



2025

ANNUAL REPORT

MARYLAND DEPARTMENT STATE

POLICE

FORENSIC SCIENCES DIVISION

STATEWIDE DNA DATABASE

REPORT

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TABLE OF CONTENTS

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STATEWIDE DNA DATABASE ANNUAL REPORT

Table of Contents	<i>i</i>
Executive Summary	<i>ii</i>
Background and Operations.....	1-4
Reporting Requirements.....	5
I. Total DNA Database Expenses in 2025.....	6-8
a. Costs for Scientists and Support Personnel	6
b. Costs for DNA Collection Kits	7
c. Operational Costs.....	7
d. DNA Testing and Analysis Costs.....	8
II. Funds provided by the State per Municipality	9
III. Individual Data and Analysis	10
IV. Case-Specific Data Collection and Analysis.....	10-11

Executive Summary

The Statewide DNA Database was established in 1994 with the required collection of DNA samples from offenders convicted of rape and sexual offenses. The pool of qualifying offenders was expanded in 1999 to those convicted of qualifying crimes of violence and then again in 2002 to those convicted of all felonies and two specific misdemeanor crimes as well as attempts of those crimes. The latest expansion, which went into effect on January 1, 2009, includes the collection of DNA samples of those arrested and charged with qualifying crimes of violence, burglary, and attempts of those crimes.

During 2012, the Statewide DNA Database received national attention when the Maryland Court of Appeals found the collection of DNA samples from individuals arrested and charged with qualifying crimes to be unconstitutional. With that ruling, these collections ceased in April 2012; however, Maryland's Attorney General's Office requested and received an emergency stay in July 2012 and collections resumed. The collection of DNA samples from felony arrestees was heard by the U.S. Supreme Court in February 2013 and was found to be constitutional by a 5 to 4 vote.

Also in 2012, the Maryland General Assembly heard bills on the removal of the December 31, 2013 sunset date for the 2009 DNA Database expansion. The sunset was removed and the collection of DNA samples from individuals arrested and charged with qualifying crimes continues.

As part of the requirements of the 2009 expansion of the law, the following annual report has been generated to detail total expenses (\$2,783,594.68 in 2025), list demographics of those from which samples have been collected, and categorize the outcomes of the investigations aided by the generation of hits from the arrestee samples.

Background and Operations

The establishment of DNA databases emerged with the advent of DNA technology and its application to forensic sciences. Collected physical evidence now yields the potential to generate DNA profiles, which can be stored and searched utilizing computer software programs. DNA testing has been established as a powerful tool for linking suspects to crimes and for exonerating the innocent.

Congress authorized the FBI to establish an index of DNA identification records with the passing of the DNA Identification Act of 1994, Public Law 103 322. These DNA identification records were those of convicted felons and DNA profiles from evidence collected in association with the investigation of crimes. The FBI developed software, CODIS (Combined DNA Index System) which is used to manage this DNA data at three separate levels: Local, State and National. The local forensic DNA laboratories analyze case evidence and collect the data in the Local DNA Index System (LDIS), then upload the qualifying DNA profiles to the State DNA Index System (SDIS). State laboratories analyze evidence, generate DNA profiles from crime scenes for entry into SDIS, and analyze database samples from qualifying offenders. The DNA profiles both from casework and from offenders are then forwarded to the National DNA Index System (NDIS). Searches can result in candidate matches between cases or between cases and offenders. For matches that are confirmed, the information is then forwarded to the law enforcement investigators for further pursuance of the case.

In 1994, the State of Maryland followed the Federal lead and passed legislation to establish the Statewide DNA database: Public Safety Article Title 2, Subtitle 5, ACM (prior to 2003, referred to as Article 88B, Section 12A, ACM). This law required the collection of DNA samples from individuals convicted of rape in any degree, 1st-3rd degree sexual offenses, and child sexual abuse.

The list of qualifying convictions was expanded in 1999 to include not only those from 1994, but also convictions for Murder, 1st degree Assault, Robbery, and attempts of those violent crimes. Yet another expansion of qualifying crimes occurred in 2002 with the list being expanded to include all felonies and two misdemeanor crimes: 4th degree burglary and breaking/entering a motor vehicle.

On January 1, 2009, the law was expanded again to include those arrested and charged with qualifying crimes of violence, 1st-3rd degree burglaries and any attempts of these crimes. Samples collected under this revision are not to be analyzed until the arraignment date occurs. Provisions for automatic expungement were also dictated. These restrictions require the tracking of the charged individual through the court system for the assignment of arraignment dates and the final court disposition.

