrition of the stock population, etc.). Instead, the model was validated by comparing the forecasts produced by the CJRC @Risk model with forecasts derived from a second model. This alternative model, the NCCD Prophet simulation model, was being used by the DOC to forecast how the stock population (on-hand when TIS reform was expected to be implemented in January, 1995) could be expected to exit. In this "prospective" validation, the two models were found to produce similar results when they incorporated similar assumptions. While validation with historical data would have provided a less assailable assessment, the prospective method employed represented an informed attempt to address the essential step in model building of model validation, especially given the limitations of their data.

### Estimating the Effect of TIS on Correctional Populations Using Simulation

To prospectively assess the possible impact of TIS on the state-responsible prison population, it was necessary to produce two different types of forecasts. The first assumed that the sentencing status quo would continue throughout the forecast time horizon (called a baseline forecast). This assumption implies that the "effective time" sentencing guidelines in use prior to reform in 1994 would continue to be used during the entire forecast time horizon. The second forecast was based on the assumption that sentencing reform and abolition of parole would occur as articulated by the Governor's Commission. The difference between the baseline (no reform) and Governor's Commission (Proposal X reform) forecasts of prison population represents the expected impact of sentencing reform and parole abolition on prison population.

Baseline forecasts were produced by the DOC using the NCCD Prophet Model. The @Risk model was used to produce the forecasts of prison population under

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83 The NCCD model used a truncated exponential distribution to determine LOSs for the stock population. This is a common assumption in queueing models and has empirical support in a variety of situations, Greenberg (1979).
Proposal X. Stock prison population for both models was assumed to decline at a rate that was determined by the parole grant rate incorporated in the forecast. Further, both models used the same new commitment admissions forecasts developed by the DOC (using Box-Jenkins models). Parole violators in both models were included with other new commitments using the 1994 levels of parole revocation.

The Proposal X forecasts incorporated the normative adjustments in LOS for specified violent offenses as well as other changes in LOS for nonviolent offenders brought on by the move to time-served guidelines. It was assumed that inmates under Proposal X would serve, on average, 88.2% of their total sentence. In addition, the Proposal X forecasts reflected the change in the definition of state responsible inmates from any prisoner sentenced to more than two years to any prisoner sentenced to more than six months. It was also assumed that Proposal X would take effect in January, 1995.

The need for prison beds was forecast using two different assumptions about the parole grant rate: 41.6% and 15%. The 41.6% parole grant rate is the five-year average over the period 1988 to 1992. The 15% figure was a "best-guess" estimate of the future PGR made by the Parole Commission. This estimate was requested when officials observed the PGR declining sharply following Governor Allen's election in 1993. The trend lines here show the state-responsible prison population forecasts for both PGR assumptions. The baseline and Proposal X forecasts under both scenarios indicate that between June, 1995, and June, 2005, prison population in Virginia will approximately double. Not surprisingly, the relationship between the expected impact of the baseline and the Proposal X forecasts on correctional population is contingent upon the assumptions made about the PGR.

Assuming a 41.6% PGR, the Proposal X forecast for June, 2005, exceeds the baseline forecast by 2,929. On the other hand, assuming a 15% PGR, the baseline forecast exceeds the Proposal X forecast by 3,733. The reason that the baseline forecast is higher under the 15% PGR is that the model assumes all inmates will serve 85% of their historical "effective time" sentence. Under these PGR assumptions, both scenarios show the expected impact of Proposal X on prison population to be relatively modest, resulting in either a 5% increase over the baseline forecast if one assumed a PGR of 41.6%, or a 6.7% decrease assuming a PGR of 15%. Therefore, the ultimate impact of Proposal X was shown to be largely dependent on the PGR.

One point of agreement between the forecasts is the rapid, almost explosive growth in prison population expected between 1995 and 2005. Both forecasts clearly implied that prison capacity would need to expand greatly over the next decade. A non-obvious result, assuming that the sharp decline in the PGR following Governor Allen's election would continue indefinitely, is that the adoption of all TIS reforms would actually reduce expected prison population relative to the status quo.

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Criminal Justice Research Center (1994).
The Impact of TIS on Corrections, 1995-1997

Forecast v. Actual. Both the baseline and Proposal X forecasts predicted that prison population would expand rapidly and significantly between 1995 and 2005. The bars to the left compare actual and forecasted prison population for 1995-1997; the forecasts exceed the actual population each year. The difference was marginal for 1995 (2.2%) but for 1996 (10.3%) and 1997 (20.8%), it was quite large. Contrary to expectations, the net increase in prison population between 1995 and 1997 was only 5% (compared to a forecasted increase of 24%). Indeed, there was no growth at all in prison population between 1996 and 1997. Clearly the forecasts were in error. The source of forecast error. Errors in simulation typically result from three sources: (1) the data, (2) an invalid model (resulting from improper specification or changes in the system being modeled), and (3) implementation of the model (especially programming errors). The second and third sources of error were minimized, if not eliminated, by the pre-implementation validation of the model (at least initially). In this case, it appears that an inaccurate estimate of the admissions stream was the source of error. The bar charts here compare the actual and forecasted admissions (new commitments plus parole violators) and show that the forecasts substantially exceeded the actual admissions for every year (by 22% for 1995, 24% for 1996, and 33% for 1997). Contrary to expectations, the net increase in prison admissions between 1995 and 1997 was only 14% (compared to a forecasted increase of 24%).

At least two reasons can be identified for the inaccurate admissions forecasts: (1) declining arrests for violent crime and (2) slower than expected growth in total arrests. As seen in the trend lines on the next page, the violent crime rate for selected offenses declined for each crime type over the last five years. From 1993 to 1997, murder and robbery rates decreased by 13%, rape by 18%, and assaults by 3%. These unforeseen drops followed increases for each offense group during the late 1980s and early 1990s and contributed significantly to an overestimate of prison admissions.

In addition to the inaccurate admissions forecast, two other potential sources of error could come from invalid specification of the model. First, if the stock prison population (not affected by TIS) is actually declining at a rate different than the assumed PGR, then the prison population forecast will be inaccurate. As seen in the following table, data on parole rates since the implementation of TIS suggest that the VCSC estimate of a post-implementation PGR of 15% was reasonably accurate. However, with respect to the baseline forecast, it is questionable whether a PGR of 15% would have been sustained indefinitely for all offenders sentenced under “effective time” guidelines.

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85 Department of Public Safety (1997).
87 Department of Public Safety (1997).
88 One might also speculate that the drop in violent crime rates is in part the result of the extended incapacitation of violent offenders incarcerated since the implementation of TIS (Marvell and Moody, 1994; Spelman, 1994; Levitt, 1996), though it is certainly controversial and difficult to prove this hypothesis (Austin and Irwin, 1993).
Second, while the simulation approach employed by the VCSC was appropriate given the types of policy alternatives it was required to evaluate, the method used by the original @Risk model to estimate the LOS of each admission cohort incorporates an assumption that is unrealistic at face value. Specifically, the assumption in question is that the LOS of all admissions of the same category admitted during the same month will serve identical LOSs. A more commonly used and realistic approach would generate a unique LOS for each hypothetical admission. While the sentencing guidelines narrow sentencing variability for specified classes of offenders, they do not totally eliminate such variability. The initial @Risk model has been revised several times, and this feature (i.e., using one LOS for all members of each admissions category of each monthly admissions cohort) was changed so that LOS sampling occurred independently for each admission. The latest version of @Risk avoids problems of sampling strategy by using actual sentences for all admissions in a queuing model framework.

Prison expansion. The forecasts produced by the VCSC were not used by the DOC for planning in general and for facilities expansion in particular. Since 1987, Virginia has projected the size of its future prison and jail populations through a process known as "consensus forecasting,"\(^\text{89}\) which combines technical forecasting expertise with the judgment and experience of professionals working in all areas of the criminal justice system. Based on forecasts produced in this manner, Virginia expanded its prison capacity throughout the latter half of the 1980s and early 1990s. The recent downturn in admissions has resulted in these forecasts missing their mark by a wide margin. As a consequence, the amount by which inmate population exceeds the design capacity of the prison system declined from 52% to 37% between 1997 and 1998. Although prison population still exceeds technical capacity, Virginia currently plans to lease as many as 3,290 prison beds to other states.

Both estimates (i.e., by CJRC and by DOC) clearly overestimated the expected prison population, in part because both used the same inaccurate admissions forecast. This inaccuracy related to assumptions and overestimates of the number of state-responsible inmates being held at local jails. However, the CJRC model accomplished its primary objective in that it effectively demonstrated that TIS Sentencing Guidelines could be implemented without causing unmanageable pressure on the state-responsible prison population. In sum, the methodology employed by the CJRC to accomplish this fairly complex demonstration was comprehensive and conceptually sound.

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\(^{89}\) Virginia Criminal Sentencing Commission (1997).
The Impact of TIS on Judicial Compliance

The primary goal of Virginia's sentencing guidelines is to establish rational and consistent sentencing standards subject to the state's TIS laws. A common measure of sentencing guideline system performance is the extent to which sentences adhere to or are in compliance with the guideline recommendations. High levels of statewide judicial compliance indicate that sentences are being meted out consistently. Likewise, concern with unwarranted sentencing disparity is reduced when compliance is high. In addition, compliance and departure analyses provide an empirical look at judicial satisfaction with the effect of guidelines on judicial discretion. One interpretation is that high compliance rates, especially in a voluntary setting like Virginia, indicate judicial acceptance and approval of the sentencing recommendations. In contrast, low compliance rates may indicate that judges are dissatisfied with the limits being placed on their discretion. Departures become the way judges inform policymakers that the guidelines place undue constraint on discretion and do not allow for appropriate or flexible sentencing decisions.

This chapter examines the effect on judicial compliance following the implementation of TIS legislation in Virginia. Judicial compliance with the TIS guidelines is voluntary; judges may depart from the guidelines and impose a sentence that is either more or less severe than recommended. When a judge elects to sentence outside the guideline range, the judge must submit a reason why to the commission. The first step in our assessment of judicial satisfaction with the sentencing guidelines is to define judicial compliance. Next, guideline compliance in the years just prior to reform (1991-1994) is compared with compliance following the passage of TIS legislation (1995-1998). The chapter concludes with a review of the most frequently cited reasons for departure.

Defining Compliance

The VCSC examines compliance with Virginia's guidelines using three general measures: dispositional, durational and overall compliance. These alternative measures allow the commission to gain perspective on which elements of the guidelines are functioning well and which have gained less acceptance among the judiciary.

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91 Judges use the guidelines as a reference but may choose to sentence outside them in particular cases. While compliance with guideline recommendations is voluntary, completion of guidelines worksheets is now mandatory as stipulated in § 19.2-298.01 of The Code of Virginia. Also, in cases when judges choose to sentence outside the guidelines recommendations, judges must, pursuant to § 19.2-298.01(B), provide written explanations for the departures (Virginia Criminal Sentencing Commission, 1995 Annual Report, p. 6).
92 All compliance analysis reviewed in this chapter was originally conducted by VCSC. See Virginia Criminal Sentencing Commission (1998).
Dispositional compliance is defined as the rate at which judges sentence offenders to the same type of disposition recommended by the guidelines as follows: 1) probation/no incarceration, 2) incarceration up to six months, or 3) incarceration over six months. Because the recommendation as to the type of disposition is the foundation of the sentencing guideline system, the commission believes dispositional compliance is an important measure. The rate of dispositional compliance in FY1998 was 83% and has remained largely stable since the introduction of TIS in 1995.

Durational compliance is defined as the rate at which judges sentence offenders to terms of incarceration that fall exactly within the recommended guideline range. In Virginia, the measure of durational compliance considers only those cases for which the guidelines recommend an active term of incarceration and the offender receives an incarceration sanction of at least one day in jail. Durational compliance among FY1998 cases was 76% and has varied by specific type of offense since the implementation of TIS. This result indicates that judges more often agree with the recommended type of sanction (dispositional compliance) than they do with the recommended sentence length in incarceration cases.

Overall compliance measures the extent to which Virginia's judges concur with recommended type of disposition and length of incarceration. Overall compliance is the combination of sentences found to be in strict and general compliance. For a case to be in strict compliance, the sentence must meet both dispositional and durational criteria. General compliance is less exacting and "results from the commission's attempt to understand judicial thinking in the sentencing process, and is also meant to accommodate special sentencing circumstances." For a case to be in general compliance with the sentencing guidelines, it must meet one of the following three criteria:

- **Compliance by rounding** provides an allowance in instances when the active sentence handed down by a judge or jury is "very close" to the sentencing guideline recommended range. For example, a judge is considered in general compliance with the guidelines if he sentenced an offender to a two-year sentence based on a guideline recommended range that goes up to one year eleven months.

