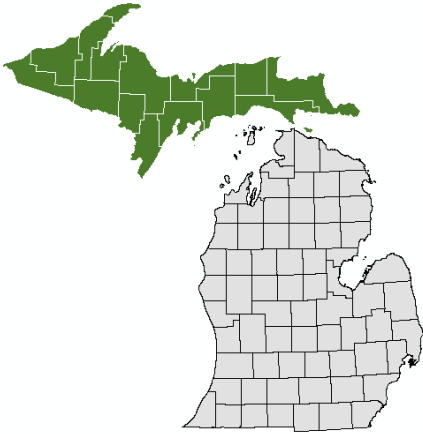


Birth Defects Profile in Michigan Prosperity Region 1

(Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, and Schoolcraft counties)



Michigan Birth Defects Registry (MBDR)

- ❖ By law, hospitals and medical labs report certain health conditions affecting children at birth or up to 2 years of age.
- ❖ MBDR information is confidential. It is used to:
 - ❖ Calculate baseline rates.
 - ❖ Analyze trends.
 - ❖ Identify and respond to public health concerns.
- ❖ MBDR data helps us understand health and development needs, identify causes, and share prevention strategies.

Birth Defects in Region 1 (2013-2019)

- ❖ An average of 2,708 infants were born in Region 1 each year.
- ❖ Approximately 225 of these infants were born with a birth defect each year.
- ❖ Hypospadias and Trisomy 21 were the most prevalent birth defects in Michigan and Prosperity Region 1 (Table 1).
- ❖ The prevalence of hypospadias is **lower** in Prosperity Region 1 [21.6 (95% Confidence Interval (CI): 15.0-28.2)] than Michigan as a whole [38.9 (95% CI: 37.6-40.4)].
- ❖ The prevalence of all other birth defects was similar between Prosperity Region 1 and Michigan as a whole.

Table 1. Prevalence of Selected Birth Defects within Prosperity Region 1 and the State of Michigan, 2013-2019

Birth Defect	Prosperity Region 1		Michigan	
	Number of Cases	Prevalence (per 10,000 live births)	Number of Cases	Prevalence (per 10,000 live births)
Anencephaly	--*	--*	69	0.9
Cleft Lip with Cleft Palate	16	8.4	517	6.6
Cleft Lip without Cleft Palate	--*	--*	264	3.4
Cleft Palate without Cleft Lip	10	5.3	541	6.9
Gastroschisis	11	5.8	321	4.1
Hypoplastic Left Heart Syndrome	7	3.7	308	3.9
Hypospadias	41	21.6	3052	39.0
Limb Deficiencies	7	3.7	308	3.9
Spina Bifida	9	4.7	326	4.2
Tetralogy of Fallot	--*	--*	406	5.2
Transposition of the Great Arteries	--*	--*	298	3.8
Trisomy 21	20	10.5	1010	12.9
Total Number of Live Births	18,958		782,227	
* Data suppressed due to small birth defects counts (1 ≤ N ≤ 5),				

MBDR Data Limitations and Cautions

- Data are based on passive reporting, which means MBDR relies on facilities to identify and report cases of birth defects. Getting all facilities to report complete and timely data can be a challenge.
- Some facilities report children with a birth defect that is later “ruled out” resulting in an overcount of the actual number of cases.
- Children diagnosed and treated in facilities in other states may be missed, which will significantly affect the completeness of data for Michigan’s border counties.

Birth Characteristics among all Mothers and Babies

Between 2013 and 2019, roughly **2,708** babies were born in Prosperity Region 1 each year.

During an average year in Prosperity Region 1:

Mother's Race and Ethnicity

- ❖ **2,300**, or **85 percent** of, infants were born to **white, non-Hispanic** mothers.
- ❖ **10**, or **less than 1 percent** of, infants were born to **Black, non-Hispanic** mothers.
- ❖ **340**, or **13 percent** of, infants were born to **all other non-Hispanic** mothers.
- ❖ **50**, or **2 percent** of, infants were born to **Hispanic** mothers.



Mom's Socioeconomic and Educational Status

- ❖ **1,280**, or **47 percent** of, all births reported **Medicaid as the intended payer**.
- ❖ **210**, or **8 percent**, of infants were born to **mothers with less than a high school education**.
- ❖ **670**, or **25 percent** of, infants were born to **mothers who had a high school education**.
- ❖ **1,080**, or **40 percent** of, infants were born to **mothers who had some college or an associate degree**.
- ❖ **700**, or **26 percent** of, infants were born to **mothers who had a college degree**.

Mom's Age

- ❖ **150**, or **5 percent** of, infants were born to **teenage mothers (15 to 19 years)**.
- ❖ **2,300**, or **81 percent** of, infants were born to mothers **20 to 34 years of age**.
- ❖ **330**, or **12 percent** of, infants were born to mothers **35 years of age or older**.

Mom and Baby Health Before, During, and After Pregnancy

- ❖ **1,470**, or **54 percent** of, infants were born to mothers who were **overweight or obese**.
- ❖ **750**, or **28 percent** of, infants were born to mothers who **used tobacco** during pregnancy.
- ❖ **280**, or **10 percent** of, infants were **born prematurely**.
- ❖ **180**, or **7 percent** of, infants were born at a **low birth weight**.
- ❖ **20**, or **less than 1 percent** of, infants were born to mothers who had **pre-pregnancy diabetes type 1 or type 2**.

Data source: Michigan resident live birth files, MDHHS, Division of Vital Records and Health Statistics, 2013-2019.

