HB1012 Health Statistics and Performance Detail

TRACY K. MILLER, MPH, PHD | STATE EPIDEMIOLOGIST/SECTION DIRECTOR

JAN. 20, 2025

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Our **Vision**

North Dakota is the healthiest state in the nation.

Our **Mission**

HHS fosters positive, comprehensive outcomes by promoting economic, behavioral and physical health, ensuring a holistic approach to individual and community well-being.

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Health Statistics & Performance

State Epidemiologist
- Section Director of the HSP Section
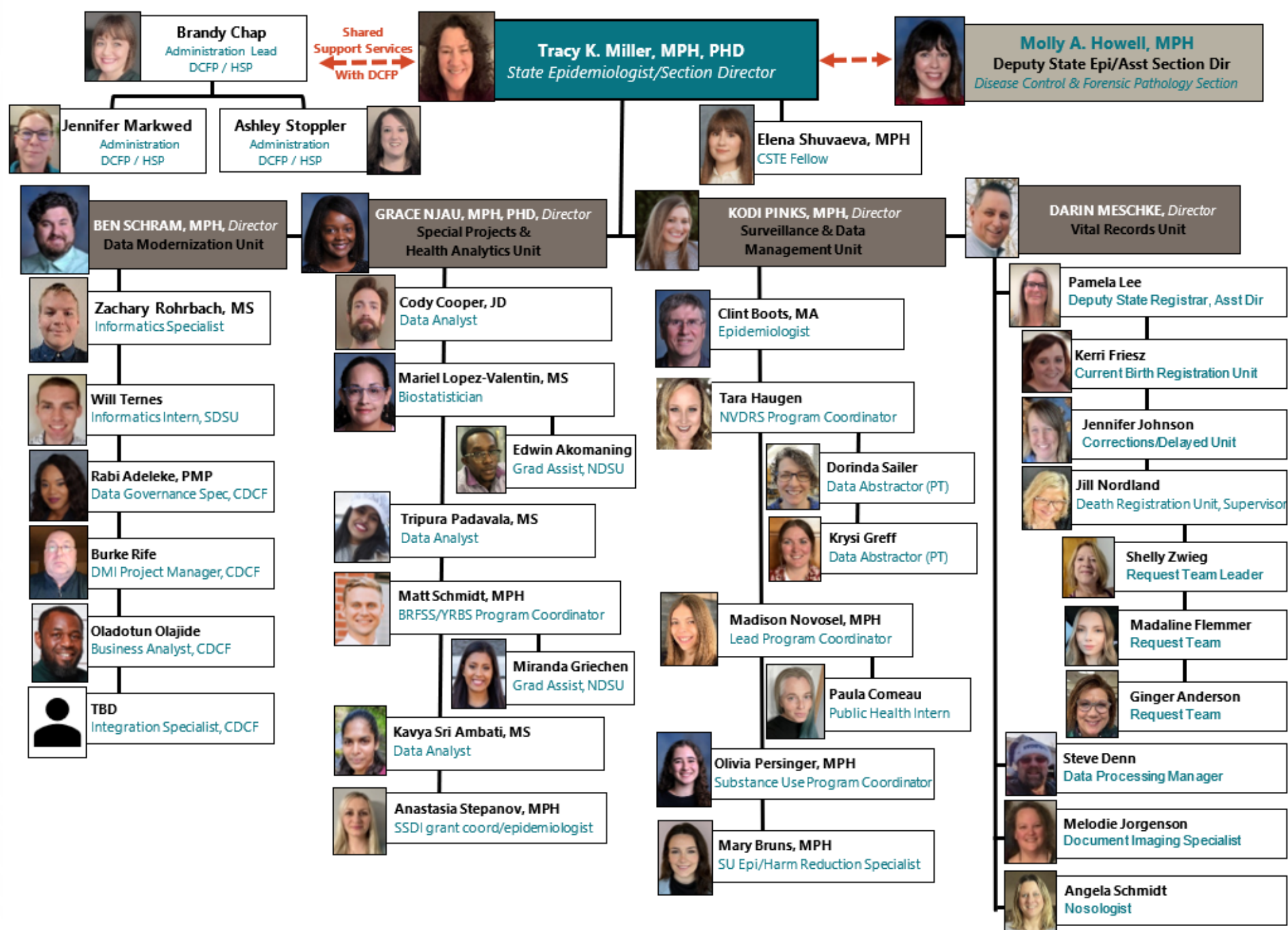
Deputy State Epidemiologist
- This position is <u>not</u> a part of the HSP section
- The SE and DSE have extensive ID knowledge and are usually the main points of contact for CDC and CSTE in the event of emergencies which are typically infectious disease-related. Having the DSE in the Disease Control Section ensures collaboration and timely information sharing between the two sections.

