



Department of
Medicaid

John R. Kasich, Governor
Barbara R. Sears, Director

Ohio Department of Medicaid's Maternal and Infant Health Measures

Butler County

Ohio Department of Medicaid
Bureau of Health Innovation and Quality
Winter 2018



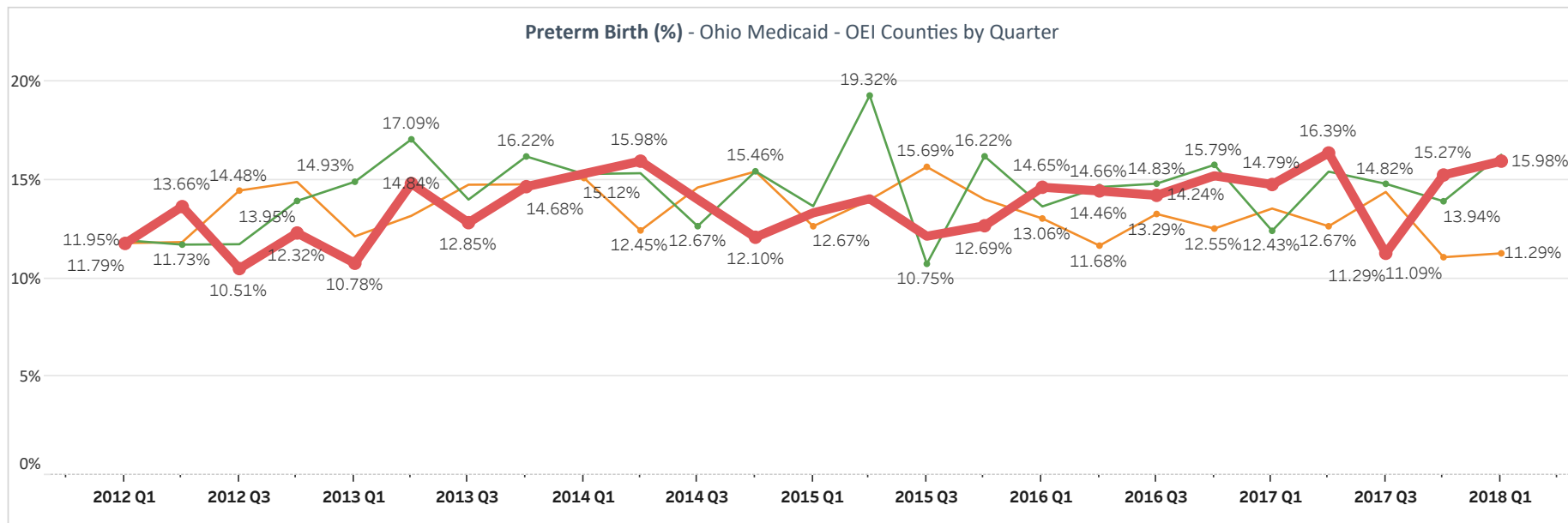
Preterm Birth (%)

Butler, Mahoning, Stark Counties - Preterm Birth (%)

Trends by Quarter | CY 2012-2018

Counties

Butler Mahoning Stark

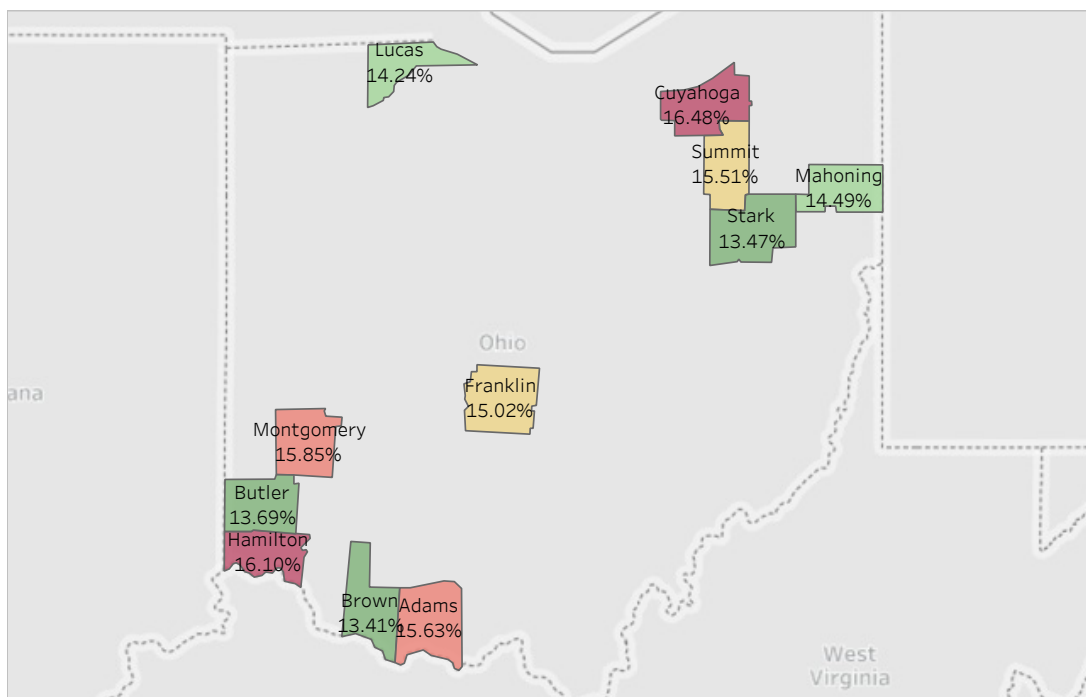


County	PTB Aggregate Rate Q1 2012 - Q1 2018	PTB Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	14.49%	15.10%	From 227 to 204 PTB Infants
Butler	13.69%	14.60%	From 318 to 291 PTB Infants
Stark	13.47%	12.42%	From 312 to 285 PTB Infants

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Preterm Birth (%)

OEI County Quintiles | CY 2012-2018



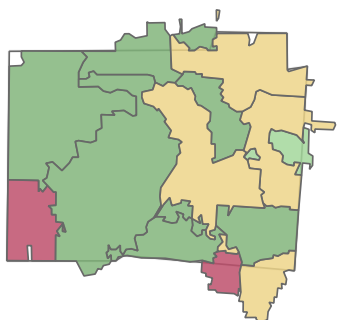
Map Measure Ranges

- $\geq 0 < 13.702\%$
- $\geq 13.702\% < 14.504\%$
- $\geq 14.504\% < 15.615\%$
- $\geq 15.615\% < 16.088\%$
- $\geq 16.088\%$

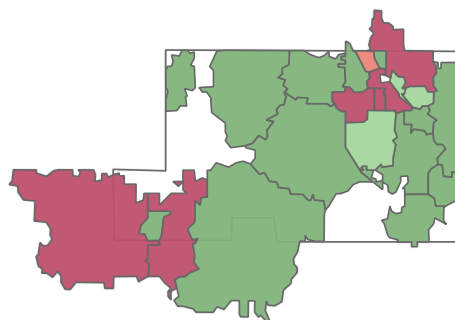
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

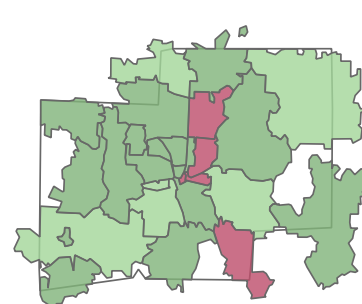
Butler



Mahoning

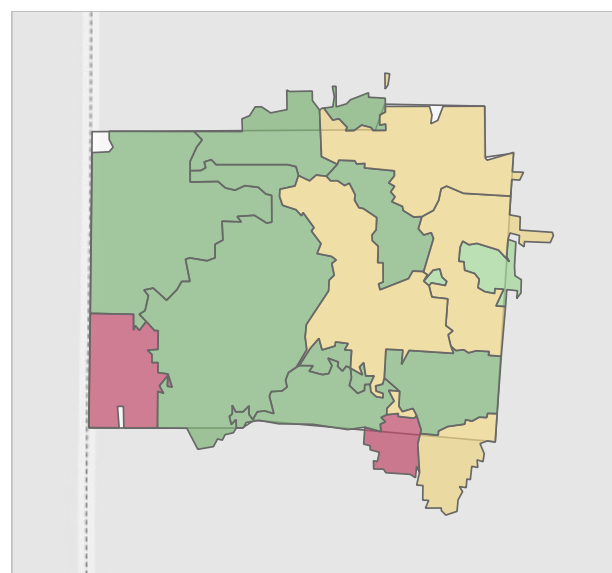
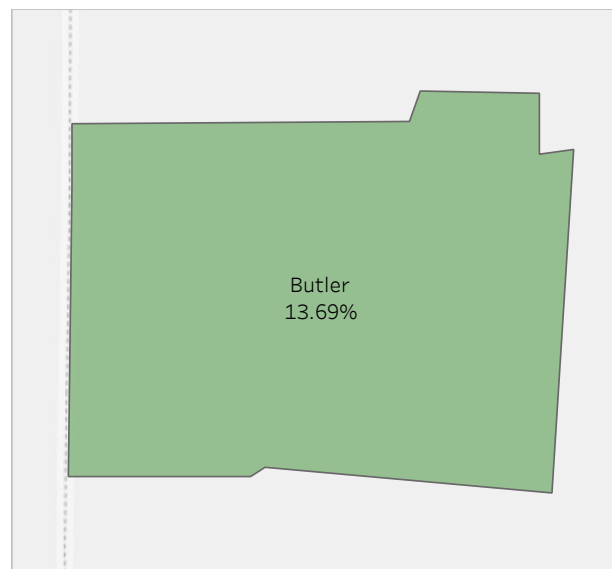
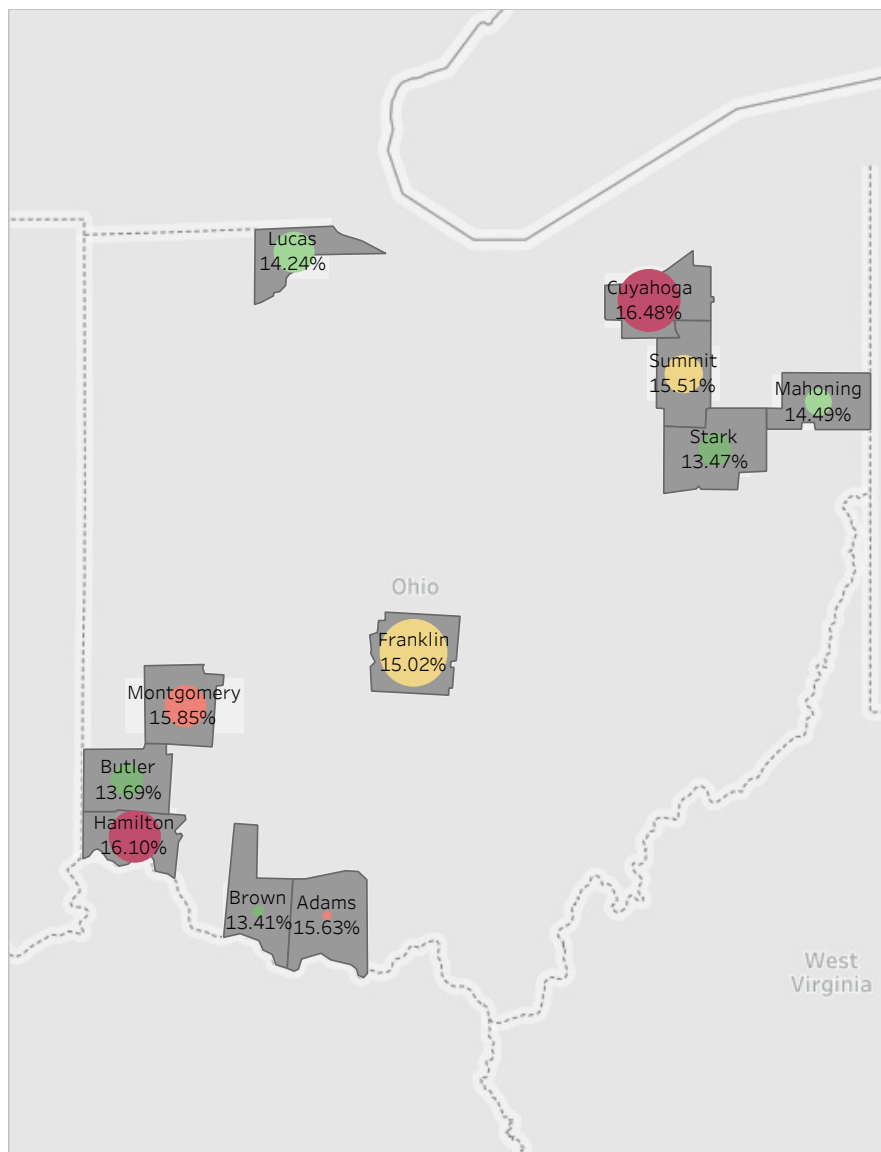


Stark



Butler County - Preterm Birth (%)

OEI Quintiles | CY 2012-2018



Map Measure Ranges

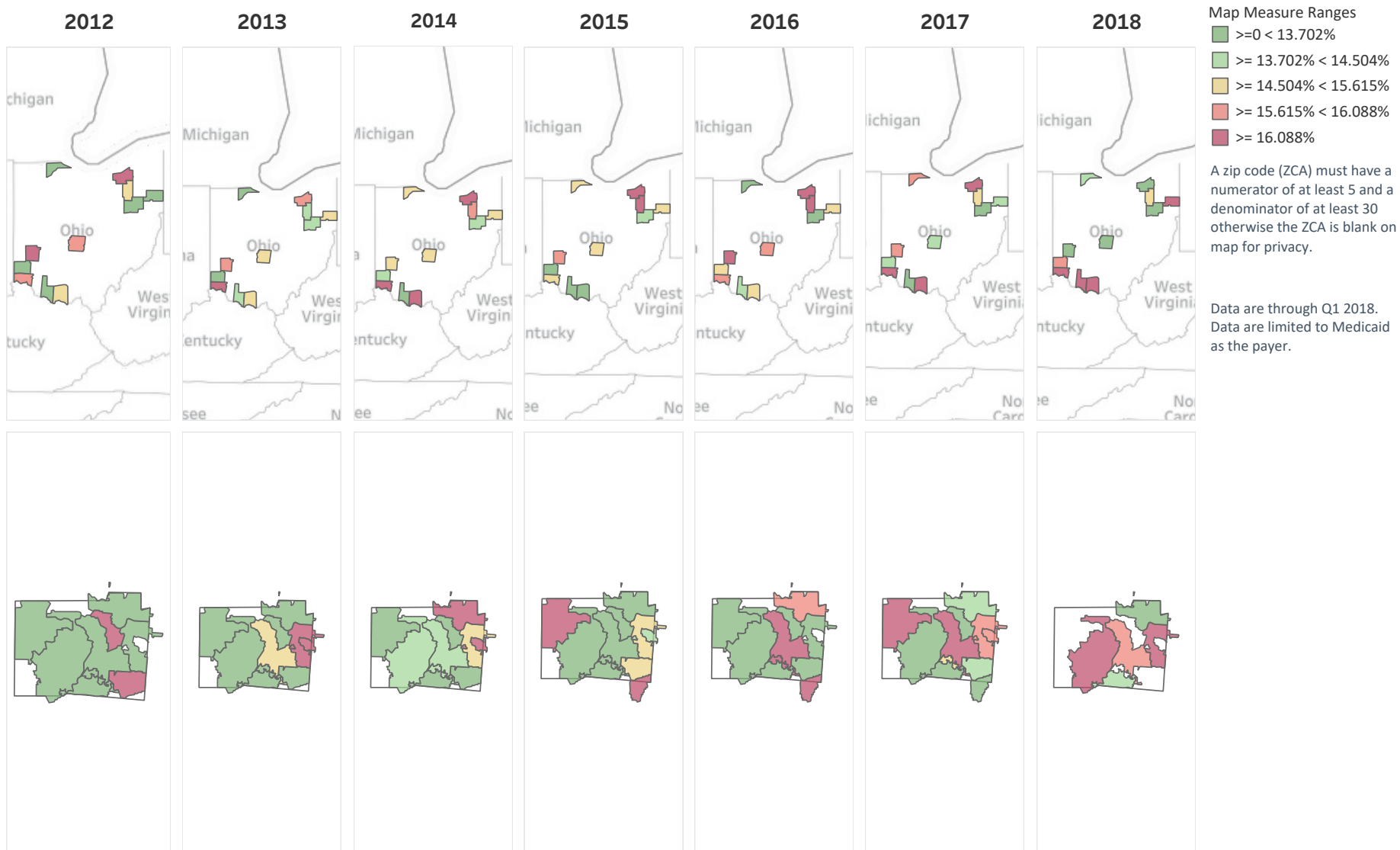
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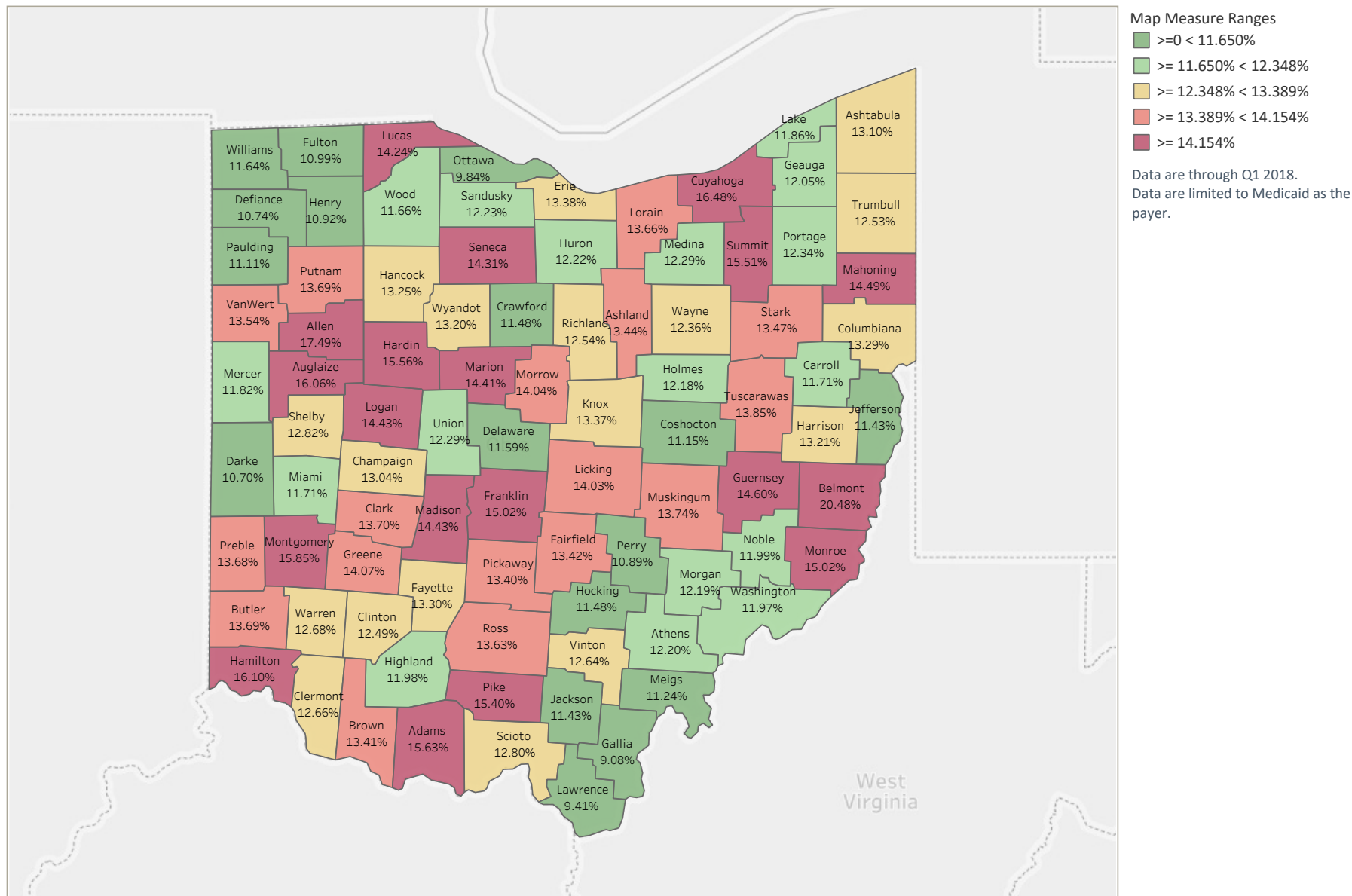
Butler County - Preterm Birth (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Preterm Birth (%)