In 2025, the law was amended to 1) clarify the specifications for testing and expunging arrestee samples, 2) tighten the collection process by ensuring sex offenders are collected upon initial registration, and that correctional facilities have collected a DNA sample before an individual is released from their custody, and 3) direct those individuals who refuse DNA collection to be charged with a misdemeanor violation and also given a fine.

The Maryland Statewide DNA Database receives DNA evidence profiles from six DNA laboratories: Maryland Department of State Police, Anne Arundel County Police, Baltimore City Police, Baltimore County Police, Montgomery County Police and Prince George's County Police. The evidence DNA profiles are forwarded for uploading to the State Level of CODIS which is managed and administered by the Maryland Department of State Police-Forensic Sciences Division (MSP-FSD). The MSP-FSD is also the party responsible for the collection, analysis, and storage of DNA samples collected from convicted offenders and those individuals arrested and charged with a qualifying offense.

In the past, the analysis of convicted offender samples and samples from those arrested and charged with a qualifying offense was outsourced to a commercial DNA typing laboratory for analysis. When outsourcing database samples, MSP-FSD performed in-house technical reviews on all commercial analytical data prior to its acceptance for uploading into CODIS. The year 2011 saw the gradual transfer from commercial outsourcing to internal analysis of the qualified samples. Since 2012, the analysis of both convicted offender samples and the arrestee/charged samples has been handled as part of the MSP-FSD in-house operations.

In preparation for the 2009 revision of the law, the Governor's Office of Crime Control and Prevention organized and hosted four regional summits to educate and update the law enforcement community as well as the judicial system on their vital responsibilities in enacting this law. MSP-FSD developed and disseminated instructional videos on the collection of DNA samples and the use of the newly designed DNA Collection kits.

The successful implementation of the procedures required for the 2009 revision was directly due to the cooperative efforts of several groups. The Maryland Department of State Police has been fortunate to be partnered with the Governor’s Office of Crime Control and Prevention (GOCCP), State’s Attorney’s Offices, the Department of Public Safety and Correctional Services Information Technology and Communications Division, the Department of Corrections, the Department of Parole and Probation, Sheriff’s Offices, Detention Centers, and the Judiciary. Combined efforts have gone to oversee the collection of samples, the transfer of court data, and verification that all individuals eligible for collections have had a sample taken and that those samples no longer eligible have been expunged. In the first year of its implementation (2009), the newly expanded portion of the law resulted in the collection of 11,643 DNA samples from individuals arrested and charged with qualifying crimes. In 2009, a total of 4,213 DNA profiles from arrested and charged individuals were uploaded to CODIS and searched. There were 37 matches to arrested and charged DNA profiles reported to law enforcement in 2009.

Collections continued to be successful through the years. The below data for the past five years is a representation of this continued success:

Year	2021	2022	2023	2024	2025
Number of samples collected from arrested & charged individuals	6,868	8,260	7,993	8,522	7,602
Number of DNA profiles from arrested & charged individuals uploaded to CODIS	3,374	3,380	3,566	3,734	3,228
Number of matches to arrested & charged DNA profiles reported to law enforcement	135	137	167	189	191

In each year, only a portion of samples collected from individuals arrested and charged with qualifying crimes are uploaded to CODIS. Some of the reasons that a sample may not end up in CODIS include:

- duplicate samples are collected
- sample is collected but does not qualify for collection
- sample is collected but a convicted offender sample is already on file
- sample is collected but the individual is not arraigned and analysis cannot begin
- sample is collected and analyzed but the charges do not result in a conviction and the sample is expunged

At the conclusion of 2025, the cumulative number of convicted offender DNA samples in CODIS was 153,434 and the cumulative number of arrested and charged DNA profiles in CODIS was 63,053. As a result, there have been 13,604 cumulative CODIS hits (inclusive of Convicted Offenders, Arrestee/Charged, and Casework hits).

The data contained within this report provides the information required by the Code of Maryland Regulations (COMAR 29.05.01.16). It should be noted, as per the reporting requirements, the Governor's Office of Crime Prevention and Policy is responsible for collecting and reporting data on crime scene DNA evidence as supplied by local law enforcement and State Police. This information is contained within a separate document provided to the Office of Legislative Audits.

