

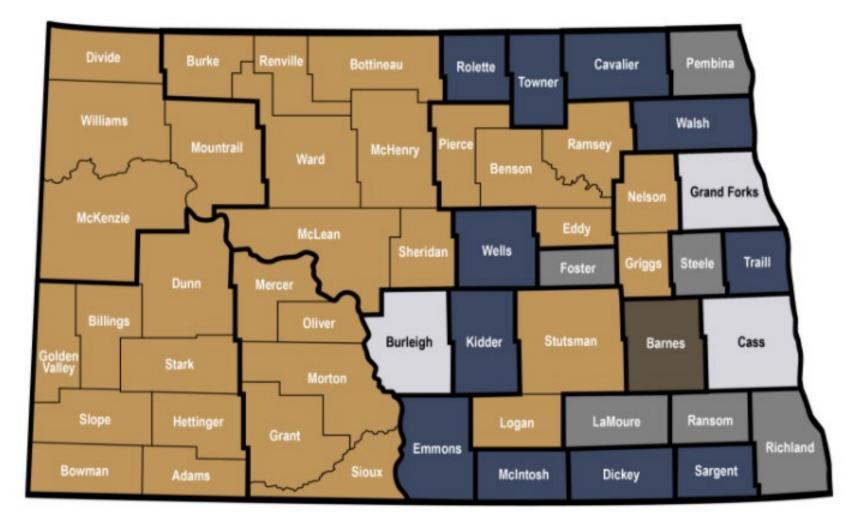
A North Dakota Perspective February 11, 2021

North Dakota Newborn Screening & Follow-up Program Joyal Meyer, RN, MSN

NORTH DAKOTA

Heibergers UNPREDICTABLE WEATHER

North Dakota Local Public Health Units



City/County Health Department City/County Health District Multi-County Health District Single County Health Department

Single County Health District



- 12,000 babies born annually
- 4 out of 12 birthing facilities deliver over 60% of babies born in ND (2 located in central ND, 2 in eastern ND)



