

2022 Birth and Infant Death Data: City to County Comparisons

Births by Age of Mother in Years	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Less than 15	1 (0.35)	1 (0.06)	0 (0)	3 (0.08)
15-17	3 (1.06)	27 (1.69)	9 (1.37)	42 (1.12)
18-19	10 (3.52)	81 (5.06)	29 (4.42)	134 (3.54)
20-24	92 (32.39)	419 (26.19)	126 (19.21)	820 (21.64)
25-29	82 (28.87)	487 (30.44)	208 (31.71)	1,178 (31.08)
30-34	71 (25)	399 (24.94)	192 (29.27)	1,097 (28.95)
35-39	22 (7.75)	148 (9.25)	80 (12.20)	432 (11.40)
40-44	3 (1.06)	35 (2.19)	12 (1.83)	78 (2.06)
45+	0 (0)	3 (0.19)	0 (0)	6 (0.16)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Alliance, mothers between the ages of 20-24 years old had the most births. While Canton, Massillon, and Stark County overall the most common age range was 25-29 years old.

Education of Mother	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Less than 8th Grade	2 (0.70)	63 (3.94)	20 (3.05)	131 (3.46)
9-12 Grade, No Diploma	30 (10.56)	174 (10.88)	32 (4.88)	258 (6.81)
HS Diploma/GED	141 (49.65)	628 (39.25)	222 (33.84)	1,275 (33.64)
Some College, No Degree	38 (13.38)	264 (16.50)	125 (19.06)	631 (16.65)
Associate Degree	20 (7.04)	118 (7.38)	67 (10.21)	350 (9.24)
Bachelor's Degree	32 (11.27)	236 (14.75)	124 (18.90)	742 (19.58)
Master's Degree	20 (7.04)	85 (5.31)	56 (8.54)	324 (8.55)
Doctorate Degree	1 (0.35)	30 (1.88)	10 (1.52)	75 (1.98)
Unknown	0 (0)	2 (0.13)	0 (0)	4 (0.11)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

The most common education level for all three cities and Stark County overall was a high school diploma/GED.

Race of Mother	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Black	26 (9.16)	405 (25.31)	49 (7.47)	510 (13.46)
White	250 (88.01)	1,112 (69.50)	576 (87.81)	3,131 (82.61)
Asian	5 (1.76)	12 (0.75)	7 (1.07)	36 (0.95)
Native American	0 (0)	1 (0.06)	2 (0.31)	3 (0.08)
Pacific Islander/Hawaiian	1 (0.35)	1 (0.06)	2 (0.31)	5 (0.13)
Unknown	2 (0.70)	69 (4.31)	20 (3.05)	105 (2.77)

Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)
--------------	-----------	-------------	-----------	-------------

Ethnicity of Mother	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Hispanic	4 (1.41)	122 (7.63)	36 (5.49)	184 (4.86)
Non-Hispanic	280 (98.59)	1,477 (92.31)	618 (94.21)	3603 (95.07)
Unknown	0 (0)	1 (0.06)	2 (0.31)	3 (0.08)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

Marital Status of Mother at Delivery	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Married	117 (41.20)	628 (39.25)	395 (60.21)	2,077 (54.80)
Not Married	167 (58.80)	972 (60.75)	261 (39.79)	1,713 (45.20)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Alliance and Canton, majority of mothers were not married at the time of delivery. While Massillon and Stark County overall had majority of mothers married at the time of delivery.

Insurance	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Medicaid	154 (54.23)	913 (57.06)	238 (36.28)	1,591 (41.98)
Private	119 (41.90)	567 (35.44)	369 (56.25)	1,905 (50.26)
Self-Pay	0 (0)	0 (0)	0 (0)	3 (0.08)
Other/Unknown	11 (3.87)	120 (7.50)	49 (7.47)	291 (7.68)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Alliance and Canton, majority of mothers had Medicaid as their health insurance. While Massillon and Stark County overall had majority of mothers with private health insurance.