Overall Quintiles by County | CY 2012 - 2018





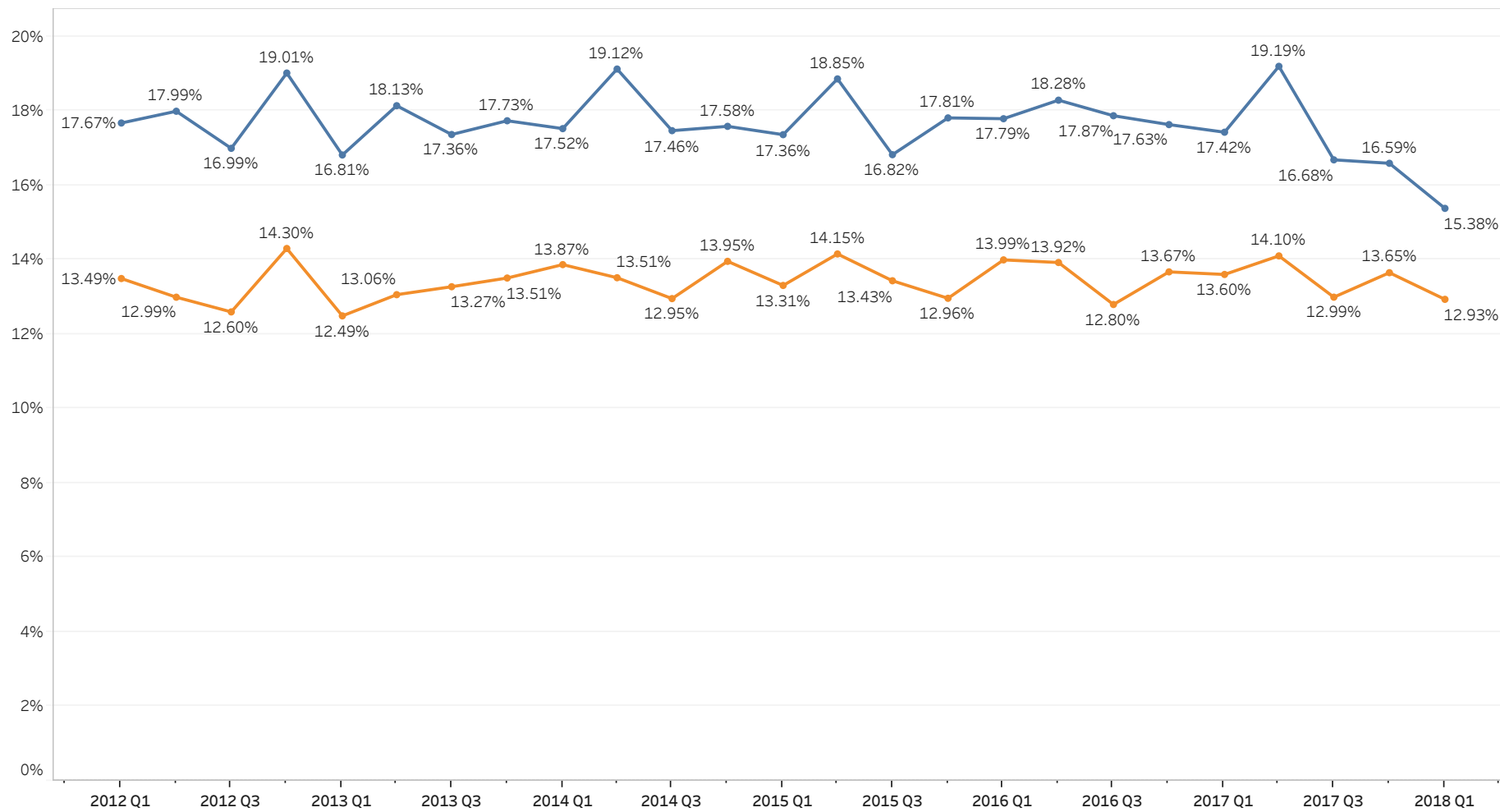
Quarterly Trends by Race - Preterm Birth (%)

All OEI Counties | CY 2012-2018

Race

African American

Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Preterm Birth (%) All OEI Counties | CY 2012-2018

Medicaid Plan
All Plans

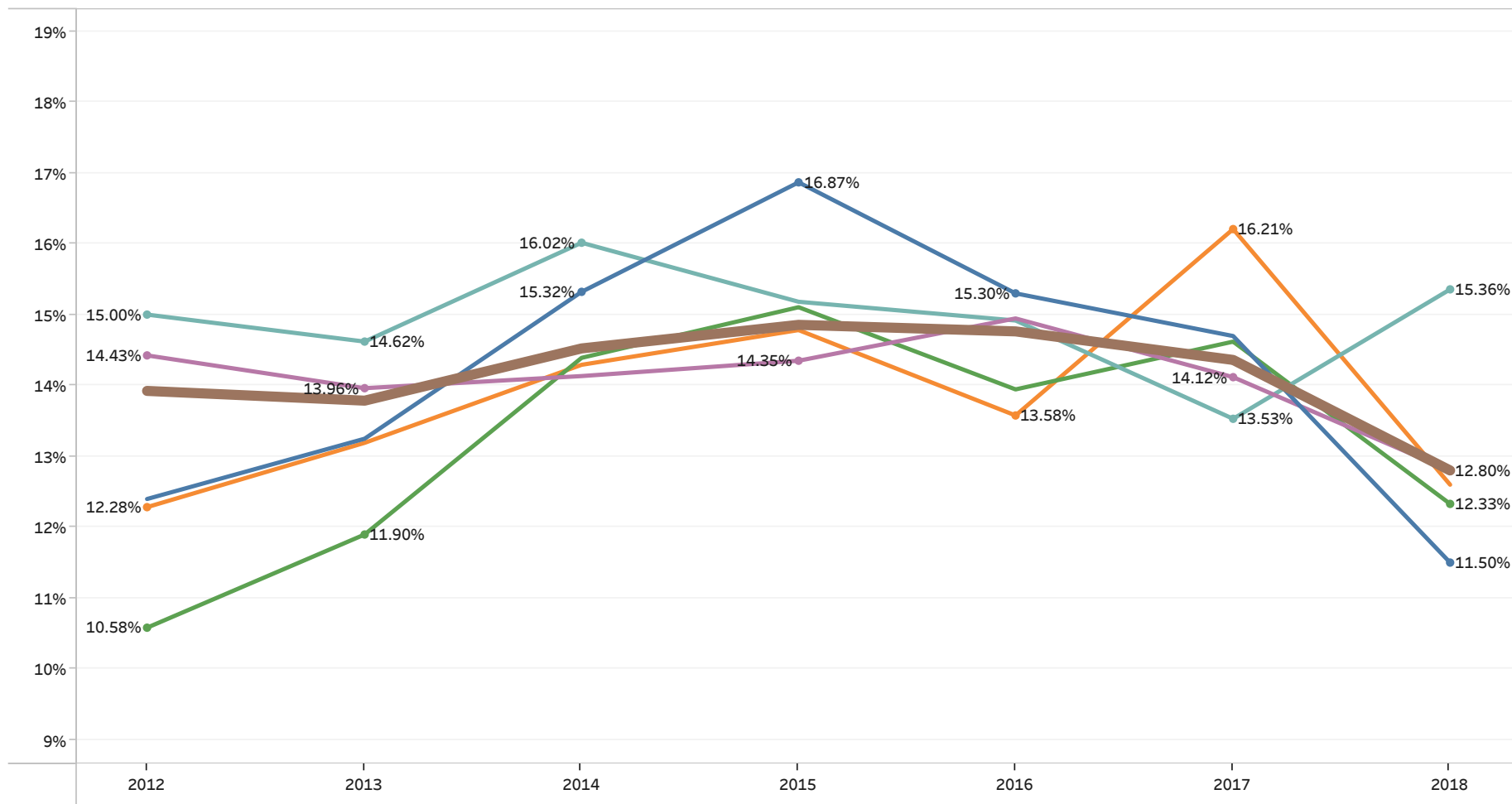
Buckeye

CareSource

Molina

Paramount

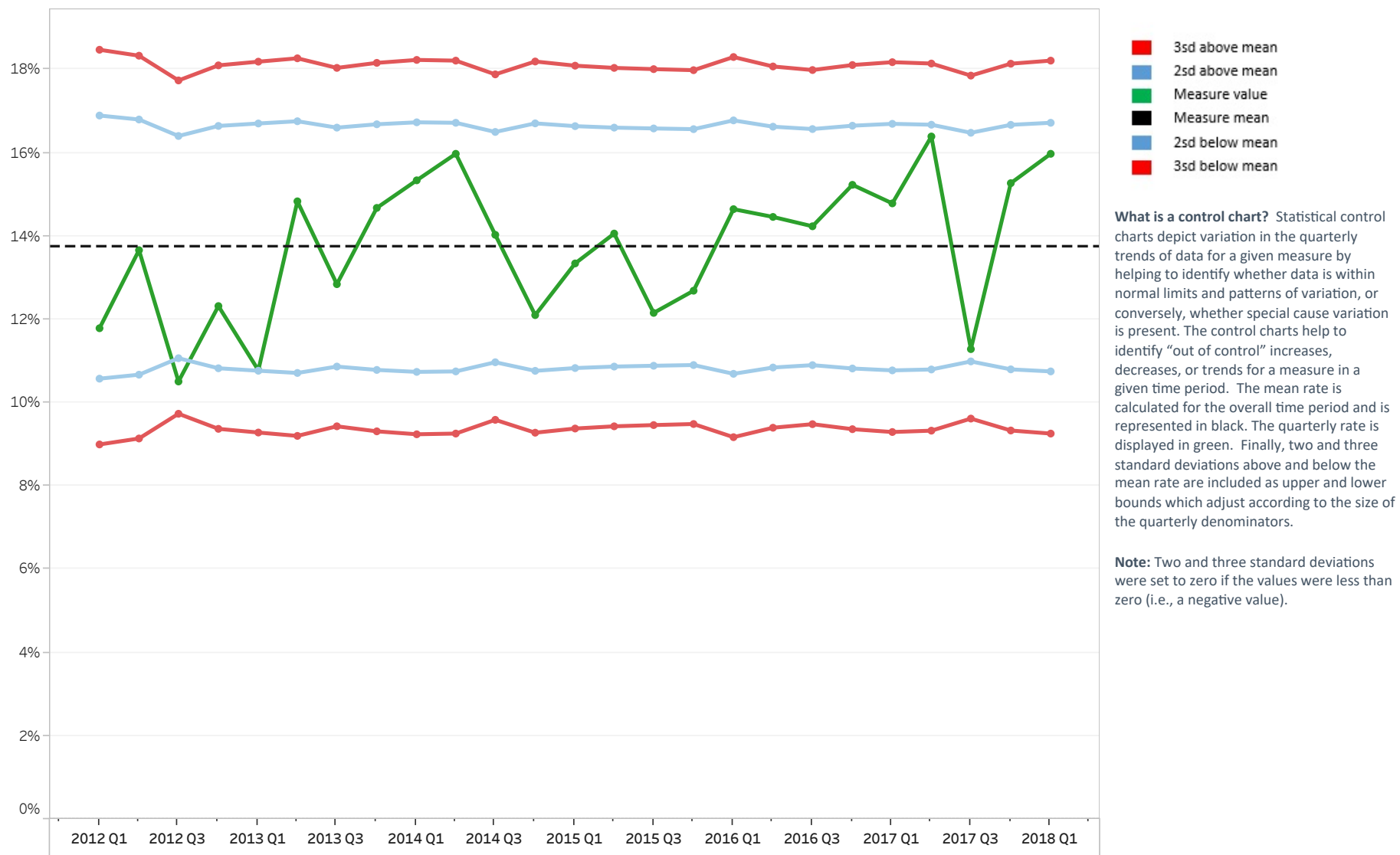
United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.

Butler County Quarterly Control Chart - Preterm Birth (%) CY 2012-2018



Data are limited to Medicaid as the payer.