- **Time served compliance** is intended to accommodate judicial discretion when a judge sentences an offender to pre-sentence time served in a local jail when the guidelines call for a short jail sentence. Even though the judge does not sentence an offender to post-sentence incarceration time, the commission typically considers this type of case to be in general compliance.

- **Compliance due to alternative sanctioning** arises most often in habitual traffic offender cases as the result of amendments to the law effective July 1, 1997. The change allows judges, at their discretion, to suspend the mandatory minimum 12-month incarceration term in habitual traffic felonies and sentence these offenders to a Boot Camp, Detention Center, or Diversion Center Incarceration program.

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For cases sentenced since the effective date of legislation, the commission considers either mode of sanctioning to be in general compliance with the sentencing guidelines.

**Comparing Strict and General Compliance**

**Strict Compliance**
- Actual sentence is of the same type as Sentencing Guidelines recommendations (probation/no incarceration, jail, or prison) and falls within the Sentencing Guidelines ranges.
- Actual sentence is life and Guidelines recommend life.
- Actual sentence is detention center incarceration per Guidelines recommendation option for offenders with no prior felony record convicted under § 18.2-248(C) in cases involving 1 gram or less cocaine.
- Actual sentence is Boot Camp and the Sentencing Guidelines recommend incarceration up to three months.
- Actual sentence is Detention Center Incarceration or Diversion Center incarceration and the Sentencing Guidelines recommend incarceration of three to six months.

**General Compliance**

*Compliance due to rounding*
- Actual sentence is anything greater than 36 years and the Sentencing Guidelines recommend a sentence of anything greater than 36 years.
- Actual sentence is life and the Sentencing Guidelines recommend a sentence of anything greater than 36 years.
- Actual sentence is anything greater than 36 years and the Sentencing Guidelines recommend life.
- For Sentencing Guidelines recommendations of incarceration that fall below 20 months, actual sentence falls within ±1 month of the Sentencing Guidelines recommended range.
- For Sentencing Guidelines recommendations of incarceration greater than 20 months, the actual sentence falls within ±5% of the Sentencing Guidelines recommended range.

*Compliance due to time served*
- For cases where the Sentencing Guidelines recommend probation or incarceration up to six months, the judge checks the Time Served box when recording Effective Sentence.
- For cases where the Sentencing Guidelines recommend probation or jail, the judge cites Time Served as reason for departure.
- Actual Sentence is a jail sentence of ≤ 90 days (but not exactly 30 days, 60 days, 90 days, one month, two months, or three months) and the Sentencing Guidelines recommend no incarceration.

*Compliance due to alternative sanctioning*
- Actual sentence is Youthful offender program and the actual effective sentence still falls within the Sentencing Guidelines prison recommendation.
- For cases subject to 12 month mandatory minimum penalty under habitual traffic offender statute, judges who suspend the mandatory minimum term and place offender in Boot Camp, Diversion Center Incarceration or Detention Center Incarceration will be considered as being in compliance with the guidelines.
Overall Compliance and Departure

Overall compliance has remained relatively high since the inception of sentencing guidelines in 1991. The overall compliance rate has ranged from 72 to 76% and currently sits at 75% (between 1/95 and 3/30/98 for 42,269 cases). Because Virginia's sentencing guidelines are designed to accommodate judicial discretion (they remain voluntary and there is no mandate to adhere to the guideline recommendations), the commission does not view the attainment of 100% compliance as an ultimate goal.

The rate at which judges sentence offenders more severely than the sentencing guideline recommendation, known as the "aggravation" rate, has ranged from a low of 9% (just prior to the implementation of TIS) to the current level of 13%. The rate at which judges sentence offenders to sanctions below the guideline recommendation, or the "mitigation" rate, has dropped slightly since the introduction of TIS, declining from a high of 17% to a current level of 11%. Isolating the departure cases between 1995 and 1998, 53% of the departures are cases of aggravation of the sentencing guideline recommendation, while 47% are cases of mitigation. These patterns of compliance and departure have been stable since the TIS guidelines were instituted.

Examining sentencing guidelines compliance rates by the 12 primary offense groups reveals that compliance is neither consistent, nor the departure pattern uniform, across the offense groups. The bars to the right show post-TIS compliance rates range from a high of 82% for larceny cases to a low of 62% for sexual assault cases. In general, higher rates of compliance were found for property crimes than the person offense categories—larceny, fraud, drugs, burglary (other than dwellings) all had compliance above 70%. The sentences for person offense groups (assault, burglary of a dwelling, homicide, rape, robbery, kidnapping, and sexual assault) all had compliance rates below 70%.

Overall compliance within offense groups has not changed much as a result of TIS legislation, although the changes that have occurred are more pronounced in the crimes against the person categories. Under TIS, the person offense groups (including burglary of a dwelling and burglaries with weapons) receive statutorily mandated midpoint enhancements that increase the guideline recommendation by a minimum of 100-125%. Further midpoint enhancements are applied in cases where the offender has a violent prior record, resulting in a sentence recommendation up to six times longer than historical time served by violent offenders convicted of similar crimes under the old parole laws. Undoubtedly, midpoint enhancements affect compliance rates, and the impact is likely not uniform across guideline offense groups. However, it is currently impossible to disentangle the role played by differential midpoint enhancements in overall compliance.

Departures under TIS guidelines (measured by mitigation and aggravation rates) differ significantly across offense groups. The table below shows that property crimes, fraud, and burglaries of other structures (nondwellings) exhibit a marked mitigation pattern among the departures, while drug and larceny offenses reveal patterns of aggravation.

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94 §17.1-805 of Code of Virginia.
Departures from the burglary of dwelling guidelines resulted in a mitigation rate much higher than the other property offenses and similar to the rates of mitigation among several of the person crime categories. The violent offenses of rape and robbery, and to a lesser extent assault and kidnapping, demonstrated strong mitigation patterns. In fact, in more than one-fourth of the rape cases and over one-fifth of the robberies, judges sentenced below the guideline recommendation. Despite the midpoint enhancement for violent current offenses and violent prior records, the guidelines offense groups of homicide and sexual assault showed stronger aggravation patterns from the guidelines than any other crime categories. To a certain degree, the aggravation patterns for homicide and sexual assault offenses may reflect judicial sentencing for “true” offense behavior in cases where a plea agreement resulted in a less serious charge at conviction.95

### TIS Guidelines Departure Rates by Offense, 1995-1998

<table>
<thead>
<tr>
<th>Offense</th>
<th>Mitigation Rate</th>
<th>Aggravation Rate</th>
<th>Total Cases Examined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assault</td>
<td>17.7%</td>
<td>14.0%</td>
<td>2,001</td>
</tr>
<tr>
<td>Burglary/Dwelling</td>
<td>19.8</td>
<td>13.5</td>
<td>2,313</td>
</tr>
<tr>
<td>Burglary/Other Structure</td>
<td>15.5</td>
<td>12.2</td>
<td>1,585</td>
</tr>
<tr>
<td>Drug</td>
<td>10.2</td>
<td>15.1</td>
<td>17,415</td>
</tr>
<tr>
<td>Fraud</td>
<td>15.4</td>
<td>5.9</td>
<td>5,903</td>
</tr>
<tr>
<td>Kidnapping</td>
<td>19.5</td>
<td>17.7</td>
<td>215</td>
</tr>
<tr>
<td>Larceny</td>
<td>7.1</td>
<td>10.5</td>
<td>10,864</td>
</tr>
<tr>
<td>Murder/Homicide</td>
<td>12.6</td>
<td>22.3</td>
<td>610</td>
</tr>
<tr>
<td>Rape</td>
<td>29.0</td>
<td>8.8</td>
<td>468</td>
</tr>
<tr>
<td>Robbery</td>
<td>21.9</td>
<td>14.5</td>
<td>1,928</td>
</tr>
<tr>
<td>Sexual Assault</td>
<td>11.4</td>
<td>26.8</td>
<td>938</td>
</tr>
</tbody>
</table>

With some notable exceptions, the implementation of TIS has not had a pronounced effect on compliance or departure rates (mitigations or aggravations). Furthermore, a majority of sentences fall within the guideline recommendations (i.e., for the case types listed, between 62% and 82% of the sentences complied with the sentencing guidelines). The fairly high compliance rates may be, in part, an artifact of the evolving nature of the sentencing guidelines. The VCSC updates the sentencing guidelines annually and continually fine-tunes the sentencing worksheets.96 This occurs by continually analyzing PSI data, completed guideline worksheet data, and other information that comes before the commission. Some decisions to modify guideline worksheets are strictly data driven (as is the case with setting the ranges),

95 Offense scoring under Virginia's sentencing guidelines is based solely on the conviction offense, and unlike the United States Sentencing Guidelines, does not score the real offense behavior in instances where a charge reduction occurs. Virginia's guidelines do, however, account for elements of the crime such as victim injury and use of a weapon. Aggravation rate for violent offenses, then, may reflect the desire on the part of judges to impose sentences more closely in line with the actual offense committed rather than the offense to which the offender plead guilty.

96 Virginia's sentencing guidelines are based on a continuing analysis of judicial sentencing decisions in the Commonwealth. This is done to ensure that judges are provided with guidelines that reflect both historical sentencing decisions and changes in more recent sentencing decisions (Judicial Sentencing Guidelines Committee, 1993, p. 7).
and some are more qualitative (as is the case with increasing time-served amounts for targeted offenders). However, most changes are a combination of quantitative and qualitative input. For example, a relatively high departure for sexual assault cases caused the commission to conduct a more in-depth study of convicted sex offenders. As a result of this study, age of the victim was added to the sentencing worksheet for sexual assault cases as a sentence enhancement.

**Judicial Departure Reasons**

Compliance with the TIS guidelines, as with its predecessor (the guidelines in place under the parole system) is voluntary. However, following the 1994 reforms, judges were required to articulate and submit reasons for sentencing outside the guideline recommendations. “The opinions of the judiciary, as reflected in their departure reasons, are highly relevant to the Sentencing Commission as it deliberates on revision recommendations. Unlike their counterparts in many other states using sentencing guidelines, Virginia’s judges are not limited by any prescribed or standardized reasons for departure set forth by the commission; they are free to depart for any reason they find compelling and must only communicate that reason to the commission.”

VCSC staff state that recommendations for revisions to the guidelines, submitted to the General Assembly each December in the commission’s annual report, draw on the opinions of the judiciary reflected in departure reasons. As a consequence, the commission is active in encouraging judges to provide specific reasons for departure. One important result is that, over time, judges are now more likely to give a reason for their mitigated or aggravated sentences. “No reason cited” went from being the most common departure reason for both mitigation and aggravation (ranked number 1) at the end of 1995 to one of the least (ranked 9 of 10 for mitigation and ranked 10 of 10 for aggravation) during the period 1995-1998.

During the first three years of TIS, mitigation cases reveal that the most commonly cited reasons for departure were that an alternative sanction or community punishment was imposed (21.2%) and that the offender had good rehabilitation potential (16.7%). For aggravated sentences, the most commonly cited reasons

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97 The “Convicted Sex Offender” study found that three-fourths of all convictions in the sample involved a sexual assault on a child under 18 years old, and almost half of the victims were under 13.
98 Recommendation 4: The sentencing guidelines for sexual assault offenses should be amended by adding a factor to sections A and B to increase the total worksheet score in cases involving victims who are under the age of 13 at the time of the offense. This modification significantly increases the likelihood that sexual assault offenses involving victims under 13 will be recommended for prison, and, in the cases that will not result in a prison recommendation, this modification ensures these offenders will receive a jail term. These recommendations do not apply to rape, forcible sodomy and object penetration (Virginia Criminal Sentencing Commission (1996), p. 79).
100 Detention Center Incarceration, Diversion Center Incarceration, Boot Camp Incarceration, intensive supervised probation, day reporting, and the drug court programs are examples of alternative sanctions available to judges in Virginia.
101 For instance, judges may cite the offender’s general rehabilitation potential or they may cite more specific reasons such as the offender’s progress in drug rehabilitation, a strong work record, the offender’s remorse, a strong family background, or restitution made by the offender.
were the overall criminal lifestyle/orientation of the offender (13.8%) and that the offender had previously been convicted for the same offense (12.4%). The charts on the previous page list the ten most frequently cited judicial reasons for sentence departure.