Team members in this section include:
- 5 FTE Unit Directors and Section Director
- 19 FTE Program Personnel
- 2 PT Temporary positions
- 2 FT Contract positions
- 1 FT ASTHO placement position
- 3 Shared Administration Personnel
- 1 CSTE Fellow
- 3 CDC Foundation placement positions
- 2 Graduate Assistants
- 2 Public Health Interns
- 1 current vacant position (1 CDC Foundation placement)

Health Statistics & Performance

Organizational Chart

Brandy Chap
Administration Lead
DCFP / HSP

Shared Support Services With DCFP

Tracy K. Miller, MPH, PHD
State Epidemiologist/Section Director

Molly A. Howell, MPH
Deputy State Epi/Asst Section Dir
Disease Control & Forensic Pathology Section

Jennifer Markwed
Administration
DCFP / HSP

Ashley Stoppler
Administration
DCFP / HSP

Elena Shuvaeva, MPH
CSTE Fellow

BEN SCHRAM, MPH, *Director*
Data Modernization Unit

GRACE NJAU, MPH, PHD, *Director*
Special Projects &
Health Analytics Unit

KODI PINKS, MPH, *Director*
Surveillance & Data
Management Unit

DARIN MESCHKE, *Director*
Vital Records Unit

Zachary Rohrbach, MS
Informatics Specialist

Cody Cooper, JD
Data Analyst

Clint Boots, MA
Epidemiologist

Pamela Lee
Deputy State Registrar, Asst Dir

Will Ternes
Informatics Intern, SDSU

Mariel Lopez-Valentin, MS
Biostatistician

Tara Haugen
NVDRS Program Coordinator

Kerri Friesz
Current Birth Registration Unit

Rabi Adeleke, PMP
Data Governance Spec, CDCF

Edwin Akomaning
Grad Assist, NDSU

Dorinda Sailer
Data Abstractor (PT)

Jennifer Johnson
Corrections/Delayed Unit

Burke Rife
DMI Project Manager, CDCF

Tripura Padavala, MS
Data Analyst

Krysi Greff
Data Abstractor (PT)

Jill Nordland
Death Registration Unit, Supervisor

Oladotun Olajide
Business Analyst, CDCF

Matt Schmidt, MPH
BRFSS/YRBS Program Coordinator

Madison Novosel, MPH
Lead Program Coordinator

Shelly Zwieg
Request Team Leader

TBD
Integration Specialist, CDCF

Miranda Griechen
Grad Assist, NDSU

Paula Comeau
Public Health Intern

Madaline Flemmer
Request Team

Kavya Sri Ambati, MS
Data Analyst

Olivia Persinger, MPH
Substance Use Program Coordinator

Ginger Anderson
Request Team

Anastasia Stepanov, MPH
SSDI grant coord/epidemiologist

Mary Bruns, MPH
SU Epi/Harm Reduction Specialist

Steve Denn
Data Processing Manager

Melodie Jorgenson
Document Imaging Specialist

Angela Schmidt
Nosologist

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Health Statistics and Performance/Public Health:
Overview

Section Name			
23-25 FTE	**25-27 FTE Requested**	**# of Temporary**	**# of Vacancies**
24	24	3	0

Average Age	44
Avg Years of Service	12
Retirement Risk	4%
Turnover 2023	10%
Turnover 2024	0%

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WHO WE ARE AND WHAT WE DO

Data Modernization Office
Ben Schram, MPH

Special Projects & Health Analytics
Grace Njau, MPH, PHD

Surveillance & Data Management
Kodi Pinks, MPH

Vital Records
Darin Meschke

WHO WE ARE

- DATA MODERNIZATION OFFICE
- SPECIAL PROJECTS & HEALTH ANALYTICS
- SURVEILLANCE & DATA MANAGEMENT
- VITAL RECORDS

OUR ROLE

- DATA GOVERNANCE
- DATA ANALYTICS
- SURVEILLANCE AND PREVENTION
- CHRONIC DX/ENVIRON
- BIRTH & DEATHS
- FETAL DEATHS

SERVICES

- NEEDS ASSESSMENTS
- PROGRAM EVALUATIONS
- DATA TRAININGS
- STUDENT MENTORING
- INFORMATICS SUPPORT
- BIRTH/DEATH CERTIFICATES
- DATA VISUAL DEVELOPMENT