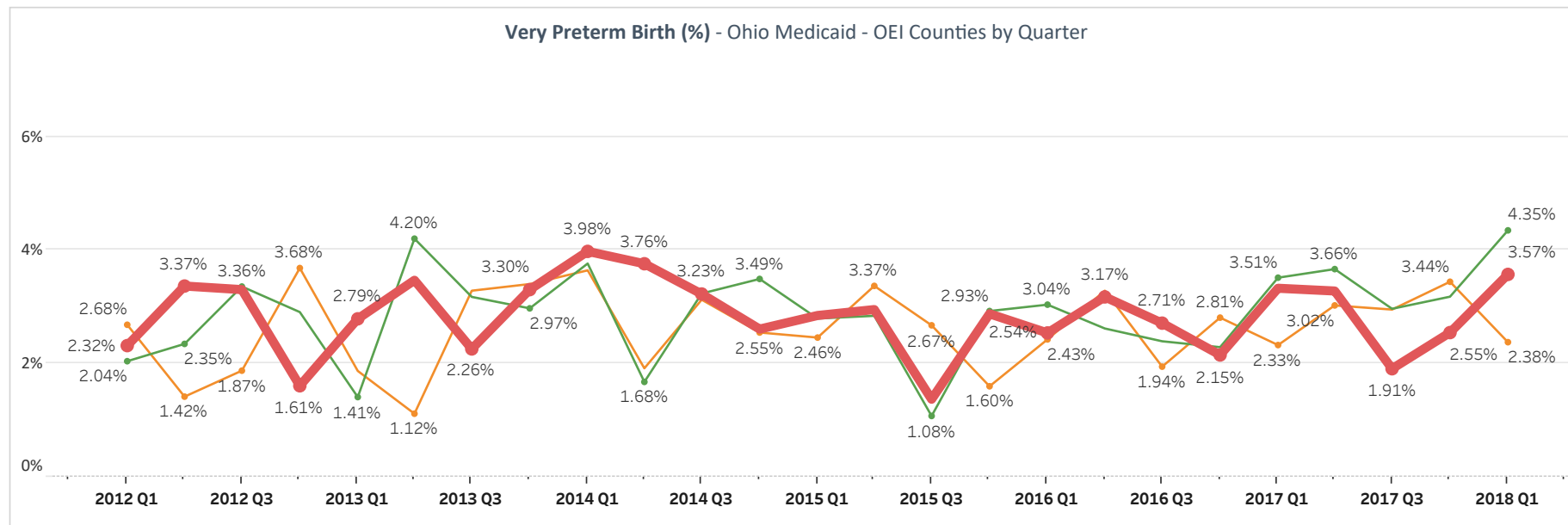


Very Preterm Birth (%)

Butler, Mahoning, Stark Counties - Very Preterm Birth (%)

Trends by Quarter | CY 2012-2018

Counties
■ Butler ■ Mahoning ■ Stark

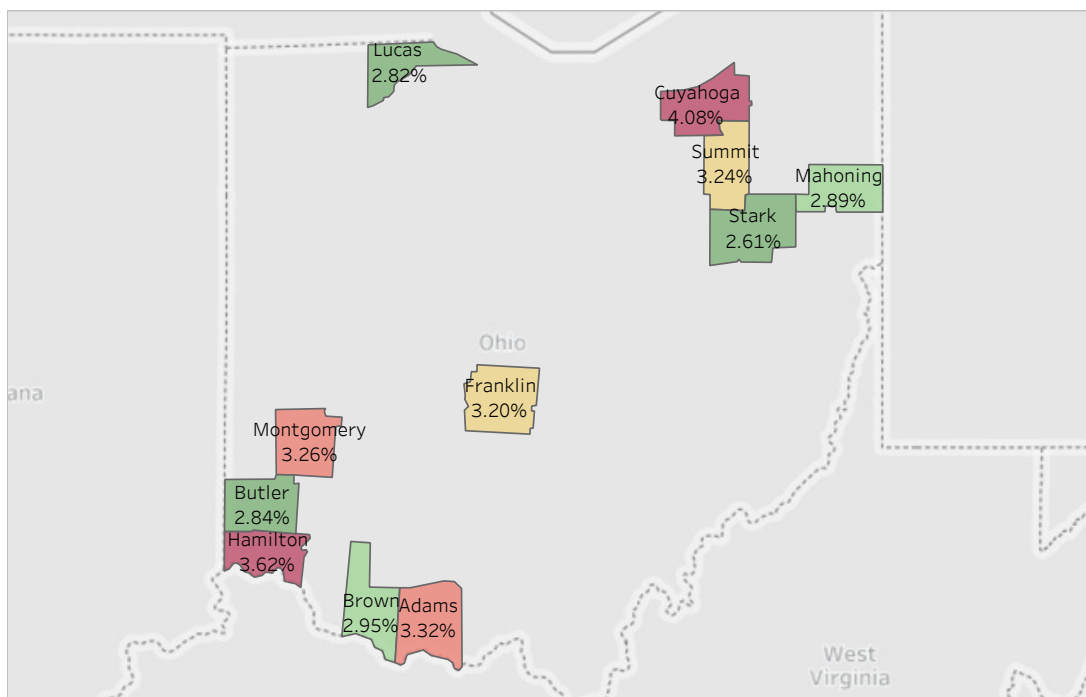


County	VPTB Aggregate Rate Q1 2012 - Q1 2018	VPTB Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	2.89%	3.53%	From 45 to 34 VPTB Infants
Butler	2.84%	2.79%	From 66 to 53 VPTB Infants
Stark	2.61%	2.95%	From 61 to 48 VPTB Infants

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Very Preterm Birth (%)

OEI County Quintiles | CY 2012-2018



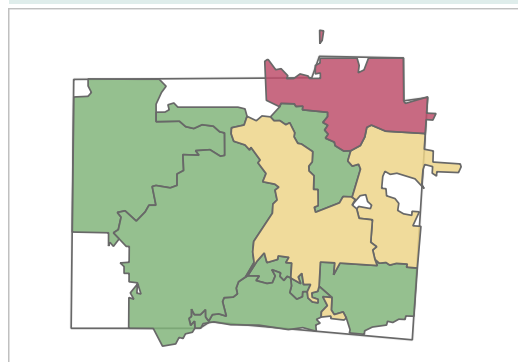
Map Measure Ranges

- $\geq 0 < 2.850\%$
- $\geq 2.850 < 2.963\%$
- $\geq 2.963 < 3.250\%$
- $\geq 3.250 < 3.605\%$
- $\geq 3.605\%$

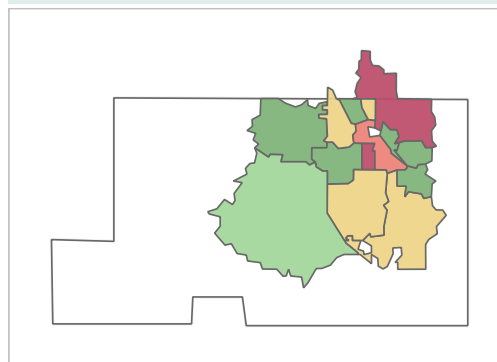
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Data are through Q1 2018.
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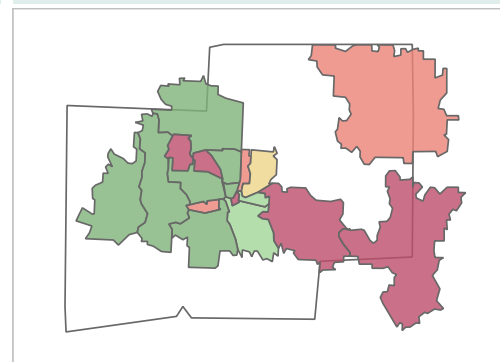
Butler



Mahoning

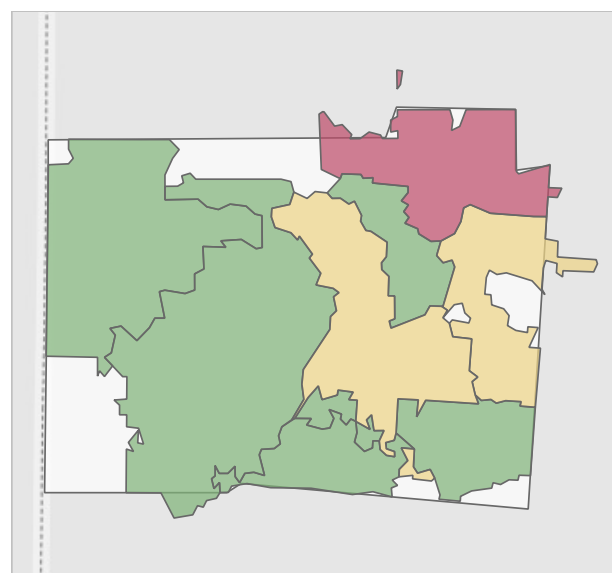
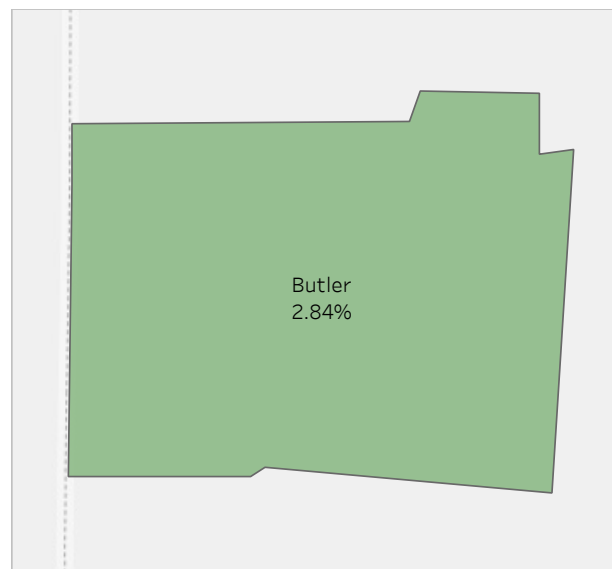
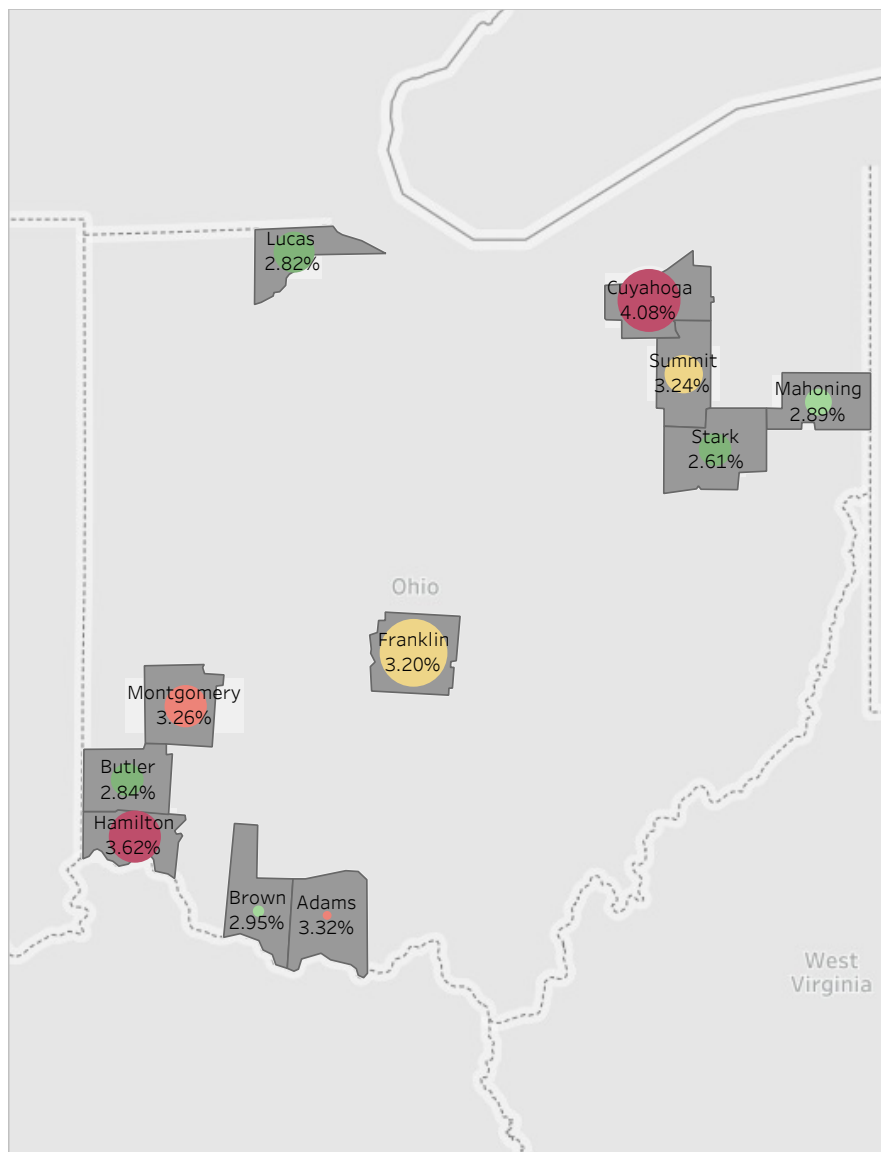


Stark



Butler County - Very Preterm Birth (%)

OEI Quintiles | CY 2012-2018



Map Measure Ranges

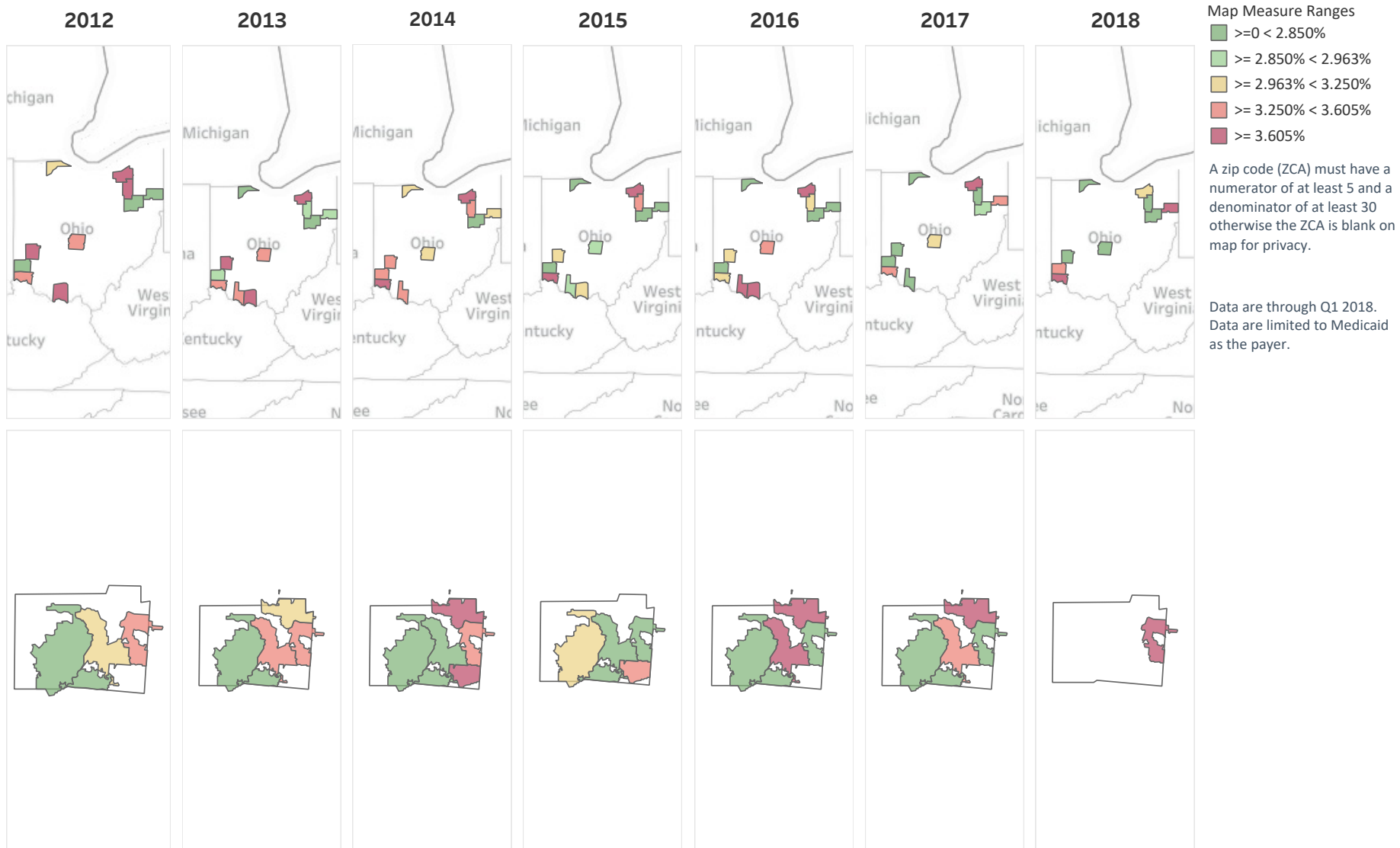
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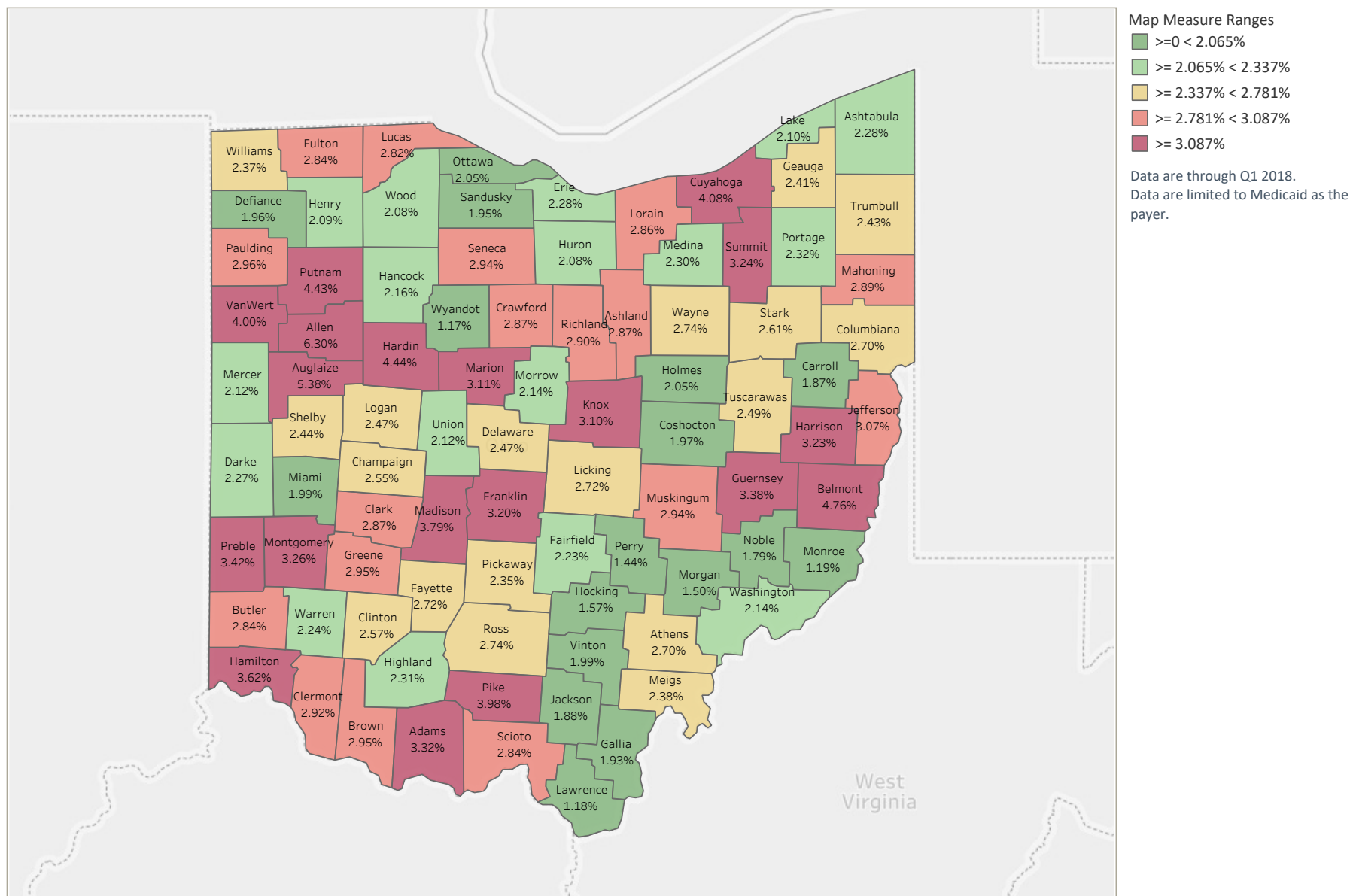
Butler County - Very Preterm Birth (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Very Preterm Birth (%)