**Jury Compliance**

Virginia is one of only six states where the defendant in a non-capital case has the option of having his guilt determined by jury and, if convicted, sentenced by that same jury. Virginia's original sentencing guidelines were developed from the Pre-Sentence Investigation database which included sentencing decisions made by juries. Thus, the statistical analyses used to create the TIS guidelines also factored in jury sentences.

Virginia juries have typically handed down sentences more severe than the sentencing guidelines recommendations. In fact, since the implementation of TIS, a jury sentence was more likely to exceed the guidelines than fall within the guideline range. Some speculate that many potential jurors are unaware of Virginia's move to TIS and do not realize that 85% of the imposed term will be served. This concern gains credence because Virginia juries are not allowed, by law, to receive any information regarding the sentencing guidelines to assist them in their sentencing decision. "Differing opinions have arisen regarding the instruction of juries during the sentencing phase of a trial. Some have argued that juries should be instructed as to the abolition of parole and the 85% time-served requirement so that they may make their sentencing decisions based on how much time an offender will serve. Others support the longstanding Supreme Court opinion that juries should not be informed of the parole eligibility of the defendant and should not concern themselves with what happens after the sentencing (Jones v. Commonwealth, 1952)." 

Since 1986, as seen in the trend line to the left, the overall rate of jury adjudicated cases in Virginia has been declining. Criminal justice professionals offer three possible explanations for the downward trend. First, starting in 1987, data and analysis on felony sentencing became available in reports released by the commission documenting the longer sentences imposed in cases adjudicated by juries. Second, when the General Assembly enacted provisions for a system of bifurcated jury trials in 1994, jurors were presented for the first time with information on the offender's background and prior record to assist jurors in making a sentencing decision. Third, the abolition of parole and the implementation of TIS in 1995 occurred within a context where jurors are still forbidden by law from receiving any information on the sentencing guidelines. It is not surprising that criminal defense attorneys are increasingly reluctant to steer their clients toward a jury trial.

The Virginia General Assembly enacted provisions for a system of bifurcated jury trials that became effective beginning July 1, 1994. In bifurcated trials, the jury establishes the guilt or innocence of the defendant in the first phase of the trial, and then, in a second phase, the jury is presented with information on the offender's background and prior record to assist jurors in making a sentencing decision.

Since the implementation of TIS, the overall compliance rate of jury sentences with the sentencing guidelines has been 43% compared to 76% in nonjury trials. The majority of the departures have been aggravations (i.e., 45% aggravations for jury trials and 12% aggravations for nonjury trials). There has been virtually no difference in the rate of mitigated sentences for jury and nonjury trials since the implementation of TIS.

In Virginia, judges are permitted by law to reduce a jury sentence they feel is inappropriate. More often than not, however, they do not amend the sanction. For example, just after the implementation of TIS, judges modified about 29% of jury sentencing cases. In cases modified when the jury was outside the guideline range, nearly half (45%) were cases where the final sentence was still outside the guidelines recommendation. Judges brought a high jury sentence into compliance with the guideline recommendation in only four out of ten modifications. Unlike overall compliance and departure rates, judicial modification patterns appear to have changed since the implementation of TIS. Specifically, 86% of judicial modifications after TIS were made to jury sentences outside the guideline recommendation compared to 69% of judicial modifications in the last year of the old parole system.

Compliance rates in states with sentencing guidelines range from 75-100%. Comparing compliance rates across states is only useful for portraying differences in how guideline systems have been developed or modeled. A 100% compliance rate (in North Carolina) simply means judges are bound statutorily to adhere to guideline recommendations. States with lower compliance rates may have drawn narrower sentencing ranges, or may measure compliance differently depending on the purposes of monitoring.

To the extent that the goal of sentencing guidelines is to structure judicial discretion, not to eliminate it, then some level of departure is to be expected—if not encouraged—in order to account for atypical cases. This perspective differentiates sentencing guidelines from mandatory sentencing. In Virginia, the majority (between 72-76%) of prison sentences handed down by judges pre- and post-TIS have complied with sentencing guidelines. The consistently high level of overall compliance indicates that guidelines were developed and statistically modeled in a fashion consistent with past sentencing practices. In addition, a compliance rate in the 70-80% range shows that judges are reasonably satisfied with guidelines recommendations. The most recent figures (updated June 1999) show overall compliance at a high of 78%. Commission staff speculate that the recent increase in compliance may be related to media reporting of compliance rates by name of judge.

It is important to note that patterns of judicial compliance vary when examined for individual case types. Thus, it would appear that targeting adjustments to the sentencing guidelines for specific case types and circumstances (e.g., rape sexual assault, robbery) would be a reasonable way for the VCSC to maintain or increase compliance rates. In fact, it is an ongoing strategy of the VCSC to target individual offenses or specific scoring factors for revision on the worksheets.
CHAPTER SIX

Estimating Preventable Crime Under TIS

Virginia legislators wanted to know how the extended incapacitation of violent offenders under TIS would effect crime rates. Specifically, they asked for information on how Virginians would benefit from locking up violent offenders for longer periods of time. Implementing the governor's proposed sentencing reforms would require spending a larger share of the public treasury on housing violent offenders. Under normal circumstances, imprisoned offenders do not pose a threat to the general public. But is the cost associated with giving certain offenders lengthier sentences justified through a reduction in the amount of crime they might otherwise commit if they had been released earlier? Is there a beneficial “incapacitation effect” associated with TIS?

This chapter reviews two VCSC studies that estimate the “benefits of incarceration” in terms of the amount and value of crime prevented by sentencing reform.

- Estimate of preventable crime and recidivism under TIS: How much new crime is prevented when certain offenders serve longer sentences?
- Estimate of the cost of crime prevented under TIS: What is the benefit (or cost savings) to society from having fewer victims of crime?

There is no generally accepted method for determining the amount of crime prevented through longer prison sentences. Much of the literature on this subject focuses on ways to measure and calculate a theoretical criminal career parameter lambda (λ), which is the frequency (average annual rate) of offending by active offenders (sometimes referred to as an individual offending frequency). Given knowledge of λ for a particular category of inmate (based on offense seriousness, prior record, and other offender characteristics) and the expected Length-of-Stay, Ti, for that inmate, the number of offenses prevented by incarceration of that inmate would be equal to λ(Ti). The total number of preventable crimes (C) for N offenders of a particular category could be estimated as

\[ C = \sum_{i=1}^{N} \lambda T_i \]

A fundamental unresolved issue with this approach to estimating the number of crimes prevented by incapacitation is how to measure rates of offending. For example, controversy remains as to whether offending patterns vary with the age of the offender or remain relatively constant over the offender’s active criminal career.

104 See, e.g., Gottfredson and Hirschi (1986); Blumstein, Cohen, and Farrington (1988); Zimring and Hawkins (1988).


106 Cohen (1986); Visher (1986); Horney and Marshall (1991); Marvell and Moody (1994).

107 Gottfredson and Hirschi (1986).

Moreover, the information required to determine rates of offending for various classes of offenders would likely be significant. Indeed, given these basic concerns, some reject \( \lambda \) entirely as a useful construct.\(^{109}\)

The staff of the VCSC opted to develop a methodology for counting "preventable" offenses that avoided the uncertainties associated with the measurement of \( \lambda \) by actually counting the number of offenses that occurred between the inmates' actual release date and the later release date proscribed by Proposal X.\(^{110}\) The VCSC study was designed to identify preventable convictions based on an analysis of offenders released from prison between 1986 and 1991 who recidivated with a new felony (nondrug) conviction between 1986 and 1993. Crimes committed by offenders released prior to 1986 were excluded from the study.

The study of preventable crime produced by the VCSC included: (1) developing a framework to estimate "preventable" recidivism, (2) compiling a comprehensive database to study preventable recidivism (1986-1993), (3) developing a projection of preventable recidivism for 1995-2005, and (4) forecasting preventable crime from 1995 through 2005. For purposes of this analysis, recidivism was measured by a new felony (nondrug) conviction. Measuring recidivism in this way provides a conservative estimate of preventable crime because felony convictions are only a fraction of the number of crimes actually committed.\(^{111}\)

**Step One: Developing a Framework to Estimate Preventable Recidivism**

The study began by estimating recidivism that would have been prevented between 1986 and 1993 by the extended incapacitation of violent offenders. A sample was drawn consisting of offenders who would have been subject to normative sentence adjustments (due to the nature of their current offense and/or prior criminal record) under the Governor's plan (Proposal X) and who were released from prison during the period 1986 to 1991. Because the last release dates for this offender group occurred at the end of 1991, and subsequent criminal activity was tracked through 1993, all offenders in the sample were monitored for a minimum of two years following release.

To identify any felony convictions that occurred after the offender's release, each case in the sample was tracked using the Pre/Post-Sentence Investigation (PSI) database. First, a revised release date was calculated to approximate the date the offender would have been released had Proposal X been in effect at the time of the offender's original conviction. The new release date was calculated using the midpoint value of the recommended sentence range under the Proposal X sentencing guidelines for each offense type.

"Preventable" offenses were identified based on whether they occurred after the offender's actual release and prior to the Proposal X release date. These offenses were

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\(^{109}\) See, e.g., Gottfredson and Hirschi (1986).

\(^{110}\) Criminal Justice Research Center (1994).

\(^{111}\) For a more complete discussion of measuring recidivism, see Chapter 7.
considered preventable because they presumably would not have occurred if the offender was still incarcerated. New felony convictions occurring after the Proposal X release date were not considered preventable. Felony drug offenses were not considered preventable because the nature of the drug trade is such that “replacement” effects would have almost certainly occurred.

**Step 2: Compiling a Comprehensive Database to Study Preventable Recidivism (1986-1993)**

In this step, the necessary data were identified and assembled. This included:

- Producing a distribution of historical time-served amounts under the pre-TIS guidelines (by offense type) for offenders who would be affected by the normative sentence adjustments.
- Calculating a recidivism rate for this affected group of offenders by determining the percentage of offenders in this category released from prison or jail who subsequently were convicted of a new felony (nondrug) offense (r).
- Calculating the average number of preventable felony convictions (using the PSI database) per recidivist offender in the affected sample (f).
- Deriving two additional distributions showing the time across all recidivist offenders from (1) release date to a new violent felony offense and (2) release date to a new nonviolent (nondrug) felony offense resulting in conviction.


VCSC staff began by forecasting the number of offenders who would be convicted of offenses subject to the normative sentence adjustments under Proposal X. The forecasts were produced by an ARIMA (Auto-Regressive Integrated Moving Average) model using monthly data on convictions for the targeted offenses from 1985 through 1993. Monthly forecasts were produced for the period from January 1995 through December 2005.

A release date for each offender in the forecast was determined using the average historical time served for the offender's offense class (derived from the distribution of historical time served assembled in Step Two). An estimate of the total number of offenders released each month in the forecast horizon was produced (Rj, where j represents the month of release) by summing (across offense type) the forecasted number of offenders (xij, where i represents the offense type and j represents the month) convicted of offenses subject to the normative sentence adjustments under Proposal X who were expected to be released during month j

\[ R_j = A_i x_{ij} \]

The recidivism rate (r, derived in Step Two) was applied to the forecast of offenders expected to be released during each month of the forecast horizon. The product is an estimate of the number of offenders released for normatively adjusted offenses
who will recidivate with a new felony (non-drug) conviction ($D_j$), for every month in the forecast horizon, where

$$D_j=rR_j$$

The number of preventable felony convictions per month (produced by the recidivist offenders affected by Proposal X) was estimated ($C_j$). The estimate was produced by taking the product of the number of preventable felony convictions per recidivist offender ($f$, calculated in Step 2) and the forecast of the number of recidivist offenders released each month of the forecast horizon ($D_j$) as follows

$$C_j=fD_j$$

At this stage, the forecast of these preventable felony convictions must be distributed across the months after the offenders’ release to simulate the pattern in which these offenders actually recidivate following their release from prison. To this end, preventable convictions were first disaggregated into violent and nonviolent preventable offenses and then by new offense type. This was accomplished by applying the proportion of preventable violent convictions ($pv$) to the forecast of preventable total felony convictions per month ($C_j$). Thus, the number of preventable violent felony offenses that resulted in conviction per month ($V_j$) was equal to

$$V_j= pv(C_j)$$

while the number of preventable nonviolent felony convictions per month ($P_j$) was equal to

$$P_j= (1-pv)(C_j)$$

Once the number of violent and nonviolent preventable convictions for each month between 1995 and 2005 was estimated, the next step was to distribute these convictions across time using the two distributions calculated in Step 2 (the time from release date to either (1) a new violent felony offense or (2) a new nonviolent (non-drug) offense that resulted in conviction). This step produced estimates of both the number of violent ($N_v(j)$) and nonviolent ($N_p(j)$) preventable offenses (resulting in conviction) expected to occur each month between 1995 and 2005.