PARTNERS

- HOSPITALS/PHYSICIANS
- FUNERAL HOMES AND COUNTY CORONERS
- DPI/DOT
- INTERNAL DIVISIONS/ PROGRAMS
- UNIVERSITIES, SCHOOLS, COMMUNITY ACTION GROUPS

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Vital Records

Vital Records

What We Do

- Responsible for three primary functions:
- Registration of Records
  - Births, deaths, fetal death, marriages, divorces, abortions
- Certification – Provide Certified Copies
  - Births, deaths, fetal deaths and fetal losses
- Statistics
  - National – NCHS, SSA
  - State agencies, researchers, media, legislative and public

What's NEW in Vital Records?

- Data Modernization Initiative
  - EVERS Modernization – NDIT
    - Originally implemented in 2006
  - HL7 FHIR Data Exchange – Altarum
    - Making use of existing department Rhapsody software

Vault Reconstruction

- Fire Suppression System
  - Room had to be redone to be airtight
  - Chance to reorganize vault area for efficiencies
- VR Accreditation coming in 2025.

Vital Records

Top Priorities -
Now and in the next 18 Months

Now:
- Complete ELC Modernization – Phase 1
  - New version of EVERS and HL7 FHIR Implementation

18 Months:
- Complete VRHS Accreditation

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Special Projects and Health Analytics
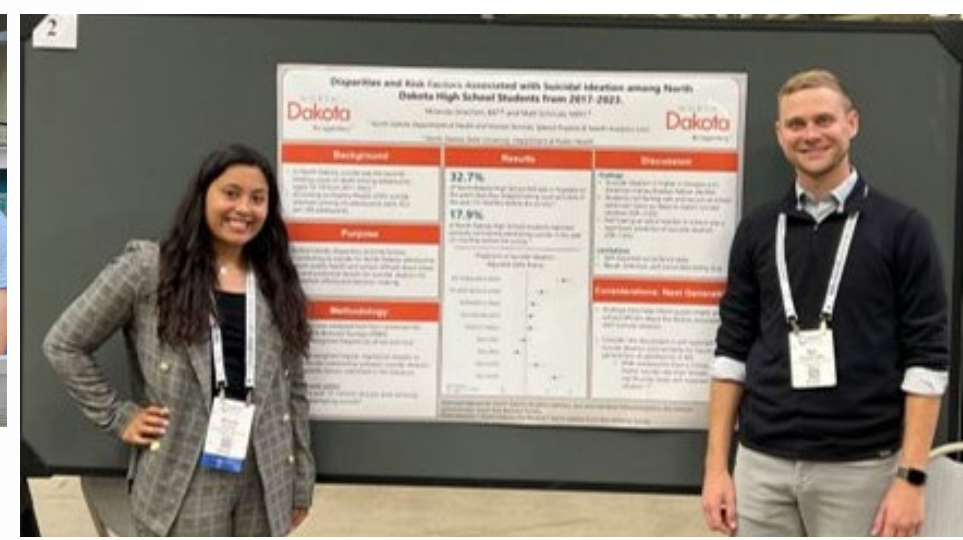
Special Projects & Health Analytics

What We Do

- Analytical Support, Program Evaluation and Quality Improvement of Program(s)
- Data analysis and data interpretation of special projects and emerging issues
  - Covid-19 Data Analyses and Modeling Projects
  - State Health Assessment & Improvement Plan
  - Pregnancy Risk Assessment Monitoring System
  - Youth Risk Behavior Survey
  - Behavioral Risk Factor Surveillance System
  - ND Fatherhood Survey
  - Study of Associated Risks of Stillbirth
  - MCH, Health Equity, and Other Program Evaluations

What's NEW in SPHA?

North Dakota State Health Improvement Plan
- Published in 2024 alongside the Office of Systems and Performance

Multi-Partner Health Collaborative
- Ongoing support of data-driven goals, objectives and outcomes

YRBS
- Since transition from DPI, SPHA has been implementing the Youth Risk Behavior Survey and disseminating data to other agencies, schools and communities.