Overall Quintiles by County | CY 2012 - 2018



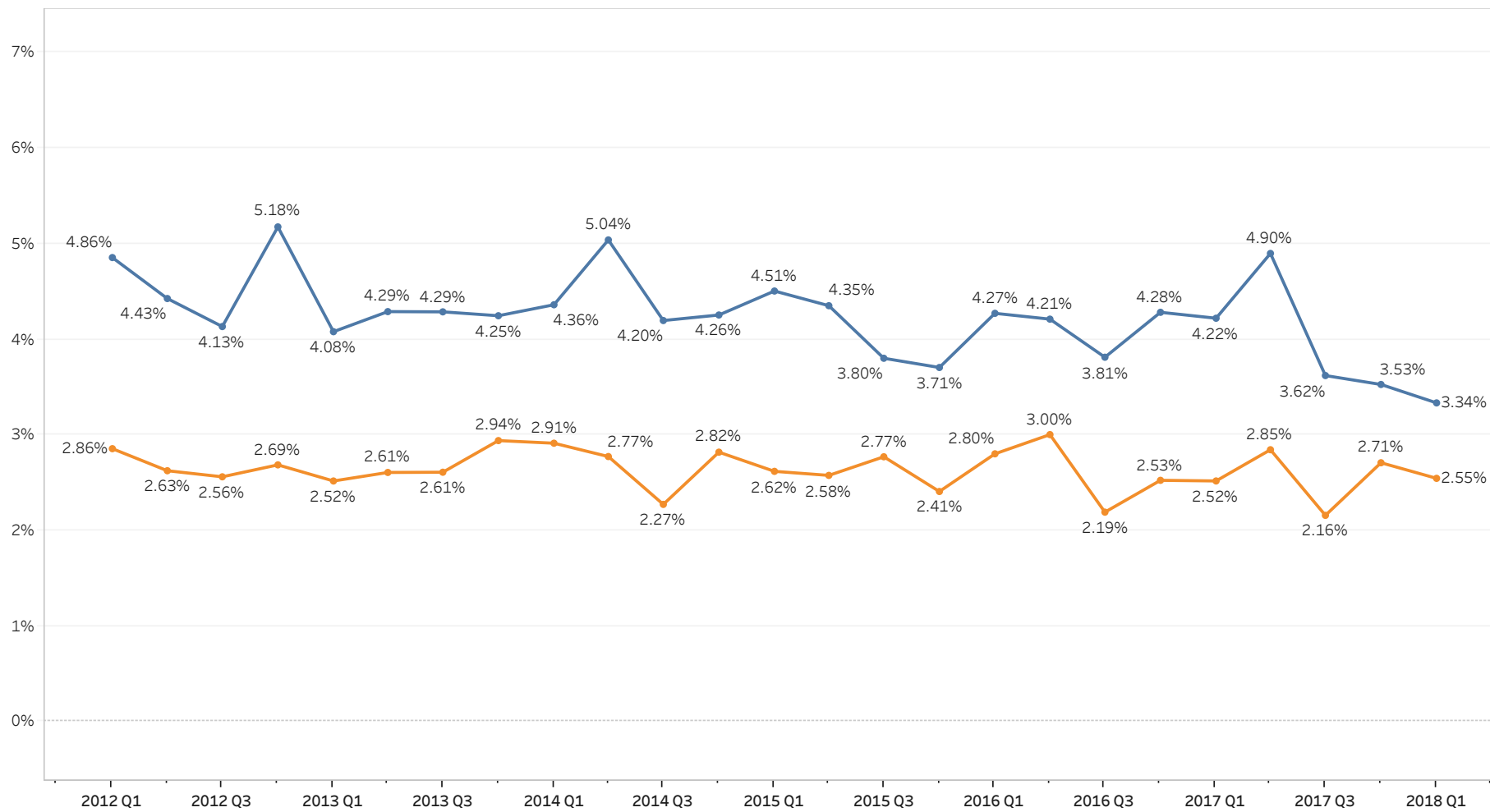


Quarterly Trends by Race - Very Preterm Birth (%) All OEI Counties | CY 2012-2018

Race

African American

Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Very Preterm Birth (%) All OEI Counties | CY 2012-2018

Medicaid Plan

All Plans

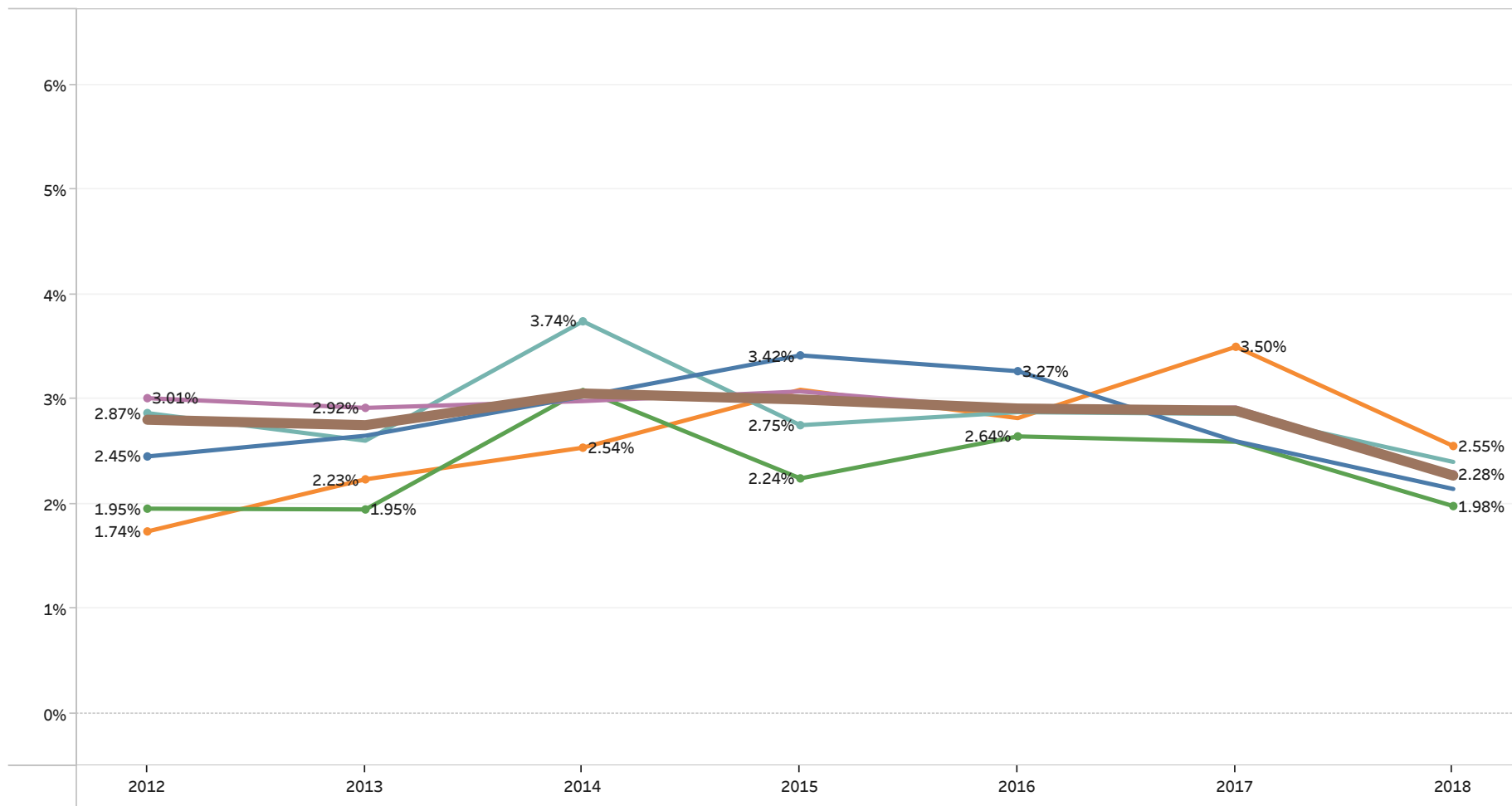
Buckeye

CareSource

Molina

Paramount

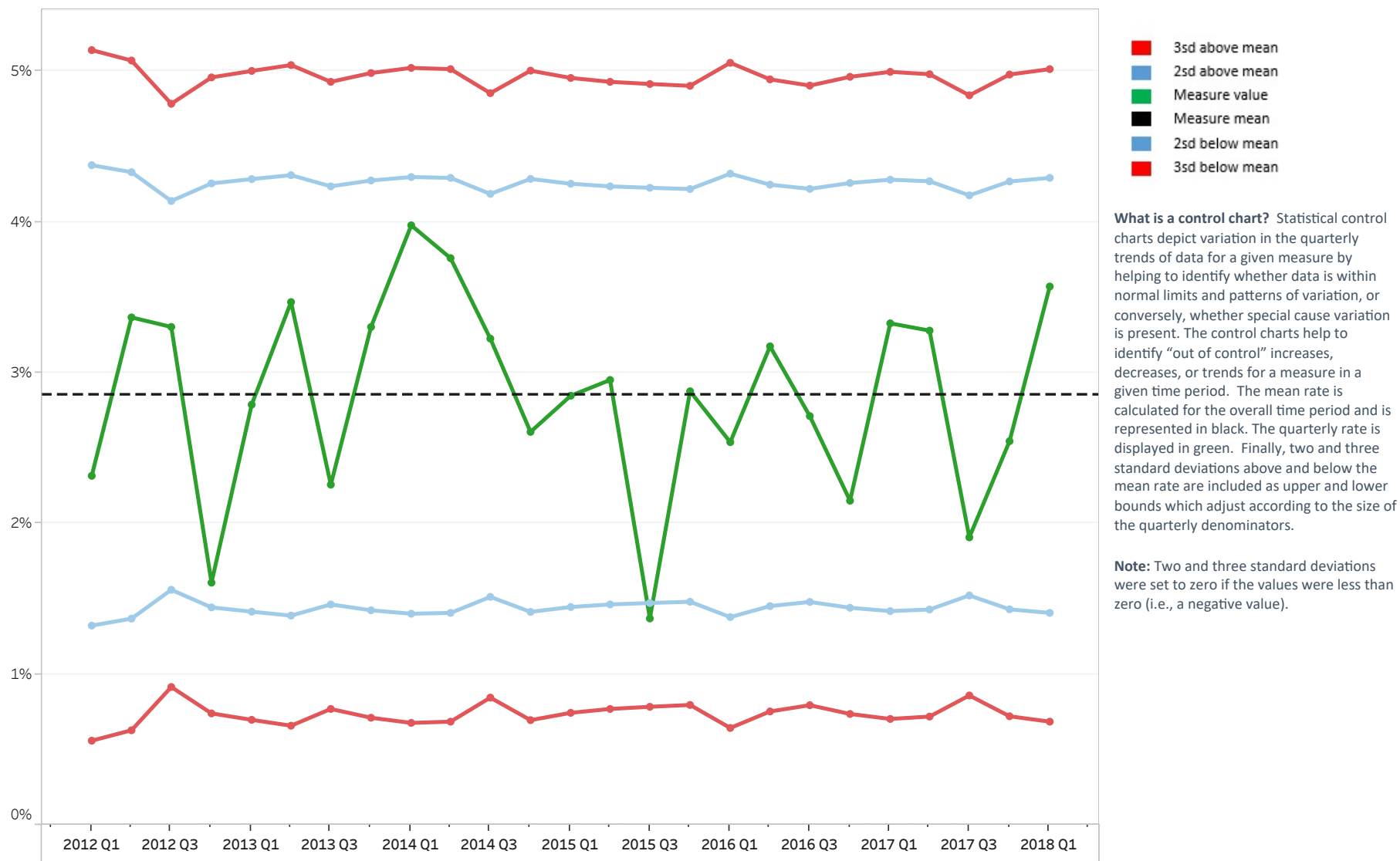
United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.

Butler County Quarterly Control Chart - Very Preterm Birth (%) CY 2012-2018

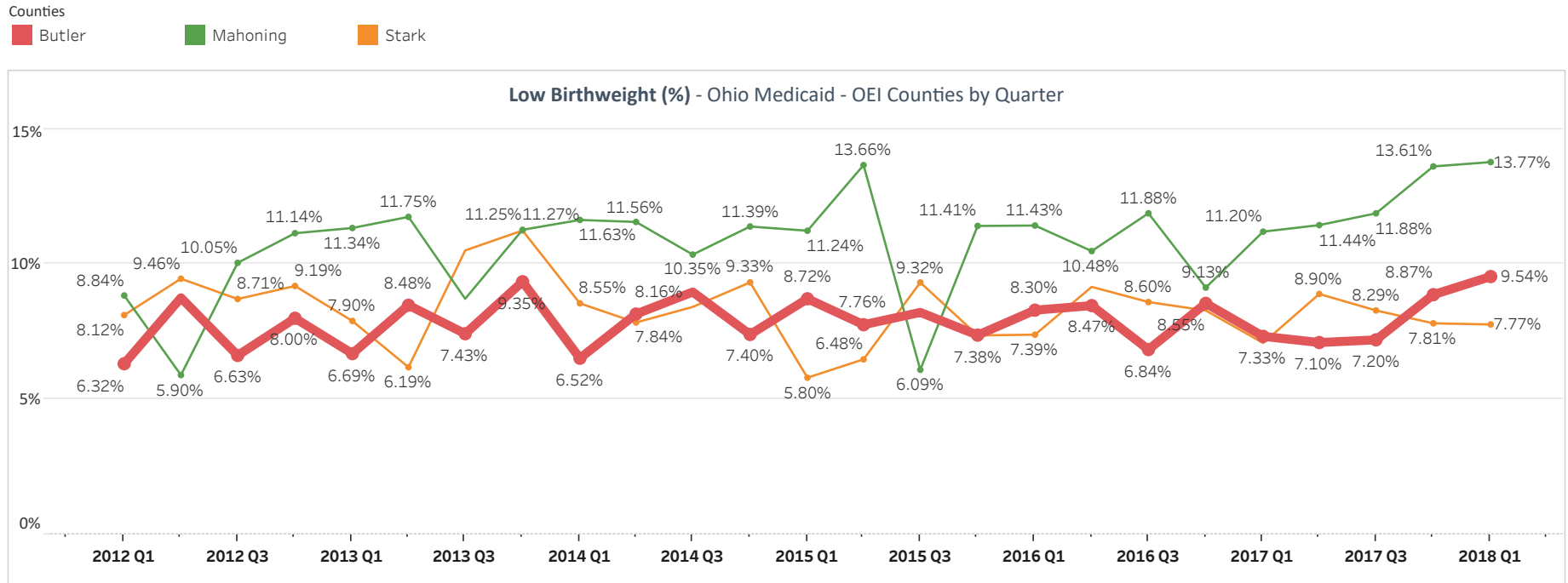


Data are limited to Medicaid as the payer.

Low Birthweight (%)

Butler, Mahoning, Stark Counties - Low Birthweight (%)

Trends by Quarter | CY 2012-2018



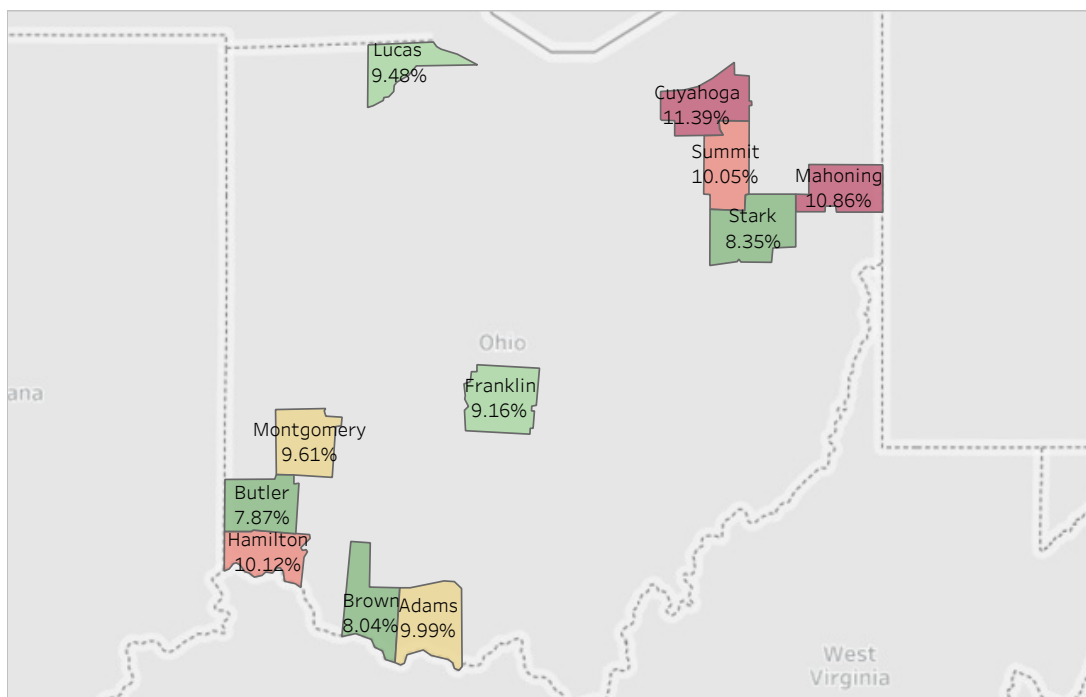
County	LBW Rate Aggregate Q1 2012 - Q1 2018	LBW Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	10.86%	12.70%	From 166 to 146 LBW Infants
Butler	7.87%	8.14%	From 178 to 157 LBW Infants
Stark	8.35%	8.20%	From 188 to 166 LBW Infants

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.