In summary, the specific types of violent and nonviolent offenses expected to be committed by recidivist offenders were estimated using proportions derived from historical data (Step Two). The result was a forecast of the number of preventable felony offenses (by offense type) expected to result in conviction during each month between 1995 to 2005.\footnote{If the (historically derived) proportion of preventable violent felony offenses accounted for by murder was represented by $p(1)$, for rape by $p(2)$, for robbery by $p(3)$, and for assault by $p(4)$, then the number of preventable murders occurring during month $j$ would be equal to $p(1) N_v(j)$, the number of preventable rapes would be equal to $p(2) N_v(j)$, the number of preventable robberies would be equal to $p(3) N_v(j)$, and the number of preventable assaults would be equal to $p(4) N_v(j)$. Similarly, if the (historically derived) proportion of preventable}

From 1995-2005 an estimated 119,989 felony crimes would be prevented under the Commission's Plan.


The number of reported crimes always exceeds the number of criminal convictions. During this step, the estimated number of preventable felony convictions was used to estimate the overall reduction in reported felony offenses attributable to TIS. The ratio of the number of index crimes reported to the police to the number of convictions for index crimes between 1991 and 1993 was calculated. For example, during this period, there were 6.7 rapes reported to the police for every rape conviction. These ratios were then applied to the forecast of the number of preventable convictions for each index offense category to produce estimates of future preventable index crime reported to the police. For example, if the ratio of the number of rapes reported to the police to the number of convictions for rape is designated as \( r_p \), then number of preventable rapes in month \( j \) \( \left[ Pr(j) \right] \) is estimated to be equal to

\[
Pr(j) = r_p p(2) Nv(j),
\]

where

- \( p(2) \) = proportion of preventable violent felony offenses accounted for by rape
- \( Nv(j) \) = the number of preventable offenses (resulting in conviction) in month \( j \).

Using this methodology, the CJRC estimated that there was an average of 12 felony offenses reported for each felony conviction (across all index offense categories, reported over a multiyear period). This average reported offense-to-conviction ratio implies that for every future preventable felony conviction there would be an additional 12 index crimes prevented (and thus not reported) due to the extended incarceration of offenders under Proposal X.

The trend lines here show the forecast (1995-2005) of preventable reported felony crimes under Proposal X. More than 26,000 violent and 93,891 nonviolent felonies were expected to be prevented by the implementation of Proposal X between 1995 and 2005.

Conclusions

The methodology for estimating preventable crime just described is analytically complex and makes numerous interrelated behavioral assumptions. As a consequence, the nonviolent felony offenses accounted for by burglary was represented by \( p(3) \), for arson by \( p(6) \), and for motor vehicle theft by \( p(7) \); then the number of preventable burglaries occurring during month \( j \) would be equal to \( p(3) Nv(j) \), the number of preventable arsons would be equal to \( p(6) Nv(j) \), and the number of preventable robberies would be equal to \( p(7) Nv(j) \).

\[p(3) \text{ for burglary}, \quad p(6) \text{ for arson}, \quad p(7) \text{ for motor vehicle theft.}\]

\[13^3 \text{ Murder, rape, robbery, assault, burglary, arson, and motor vehicle theft.}\]

\[14^\text{ Note that the Criminal Justice Research Center also developed a more comprehensive estimate of the cost of recidivism in Virginia (Criminal Justice Research Center, 1994a) which also included law enforcement, correctional and judicial, as well as victim, costs of all (i.e., not just preventable) felony recidivism in 1993. These were estimated to total $670 million in 1994.}\]
accuracy of the estimates may be affected by potential sources of statistical error and possible challenges to the assumptions. First, while not a criticism, the choice of study period constrains the results. Forecasted recidivism for the years 1995-2005 is based on the patterns and experience of an earlier period of time (1986-1993) that may no longer be representative. Falling crime rates and record employment levels after 1993 may indicate a change in many criminal careers. Second, primary results, such as the number of violent felony convictions prevented by Proposal X are calculated by combining many separate estimates. Each estimate contains potential measurement error that is exacerbated when the individual estimates are combined. Third, the manner in which repeat crimes were distributed across time (i.e., using average time to recidivism) could be challenged as unrealistic.

On the other hand, the estimates were produced quickly using a carefully conceived method designed to make the most out of available data. The approach avoided attempts to measure complex, theoretically challenging quantities such as through expensive and time-consuming longitudinal research. In addition, there are several reasons to believe that these estimates met a basic goal of producing conservative estimates of preventable crime. Several other studies on this subject use much higher ratios to estimate the actual number of crimes committed by an offender compared to each felony conviction. Zedlewski (1987), in his analysis of the costs and benefits of confinement, cited a Rand Corporation survey of inmates in California, Michigan, and Texas that found the average number of crimes committed per year by an offender was 187, with a median of 15 crimes per year. Dilulio (1990), in a survey of 425 Wisconsin inmates, found the average number of crimes committed per year to be 141, with a median of 12 crimes per year.

**Estimated Cost Savings Resulting from Preventable Crime**

The primary benefit of prevented crime under TIS is that there are fewer victims of crime. The legislature asked the VCSC to estimate the "costs of crime" avoided by individuals who did not become crime victims due to the extended incapacitation of violent offenders under Proposal X. As in the case of preventable crime, there is no widely accepted method to make such a determination. Miller, Cohen, and Wiersema contend that the costs of crime to victims are mainly (1) out-of-pocket expenses such as medical bills and property losses; (2) reduced productivity at work, home, and school; and (3) nonmonetary losses—such as fear, pain, suffering, and lost quality of life. While some of these losses are tangible and easily quantified, the

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115 For example, the ratio of reported felonies to convictions for each offense type ignores the lag relationship between reported offenses and convictions (i.e., convictions must follow the reported crime though not necessarily during the same year) which obviously causes some measurement error.

intangible losses (such as quality of life) may also be valued in dollar terms, though there is less agreement on the best method for accomplishing this. The CJRC drew on data provided by the Federal Bureau of Investigation (FBI), the Virginia State Police, National Council on Compensation Information, Jury Verdict Research, Inc., and the National Fire Incident Reporting System, to develop "a very conservative" estimate of the costs of crime (to victims) that would be prevented (or avoided) under TIS.

The CJRC's approach drew extensively on the methods used by Miller and Cohen, and their associates, in a series of studies designed to measure the cost of crime. The CJRC identified and measured victim cost of crime by focusing on the following victim "cost centers:"*1

- **Medical Costs** were derived from the Detailed Claims Information (DCI) database of the National Council on Compensation Insurance. This database longitudinally tracks medical costs for injured persons. The injury distribution from National Crime Victims Survey (NCVS) was then applied to the cost figures.
- **Mental Health Costs** associated with psychological injury were computed using a study of 391 South Carolina victims (women) of violent crimes. The rate of injury was then applied to "won" jury verdicts for emotional distress and severely disabling psychological injury. The rate that "psychological injury" occurs (as measured by the PSI database) is roughly the same for both men and women—33.5%.
- **Emergency Response Costs** were estimated at $144.00 per injury based on the National Medical Care Utilization and Expenditure Survey, 1980. This figure likely understates considerably the current costs of emergency response.
- **Productivity Losses** were estimated in the short and long terms. Short-term estimates were based on lost work days reported in the NCVS, combined with data on average daily earnings for those who work. For students (victims under age 19), the estimated value of lost school days (daily cost per pupil) was used. For long-term estimates, injury codes (ICDs) for victims of violent crimes were used in conjunction with reported hospital status times.
- **Program Administration Costs** were defined as the administrative costs of health and disability insurance. These were estimated by multiplying the costs of health and disability insurance by the percent reimbursed.
- **Lost Quality of Life** was estimated using two approaches: willingness-to-pay and jury awards for pain and suffering.

Willingness-to-pay, typically assessed by means of a survey instrument, measures the amount that people are willing to pay for day-to-day safety and to maintain their existing quality of life (defined across such dimensions as cognitive, mobility, sensory, and cosmetic that may be diminished by crime).

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Jury awards for pain and suffering are also used to estimate the lost quality of life resulting from crime. These are a function of medical care, productivity costs, category of injury, and mental health care related to emotional distress. Jury awards are based on a standard of compensation that has been defined by the courts as "one which permits the jury to award a "fair" and "reasonable" amount that compensates for pain and suffering. This was measured by examining actual amounts awarded by juries. Data were taken from Jury Verdict Research, Inc., which collects award information on virtually all personal injury cases in civil proceedings. The company claims that it can predict court awards within + or - 7%.

**Results of Cost Analysis**

The study of preventable crime under Proposal X forecasted compensatory damages by crime type based on the relationship between medical cost and productivity losses and jury awards. For example, the estimated cost (or value of a statistical life) for a murder was calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical</td>
<td>$6,467</td>
</tr>
<tr>
<td>Emergency Service</td>
<td>$520</td>
</tr>
<tr>
<td>Productivity</td>
<td>$656,192</td>
</tr>
<tr>
<td>Total Monetary</td>
<td>$663,179</td>
</tr>
<tr>
<td>Mental Health</td>
<td>0</td>
</tr>
<tr>
<td>Quality of Life</td>
<td>$1,715,918</td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td><strong>$2,379,097</strong></td>
</tr>
</tbody>
</table>

Based on the preventable crime and victim cost analyses, the commission estimated that the value of crime prevented by the implementation of Proposal X between 1995 and 2005 would yield a cumulative savings to victims and society of $2.7 billion. The trend line here shows the estimated victim costs (1989 dollars adjusted for inflation) associated with forecasted preventable violent and nonviolent crime, respectively, under Proposal X, 1995-2005.

**Conclusions**

The cost analysis, based on a highly regarded methodology developed by Miller, Cohen, and their associates, incorporated a number of elements designed to keep the estimates conservative. First, the cost estimates did not include a number of preventable crimes because cost data were not available. In addition, certain cost centers suggested by Miller, Cohen, and Wiersema\(^{121}\) were absent from the CJRC's estimates (e.g., social/victim services) due to a lack of data, while others (e.g., mental health cost estimates) are based on estimates that likely understate the true costs. Finally, lost quality of life is the largest cost component in the estimates and also the most difficult to measure. The use of both willingness to pay and jury awards are conservative and

\(^{121}\) Miller, Cohen, and Wiersema (1996).
reduce concern over this source of measurement error. As a consequence, it appears that the CJRC approach produced an estimate that can be viewed as a lower-limit to the costs of crime to victims avoidable by the implementation of TIS in Virginia.

Additional analyses using the cost-savings estimates may have been useful to policymakers. While a comprehensive benefit-cost analysis of preventable crime would be extremely difficult, a more limited comparison of the costs associated with extended incarceration of offenders with the cost savings to victims and society could have been attempted. Extended incarceration, while increasing correctional costs, reduces court and law enforcement expenditures associated with arrests for preventable crimes. These additional savings to government, along with the savings to victims and society, could be compared to the costs of extended incarceration and used, for example, to justify new prison construction. While officials laid the groundwork for such a comparison, it was never actually conducted.
CHAPTER SEVEN

Assessing The Impact of TIS on Recidivism

A fundamental issue in evaluating Virginia's new TIS policies is their impact on the amount of new crime being committed in the Commonwealth. Although the major objective of TIS reform was to ensure more certain punishment and longer prison terms for violent offenders, policymakers also raised the difficult issue of “what impact the new sentencing system may be having on Virginia’s crime rate.” Have the new laws helped to deter some persons from committing new crime because of the knowledge of tougher penalties under TIS? Does incarcerating violent offenders for longer periods of time under TIS help reduce the chances that they will commit new crimes when they are eventually released from prison? This chapter examines one critical aspect of the relationship between sentencing reform and the crime rate in Virginia: Has TIS helped reduce the level of offender recidivism in Virginia? Criminological research shows that a relatively large share of crime is committed by a small pool of known and repeat offenders. If TIS policies are successful in reducing offender recidivism, then it is likely that these policies will help reduce the crime rate generally.