ND Fatherhood Survey
- Implemented in 2024 to enhance early childhood initiatives
- Responses from 500 dads and counting

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Special Projects & Health Analytics

Top Priorities -
Now and in the next 18 Months

Now:
- Dissemination of data from studies on early childhood, youth and adulthood experiences (ND PRAMS, ND Fatherhood Survey, YRBS, BRFSS), and healthcare workforce

18 Months:
- Whole-person social and health data to inform ongoing State Health Improvement Plan initiatives, Multi-Partner Health Collaborative and the Public Health Strategic Plan

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Data Modernization Unit

Data Modernization Unit

What We Do

- Lead the Public Health Division (PHD) in Data Modernization activities to establish a modern public health data ecosystem that is leveraged to equitably protect and improve health for North Dakotans and prepared for emergencies.

- Data Modernization Initiative:
  - Modernize Public Health Ecosystem
  - Advance Interoperability
  - Strengthen Data Governance

What's NEW in DM?

This office is new to the section. Established in November 2023

- Informatics Leadership and Support:
  - Provide leadership to drive the strategic goals of the Division.
  - Offer comprehensive support for informatics initiatives.

- Collaboration and Coordination:
  - Foster collaboration among internal teams and external partners.
  - Act as a liaison between the Public Health Division and relevant entities, including the North Dakota Information Technology (NDIT) and the HHS Executive Office.
  - Cultivate strong relationships with external stakeholders.

- Data Enablement and Governance Leadership:
  - Lead establishment and maintenance of robust data enablement and governance practices to ensure integrity, confidentiality, and availability of public health data.
  - Develop and enforce policies and procedures that support effective data management across the organization.

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Data Modernization Unit

Top Priorities -
Now and in the next 18 Months

Now:
- Collaborate with NDIT on Statewide Data Strategy Working Groups and HHS Data Strategy implementation efforts.
- Implement data literacy training program and resources for North Dakota's state, local, and tribal public health workforce

18 Months:
- Development and implementation of a modern data platform to make data more accessible, usable, and secure, improve data sharing and integration, ensure privacy and security control, and support evidence-based decision-making

Surveillance and Data Management

Surveillance and Data Management

What We Do

- Responsible for data analysis and interpretation of non-infectious disease/conditions and injury/violence data

- Emergency room, hospital discharge and EMS data
- Health equity
- Lead Reporting Program
- Medical Marijuana
- Overdoses, suicides, homicides and other violent deaths
- Oral health, diabetes, stroke, MCH
- Trauma, stroke, and cardiac registry
- Tobacco

What's NEW in SDM?

Data Modernization Initiative

- Utilizing ADT feeds to provide electronic reportable chronic disease cases to Maven. These include autism, birth defects, NAS, FAS, non-fatal OD and suicides
- Collaboration with HIN, Rhapsody coder, Data Modernization Office, and NDIT

Lead Reporting Program

- Took on program in July 2023
- No Funding; ND one of 3 states; Current personnel funded through ASTHO. NOFO for CDC lead grant will be available summer 2026
- Currently, collaborating with ND Medicaid, Health Tracks, Refugee Health and WIC program.

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Surveillance and Data Management

Top Priorities -
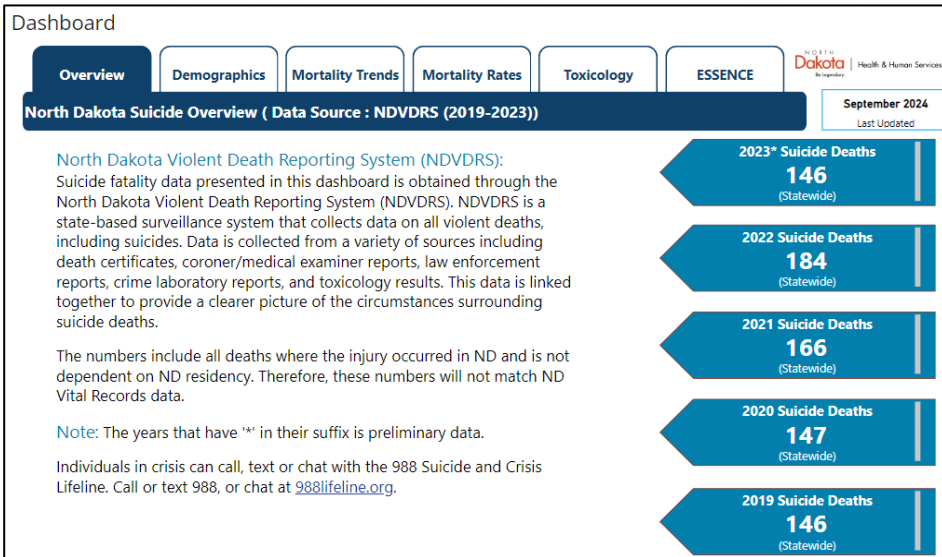## Now and in the next 18 Months