Reporting Requirements

The law states that not later than April 1, 2010, and annually thereafter, the Department of State Police shall compile an annual report to the Governor and to the General Assembly and this report be posted on the website of the Department of State Police not later than April 1 of each year.

The contents of the Report are as follows:

- I. Total DNA Database Expenses in 2025
 - a. Costs for scientists and support personnel
 - b. Costs for DNA Collection kits (including transport costs)
 - c. Operational Costs (new hardware, software and maintenance)
 - d. DNA Testing and Analysis Costs (equipment, outsourcing, and in-house analysis)
- II. Funds provided by the State, by municipality
- III. Individual Data and Analysis (racial demographics of all individuals charged with qualifying crimes upon arrest in designated categories)
- IV. Case-Specific Data Collection and Analysis.

I. Total DNA Database Expenses in 2025

This section presents the expenses incurred in 2025 to operate the Statewide DNA Database System. Following the requirements of the law, this section is organized under four subsections. Salary and benefit cost is presented in subsection (a) while subsection (b) is for costs related to DNA Collection. Subsections (c) and (d), respectively, present operational costs for the DNA database and testing/analysis costs. Accordingly, the total expenses in 2025 to operate the Statewide DNA Database System were \$2,783,594.68

(a) Salary and Fringe Benefits Costs, for scientists and support staff assigned to the MSP-FSD for DNA Database

In 2025, a total of \$1,986,185.87 was paid in salaries for scientists and support staff who were working on the Statewide DNA Database project. The corresponding fringe benefits cost during this period was \$153,927.20.

* Scientists and staff handle convicted offender samples and arrestee/charged samples.

Costs for Scientists and Support Staff*			
	Scientists (14)	Support Staff (16)	Total (30)
Salary Paid	\$1,273,611.32	\$712,574.55	\$1,986,185.87
Benefits-FICA	\$97,430.00	\$54,511.00	\$151,941.00
Benefits-Unemployment	\$1,273.62	\$712.58	\$1,986.20
Total Salary & Fringe Benefit	\$1,372,314.94	\$767,798.13	\$2,140,113.07

b) DNA Collection Kit Costs, including costs required to transport kits from collection sites to the MSP-FSD

The total costs of the DNA Collection kits purchased and the postage used for 2025 was \$190,910.00

Item	Expense
Kits	\$164,480.00
Maintenance fee and permit for Business Mail Reply account	\$1,430.00
Postage	\$25,000.00
Total DNA Collection*	\$190,910.00

*Includes costs of collection kits & postage for convicted offender samples & arrestee/charged samples.

(c) DNA Database - Operational Costs

DNA database operational costs include purchasing and maintenance of hardware and software.

In 2025, \$113,452.10 was spent to purchase and maintain hardware and software for DNA database operations.

Item	Expense
Hardware	\$9,656.00
Software	\$103,796.10
Total DNA Database Operational Cost*	\$113,452.10

* Operational Costs cover purchases for convicted offender and arrestee/charged programs

(d) DNA Testing and Analysis Costs

DNA testing and analysis costs for 2025 were \$339,119.51. The costs include in-house equipment purchased, associated maintenance of equipment, outsourced testing and in-house analysis.

Item	Expense
Equipment Purchased	\$69,237.69
Maintenance of Equipment	\$88,330.80
Outsourced Testing	\$0.00
In- House Analysis	\$181,551.02
Total DNA Testing & Analysis*	\$339,119.51

*In-house analysis covers the costs of the arrestee/charged sample analysis only. Equipment purchased and its maintenance are used for both the convicted offender and arrestee/charged programs. Additional costs for the in-house analysis of convicted offender samples were in the amount of \$134,809.17.

II. Funds made Available by the State

This section presents funds made available by the State in 2025 through the Sexual Assault Kit Testing (SAKT) Program as well as Coverdell funds.