Butler, Mahoning, Stark Counties - Low Birthweight (%)

OEI County Quintiles | CY 2012-2018



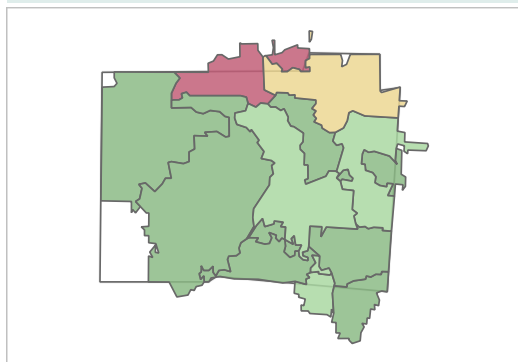
Map Measure Ranges

- $\geq 0 < 8.356\%$
- $\geq 8.356\% < 9.494\%$
- $\geq 9.494\% < 10.038\%$
- $\geq 10.038\% < 10.851\%$
- $\geq 10.851\%$

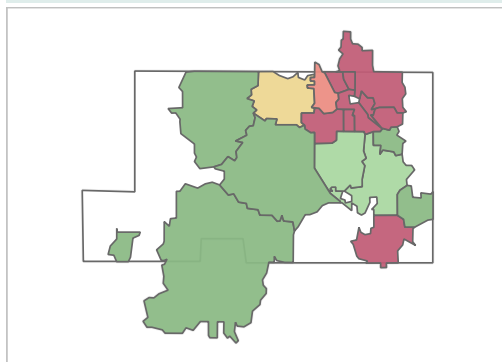
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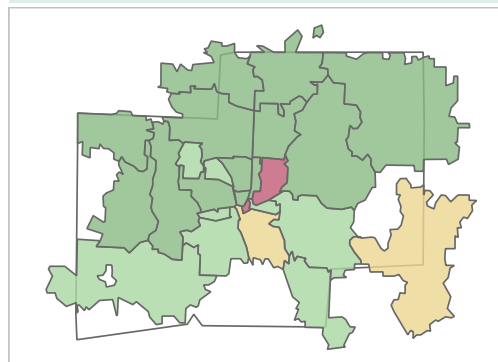
Butler



Mahoning

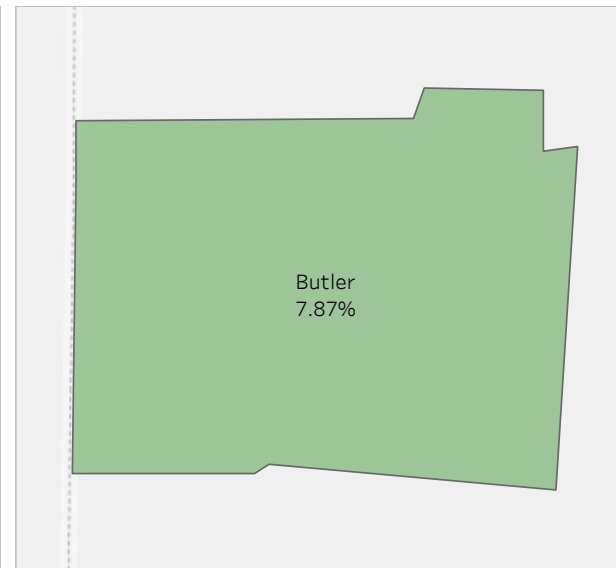
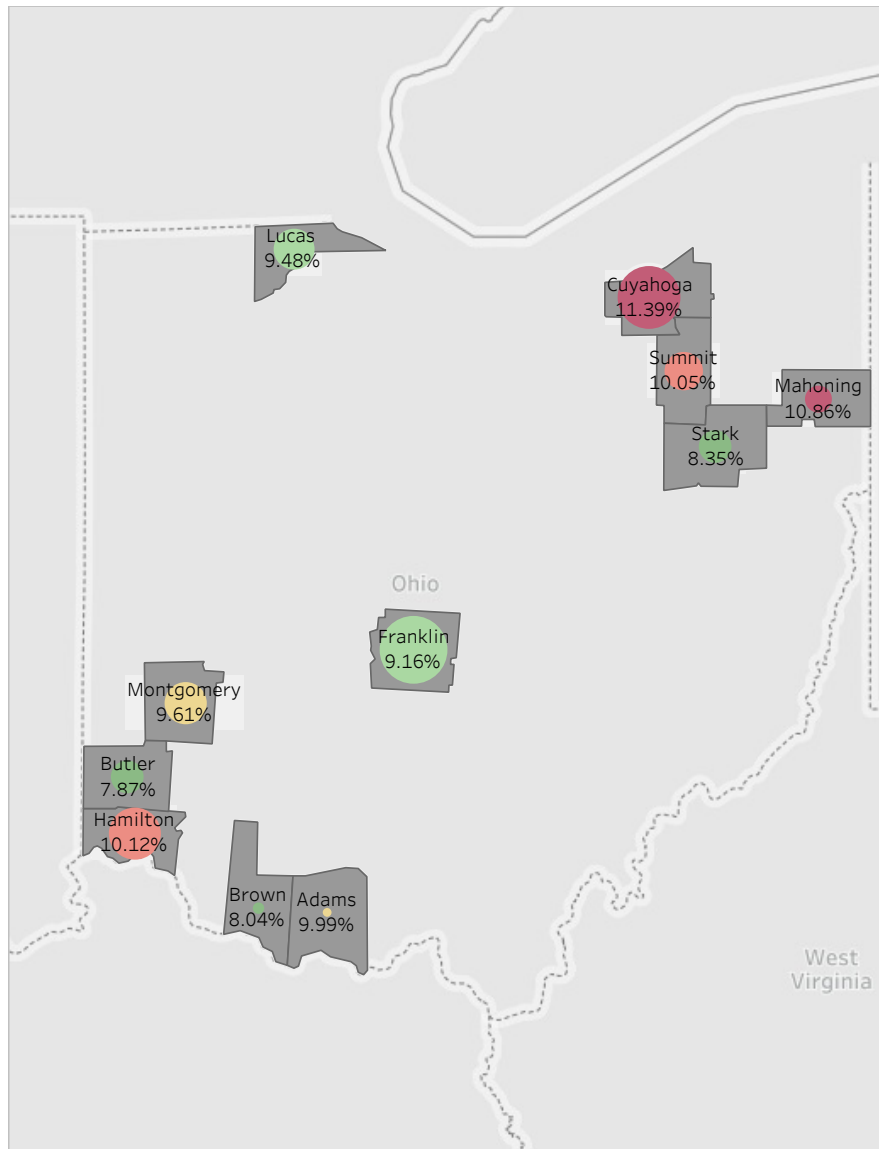


Stark



Butler County - Low Birthweight (%)

OEI Quintiles | CY 2012-2018

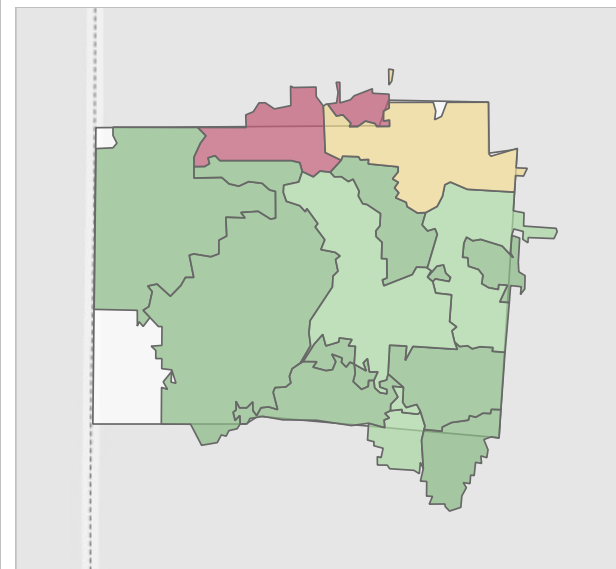


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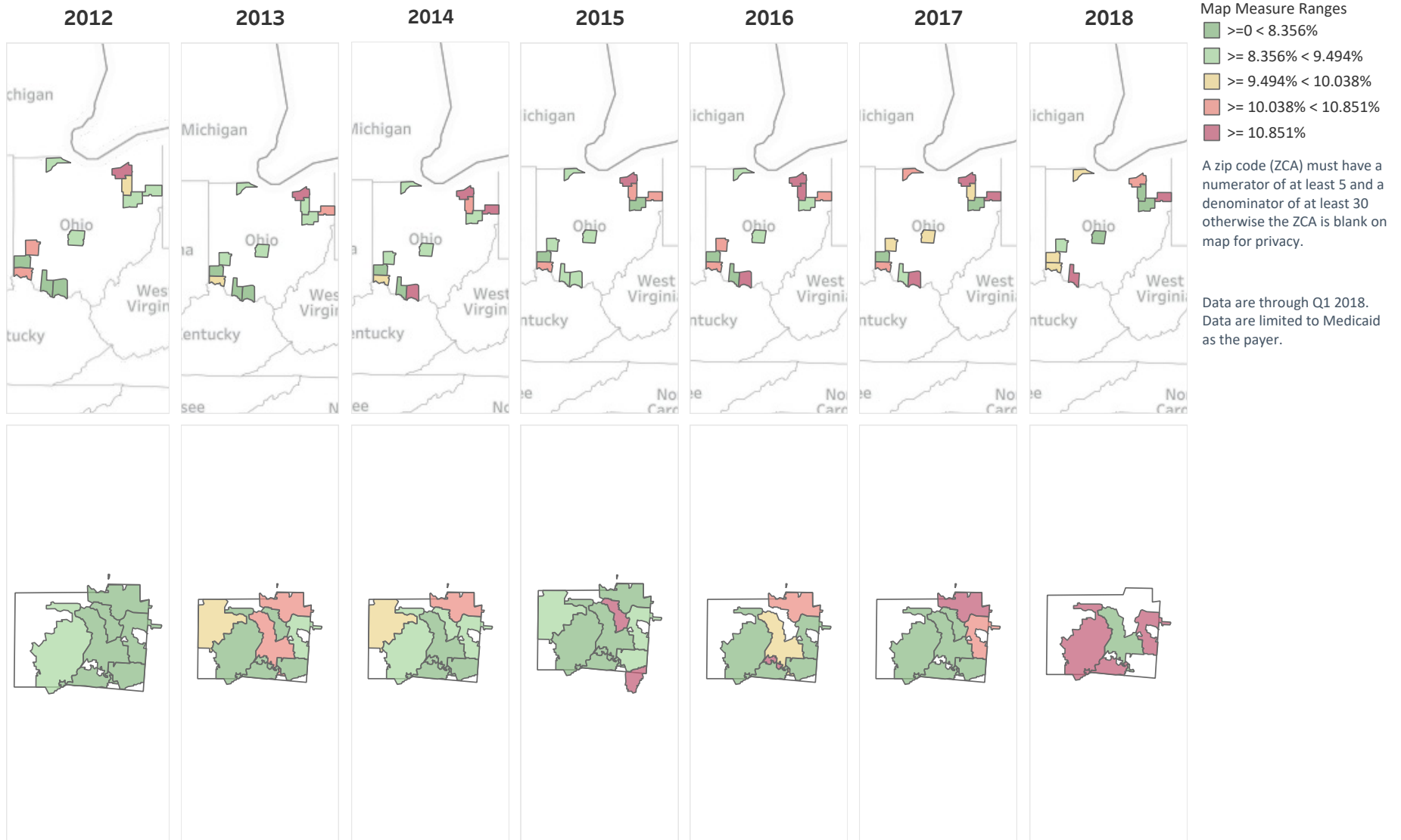
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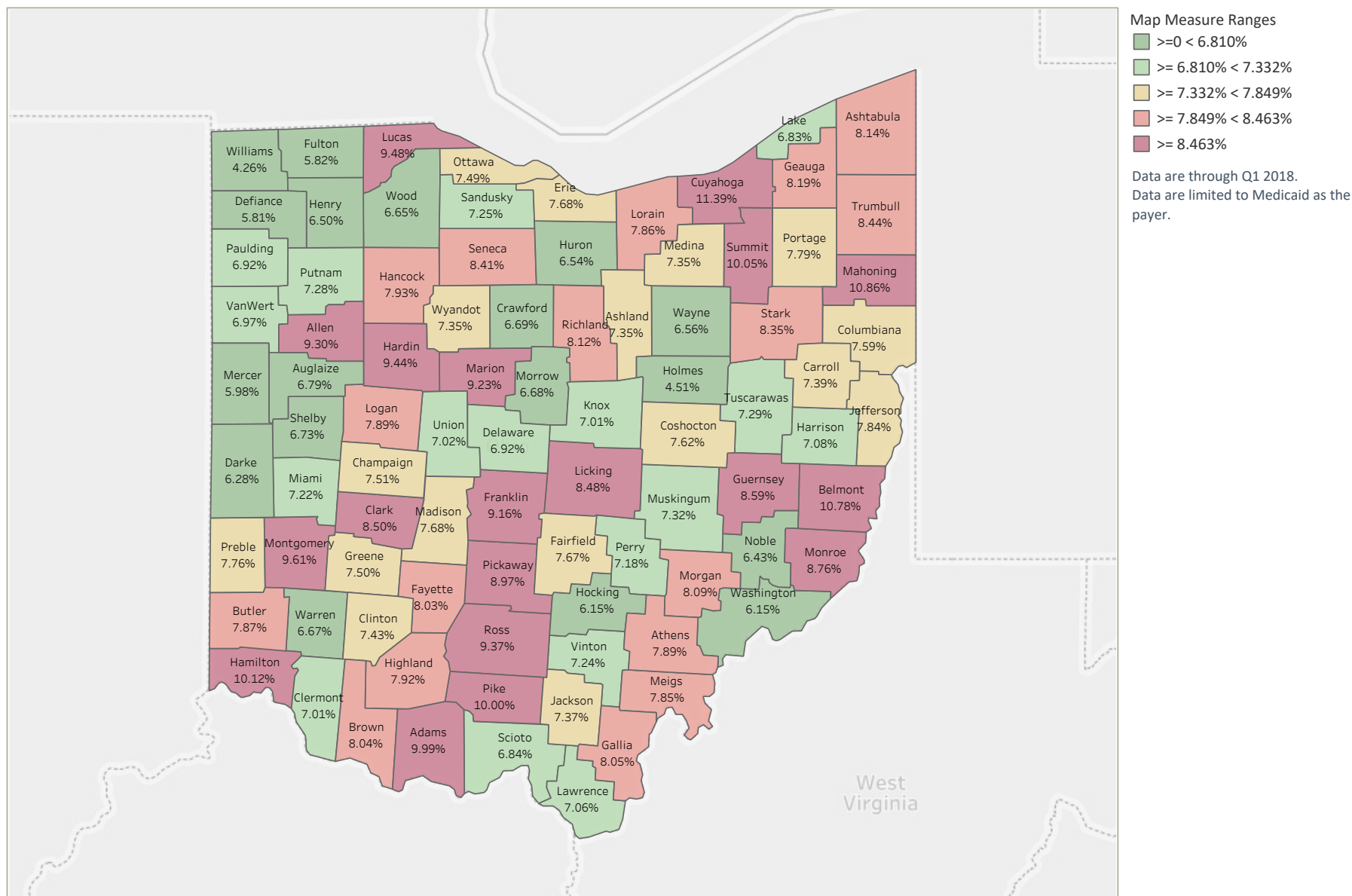
Butler County - Low Birthweight (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Low Birthweight (%)