Now:

- Establish an occupation/injury surveillance program which includes data collection and analysis, and data dissemination (e.g., fact sheets, reports, and data dashboard).

18 Months:

- Apply for funding to support the occupational/injury surveillance program (NIOSH's State Occupational Safety and Health Surveillance Program grant) and lead reporting program (CDC's Childhood Lead Poisoning Prevention and Surveillance of Blood Lead Levels in Children grant).

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ND VIOLENT DEATH REPORTING SYSTEM (NDVDRS)

Dashboard

| Overview | Demographics | Mortality Trends | Mortality Rates | Toxicology | ESSENCE |

North Dakota Suicide Overview (Data Source : NDVDRS (2019-2023))

September 2024
Last Updated

North Dakota Violent Death Reporting System (NDVDRS):
Suicide fatality data presented in this dashboard is obtained through the North Dakota Violent Death Reporting System (NDVDRS). NDVDRS is a state-based surveillance system that collects data on all violent deaths, including suicides. Data is collected from a variety of sources including death certificates, coroner/medical examiner reports, law enforcement reports, crime laboratory reports, and toxicology results. This data is linked together to provide a clearer picture of the circumstances surrounding suicide deaths.

The numbers include all deaths where the injury occurred in ND and is not dependent on ND residency. Therefore, these numbers will not match ND Vital Records data.

Note: The years that have '*' in their suffix is preliminary data.

Individuals in crisis can call, text or chat with the 988 Suicide and Crisis Lifeline. Call or text 988, or chat at 988lifeline.org.

2023* Suicide Deaths
146
(Statewide)

2022 Suicide Deaths
184
(Statewide)

2021 Suicide Deaths
166
(Statewide)

2020 Suicide Deaths
147
(Statewide)

2019 Suicide Deaths
146
(Statewide)

The NDVDRS links data on violent deaths (e.g., homicides, suicides, drug overdose deaths, etc.) from multiple sources into usable data.
- Data is collected from death certificates, as well as reports from coroner/medical examiner, law enforcement, crime laboratory, and toxicology results. Recently added reports from EMS and NDHIN.
- Violent deaths are mandatory reportable conditions
  - North Dakota Administrative Code 33-06-01, North Dakota Century Code 23-07-01
- Data collection started on January 1, 2019. Years with completed data are 2019-2022.

North Dakota
Suicide Fatality Review Commission
2024 Annual Report

- Each year ND has ranked high for data quality and completeness. Across all 14 performance indicators, North Dakota scored an excellent with each indicator.
- Besides our first year, in which ND ranked 11th, ND has ranked in the top 5 of the nation for data quality and completeness.
- Data collected by this program is widely requested by various agencies because of the credibility of the data.
  - Recovery Reinvented
  - Suicide Fatality Review Commission
  - Military (VA, National Guard, ND Cares, etc.)
  - NDSLIC, LPH, HIDTA, etc.
- Partner with HHS's Division of Behavioral Health to help provide data for action.
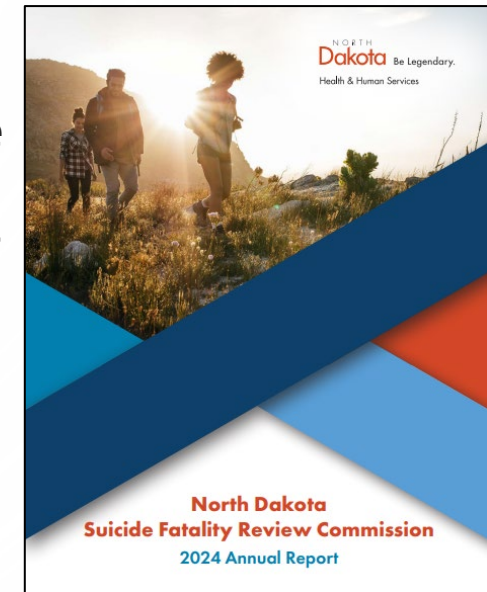
SUCCESSES IN THE LAST YEAR

OUR GOLD STARS!!