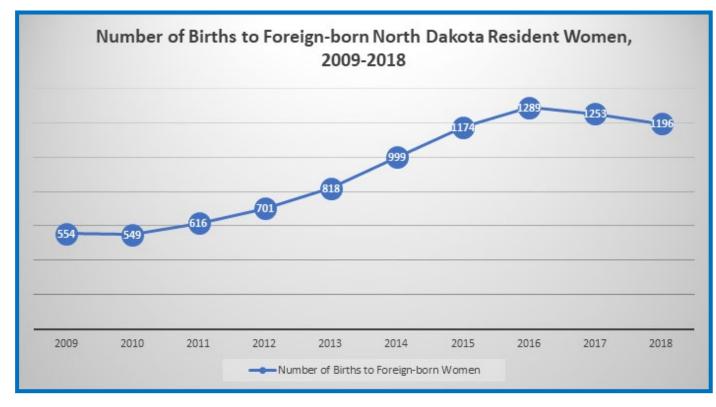
North Dakota Occurrent Birth Rate





ND Birthing Hospitals and Indian Health Service Facilities

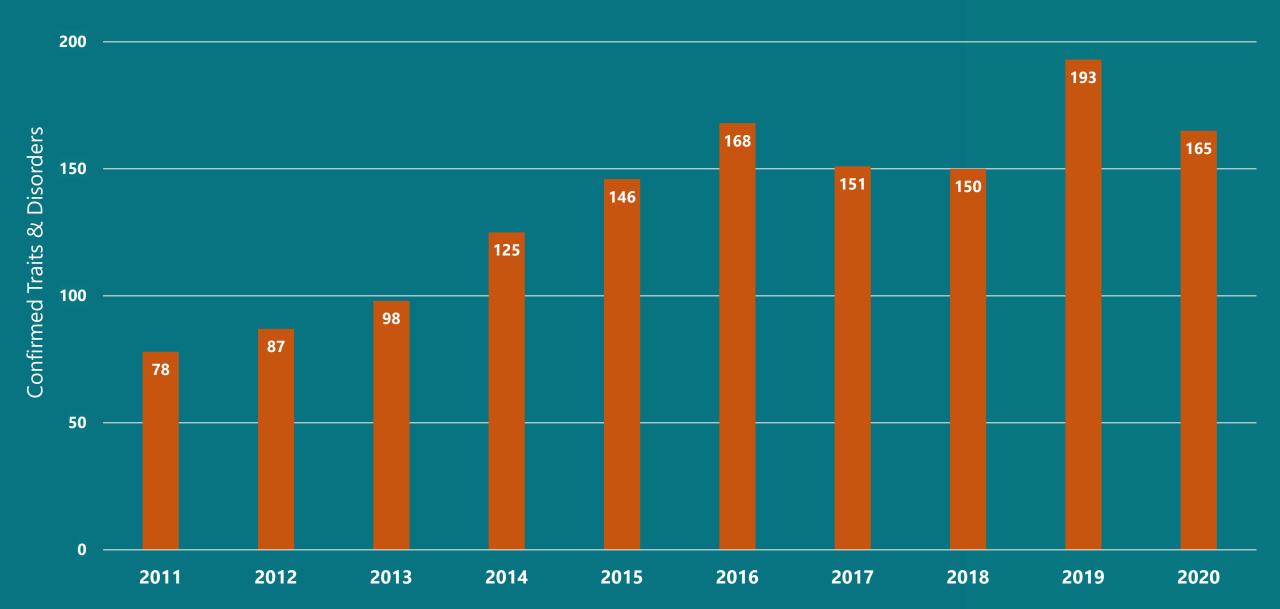
INCREASING DIVERSITY IN NORTH DAKOTA



*Data source: ND Vital Records

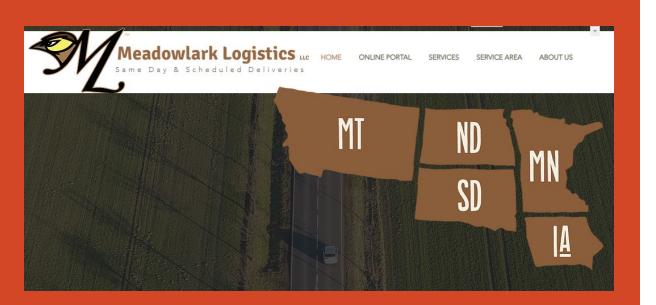


North Dakota Newborn Screening Confirmed Traits & Disorders



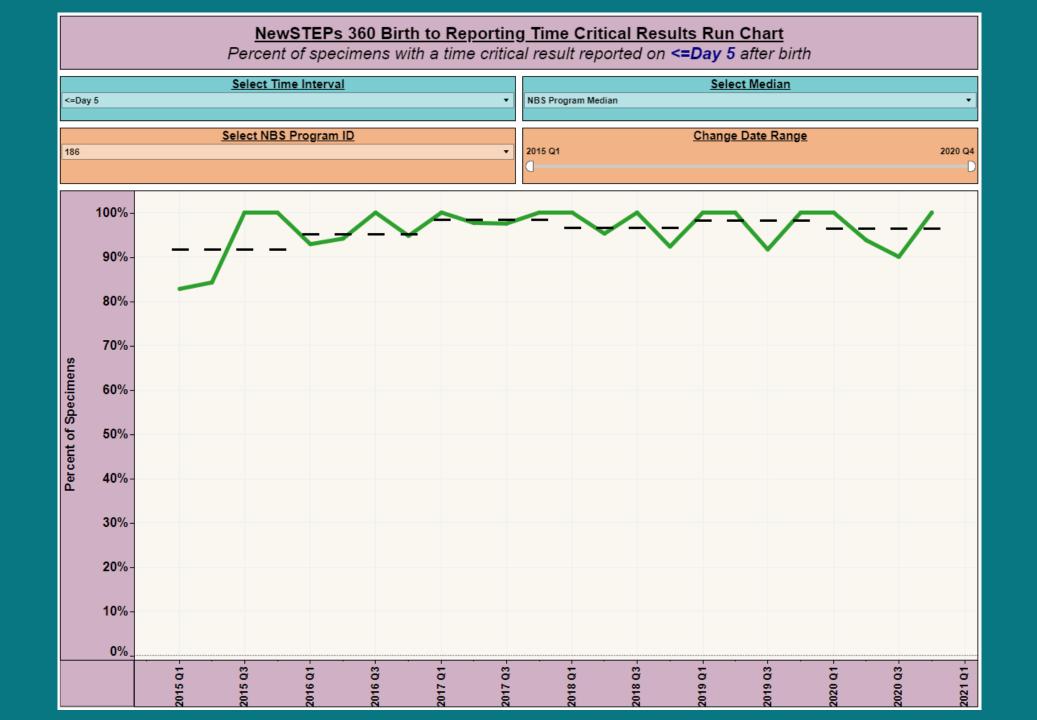


- University of Iowa State Hygienic Laboratory (SHL) began processing ND newborn screening specimens in 1992
- University of Iowa Hospitals and Clinics began doing ND's short-term follow-up in 2007
- In addition to ND and Iowa, University of Iowa SHL also provides screening and follow-up services to South Dakota and Alaska
- SHL collects ND's newborn screening fee which supports the lab processing, short-term follow-up and the courier service