Overall Quintiles by County | CY 2012 - 2018



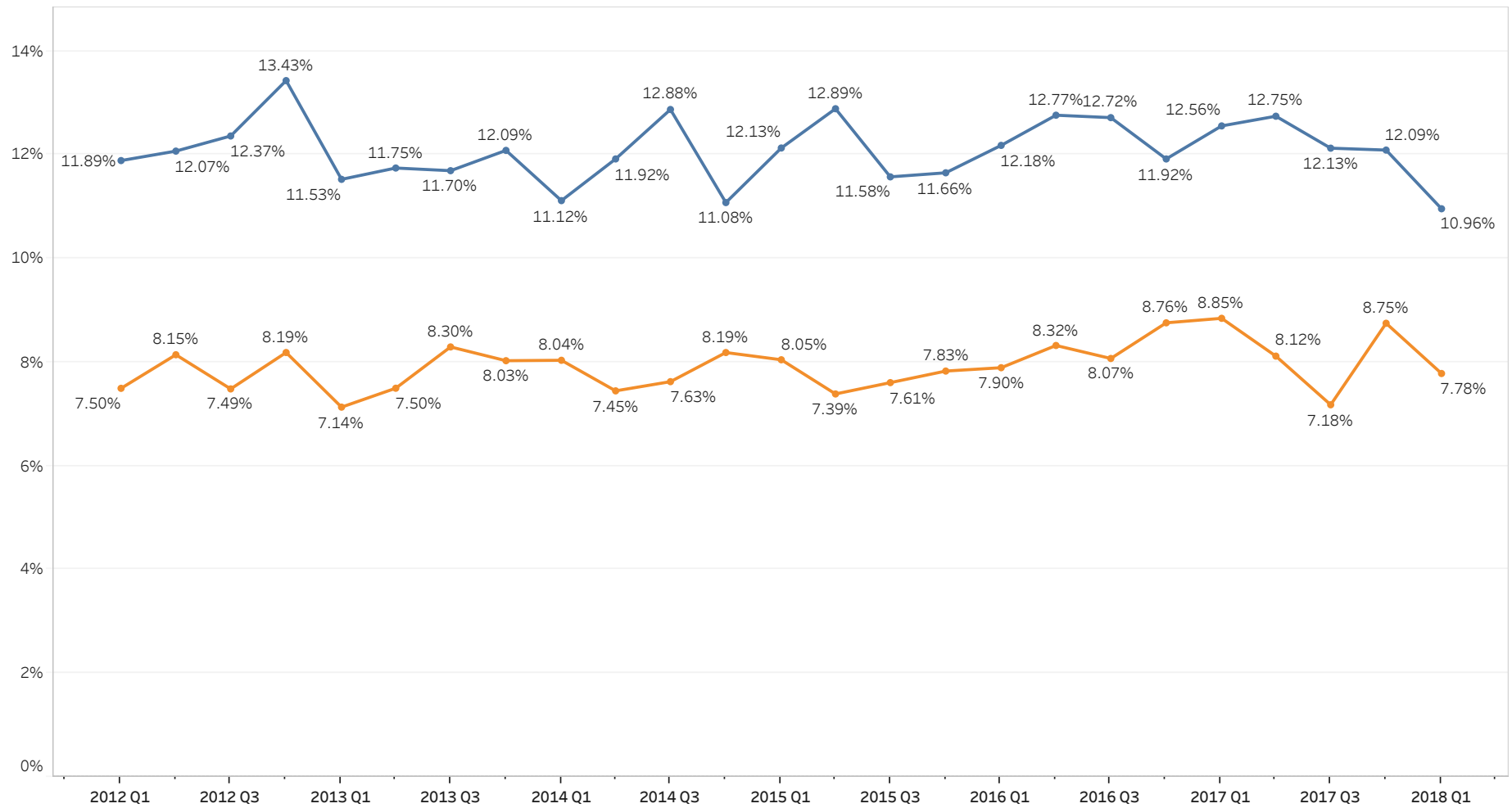


Quarterly Trends by Race - Low Birthweight (%)

All OEI Counties | CY 2012-2018

Race

African American Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Low Birthweight (%) All OEI Counties | CY 2012-2018

Medicaid Plan
All Plans

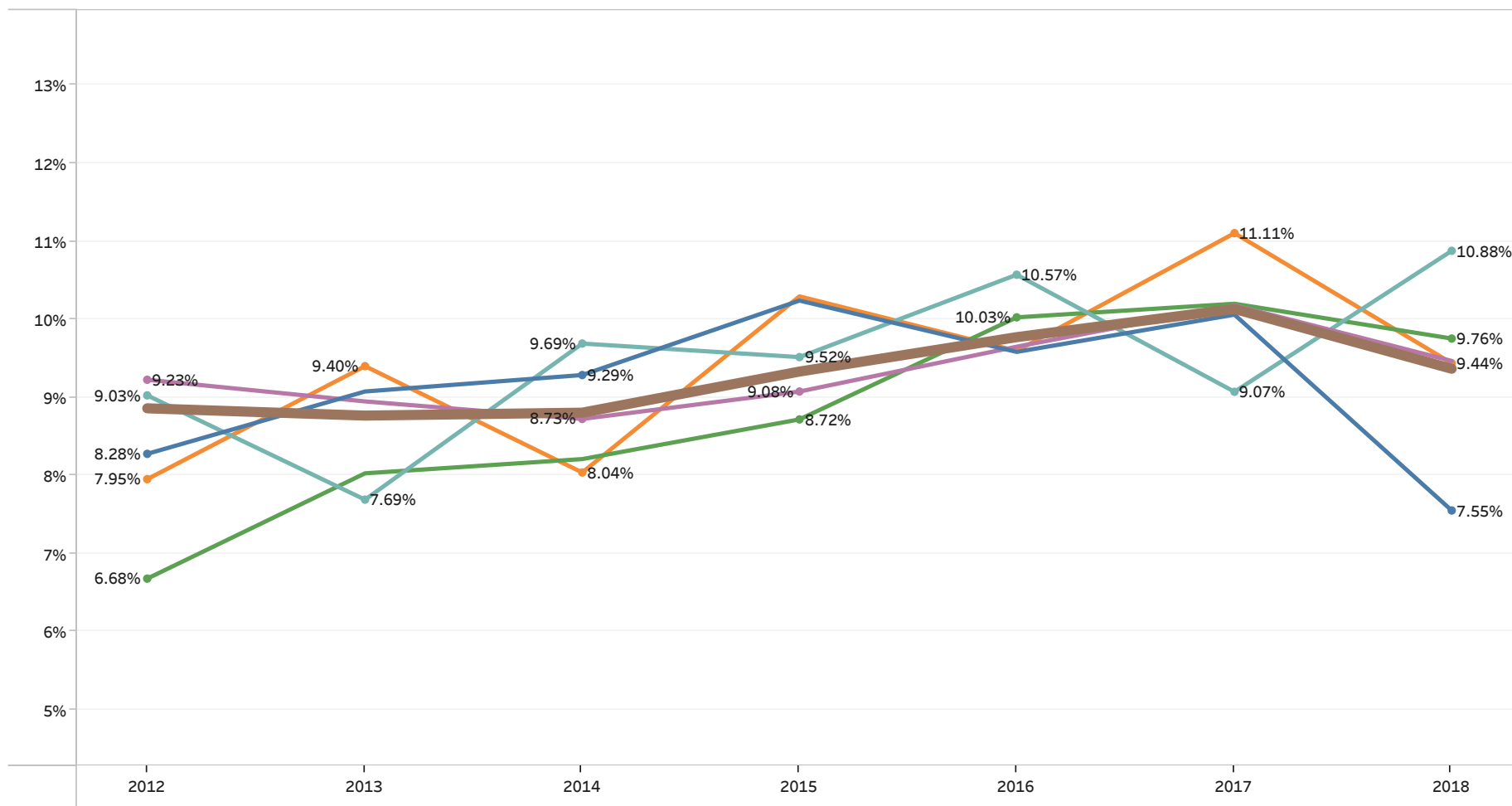
Buckeye

CareSource

Molina

Paramount

United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.



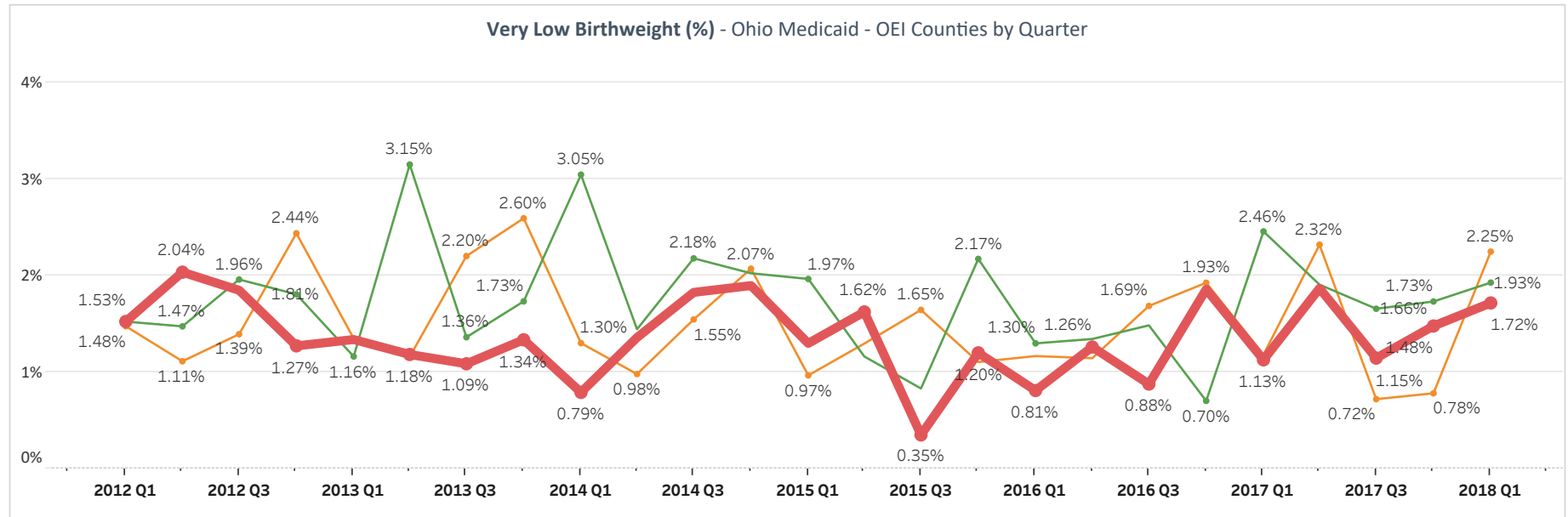
Very Low Birthweight (%)

Butler, Mahoning, Stark Counties - Very Low Birthweight (%)

Trends by Quarter | CY 2012-2018

Counties

Butler Mahoning Stark

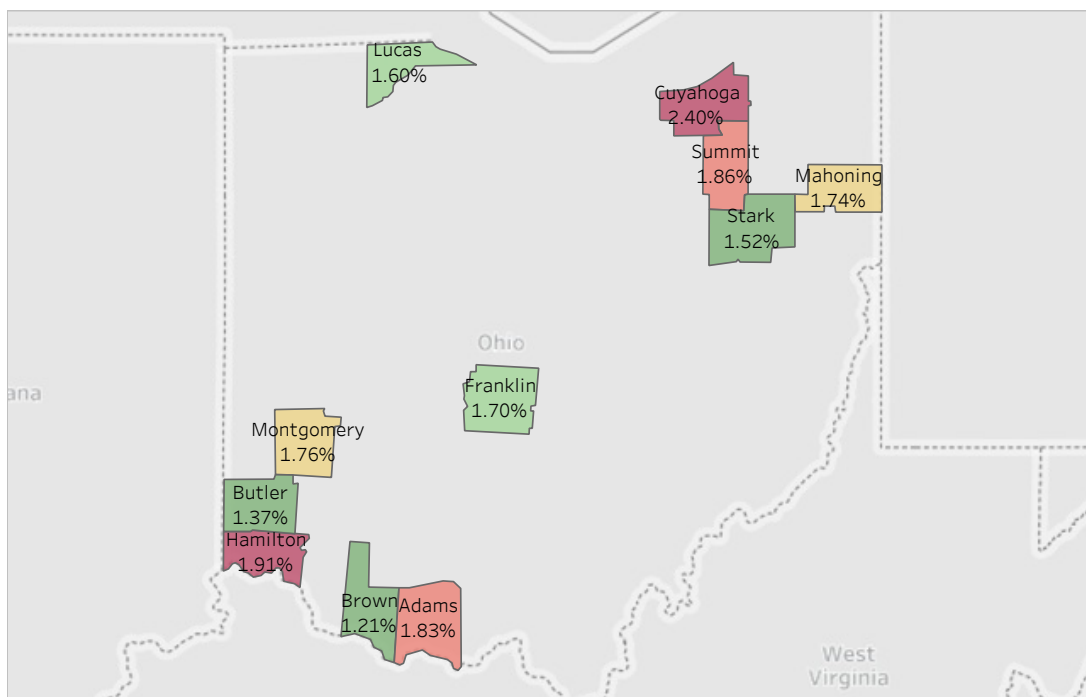


County	VLBW Aggregate Rate Q1 2012 - Q1 2018	VLBW Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	1.74%	1.80%	From 27 to 18 VLBW Infants
Butler	1.37%	1.54%	From 31 to 22 VLBW Infants
Stark	1.52%	1.50%	From 34 to 25 VLBW Infants

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Very Low Birthweight (%)

OEI County Quintiles | CY 2012-2018



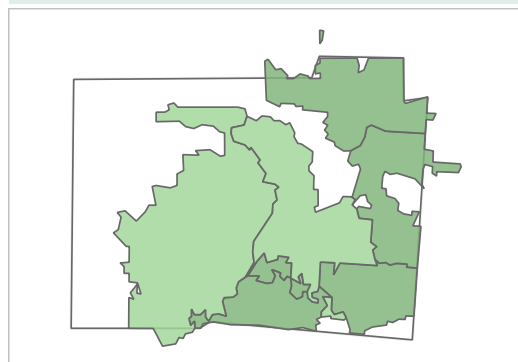
Map Measure Ranges

- $\geq 0 < 1.531\%$
- $\geq 1.531\% < 1.714\%$
- $\geq 1.714\% < 1.825\%$
- $\geq 1.825\% < 1.901\%$
- $\geq 1.901\%$

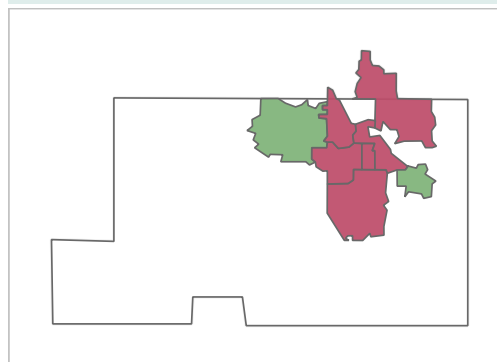
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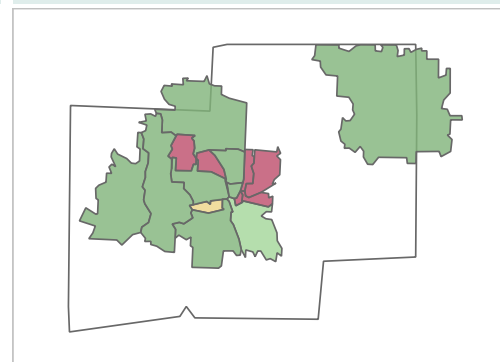
Butler



Mahoning

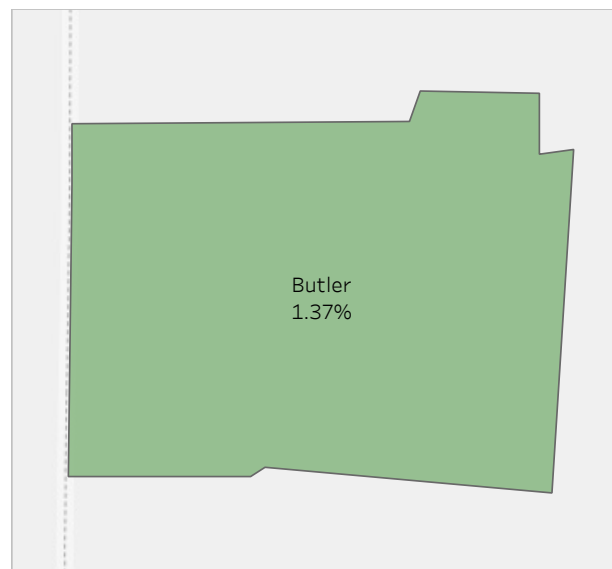
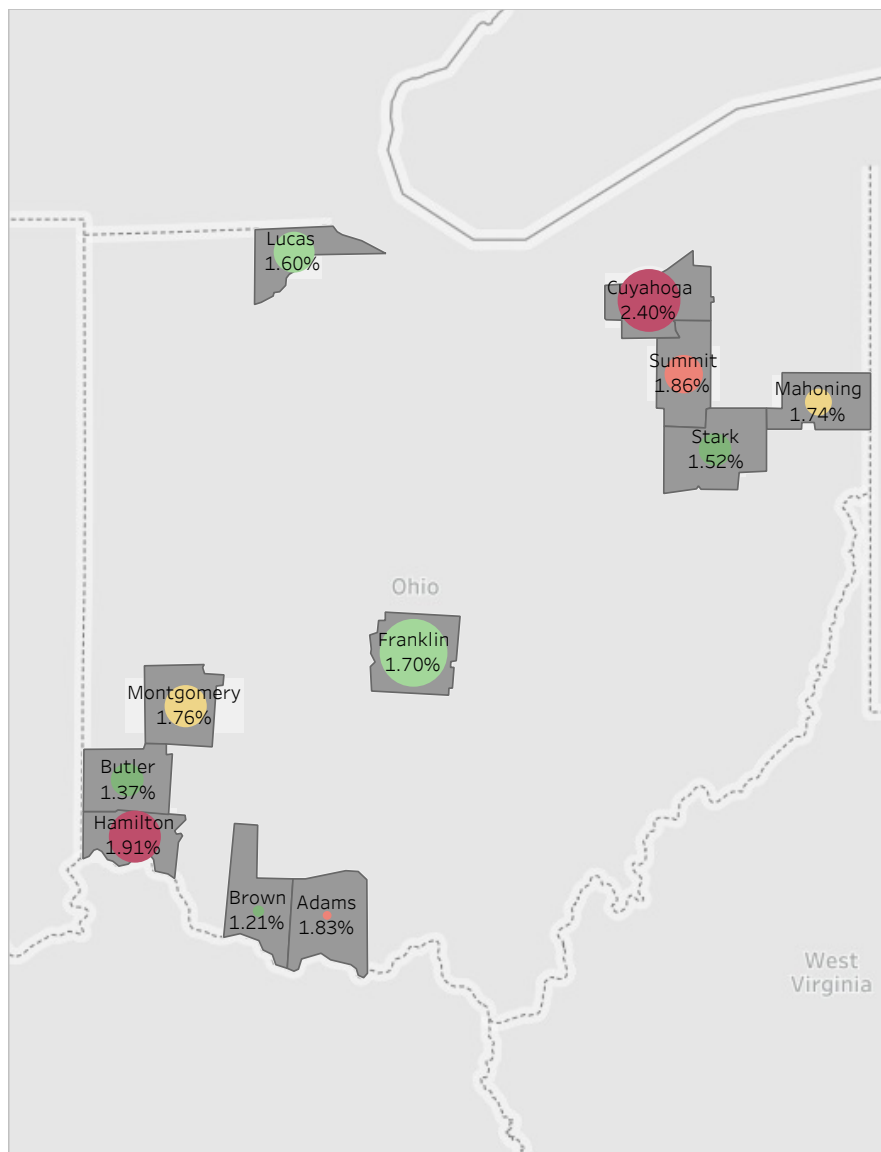