* SPHA:
    * SHA/SHIP/MPHC SUPPORT
    * 500 DADS AND COUNTING (NDFS)
* DMO – NEW NOV 2023
    * AWARDED 4 FTES THROUGH CDC FOUNDATION WORKFORCE ACCELERATION INITIATIVE (WAI)
    * HOSTED DATA STRATEGY AND ENABLEMENT WORKSHOP WITH PH DATA STEWARDS
* SDM
    * NVDRS 5TH IN NATION ON DATA COMPLETENESS AND TIMELINESS
    * LEAD PROGRAM DASHBOARD INDICATED TO BE THE GOLD STANDARD
* VITAL RECORDS
    * COMPLETED NEW FIREPROOF VAULT
    * BEGAN ACCREDITATION

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Makenna Murray – Great Niece of Tracy Miller

Tilleigha Hietala— Niece of Ben Schram

AREAS FOR IMPROVEMENT

- INCREASE VISIBILITY OF AVAILABLE DATA
- IMPROVE PROCESS FOR DASHBOARD REVIEW
- IMPROVE DATA EXCHANGE WITH TRIBES
- INCREASE/IMPROVE INTERACTIONS WITH NON-PH PROGRAMS IN HHS
- ENSURING WORKFORCE IS GETTING THE NEEDED TRAINING

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Eden Maina – Daughter of Grace Njau

SMART STRATEGIES TO IMPROVE SECTION OUTPUT AND DRIVE BUDGET

BUILD COMMUNITY SUPPORT

- SHIP/MPHC
- SUICIDE PREVENTION COALITION
- TRIBAL DATA USE AGREEMENTS
- LOCAL PUBLIC HEALTH COMMUNITY HEALTH ASSESSMENT DASHBOARD

INCREASE ACCESS POINTS

- AUTOMATED DATA OPTIONS
- INTEROPERABILITY
- PUBLIC USE DATA SETS
- TRAININGS

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BUDGET REVIEW

Emree Pinks – Daughter of Kodi Pinks

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COMPARISON OF BUDGETS AND FUNDING

BY MAJOR EXPENSE

Description	2023-25 BASE BUDGET	INCREASE/ (DECREASE)	2025-27 EXECUTIVE BUDGET RECOMMENDATION
Salaries and Benefits	$ 5,000,983	$ 1,546,547	$ 6,547,530
Operating	2,541,105	3,405,690	5,946,795
IT Services	3,138,204	782,772	3,920,976
Capital Asset Expense	-	-	-
Capital Assets	60,980	(60,980)	-
Grants	1,456,000	2,138,353	3,594,353
Total	**$ 12,197,272**	**$ 7,812,382**	**$ 20,009,654**
GENERAL FUND	**$ 807,958**	**$ 364,835**	**$ 1,172,793**
FEDERAL FUND	**8,311,108**	**7,069,273**	**15,380,381**
OTHER FUND	**3,078,206**	**378,274**	**3,456,480**
GRAND TOTAL	**$ 12,197,272**	**$ 7,812,382**	**$ 20,009,654**