As a first step in assessing what, if any, impact TIS is having on the level of offender recidivism, this chapter establishes the recent historical baseline of crime in Virginia. The second section discusses a new initiative—the Offender Notification Release Program—designed to inform offenders being released from prison about Virginia’s new sentencing laws. The final part of this chapter reviews the design of a long-range recidivism study and analyzes the pattern of recidivism for offenders released from prison prior to the implementation of TIS.

The Current Level of Crime in Virginia

Between 1993 and 1997, reported crime in Virginia declined. The overall rate of “index crime” in Virginia (per 100,000 population) dropped by over 8% from 4,210 in 1993 to 3,870 in 1997. While there was a slight increase in four of the index crimes between 1996 and 1997, the rates of all eight index crimes have declined over the past five years.

<table>
<thead>
<tr>
<th>Index Crimes in Virginia, 1993-1997</th>
<th>Rate per 100,000 population</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1993</td>
<td>4,210</td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td>4,108</td>
<td>-2.4</td>
</tr>
<tr>
<td>1995</td>
<td>4,063</td>
<td>-1.1</td>
</tr>
<tr>
<td>1996</td>
<td>3,971</td>
<td>-2.3</td>
</tr>
<tr>
<td>1997</td>
<td>3,870</td>
<td>-2.5</td>
</tr>
</tbody>
</table>

123 Index crimes are defined as murder/non-negligent manslaughter, forcible rape, robbery, aggravated assault, burglary, larceny, motor vehicle theft, and arson.
Index Crime in Virginia by Crime Type, 1993-1997

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Murder/Non-Negligent Manslaughter</td>
<td>8</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>7</td>
<td>-14.7</td>
</tr>
<tr>
<td>Forcible Rape</td>
<td>33</td>
<td>29</td>
<td>27</td>
<td>26</td>
<td>26</td>
<td>-19.2</td>
</tr>
<tr>
<td>Robbery</td>
<td>144</td>
<td>134</td>
<td>133</td>
<td>122</td>
<td>124</td>
<td>-14.1</td>
</tr>
<tr>
<td>Aggravated Assault</td>
<td>193</td>
<td>192</td>
<td>197</td>
<td>183</td>
<td>185</td>
<td>-4.0</td>
</tr>
<tr>
<td>Burglary</td>
<td>678</td>
<td>645</td>
<td>602</td>
<td>562</td>
<td>562</td>
<td>-17.0</td>
</tr>
<tr>
<td>Larceny</td>
<td>2,832</td>
<td>2,785</td>
<td>2,767</td>
<td>2,744</td>
<td>2,657</td>
<td>-6.2</td>
</tr>
<tr>
<td>Motor Vehicle Theft</td>
<td>290</td>
<td>281</td>
<td>296</td>
<td>276</td>
<td>277</td>
<td>-4.4</td>
</tr>
<tr>
<td>Arson</td>
<td>33</td>
<td>34</td>
<td>33</td>
<td>29</td>
<td>31</td>
<td>-4.8</td>
</tr>
</tbody>
</table>

The cause of this decline is difficult to interpret. On one hand, the decline in the rate of violent crime in Virginia is in line with a pattern observed nationally. The rate of index crime in the United States has fallen from 5,483 in 1993 to 4,923 in 1997 sparking a debate over why and how long this trend will last. On the other hand, the implementation of TIS in Virginia and a drop in the state crime rate raises the possibility that the two events are related. The issue of whether the drop in Virginia's crime rate can be attributed to sentencing reform or some other combination of initiatives is complex and requires considerable longitudinal data that are simply unavailable at this time. The following sections of this chapter take important first steps in addressing this issue by examining an innovative new approach to reducing future offender recidivism and establishing baseline recidivism measures for offenders released from prison prior to the TIS reforms.

Offender Notification Release Program

A deterrence effect is one way for TIS to reduce recidivism in Virginia. It may be that knowledge of the tough new penalties deters some previous offenders who would otherwise have broken the law again from committing new crimes, or at least certain types of crime. The criminological literature refers to this concept as specific deterrence: the degree to which the threat or actual application of punishment will deter an individual who has committed a crime from engaging in crime again. The Offender Notification Release Program (ONRP) was developed in 1996 as a joint effort of the VCSC and the Department of Corrections (DOC) to educate inmates leaving Virginia prisons specifically about the TIS reforms. The program provides exiting inmates an overview of the sentencing system since the abolition of parole and the institution of tougher sentencing laws for violent and repeat offenders. On average, a returning violent offender sentenced under the new guidelines should expect to serve two to six times longer than under the state's old law.

124 This concept is distinct from general deterrence, which is the degree to which knowledge of criminal penalties deters members of the general population, not just those convicted of crimes, from engaging in criminal behavior. General deterrence effects are very hard to measure because of the difficulty of assessing the depth of knowledge people have of criminal punishments and what, if any, impact this knowledge has in preventing them from committing crime. At this time, the VCSC is not undertaking any study of general deterrence under TIS.
The program has two purposes: 1) to inform inmates about to re-enter society of the changes in Virginia's sentencing and parole laws, and 2) to reduce the likelihood of recidivism. A number of criminological studies of the deterrent value of new punishment initiatives have produced mixed results, with some researchers concluding that many offenders were unaware of the change in sanctions designed to influence their behavior. From a theoretical perspective, the VCSC and the DOC believe that the deterrent value of specific punishments under TIS might be increased if the targeted population (released inmates) is adequately informed of the new sanctions for future misconduct.

As part of the offender notification program, all inmates leaving the prison system are given a type of "exit interview" where they are informed about the abolition of parole and the old good conduct credit system. Each departing inmate receives a wallet-sized "notification card" that contains the possible sentencing consequences of being arrested and convicted of a new felony offense. The program became operational statewide in January, 1997. Virginia's ONRP is the first of its kind in the nation.

The ONRP Process

Each correctional facility in Virginia has a supply of white and yellow cards that indicate the amount of time an offender can expect to serve if convicted of a new murder, rape, robbery, or aggravated assault after release from prison. White cards are given to inmates with a nonviolent record and the yellow cards are given to inmates with a violent record. The two cards show different expected time-served amounts because sentences are increased for offenders with violent prior records. The time is compared with the average time served under the previous sentencing laws that allowed for early release on parole. The next page shows the front and back of the ONRP cards (redrawn from the originals).

The Community Release Unit located within the DOC Division of Operations determines which card the inmate will receive based on a review of the inmate's record. This review is triggered in part on a form obtained from the Court and Legal Services Unit that predicts a release date based on good time and parole eligibility (for those offenders serving sentences under the old parole system). The record review helps to determine if the inmate has any outstanding charges to answer, other sentences to serve, or whether the inmate will be transferred out-of-state for similar reasons. In addition, the review identifies whether the inmate has a history of violence and therefore should receive a yellow card. All correctional facilities have been provided with a comprehensive list of all violent offenses. A "Notification of Release Post/Probation Supervision" form is then faxed to the facility indicating which card is to be assigned.

After the institution receives the DOC release information, correctional staff review the inmate's on-site records to make sure the correct card is assigned. Officials are required to give the card to the inmate as close to the day of release as possible. ONRP cards are handed out to inmates convicted of felonies who are classified as state responsible (those given state prison sentences of six months or more).
ONRP White Card — Front

WARNING: Virginia has abolished parole and imposed much longer prison sentences on criminals with past records.

- Virginia has made big changes in the way we sentence convicted criminals. Put simply, IF YOU COMMIT A VIOLENT CRIME IN VIRGINIA IN THE FUTURE, YOU WILL LIKELY BE SENT BACK TO PRISON FOR A VERY LONG PERIOD OF TIME.

- There is no more parole. The entire sentence imposed by the judge or jury will be served, with good time credits limited to five weeks per year at most.

- Most importantly of all, should you commit a burglary or any other violent crime you will serve FAR MORE HARD TIME than under the old system. The back of this card shows some examples of the ACTUAL PRISON TIME you will face if you are convicted in Virginia.

- We expect you to obey the laws and build a productive life after release. But we want you to understand the very serious consequences if you commit future violent crimes in Virginia.

ONRP White Card — Back

Actual Prison Time to Serve Under Virginia's Guidelines

These recommendations can be increased based on your prior record and the facts of the case.

<table>
<thead>
<tr>
<th>Type of Conviction</th>
<th>Old System</th>
<th>New No Parole System</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Degree Murder</td>
<td>11 Years</td>
<td>28 Years - Life</td>
</tr>
<tr>
<td>Serious Assault</td>
<td>1.5 Years</td>
<td>3 Years - 9 years</td>
</tr>
<tr>
<td>Robbery</td>
<td>2 Years</td>
<td>5 Years - 14 Years</td>
</tr>
<tr>
<td>Rape</td>
<td>5 Years</td>
<td>13 Years - 33 Years</td>
</tr>
</tbody>
</table>

ONRP Yellow Card — Back

Actual Prison Time to Serve Under Virginia's Guidelines

These recommendations can be increased based on your prior record and the facts of the case.

<table>
<thead>
<tr>
<th>Type of Conviction</th>
<th>Old System</th>
<th>New No Parole System</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Degree Murder</td>
<td>11 Years</td>
<td>50 Years - Life</td>
</tr>
<tr>
<td>Serious Assault</td>
<td>1.5 Years</td>
<td>6 Years - 9 years</td>
</tr>
<tr>
<td>Robbery</td>
<td>2 Years</td>
<td>9 Years - 14 Years</td>
</tr>
<tr>
<td>Rape</td>
<td>5 Years</td>
<td>22 Years - 33 Years</td>
</tr>
</tbody>
</table>
includes persons at work release centers but excludes those in local jails and the state boot camp (boot camp is considered a probation sentence).

**DOC Response**

The Director of DOC informed all regional directors, wardens, and superintendents of the ONRP implementation, stating:

"Issuing warning cards is a serious matter for all Department of Corrections employees. The cards are designed to inform all inmates of the consequences of committing future violent crime in Virginia. Inmates must be aware that in Virginia, they are likely to serve a much longer sentence for committing a violent crime. Staff responsible for issuing the cards need to explain the card to the inmate. Counseling staff should also spend time explaining the consequences of change in the sentencing guidelines prior to the inmate being released. When issued properly, the warning card can act as a deterrent to committing a future violent crime."  
*(DOC memorandum from Ron Angelone, Director, December 9, 1996)*

The director assigned the manager of DOC Classification and Records to oversee implementation and training for the ONRP program. Each institution, field unit, and work release center was required to send at least one representative to a training session conducted by officials from the VCSC. Training occurred at four regional locations with an average attendance of 30 people. Training sessions were short, with attendees being given general program information and working through some hypothetical release scenarios.

The NCSC evaluation team interviewed a number of individuals who work for DOC about the implementation of the ONRP. Support for the offender notification concept was strong, with several recommendations made to enhance the overall effectiveness of this program:

- **Provide a video tape explaining the ONRP to inmates.** Several DOC managers at local facilities suggested a video tape to ensure a consistent and accurate explanation of the system. Inmates currently view videos on other matters, and those interviewed feel that an ONRP video could be easily integrated into existing release procedures.
- **Provide ongoing training.** Managers indicate the need for ongoing training on program goals and how best to administer the card. In particular, a process should be developed to inform new correctional officers of the program.
- **Make it easier to get ONRP cards.** Officials at one institution have found it difficult to keep an adequate supply of ONRP cards. They mentioned having to ask for cards from a nearby institution when their own supply ran out.
- **Review the card more than once with exiting inmates.** Officials at several institutions stated that inmates were busy thinking of other things upon release, including living arrangements, transportation from the facility, personal finances, etc. The ONRP card was seldom a high priority as offenders prepared to leave prison. Officials mentioned a strategy of reviewing the card several days prior to release and again at release to increase awareness of Virginia's new sentencing laws.
The VCSC and other policymakers are interested in determining whether the ONRP increases the potential deterrent effect of Virginia's sentencing reforms among offenders being released from prison. This issue will be examined as part of a broader two-phase study of offender recidivism in Virginia. The first phase establishes a baseline recidivism rate for a cohort of offenders who were released from prison before TIS and the ONRP went into effect (the cohort is composed of offenders released in FY 1994). The second phase of the study (funds permitting) will begin at a yet-to-be-determined date and examine recidivism rates for offenders released after the implementation of sentencing reform.