First Prenatal Visit, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
First Trimester	203 (71.48)	1,039 (64.94)	456 (69.51)	2,594 (68.44)
Second Trimester	48 (16.90)	402 (25.13)	144 (21.95)	863 (22.77)
Third Trimester	17 (5.99)	80 (5.00)	22 (3.35)	145 (3.83)
None	8 (2.82)	31 (1.94)	8 (1.22)	73 (1.93)
Unknown	8 (2.82)	48 (3.00)	26 (3.96)	115 (3.03)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

Majority of mothers in all three cities and Stark County overall had their first prenatal visit in their first trimester. Early prenatal care is important for better birth outcomes.

First Prenatal Visit, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
First Trimester	181 (72.40)	755 (67.90)	413 (71.70)	2,210 (70.59)
Second Trimester	41 (16.40)	266 (23.92)	121 (21.01)	682 (21.78)
Third Trimester	13 (5.20)	38 (3.42)	17 (2.95)	91 (2.91)
None	8 (3.20)	21 (1.89)	5 (0.87)	58 (1.85)
Unknown	7 (2.80)	32 (2.88)	20 (3.47)	90 (2.88)
Total	250 (100)	1,112 (100)	576 (100)	3,131 (100)

First Prenatal Visit, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
First Trimester	17 (65.39)	240 (59.26)	29 (59.18)	305 (59.80)
Second Trimester	5 (19.23)	112 (27.65)	15 (30.61)	142 (27.84)
Third Trimester	3 (11.54)	33 (8.15)	3 (6.12)	39 (7.65)
None	0 (0)	8 (1.98)	1 (2.04)	10 (1.96)
Unknown	1 (3.85)	12 (2.96)	1 (2.04)	14 (2.75)
Total	26 (100)	405 (100)	49 (100)	510 (100)

Smoking During Pregnancy, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Smoked Before Pregnancy	48 (16.90)	246 (15.38)	72 (10.98)	427 (11.27)
First Trimester	45 (15.85)	221 (13.81)	59 (8.99)	378 (9.97)
Second Trimester	41 (14.44)	203 (12.69)	56 (8.54)	347 (9.16)
Third Trimester	38 (13.38)	203 (12.69)	52 (7.93)	336 (8.87)
Unknown	0 (0)	2 (0.13)	0 (0)	5 (0.13)
Total Births	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Canton and Massillon, White mothers smoked throughout their pregnancy more often than Black mothers. In Alliance and Stark County overall, Black mothers smoked throughout their pregnancy more often than White mothers. This data can be seen in the two graphs below showing smoking during pregnancy by race.

Smoking During Pregnancy, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Smoked Before Pregnancy	42 (16.80)	176 (15.83)	69 (11.98)	345 (11.02)
First Trimester	40 (16.00)	161 (14.48)	56 (9.72)	308 (9.84)
Second Trimester	37 (14.80)	149 (13.40)	53 (9.20)	284 (9.07)
Third Trimester	34 (13.60)	149 (13.40)	49 (8.51)	273 (8.72)
Unknown	0 (0)	2 (0.18)	0 (0)	5 (0.16)
Total	250 (100)	1,112 (100)	576 (100)	3,131 (100)

Smoking During Pregnancy, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Smoked Before Pregnancy	6 (23.08)	66 (16.30)	3 (6.12)	77 (15.10)
First Trimester	5 (19.23)	56 (13.83)	3 (6.12)	66 (12.94)
Second Trimester	4 (15.39)	50 (12.35)	3 (6.12)	59 (11.57)
Third Trimester	4 (15.39)	50 (12.35)	3 (6.12)	59 (11.57)
Total	26 (100)	405 (100)	49 (100)	510 (100)