COURIER TRANSPORTATION

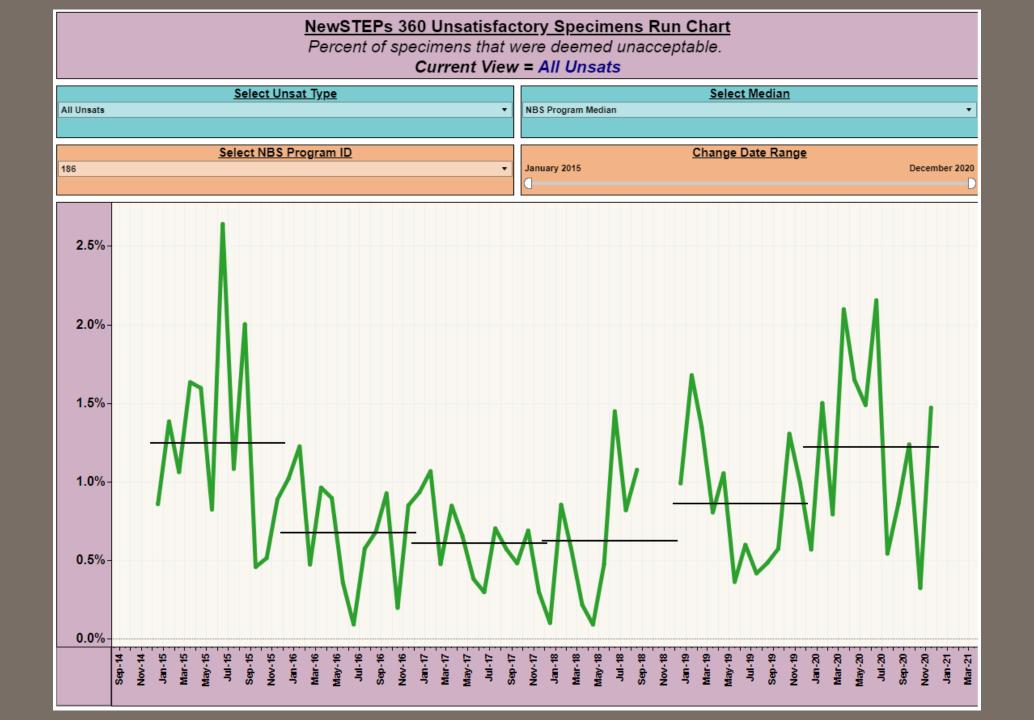
- 7 days per week | 365 days per year since July 2019
- Transports from all 12 birthing facilities in ND
- Shared customers in surrounding states



NEWBORN SCREENING EDUCATION



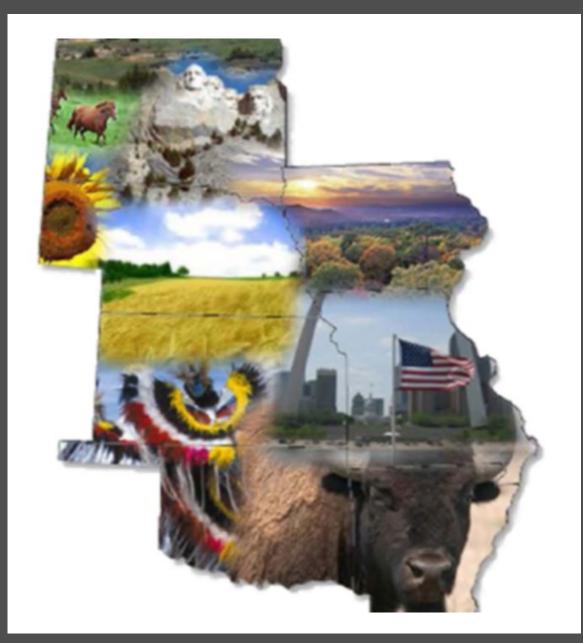
- Annual in-person trainings (prior to COVID-19)
- Newborn Screening Online Toolkit Modules
- Hot Topic Lunch & Learn Sessions
- Newborn Screening Conference
- Quarterly Newborn Screening Advisory Meetings





ND is a member of the Heartland Region

- 8 States Total
 - Arkansas, Iowa, Kansas, Missouri, Nebraska, North Dakota, Oklahoma and South Dakota
- Goal Increase genetic services, particularly for medically underserved populations
 - Ease accessibility
 - Improve telehealth, telegenetics and quality of care



NORTH DAKOTA PUBLIC HEALTH LABORATORY

Pre-COVID

- 18 employees (laboratory professionals & support staff)
- Operating Hours:
 8 am to 5 pm
 5 days/week
 No weekends or holidays
- Courier transportation 5 days/week

Post-COVID

- Increase in laboratory professionals & support staff – 140 FT/PT employees (180 at peak of testing)
- Operating Hours: 24 hours/day 7 days/week Includes weekends and holidays
- Courier transportation 7 days/week
- Limited supplies for testing (e.g., biohazard bags, pipet tips and transport media)



WHAT IS ON THE HORIZON FOR NORTH DAKOTA?

- Long-term follow-up (LTFU) in ND began in January 2019
 - Working with partners to create a LTFU database to track and provide services to children with confirmed disorders
- Open dialogue on newborn screening contingency planning with various partners (regional lab, ND state lab, border states and Heartland network)

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