**Recidivism in Virginia**

To determine whether TIS and ONRP policies have affected offender recidivism, project staff have established baseline recidivism rates for the offender population released from prison prior to the introduction of reform in January, 1995. The long-range plan is to compare the recidivism rate of offenders released pre-TIS (phase one) with the recidivism rate of offenders released post-TIS (phase two). The VCSC is now deliberating on when the second phase, measuring recidivism for those released after exposure to TIS and the ONRP, should begin.

**Sampling Methodology**

The baseline recidivism rate was developed by examining recidivism among a sample of offenders released from the Virginia Department of Corrections in FY1993. The sampling frame was prepared as follows:

- Offenders appearing on the release file who died in prison or were executed during FY1993 were excluded (53 cases).
- Offenders who had previously been released from prison for the current incarceration term (parole violators) were excluded (1,722 cases). The results of the analysis, therefore, reflect recidivism among offenders after their first release from prison for the current term of incarceration.
- Offenders imprisoned for offenses other than completed or attempted person, property or drug crimes (offenses such as habitual traffic, weapons, arson, gambling, conspiracy to commit a felony) were excluded (1,742 cases). Over half (54%) of the offenders excluded in this step were convicted of habitual traffic offenses and were imprisoned under Virginia's 12-month mandatory minimum penalty law.
- Offenders admitted prior to January 1, 1985, were excluded, since these cases predated the statewide standardization of the Pre-/Post-Sentence Investigation (PSI) report (243 cases). The PSI system will serve as the source of extensive prior record and socio-demographic data for the offenders included in the study sample. The offenders excluded in this step comprise less than 3% of released offenders remaining at this stage. Their exclusion affects a larger portion of the violent offense groups than the property and drug groups: 42% of the remaining murderers and 26% of the remaining kidnappers were admitted to prison prior to 1985, compared to less than 1% of drug offenders.
A disproportionate stratified random sample of 1,400 cases was drawn from the sampling frame (N= 8,089).

Offenders convicted of crimes against the person (murder, manslaughter, kidnapping, forcible rape/sodomy, robbery, assault, sexual assault offenses) were oversampled relative to their proportion in the sampling frame to comprise 50% of the sample cases (as seen in the table below). Within the person crime category, sampling was performed using proportionate stratification by offense group to ensure that the person offense groups are represented in the sample in the same proportions as they appear in the sampling frame. Offenders convicted of property offenses (burglary, larceny and fraud/forgery) and drug crimes have been undersampled relative to their proportion in the sampling frame to comprise the remaining 50% of the sample. As with the person offenses, property and drug cases were sampled using proportionate stratification by offense group, such that the offense groups are represented in the sample in the same relative proportions as in the sampling frame.

**Sampling Design**

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL SAMPLE</th>
<th></th>
<th>SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Within Category Proportion</td>
<td>Population Proportion</td>
<td>Total Sample Proportion</td>
</tr>
<tr>
<td><strong>PERSON</strong></td>
<td>0.19</td>
<td>0.500</td>
<td>700</td>
</tr>
<tr>
<td>Murder/Homicide</td>
<td>98</td>
<td>0.063</td>
<td>0.063</td>
</tr>
<tr>
<td>Manslaughter</td>
<td>74</td>
<td>0.047</td>
<td>0.047</td>
</tr>
<tr>
<td>Kidnapping</td>
<td>66</td>
<td>0.042</td>
<td>0.042</td>
</tr>
<tr>
<td>Forcible Rape/Sodomy</td>
<td>114</td>
<td>0.073</td>
<td>0.073</td>
</tr>
<tr>
<td>Robbery</td>
<td>480</td>
<td>0.308</td>
<td>0.308</td>
</tr>
<tr>
<td>Assault</td>
<td>526</td>
<td>0.337</td>
<td>0.337</td>
</tr>
<tr>
<td>Sex Offenses</td>
<td>202</td>
<td>0.129</td>
<td>0.129</td>
</tr>
<tr>
<td><strong>PROPERTY AND DRUGS</strong></td>
<td>0.81</td>
<td>0.500</td>
<td>700</td>
</tr>
<tr>
<td>Burglary</td>
<td>1,123</td>
<td>0.172</td>
<td>0.172</td>
</tr>
<tr>
<td>Larceny</td>
<td>1,997</td>
<td>0.306</td>
<td>0.306</td>
</tr>
<tr>
<td>Fraud/Forgery</td>
<td>564</td>
<td>0.086</td>
<td>0.086</td>
</tr>
<tr>
<td>Drugs</td>
<td>2,845</td>
<td>0.436</td>
<td>0.436</td>
</tr>
</tbody>
</table>

Once the sample was drawn, matching the sample cases to the automated PSI report data base was attempted, first by social security number (SSN) and offense, and, for cases unmatched by SSN, by CCRE (Central Criminal Records Exchange) number and offense. Overall, 69.5% of the sample cases were matched successfully, resulting in the ability to track 973 released inmates for evidence of recidivism.

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125 Comparison of the matched and unmatched sample cases reveals no significant differences by offender race, gender, age at release, and number of prior prison terms served. However, five significant differences between matched and unmatched cases (p<.05) exist by offense group, judicial circuit, year of admission and number of prior Virginia felonies served. Post-sampling weighting was applied to ensure that the data set of matched cases accurately reflects the same distributions for offense.
Due to incompatibility of data systems, the Virginia State Police agreed to provide hard copies of criminal history rap sheets from the Virginia Central Criminal History information system for each of the 973 offenders in the sample. Next, a trained coder examined each rap sheet and recorded the recidivism data elements over a three-year period that began with their release from prison. Data collection forms were optically scanned, errors were detected and corrected, and a data file was prepared by VCSC staff.

Defining Recidivism

Numerous definitions of offender recidivism have been employed to measure the frequency and extent of repeated contact with the criminal justice system. There is no single or “correct” definition of recidivism; the choice depends on the issue of interest. Potential definitions include re-arrest for any new crime, re-arrest for a specific type of new crime (e.g., identical offenses, felony offenses) re-convictions for any or for specific types of new crime, re-incarcerations, time to new arrest, etc. In addition, recidivism measures are used to analyze deterrence and incapacitation effects generally as well as to assess the risk posed by individual offenders. For example, sentencing guideline systems always include prior criminal record in the sentencing calculation and will typically impose a harsher sanction on offenders who have recidivated. Project staff gathered the following information on 30 factors relevant to measuring different aspects of recidivism.

Re-Arrest Measures

- Any new arrest – yes/no
- Date of 1st non-felony arrest
- Date of 2nd non-felony arrest
- Date of 1st felony arrest
- Date of 2nd felony arrest
- Number of misdemeanor arrests
- Number of felony arrest events
- Number of felony arrests – person
- Number of felony arrests – property
- Number of felony arrests – drug
- Number of felony arrests – other
- Arrests outside VA – yes/no
- All arrests outside VA – yes/no

Re-Conviction Measures

- Any conviction – yes/no
- Date of 1st non-felony conviction
- Sentence for 1st non-felony conviction
- Date of 2nd non-felony conviction
- Sentence for 2nd non-felony conviction
- Date of 1st felony conviction
- Sentence for 1st felony conviction
- Date of 2nd felony conviction
- Sentence for 2nd felony conviction
- Number of misdemeanor convictions
- Number of felony conviction events
- Number of felony convictions – person
- Number of felony convictions – property
- Number of felony convictions – drug
- Number of felony convictions – other
- VCC code of conviction offense
- Returned as technical violator

From this extensive set of information, four different measures of the frequency of offender recidivism and the extent of penetration of a new criminal act into the justice system were calculated:

- Any new arrest
- Any new felony arrest
- Any new conviction
- Any new felony conviction
Basic "quality of data" issues are associated with both re-arrest and re-conviction measures.

- The most inclusive measure—"any new arrest"—is commonly used by researchers to gauge recidivism and includes apprehensions for most crimes including misdemeanors and felonies. In Virginia, however, not every arrest will show up in the Virginia Central Criminal History (CCH) information system. For example, arrests for drunk in public, vagrancy, and other local ordinance violations that are not usually subject to jail time will not be included on the rap sheet. Consequently, recidivism as measured by any new arrest will result in some undercounting. On the other hand, the use of arrest may also overcount recidivism because some people who are arrested are released without being charged or ultimately found to be innocent by the court.

- Recidivism measurement that relies on conviction is also subject to questions of interpretation. One issue emerges due to plea bargaining: How does one count a criminal event that is originally charged as a felony but is subsequently reduced to a misdemeanor or even dropped entirely? Moreover, conviction measures often result in some undercounting because case dispositions are not always reliably and fully documented in case records.

Project staff believe these potential concerns only minimally affect the results of the analysis.


A two-stage approach is used to conduct a preliminary analysis of recidivism for offenders released from prison prior to the implementation of TIS. In this section, the statistical technique of logistic regression is used to analyze the extensive set of defendant-related variables in the recidivism database discussed above. The goal is to determine which of the many potentially important factors do the best job of "explaining" the likelihood of recidivism. Once the most influential factors are identified, the next section employs a graphical analysis to illustrate the association among many of the most significant factors and the various measures of recidivism.

The Statistical Model.

Whether an individual released from prison will recidivate with a new arrest or a new conviction is very difficult to predict with any degree of certainty. However, it is possible to reasonably estimate the probability of recidivism by examining the statistical relationship between the characteristics of the person being released and their observed pattern of recidivism. The likelihood of recidivism is known to be influenced by factors such as age, race, gender, type of offense, and offense history (Gendreau, Little and Goggin, 1996). The following table shows the eleven variables that were included in the current study because of their strong potential to predict recidivism.

126 The Gendreau, Little, and Goggin study provides a convenient distillation of much of our cumulative knowledge of the factors associated with adult recidivism and provides justification for many of our choices of predictor variables. They used meta-analytic techniques to
### Predictors of Recidivism

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Measurement Levels</th>
<th>Explanation</th>
<th>Means or Percentages</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>1 = age 14 - 21</td>
<td>Age at release from incarceration</td>
<td>1=10.5%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 = age 22 - 24</td>
<td></td>
<td>2=17.6%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 = age 25 - 29</td>
<td></td>
<td>3=23.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 = age 30 - 34</td>
<td></td>
<td>4=19.5%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 = age 35 - 39</td>
<td></td>
<td>5=14.9%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 = age 40 +</td>
<td></td>
<td>6=14.4%</td>
<td></td>
</tr>
<tr>
<td>Race</td>
<td>0 = Non-White</td>
<td>Race of released inmate</td>
<td>0=34.7%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 = White</td>
<td></td>
<td>1=65.3%</td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td>0 = Female</td>
<td>Gender of released inmate</td>
<td>0=11.4%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 = Male</td>
<td></td>
<td>1=86.6%</td>
<td></td>
</tr>
<tr>
<td>Incarceration Offense</td>
<td>1 = Person</td>
<td>Type of offense for which inmate was institutionalized</td>
<td>1=19.3%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 = Property</td>
<td></td>
<td>2=45.2%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 = Drugs</td>
<td></td>
<td>3=35.2%</td>
<td></td>
</tr>
<tr>
<td>LOS</td>
<td>Months</td>
<td>Number of months inmate was institutionalized</td>
<td>20.23</td>
<td>15.63</td>
</tr>
<tr>
<td>Legal Status</td>
<td>0 = No legal status</td>
<td>Whether inmate had an official legal status with the court (e.g.,</td>
<td>0=56.5%</td>
<td>1=43.5%</td>
</tr>
<tr>
<td></td>
<td>1 = Legal Status</td>
<td>probation or parole) at the time of the incarceration offense</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialization</td>
<td>Number of convictions</td>
<td>Number of times previously convicted of offense of the same type as</td>
<td>.71</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the incarceration offense</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felony Events</td>
<td>Number of felony</td>
<td>Number of prior (to incarceration offense) sentencing events</td>
<td>1.22</td>
<td>1.65</td>
</tr>
<tr>
<td></td>
<td>sentencing events</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felonies Served</td>
<td>Number of felonies</td>
<td>Number of prior felony convictions resulting in incarceration</td>
<td>.33</td>
<td>.67</td>
</tr>
<tr>
<td>Misdemeanors</td>
<td>Number of</td>
<td>Number of prior misdemeanor convictions</td>
<td>4.82</td>
<td>6.49</td>
</tr>
<tr>
<td></td>
<td>misdemeanors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Juvenile Record</td>
<td>0 = No Juvenile</td>
<td>Whether inmate has a history of juvenile adjudications</td>
<td>0=62.2%</td>
<td>1=37.5%</td>
</tr>
<tr>
<td></td>
<td>Adjudications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 = At Least One</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Juvenile Adjudication</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

determine which variables were the best predictors of adult offender recidivism. One hundred and thirty-one studies produced 1,141 correlations with recidivism. They found significant "mean effect sizes" for age, race, gender, and adult criminal history (in this study measured by criminal specialization, number of prior felony sentencing events, number of prior felony convictions resulting in incarceration, and number of misdemeanor convictions). Their meta-analysis also provides further confirmation of prior narrative reviews (e.g., Gottfredson, 1987) which identified these variables as significant and potent predictors of recidivism. Gabor (1986), Gottfredson and Gottfredson (1985), Gottfredson (1987), and Wilbanks (1987) review studies that found juvenile record, type of incarceration offense, length of the prison term, and legal status at the time of the incarceration offense to be important predictors of adult recidivism.  