Clinical Estimate of Gestation, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Preterm (36 Weeks or less)	26 (9.16)	200 (12.50)	48 (7.32)	413 (10.90)
Term (37-41 Weeks)	257 (90.49)	1,392 (87.00)	603 (91.9)	3,355 (88.52)
Post-Term (42 Weeks or more)	1 (0.35)	7 (0.44)	3 (0.46)	19 (0.50)
Unknown	0 (0)	1 (0.06)	2 (0.31)	3 (0.08)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Massillon, Black and White mothers delivered at term at the same rate. While in Alliance, Canton, and Stark County overall, White mothers delivered at term at a higher rate than Black mothers. This data can be seen in the two graphs below showing clinical estimate of gestation by race.

Clinical Estimate of Gestation, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Preterm (36 Weeks or less)	22 (8.80)	116 (10.43)	43 (7.47)	311 (9.93)
Term (37-41 Weeks)	227 (90.80)	990 (89.03)	529 (91.84)	2,801 (89.46)
Post-Term (42 Weeks or more)	1 (0.40)	5 (0.45)	2 (0.35)	16 (0.51)
Unknown	0 (0)	1 (0.09)	2 (0.35)	3 (0.10)
Total	250 (100)	1,112 (100)	576 (100)	3,131 (100)

Clinical Estimate of Gestation, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Preterm (36 Weeks or less)	4 (15.39)	76 (18.77)	4 (8.16)	89 (17.45)
Term (37-41 Weeks)	22 (84.62)	327 (80.74)	45 (91.84)	419 (82.16)
Post-Term (42 Weeks or more)	0 (0)	2 (0.49)	0 (0)	2 (0.39)
Total	26 (100)	405 (100)	49 (100)	510 (100)

Birth Weight Category, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
High (4,000+ grams)	21 (7.39)	111 (6.94)	59 (8.99)	312 (8.23)
Normal (2,500-3,999 grams)	238 (83.80)	1,318 (82.38)	564 (85.98)	3,155 (83.25)
Low (1,500-2,499 grams)	19 (6.69)	140 (8.75)	24 (3.66)	255 (6.73)
Very Low (<1,500 grams)	6 (2.11)	31 (1.94)	9 (1.37)	68 (1.79)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

Birth Weight Category, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
High (4,000+ grams)	18 (7.20)	94 (8.45)	57 (9.90)	288 (9.20)
Normal (2,500-3,999 grams)	209 (83.60)	925 (83.18)	490 (85.07)	2,611 (83.39)
Low (1,500-2,499 grams)	17 (6.80)	79 (7.10)	21 (3.65)	184 (5.88)
Very Low (<1,500 grams)	6 (2.40)	14 (1.26)	8 (1.39)	48 (1.53)
Total	250 (100)	1,112 (100)	576 (100)	3,131 (100)

Birth Weight Category, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
High (4,000+ grams)	3 (11.54)	14 (3.46)	2 (4.08)	21 (4.12)
Normal (2,500-3,999 grams)	21 (80.77)	321 (79.26)	43 (87.76)	408 (80.00)
Low (1,500-2,499 grams)	2 (7.69)	54 (13.33)	3 (6.12)	62 (12.16)
Very Low (<1,500 grams)	0 (0)	16 (3.95)	1 (2.04)	19 (3.73)
Total	26 (100)	405 (100)	49 (100)	510 (100)

Delivery Method, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Primary C-Section	51 (17.96)	280 (17.50)	111 (16.92)	666 (17.57)
Repeat C-Section	33 (11.62)	228 (14.25)	102 (15.55)	538 (14.20)
Vaginal, Not VBAC	196 (69.01)	1,067 (66.69)	427 (65.09)	2,516 (66.39)
VBAC	4 (1.41)	25 (1.56)	16 (2.44)	69 (1.82)
Unknown	0 (0)	0 (0)	0 (0)	1 (0.03)
Total	284 (100)	1,600 (100)	656 (100)	3,790 (100)

In Alliance, Black mothers were more likely to deliver their baby through cesarean section (C-section) (primary and repeat) than White mothers. In Massillon, White mothers were more likely to deliver their baby through cesarean section (primary) than Black mothers. This data can be seen in the two graphs below showing delivery method by race.