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DECISION PACKAGE DETAIL
BY ONGOING, ONE-TIME AND FUNDING SOURCE

- Executive Compensation Package

  - $259,786 General Fund

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COMPARISON OF BUDGETS AND FUNDING
BY BUDGET ACCOUNT CODE

DESCRIPTION	2023-25 BASE BUDGET	INCREASE/ (DECREASE)	2025-27 EXECUTIVE BUDGET RECOMMENDATION
511x Salaries - Regular	$ 2,709,856	$ 299,584	$ 3,009,440
513x Salaries Temp	903,609	1,051,891	1,955,499
516x Salaries Benefits	1,387,519	195,072	1,582,591
Total Salaries & Benefits	**$ 5,000,983**	**$ 1,546,547**	**$ 6,547,530**
52x Travel	88,538	9,062	97,600
53x Supply	85,837	-	85,837
54x Postage & Printing	266,048	-	266,048
55x Equipment under $5,000	30,800	-	30,800
58x Rent/Leases - Bldg/Equip	151,418	18,000	169,418
59x Repairs	13,119	867	13,986
61x Professional Development	55,371	143,400	198,771
62x Fees - Operating & Professional	1,849,974	3,234,361	5,084,335
53x Supplies	549,066	-	549,066
60x IT Expenses	2,589,138	782,772	3,371,910
69x Capital Assets Over $5,000	60,980	(60,980)	-
71x Grants, Benefits, & Claims	1,456,000	2,138,353	3,594,353
Total Operating	**$ 7,196,289**	**$ 6,265,835**	**$ 13,462,124**
Total	**$ 12,197,272**	**$ 7,812,382**	**$ 20,009,654**

OPERATING SCHEDULE

DESCRIPTION	2023-25 BASE BUDGET	2025-27 EXECUTIVE BUDGET RECOMMENDATION	INCREASE/ (DECREASE)
Vital Records			
Public Health Stats and Info National Assoc	$ 26,000	$ 35,000	$ 9,000
Accreditation	29,749	26,500	(3,249)
Office of State Epidemiologists			
Shredding	1,082	-	(1,082)
Statistical Package for Social Sciences (SPSS)	-	2,500	2,500
Coroner Surveys	10,000	12,500	2,500
ArcGIS	-	3,000	3,000
Other	7,763	3,345	(4,418)
Behavorial Risk Factor Surveilliance System (BRFSS)	991,430	1,287,540	296,110
Pregnancy Risk Assesment Monitoring System (PRAMS)	100,000	100,000	-
Natiolnal Violent Death Reporting System (NVDRS)	60,000	60,000	-
National Insutitute for Occupational Safety and Health (NIOSH)	210,000	210,000	-

OPERATING SCHEDULE (CONTINUED)

DESCRIPTION	2023-25 BASE BUDGET	2025-27 EXECUTIVE BUDGET RECOMMENDATION	INCREASE/ (DECREASE)
Office of State Epidemiologists (Continued)			
Other	22,450	22,450	-
North Dakota Health Information Network (NDHIN)	369,000	369,000	-
Youth Risk Behavioral Surveillance System (YRBS)	-	120,000	120,000
Injury	-	100,000	100,000
MoxieIT	-	310,000	310,000
Nexus Innovations	-	300,000	300,000
Large Project Oversight	-	100,000	100,000
Public Health Infrastructure Grant Projects	-	2,000,000	2,000,000
Medical Examiner Supplies	22,500	22,500	-

GENERAL FUND	$ -	$ -	$ -
FEDERAL FUND	1,794,225	5,022,835	3,228,610
OTHER FUND	55,749	61,500	5,751
GRAND TOTAL	$ 1,849,974	$ 5,084,335	$ 3,234,361

GRANTS NOT ON WALKTHROUGH

DESCRIPTION	2023-25 BASE BUDGET	2025-27 EXECUTIVE BUDGET RECOMMENDATION	INCREASE/ (DECREASE)
Office of State Epidemiologists			
Pregnancy Risk Assessment Monitoring System (PRAMS)-Survey	$ 325,000	$ 364,353	$ 39,353
PRAMS-Tribal Nations Research Group/Tribal	20,000	25,000	5,000
PRAMS-Survey Supplement	50,000	55,000	5,000
Youth Risk Behavorial Health Survelliance System (YRBS) - Survey	200,000	225,000	25,000
National Violent Death Reporting System (NVDRS)	30,000	30,000	-
Health Disparities	700,000	595,000	(105,000)
Enhanced Capacities	131,000	-	(131,000)
National Insutitue for Occupational Safety and Health (NIOSH)	-	100,000	100,000
Blood Lead Program	-	100,000	100,000
Injury	-	100,000	100,000
Public Health Infrastructure Grant Projects	-	2,000,000	2,000,000

GENERAL FUND	$ -	$ -	$ -
FEDERAL FUND	1,456,000	3,594,353	2,138,353
OTHER FUND	-	-	-
GRAND TOTAL	$ 1,456,000	$ 3,594,353	$ 2,138,353

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THANK YOU

We "Woody" be happy to answer any questions.

Tracy K. Miller, MPH, PHD
tkmiller@nd.gov
(don't forget the k) ☺

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Jameson Rohrich – Grandson of Darin Meschke