Stark



Butler County - Very Low Birthweight (%)

OEI Quintiles | CY 2012-2018

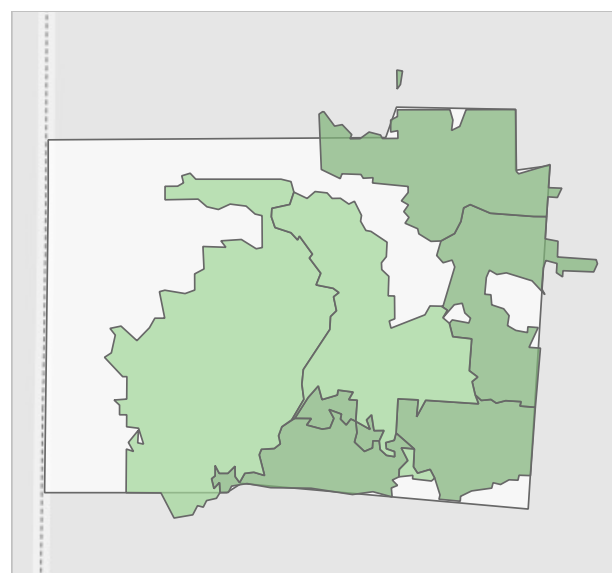


Map Measure Ranges

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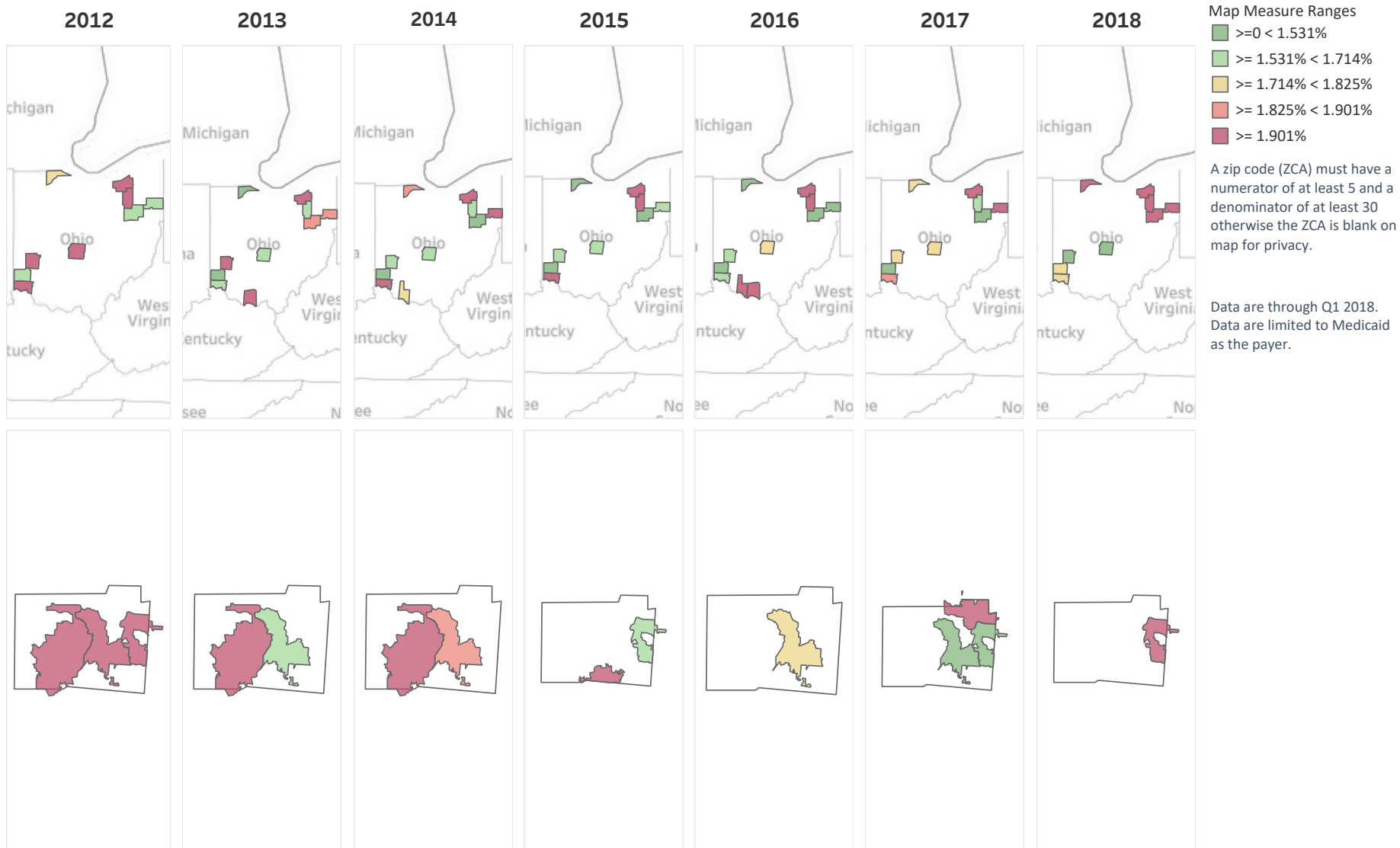
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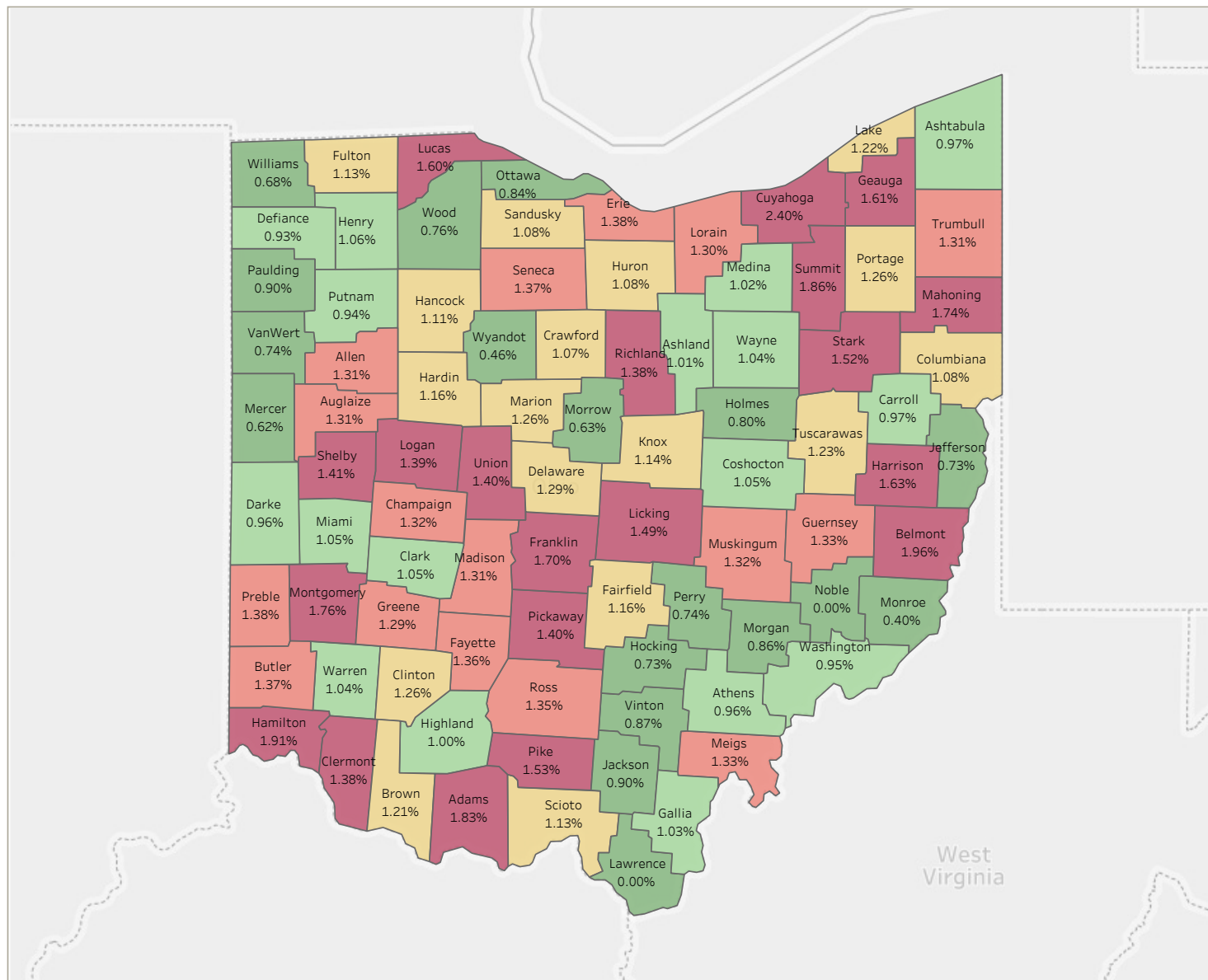
Butler County - Very Low Birthweight (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Very Low Birthweight (%)

Overall Quintiles by County | CY 2012 - 2018



Map Measure Ranges

- $\geq 0 < 0.919\%$
- $\geq 0.919\% < 1.067\%$
- $\geq 1.067\% < 1.292\%$
- $\geq 1.292\% < 1.379\%$
- $\geq 1.379\%$

Data are through Q1 2018.

Data are limited to Medicaid as the payer.



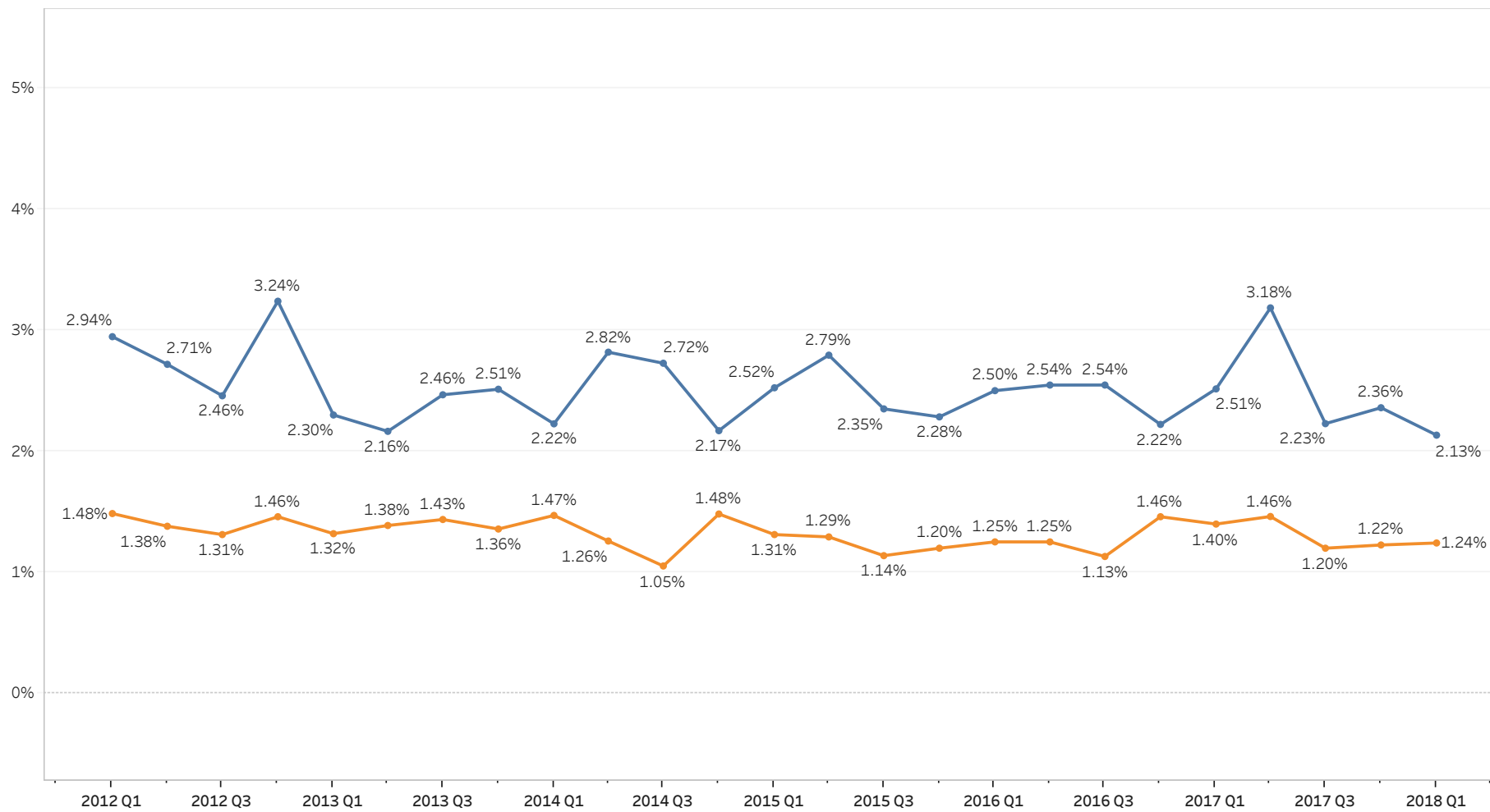
Quarterly Trends by Race - Very Low Birthweight (%)

All OEI Counties | CY 2012-2018

Race

African American

Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Very Low Birthweight (%) All OEI Counties | CY 2012-2018