Delivery Method, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Primary C-Section	42 (16.80)	191 (17.18)	103 (17.88)	551 (17.60)
Repeat C-Section	28 (11.20)	153 (13.76)	89 (15.45)	435 (13.89)
Vaginal, Not VBAC	177 (70.80)	751 (67.54)	370 (64.24)	2,087 (66.66)
VBAC	3 (1.20)	17 (1.53)	14 (2.43)	57 (1.82)
Unknown	0 (0)	0 (0)	0 (0)	1 (0.03)
Total	250 (100)	1,112 (100)	576 (100)	3,131 (100)

Delivery Method, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Primary C-Section	7 (26.92)	76 (18.77)	4 (8.16)	93 (18.24)
Repeat C-Section	5 (19.23)	65 (16.05)	10 (20.41)	85 (16.67)
Vaginal, Not VBAC	13 (50.00)	258 (63.70)	34 (69.39)	323 (63.33)
VBAC	1 (3.85)	6 (1.48)	1 (2.04)	9 (1.77)
Total	26 (100)	405 (100)	49 (100)	510 (100)

Number of Deaths by Infant's Age	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Neonatal Death	1 (33.33)	10 (66.67)	1 (50.00)	15 (65.22)
Postneonatal Death	2 (66.67)	5 (33.33)	1 (50.00)	8 (34.78)
Total	3 (100)	15 (100)	2 (100)	23 (100)

*Neonatal death occurs between birth to 27 days of life

**Postneonatal death occurs between 28 days and 365 days of life

Neonatal leading causes of death were prematurity and congenital anomalies. Postneonatal leading causes of death were unsafe sleep environments and congenital anomalies.

Deaths by Age of Mother in Years	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Less than 15	0 (0)	0 (0)	0 (0)	0 (0)
15-17	0 (0)	1 (6.67)	0 (0)	1 (4.35)
18-19	0 (0)	0 (0)	1 (50.00)	1 (4.35)
20-24	0 (0)	3 (20.00)	0 (0)	4 (17.39)
25-29	2 (66.67)	5 (33.33)	1 (50.00)	8 (34.78)
30-34	1 (33.33)	5 (33.33)	0 (0)	7 (30.44)
35-39	0 (0)	1 (6.67)	0 (0)	1 (4.35)
40-44	0 (0)	0 (0)	0 (0)	1 (4.35)
45+	0 (0)	0 (0)	0 (0)	0 (0)
Total	3 (100)	15 (100)	2 (100)	23 (100)

Infant Mortality Rates, All Races	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Deaths	3	15	2	23
Births	284	1600	656	3,790
IMR	*	9.4	*	6.07

*Counts less than 10 cannot be used to calculate rates due to high variability

Infant Mortality Rates, White Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Deaths	3	3	2	10
Births	250	1,112	576	3,131
IMR	*	*	*	3.19

*Counts less than 10 cannot be used to calculate rates due to high variability

Infant Mortality Rates, Black Race	Alliance	Canton	Massillon	Stark County Total
	n (%)	n (%)	n (%)	n (%)
Deaths	0	11	0	12
Births	26	405	49	510
IMR	*	27.16	*	23.53
Disparity Rate	*	*	*	7.38

*Counts less than 10 cannot be used to calculate rates due to high variability

Data analysis was prepared by Canton City Public Health, Bradley Rago, Epidemiologist, 330-974-4765.
 Data was obtained from the Ohio Department of Health Secure Data Warehouse Datasets on 1/22/2024 11:30 AM with data from 1/22/2024.
 The Ohio Department of Health specifically disclaims responsibility for any analysis, interpretations, or conclusions.