Recipient and Award Date	SAKT Awards
Baltimore City Police Department 7/1/2025	\$1,174,910.00
Baltimore City (CODIS Hit Investigators - OAG) 10/1/2025	\$164,600.00
Baltimore County PD 7/1/2025	\$253,005.00
Maryland Department of State Police 7/1/2025	\$1,214,620.00
Montgomery County Police Department 7/1/2025	\$280,000.00
Prince George's County Police Department /1/2025	\$100,000.00
Statewide- MCASA 10/1/2025	\$134,943.00
SAKT Subtotal	\$3,322,078.00
	Coverdell Awards
Anne Arundel County Police Department 2/1/2025	\$47,482.00
Anne Arundel County Police Department 7/1/2025	\$42,802.00
Baltimore City Police Department 2/1/2025	\$25,000.00
Baltimore City Police Department 7/1/2025	\$41,323.00
Baltimore City OCME 2/1/2025	\$58,587.94
Baltimore City OCME 7/1/2025	\$48,471.00
Baltimore County PD 2/1/2025	\$41,255.00
Baltimore County PD 7/1/2025	\$41,323.00
Maryland Department of State Police 2/1/2025	\$58,587.94
Maryland Department of State Police 7/1/2025	\$40,325.00
Montgomery County Police Department 2/1/2025	\$50,000.00
Montgomery County Police Department 7/1/2025	\$41,000.00
Prince George's County Police Department 2/1/2025	\$44,709.39
Prince George's County Police Department 7/1/2025	\$42,803.00
Hagerstown Police Department 2/1/2025	\$44,000.00
Hagerstown Police Department 7/1/2025	\$39,686.00
Coverdell Subtotal	\$707,355.27
TOTAL for 2025	\$4,029,433.27

III. Individual Data and Analysis

Race	2021	2022	2023	2024	2025
Asian	56	70	62	85	63
African-American	4,258	5,532	5,211	5,509	4,881
White	2,280	2,366	2,403	2,553	2,287
Hispanic	153	163	185	231	273
Others	13	12	15	13	14
Unknown	105	117	117	131	84
Total	6,865	8,260	7,993	8,522	7,602

This section shows the racial demographics of all individuals charged over the last five years with qualifying crimes upon arrest. The information was generated through the MSP Sample Tracking program.

IV. Case-Specific Data and Analysis

This information was provided by the primary investigating agency that received the DNA hit. Due to annual audits and reconciliations of data, some values may be different from those previously reported.

The number of Convicted Offender (CO) DNA Matches (Hits) Resulting in Investigations, Formal Charges, and Convictions (2021 – 2025)

Type of Collection/Analysis	2021	2022	2023	2024	2025
DNA matches (hits)	232	260	307	317	379
Matches (hits) that resulted in the investigation of the individual identified in the match*	100	106	107	79	92
Investigations still ongoing**	<u>40</u>	<u>58</u>	<u>65</u>	<u>79</u>	<u>55</u>
Matches (hits) resulting in formal charges*	28	36	37	18	27
Matches (hits) resulting in convictions*	16	20	15	2	4
The number of cases still pending trial**	11	23	28	18	18
Convicted individuals exonerated by DNA matches in a calendar year	0	0	0	1	1
The number of matches resulting in convictions of individuals who were not already incarcerated*	5	6	5	1	4

* Report reflects end of year statistics; these numbers will increase as more DNA hit investigations are closed.

** Report reflects end of year statistics; these numbers will decrease as more DNA hit investigations are closed

The number of Charged/Arrestee (A) offender DNA Matches (Hits) Resulting in Investigations, Formal Charges, and Convictions (2021 – 2025)

Type of Collection/Analysis	2021	2022	2023	2024	2025
DNA matches (hits)	135	137	167	189	191
Matches (hits) that resulted in the investigation of the individual identified in the match*	49	41	48	54	42
Investigations still ongoing**	16	19	41	37	32
Matches (hits) resulting in formal charges*	17	14	14	13	19
Matches (hits) resulting in convictions*	8	9	5	2	4
The number of cases still pending trial**	5	13	11	9	13
Convicted individuals exonerated by DNA matches in a calendar year	0	0	0	0	0
The number of matches resulting in convictions of individuals who were not already incarcerated*	3	4	1	1	1

* Report reflects end of year statistics; these numbers will increase as more DNA hit investigations are closed

** Report reflects end of year statistics; these numbers will decrease as more DNA hit investigations are closed.

Breakdown of 2025 matches (hits) to a convicted offender sample or charged/arrestee sample that resulted in convictions (n=8) and the prior offenses of the associated individual(s):

Crime Associated with Conviction	Prior Offenses	Number of Convicted Offenders	Number of Arrestees/Charged
Burglary	Assault; Vagabond	2	2
B&E	Armed Robbery	1	0
Sex Offenses	Rape – First Degree	0	1
Theft	Sex Offense; Rape; Robbery Carjacking	1	1
Total		4	4