* Means are reported for variables measured with continuous scales while percentages are reported for nominal scale variables.  

* Standard deviations are reported for variables measured with continuous scales.
A statistical model is developed to compare and contrast how these multiple defendant-related characteristics interact to explain recidivism. Such an analysis is necessary to control simultaneously for the influence of this set of factors (called independent or predictor variables) on the likelihood of recidivism. This statistical technique enables one to discern the unique contribution of each of the individual independent variables in explaining variation in recidivism rates (called the dependent variable). The multivariate analysis technique used in the present study is logistic regression, appropriate for use with dichotomous dependent variables. All four measures of recidivism, the four dependent variables, are dichotomous because they each have only two values: "one" if the inmate recidivated in the manner described or "zero" if they did not.

The results of the regression analysis and the variables that are statistically significant in explaining each type of recidivism are displayed in the table on the next page. The entries in the table are the regression coefficients (called logits in logistic regression) for each independent variable. The coefficients indicate the relative influence of each independent variable on the probability that an inmate will recidivate in the manner prescribed. A positive coefficient indicates that larger values of the independent variable are associated with an increased probability of recidivism, while a negative coefficient indicates a diminished probability of recidivism.

Overall Significance.

The last row of the table shows the overall success of each model in correctly distinguishing whether an offender will recidivate (i.e., the percentage of cases correctly predicted by the model). This percentage is compared to the "null hypothesis", defined as the most frequent outcome within each measure of recidivism. Notice that the regression model predicting new arrests (within three years of release) considerably improves on our ability to identify the offenders most likely to recidivate over chance alone (66% vs. 51%). In addition, the ability of the regression models to improve on chance when classifying inmates as recidivists or nonrecidivists diminishes as criteria for recidivism becomes more stringent. While the models improved on the probability of correctly classifying inmates (relative to chance) by 15 percentage points when the criteria was simply a new arrest, improvement declined to seven percentage points when the criteria was stiffened to a new felony arrest. Our ability to improve on chance when classifying inmates as having a new conviction

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139 The primary measures of 'goodness of fit' are displayed at the bottom of the table. The most frequently used indicator in logit is called the '2 log likelihood.' Based on this measure, the models are significant. In this case, the -2 log likelihoods are Chi-square variates with 16 degrees of freedom (because there are 16 explanatory variables in this model). It is the analog of the F-statistic in linear regression and tests the hypothesis that all of the coefficients are equal to zero. The table shows that each model meets the standard of significance, thereby leading to a rejection of the null hypothesis, indicating that each model fits their particular measure of recidivism well.

139 That is, in about 39% of the cases in our sample, the offender was arrested for a new felony offense, meaning that in about 61% of the cases there was no new felony arrest. Therefore, the null hypothesis or best guess would be to predict no new felony arrest and be right about 61% of the time.
was between 3–4 %, while the model provided no improvement on the ability to predict new felony convictions. These results are not unexpected since the ability to predict can be expected to decrease as the probability of the phenomenon being predicted decreases.

**The Individual Factors.**

Essentially the same independent variables are significant in explaining recidivism for a "new arrest," "new felony arrest," and "new conviction." These defendant characteristics include Age, Race, Gender, Incarceration Offense, Number of Prior Felonies Served, Number of Prior Misdemeanors, and whether the inmate had a Juvenile Record.

The model describing "new felony convictions" varied from the other three in that Gender, Juvenile Record, and Prior Misdemeanors are not significant, but the Number of Prior Felony Sentencing Events is significant. In predicting the likelihood of a "new felony conviction," measures related to offense seriousness and prior felony sentencing history emerge as most significant. The independent variables LOS, Legal Status, and Specialization were not related to probability of recidivism for any of the measures, nor was there ever a difference in the probability of recidivism for drug offenders relative to person offenders.

**Logistic Regression Results**

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>New Arrest</th>
<th>New Felony Arrest</th>
<th>New Conviction</th>
<th>New Felony Conviction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22–24</td>
<td>-0.675**</td>
<td>-0.619**</td>
<td>-0.423</td>
<td>-0.431</td>
</tr>
<tr>
<td>25–29</td>
<td>-0.782***</td>
<td>-0.578***</td>
<td>-0.424</td>
<td>-0.648**</td>
</tr>
<tr>
<td>30–34</td>
<td>-0.903***</td>
<td>-0.763***</td>
<td>-0.289</td>
<td>-0.482</td>
</tr>
<tr>
<td>35–39</td>
<td>-1.381***</td>
<td>-1.342***</td>
<td>-0.889**</td>
<td>1.151***</td>
</tr>
<tr>
<td>40+</td>
<td>-1.450***</td>
<td>-1.490***</td>
<td>-1.199**</td>
<td>1.658***</td>
</tr>
<tr>
<td>Race</td>
<td>-0.076***</td>
<td>-0.568**</td>
<td>-0.711***</td>
<td>-0.657***</td>
</tr>
<tr>
<td>Gender</td>
<td>0.866**</td>
<td>0.598**</td>
<td>0.821**</td>
<td>0.390</td>
</tr>
<tr>
<td>Incarceration Offense</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>0.382*</td>
<td>0.462**</td>
<td>0.375*</td>
<td>0.529**</td>
</tr>
<tr>
<td>Drugs</td>
<td>0.311</td>
<td>0.221</td>
<td>-0.054</td>
<td>0.228</td>
</tr>
<tr>
<td>LOS</td>
<td>-0.001</td>
<td>-0.001</td>
<td>-0.005</td>
<td>-0.001</td>
</tr>
<tr>
<td>Legal Status</td>
<td>-0.019</td>
<td>-0.004</td>
<td>0.151</td>
<td>-0.004</td>
</tr>
<tr>
<td>Specialization</td>
<td>-0.009</td>
<td>0.006</td>
<td>-0.014</td>
<td>-0.020</td>
</tr>
<tr>
<td>Felony Events</td>
<td>0.011</td>
<td>0.024</td>
<td>0.022</td>
<td>0.129**</td>
</tr>
<tr>
<td>Felonies Served</td>
<td>0.529***</td>
<td>0.328***</td>
<td>0.319**</td>
<td>0.234**</td>
</tr>
<tr>
<td>Misdemeanors</td>
<td>0.050***</td>
<td>0.037***</td>
<td>0.055</td>
<td>0.020</td>
</tr>
<tr>
<td>Juvenile Record</td>
<td>0.324**</td>
<td>0.308**</td>
<td>0.335**</td>
<td>0.231</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.405</td>
<td>-0.547</td>
<td>-1.297***</td>
<td>-1.478***</td>
</tr>
<tr>
<td>-2X LLR</td>
<td>1112.468***</td>
<td>1092.489***</td>
<td>1054.122***</td>
<td>885.607***</td>
</tr>
<tr>
<td>% Correctly Classified (% Nul)</td>
<td>66% (51%)</td>
<td>68% (51%)</td>
<td>69% (65%)</td>
<td>77% (77%)</td>
</tr>
</tbody>
</table>

* Significant at the .10 level (p<.10)  ** Significant at the .05 level (p<.05)  *** Significant at the .01 level (p<.01)

131 Inmates aged (35–39) and (40+) were always less likely to recidivate than inmates aged (14–21); inmates aged (25–29) were less likely to recidivate than inmates aged (14–21) for all the measures except "new convictions" and inmates aged (22–24) and aged (30–34) were less likely to be arrested or arrested for a felony offense than inmates aged (14–21), but not to be convicted or convicted of a felony offense.

132 Property Offenders were always more likely to recidivate than Person Offenders.

133 The more times an inmate had been incarcerated for felony offenses, the more likely they were to recidivate.

134 Within three years after release.

135 Compared to Age 14–21.

136 Compared to Current Offense: Person.
As another means of interpretation, this section graphically summarizes the results of an analysis that examined the bivariate relationships between many of the offender characteristics found to be significant in the preceding multivariate analysis.

Half (49.3%) of all inmates released from Virginia prisons in 1993 were re-arrested for any new crime within three years. The number of persons who recidivate drops quickly as the measure of recidivism becomes more conservative (e.g., of those released from prison, 22.4% were reconvicted of a new felony).

### Overall Recidivism Rates Across Four Measures
The analysis covers 962 offenders released from prison in 1993, recidivism was tracked for a period of three years.

- Re-arrested: 49.3%
- Re-arrested - Felony: 39.6%
- Reconvicted: 35.4%
- Reconvicted - Felony: 22.4%

In general, males are more likely to be re-arrested and more likely to be reconvicted than females, and nonwhites have higher rates of recidivism than whites.

### Recidivism Rates by Gender

<table>
<thead>
<tr>
<th></th>
<th>Re-arrested</th>
<th>Re-arrested - Felony</th>
<th>Reconvicted</th>
<th>Reconvicted - Felony</th>
</tr>
</thead>
<tbody>
<tr>
<td>Males</td>
<td>33%</td>
<td>28%</td>
<td>24%</td>
<td>18%</td>
</tr>
<tr>
<td>Females</td>
<td>51%</td>
<td>41%</td>
<td>37%</td>
<td>23%</td>
</tr>
</tbody>
</table>

### Recidivism Rates by Race

<table>
<thead>
<tr>
<th></th>
<th>Re-arrested</th>
<th>Re-arrested - Felony</th>
<th>Reconvicted</th>
<th>Reconvicted - Felony</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whites</td>
<td>37%</td>
<td>29%</td>
<td>27%</td>
<td>18%</td>
</tr>
<tr>
<td>Blacks</td>
<td>56%</td>
<td>46%</td>
<td>40%</td>
<td>26%</td>
</tr>
</tbody>
</table>
Recidivism, if it does occur, is likely to happen sooner rather than later. For those who recidivate, the average time until first re-arrest for any crime was 12.6 months, with 75% recidivating within 19 months. As shown in the bottom area chart, for these inmates re-arrested for a felony, 56% come back within one year.

### For Those Who Recidivated, Average Time From Release to Re-Arrest

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>Median</th>
<th>Recidivated within:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time to first re-arrest</td>
<td>12.6 mo</td>
<td>9.9 mo</td>
<td>19.1 mo</td>
</tr>
<tr>
<td>Time to first felony re-arrest</td>
<td>13.6 mo</td>
<td>10.2 mo</td>
<td>21.5 mo</td>
</tr>
</tbody>
</table>

### For Those Who Recidivated, Time to Re-Arrest

#### Re-arrested for any Crime

- 60% within 12 months
- 20%
- 15%
- 10%
- 5%
- 0%

#### Re-arrested for Felony

- 59% within 12 months
- 20%
- 15%
- 10%
- 5%
- 0%
Inmates released for property and drug offenses are more likely to recidivate as compared to violent (person crimes) offenders. However, regardless of the original offense, the percent of inmates recidivating stair-steps downward based on the recidivism measure used (re-arrest, felony re-arrest, reconviction, or felony reconviction). For example, the bar chart shows that 42% of inmates originally incarcerated for a violent crime were re-arrested for any crime, 32% were re-arrested for a felony, 28% were reconvicted, and 16% were reconvicted of a felony.

Four Measures of Recidivism:

<table>
<thead>
<tr>
<th>Originally incarcerated for</th>
<th>New arrest</th>
<th>New felony arrest</th>
<th>New conviction</th>
<th>New felony conviction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person</td>
<td>42%</td>
<td>32%</td>
<td>28%</td>
<td>16%</td>
</tr>
<tr>
<td>Property</td>
<td>52%</td>
<td>44%</td>
<td>41%</td>
<td>27%</td>
</tr>
<tr>
<td>Drug</td>
<td>50%</td>
<td>38%</td>
<td>32%</td>
<td>20%</td>
</tr>
</tbody>
</table>
One issue raised during the debate over TIS reform was whether offenders who recidivate tend to follow a consistent criminal path (i.e., do violent offenders who recidivate tend to commit additional violent crime?). The analysis shows that while violent offenders had lower recidivism rates overall, those who were re-arrested were most likely arrested for a violent crime (32% were re-arrested for a violent crime compared to 13% for property crime, 14% for drug crime). Likewise, persons released for property crime were most likely to be re-arrested for another property crime (74%) and drug offenders were most likely re-arrested for another drug crime (59%).

Are persons released from prison likely to be re-arrested for the same type of felony offense for which they were originally incarcerated?

<table>
<thead>
<tr>
<th>Originally Incarcerated for</th>
<th>New Person</th>
<th>New Property</th>
<th>New Drug</th>
<th>New Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Person</td>
<td>32%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Property</td>
<td>13%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Drug</td>
<td>14%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Other</td>
<td>16%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Originally Incarcerated for</th>
<th>New Person</th>
<th>New Property</th>
<th>New Drug</th>
<th>New Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Person</td>
<td>44%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Property</td>
<td>74%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Drug</td>
<td>28%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Other</td>
<td>57%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Originally Incarcerated for</th>
<th>New Person</th>
<th>New Property</th>
<th>New Drug</th>
<th>New Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drug</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Person</td>
<td>25%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Property</td>
<td>13%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Drug</td>
<td>59%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Other</td>
<td>27%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Examining the release cohort by offense, those originally incarcerated for larceny had the highest recidivism rates, both in terms of re-arrest (47%) and reconviction (30%). Larceny was followed by burglary, fraud, assault, and drugs. Released inmates least likely to be re-arrested or reconvicted were those incarcerated for kidnapping, sex offenses (not including serious sexual assaults), manslaughter, and murder.

**Two Measures of Recidivism**

<table>
<thead>
<tr>
<th>Originally Incarcerated for</th>
<th>New felony arrest</th>
<th>New felony conviction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murder</td>
<td>8%</td>
<td>22%</td>
</tr>
<tr>
<td>Manslaughter</td>
<td>4%</td>
<td>22%</td>
</tr>
<tr>
<td>Kidnapping</td>
<td>4%</td>
<td>14%</td>
</tr>
<tr>
<td>Rape</td>
<td>10%</td>
<td>32%</td>
</tr>
<tr>
<td>Robbery</td>
<td>17%</td>
<td>33%</td>
</tr>
<tr>
<td>Assault</td>
<td>17%</td>
<td>36%</td>
</tr>
<tr>
<td>Sex Offenses</td>
<td>11%</td>
<td>42%</td>
</tr>
<tr>
<td>Burglary</td>
<td>11%</td>
<td>24%</td>
</tr>
<tr>
<td>Larceny</td>
<td>30%</td>
<td>47%</td>
</tr>
<tr>
<td>Fraud</td>
<td>21%</td>
<td>40%</td>
</tr>
<tr>
<td>Drugs</td>
<td>20%</td>
<td>38%</td>
</tr>
</tbody>
</table>
Age at time of release from prison is strongly related to recidivism: younger offenders recidivate at higher rates than old offenders. Released offenders less than 21 years of age had a 64% recidivism rate for any new crime, roughly 14 percentage points higher than those ages 22-34. Offenders who were less than 21 years of age at time of release were three times more likely to be reconvicted of a new felony crime when compared to older offenders (those over the age of 40).

The frequency of past criminal behavior is a good indicator of future criminal behavior. Data were examined that measured the number of prior felony sentencing events an offender had before their incarceration for the released offense. Offenders with a history of felony convictions were much more likely to recidivate across all four measures. The relationship between criminal history and recidivism was even more pronounced when examining the seriousness of past criminal behavior. Seriousness was defined as the number of prior felony convictions that resulted in a period of incarceration. For those who had served no prior periods of incarceration, 44% were re-arrested for any new crime. On the other hand, eight out of ten (79%) of those with three prior terms of incarceration were re-arrested for a new crime. The bars show a clear stair-step when examining the number of prior incarcerations for each recidivism measure.

The pre-TIS data collected as part of the recidivism analysis will now serve as the baseline for measuring recidivism for those released during TIS.
CHAPTER EIGHT

Conclusion

Virginia embarked on a major program of sentencing reform early in 1994. These reforms, collectively called “Truth-in-Sentencing” (TIS), became effective on January 1, 1995, and substantially increased prison terms for violent and repeat offenders, abolished parole (except for those already under sentence), and reduced good time allowances so that newly sentenced offenders would be required to serve at least 85% of their imposed sentence. Virginia was not alone in this regard. The 1994 federal Violent Crime Control and Law Enforcement Act authorized incentive grants to the states in part for implementation of TIS laws, and by 1999, 27 states had adopted the 85% rule. However, Virginia is one of just eight states and the federal government that apply TIS to both violent and nonviolent offenders.

This evaluation traces the evolution of sentencing reform in Virginia since 1980, describes how TIS has been designed, discusses its impact on prison population and prevention of crime in the state, and begins an analysis of recidivism before and after TIS. The knowledge gained through this study is primarily designed to benefit Virginia policymakers and practitioners interested in an objective analysis of the new sentencing reforms in their state. However, given the ongoing interest nationally in TIS and the abolition of parole, this evaluation has been designed and written to clarify how sentencing reform efforts could be improved if initiated in other states.

Lessons Learned

Five primary policy implications emerge from this evaluation. The first concerns the comprehensive, inclusive, and ultimately effective process of reform used in Virginia. The remaining four implications focus on the rigorous, empirically-based strategy used in Virginia to assess the impact of sentencing reform.

1. Managing the process of reform. What is most striking to the NCSC evaluation team is that since the early 1980s, even in a highly charged political environment, sentencing reform has occurred in Virginia through a reasonably well-planned process influenced heavily by data analysis. The initial impetus for reform was based on the belief that judicial sentences were widely disparate, resulting in perceived injustices. A 1982 task force recommended the development of historically based descriptive sentencing guidelines. As a result, a statewide database of felony sentencing was created, a study of sentencing disparity was commissioned by the Chief Justice of the Supreme Court, and, in 1987-88, sentencing guidelines (entirely voluntary, with no appellate review allowed) were developed. These guidelines were pilot tested in six judicial circuits between 1988 and 1990. An evaluation of the pilot project showed that implementation of the voluntary guidelines had reduced sentencing disparity, and that the judges involved believed that consistency and neutrality had been improved while sentencing discretion had not been adversely affected. Accord-
ingly, the guidelines were adopted statewide beginning in 1991, and were revised on an annual basis to continue to reflect the most current sentencing decisions handed down by judges and juries. By the 1993 election, guidelines were being used in Virginia under judicial control with an average compliance rate of 76%.

Newly elected Governor Allen moved quickly to convene a Commission on Parole Abolition and Sentencing Reform, and the recommendations of that commission, as well as those of a competing legislative commission, were considered at a special session of the Virginia legislature in 1994. The result was the enactment of TIS legislation that abolished parole, reduced good time credits to a maximum of 54 days per year, provided for a period of supervision following release, and required felony offenders to serve at least 85% of their imposed prison terms. In fact, it is currently estimated that offenders will serve between 88% and 92% of the imposed term. The structuring of the guidelines and the 85% requirement have achieved the dual legislative and executive goals of dramatically increasing prison time for violent offenders while virtually guaranteeing predictability of imposed sentences compared to actual time served.

The Virginia experience highlights the importance of ongoing planning and analysis when confronting reform of an emotional and politically charged issue such as sentencing. Sentencing reform did not just happen in Virginia. Reform occurred through a ten to twelve year process that included all three branches of government and was supported by periodic analyses and evaluations. Regardless of one's philosophical belief about the purposes and goals of sentencing, the process worked in that it achieved a significant measure of predictability in sentencing, reduced disparity in large measure, and, responding to public demand, increased prison time for violent and repeat offenders.

2. Impact of TIS on prison population. The impact of TIS legislation on Virginia's correctional resources was a source of early concern to state lawmakers. The VCSC took seriously its charge by the Virginia General Assembly to examine the impact of numerous alternatives to implementing TIS by developing a sophisticated simulation forecast model (Criminal Justice Research Center @Risk model). The model was designed to simulate judicial decisionmaking and the demand for prison beds specifically within the context of the new TIS guidelines. The program has the flexibility to model a wide variety of alternative sentence ranges and recommendations.

The original forecasts proved to be inaccurate because of errors in two basic assumptions: (1) declining arrests for violent crime and (2) slower than expected growth in total arrests. However, because the simulation model itself was comprehensive and conceptually sound, the basic assumptions could be altered and the forecasts re-estimated. The bottom line is that Virginia made the investment in a valid simulation model to estimate the impact of sentencing reform on the expensive resource of prison space.

3. Judicial compliance with sentencing guidelines. Virginia uses compliance rates as a key measure of sentencing guideline performance and makes the results public on a regular
basis. High levels of statewide compliance indicate that sentences are being meted out consistently and, as a consequence, reduces concern over unwarranted sentencing disparity. In addition, high compliance rates, especially in a voluntary setting like Virginia, indicate judicial acceptance and approval of the sentencing recommendations.

In 1998, compliance rates were 83% in terms of dispositional compliance (type of sentence), and 76% in terms of durational compliance (length of sentence). The overall compliance rate is 75% for over 42,000 cases sentenced between January, 1995 and March 30, 1998. The aggravation rate (sentences more severe than the guidelines) is currently 13% (generally homicide and sexual assault cases) and the mitigation rate (sentences less severe than the guidelines) is 11% (generally rape and burglary cases). Since 1994, judges have been required to articulate their reasons for departure from the guidelines. The most common mitigation reasons have been the availability of an alternative sanction or community punishment; for aggravation reasons, judges most often cite historic criminal lifestyle and previous conviction for the same offense.

4. **Preventable crime estimates under TIS.** Virginia's General Assembly wanted to know how the extended incapacitation of violent offenders under TIS would affect crime rates. Specifically, they asked for information on how Virginians would benefit from locking up violent offenders for longer periods of time. Is the cost associated with giving certain offenders lengthier sentences justified through a reduction in the amount of crime they might otherwise commit if they had been released earlier? Is there a beneficial “incapacitation effect” associated with TIS? Certainly attempting to answer such questions is speculative because there is no generally accepted method for determining the amount of crime prevented through longer prison sentences. Moreover the analytic techniques are complex and can be rather mysterious to the layman. However, the VCSC deserves credit for taking on the challenge and attempting to quantify an important aspect of the impact of sentencing reform. Other states may wish to build on the thoughtfully conceived approach employed by Virginia. The approach benefits from making the most out of available data and producing estimates that are conservative in nature.

5. **Impact on recidivism.** A critical issue confronting Virginia's move to TIS was whether the reform would reduce the level of offender recidivism in Virginia. Criminological research shows that a relatively large share of crime is committed by a small pool of known and repeat offenders. If TIS policies are successful in reducing offender recidivism, then it is likely that these policies will help reduce the crime rate generally. Other states may wish to consider both Virginia's efforts to inform inmates exiting the prison system about changes in the state's sentencing laws and the long-term strategy for measuring offender recidivism. First, the Offender Notification Release Program (ONRP) was developed in 1996 as a joint effort of the VCSC and the Department of Corrections (DOC) to educate inmates leaving Virginia prisons specifically about the TIS reforms. The program provides exiting inmates an overview of the new sentencing system that abolishes parole and increases time
served for violent and repeat offenders. On average, a returning violent offender sentenced under the new guidelines should expect to serve two to six times longer than under the state's previous guidelines system.

Second, to determine whether TIS and ONRP policies have affected offender recidivism, baseline recidivism rates have been calculated for the offender population released from prison prior to the TIS reforms. The long-range plan is to compare the recidivism rate of offenders released pre-TIS (phase one) with the recidivism rate of offenders released post-TIS (phase two). The VCSC is now deliberating on when the second phase, measuring recidivism for those released after exposure to TIS and the ONRP, should begin.

The NCSC evaluation team believes that one of the best design decisions made by policymakers in Virginia was the retention of sentencing guidelines. The benefit of the sentencing guideline approach is that it allows for a more accurate assessment of the likely impact of a change in sentencing and/or parole policy. Guidelines systems are arguably the most cost-effective means of providing rational structure, relevant data, and the ability to accurately monitor and forecast sentencing outcomes.
Bibliography

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