Medicaid Plan
All Plans

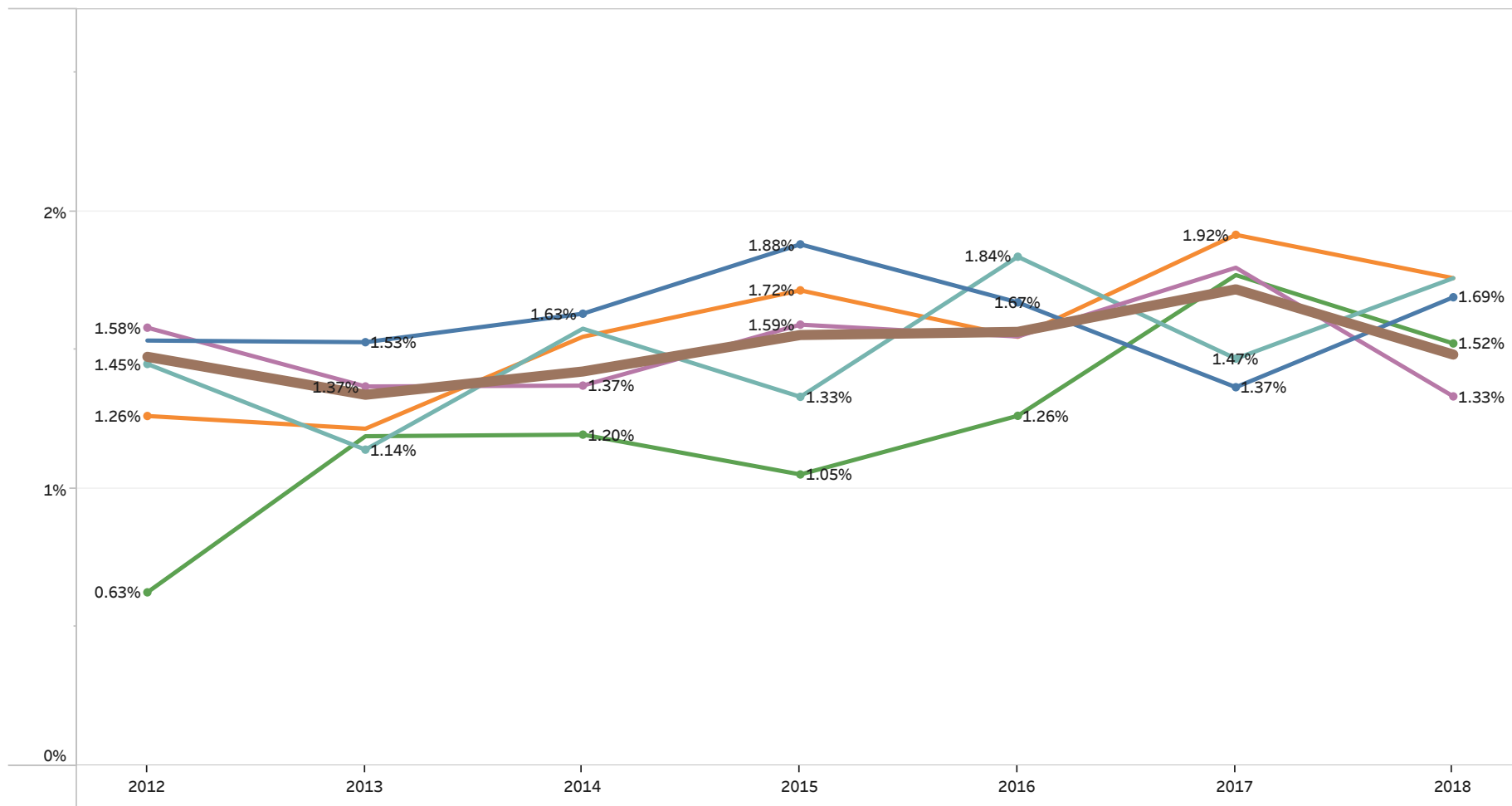
Buckeye

CareSource

Molina

Paramount

United



Data are through Q1 2018.
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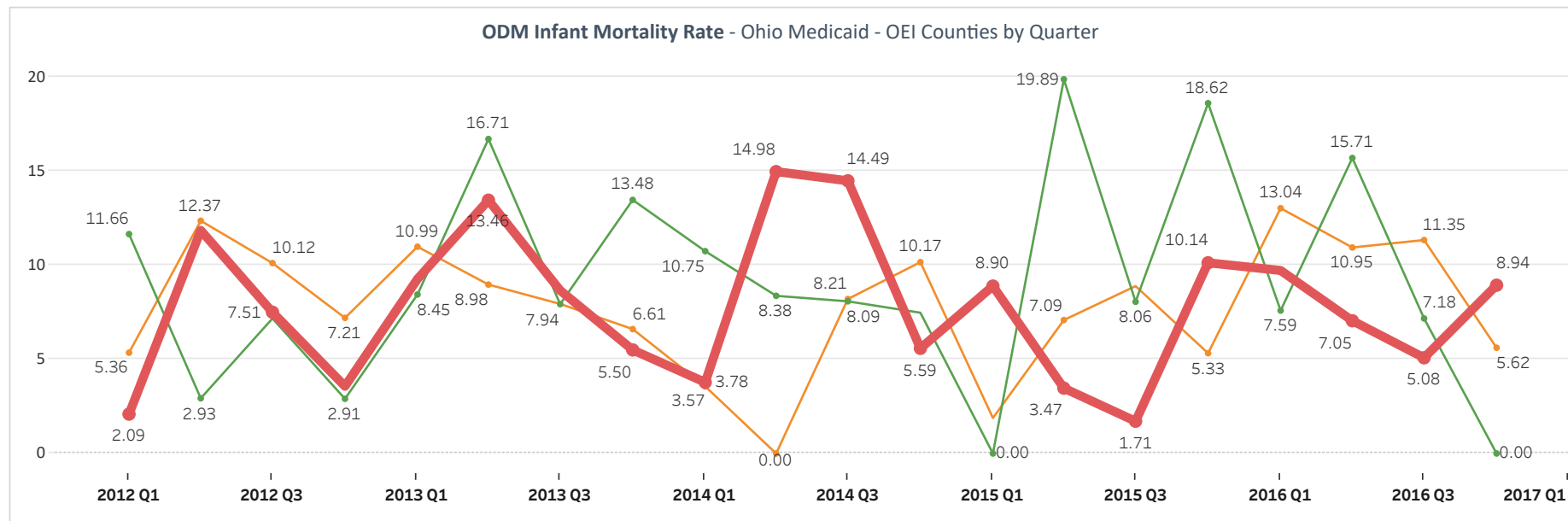


Infant Mortality Rate (ODM Cohort Method Using ODM Data)

Butler, Mahoning, Stark Counties - ODM Infant Mortality Rate Trends by Quarter | CY 2012-2016

Counties

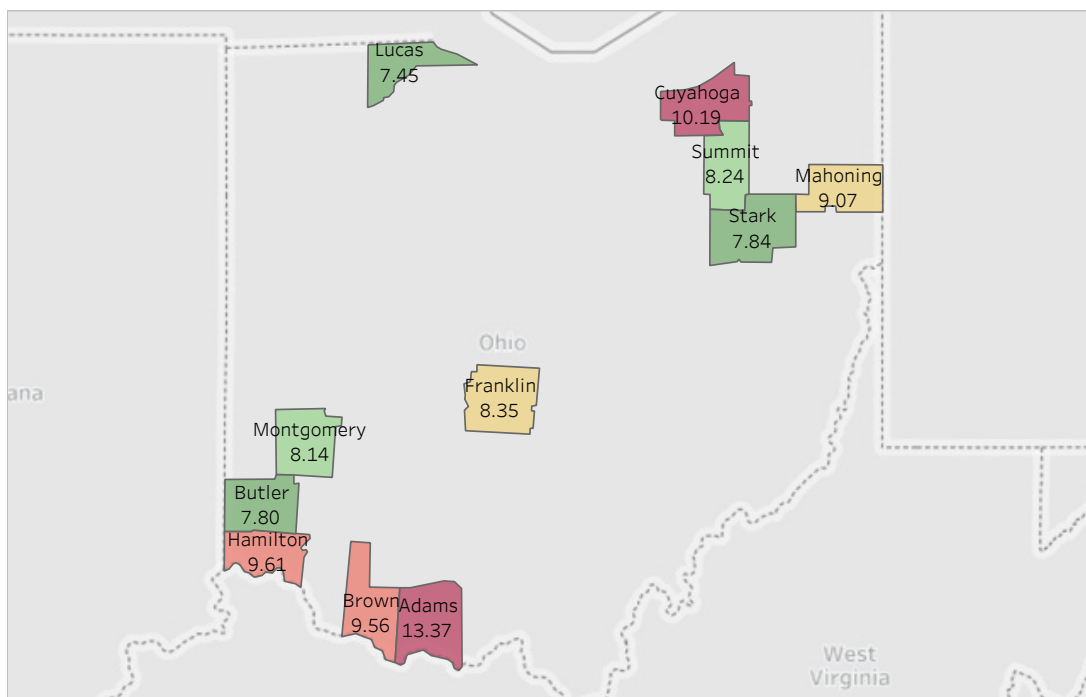
Butler Mahoning Stark



County	Infant Mortality Aggregate Rate Q1 2012 - Q4 2016	Infant Mortality Current Rate Q1 2016 - Q4 2016	Annual Target for Real Impact*
Mahoning	9.07	7.35	From 14 to 8 Deaths
Butler	7.80	7.62	From 18 to 11 Deaths
Stark	7.84	10.29	From 19 to 12 Deaths

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q4 2016) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q4 2016. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - ODM Infant Mortality Rate OEI County Quintiles | CY 2012-2016



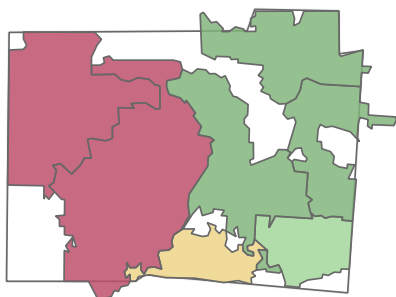
Map Measure Ranges

- $\geq 0 < 7.849$
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- $\geq 8.249 < 9.549$
- $\geq 9.549 < 10.183$
- ≥ 10.183

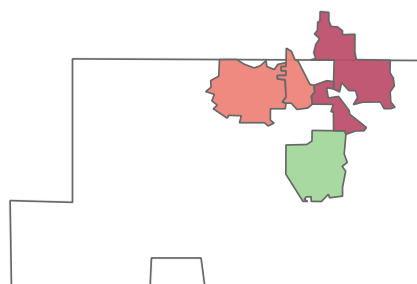
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q4 2016.
Data are limited to Medicaid as the payer.

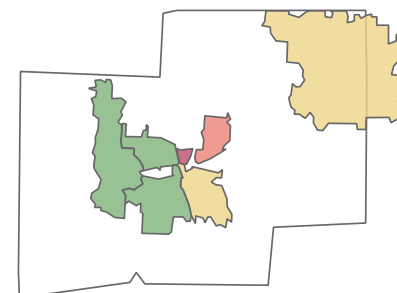
Butler



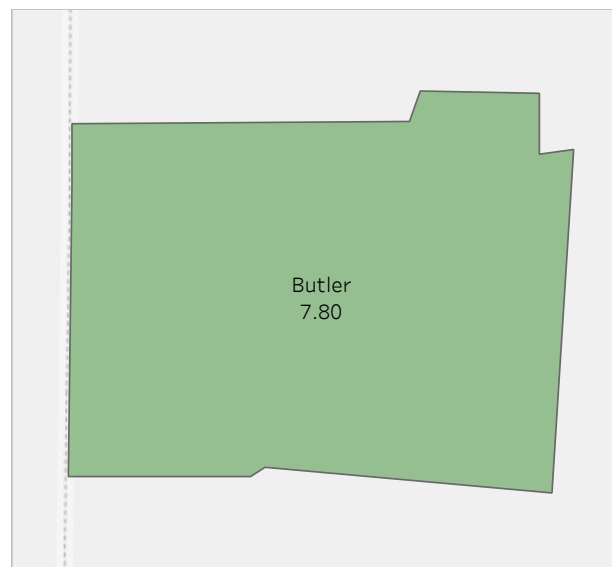
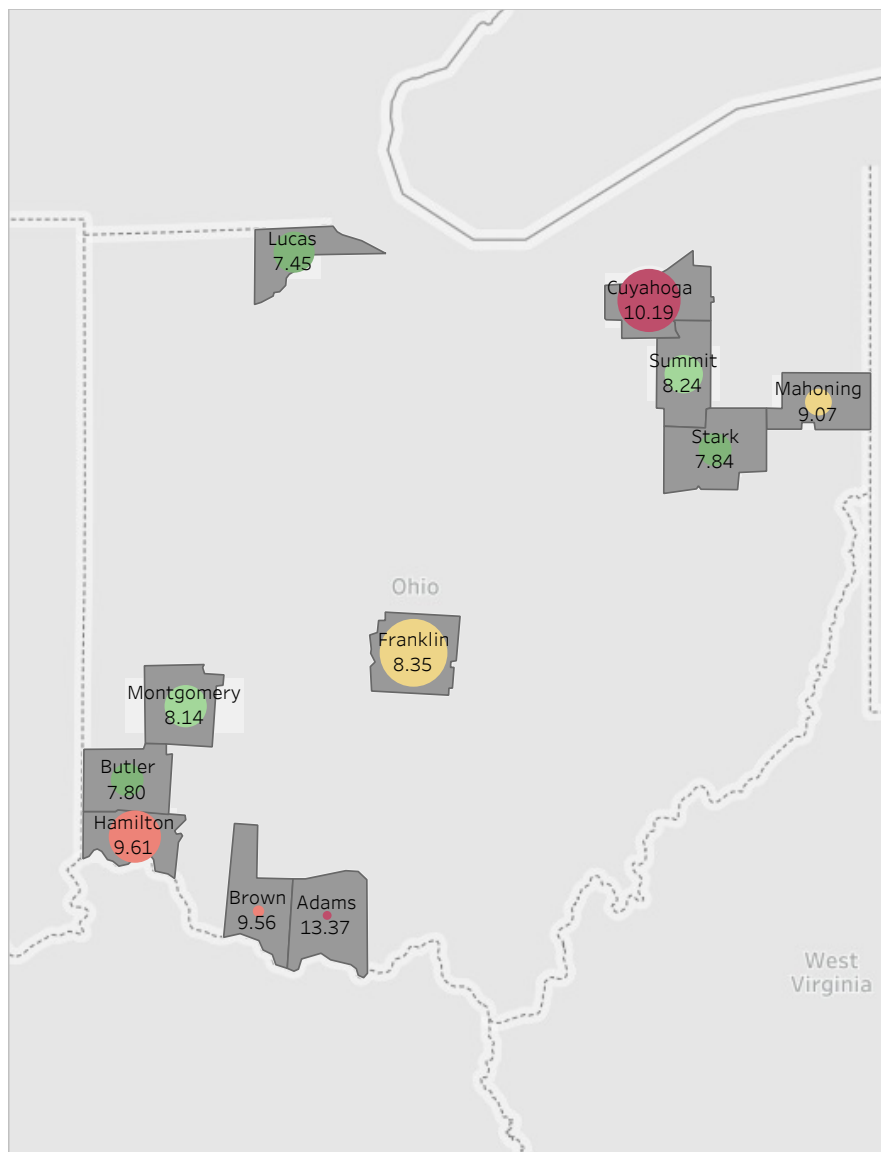
Mahoning



Stark



Butler County - ODM Infant Mortality Rate OEI Quintiles | CY 2012-2016

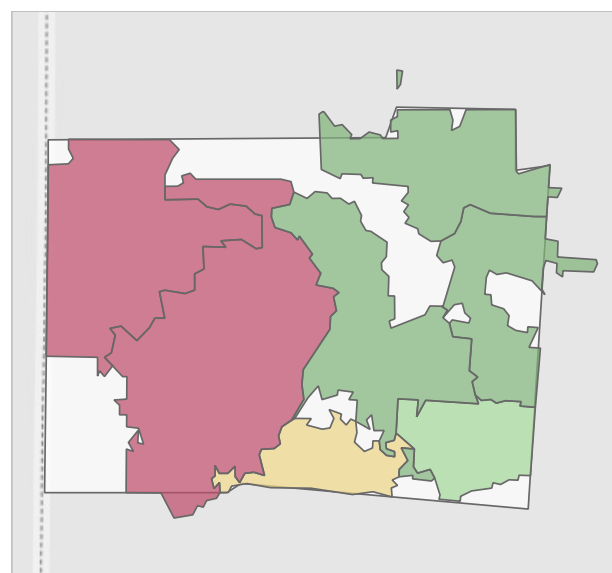


Map Measure Ranges

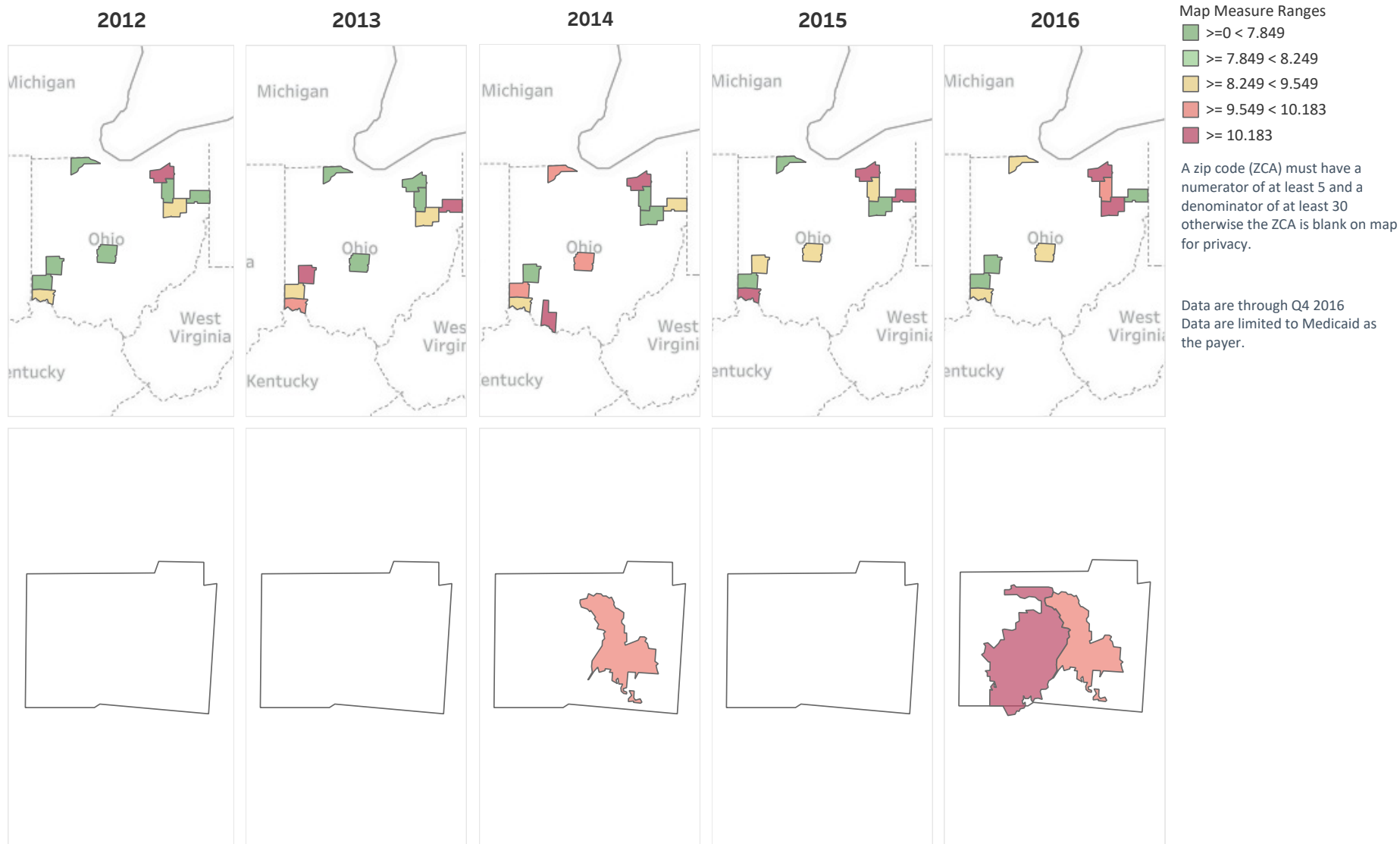
- $\geq 0 < 7.849$
- $\geq 7.849 < 8.249$
- $\geq 8.249 < 9.549$
- $\geq 9.549 < 10.183$
- ≥ 10.183

A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

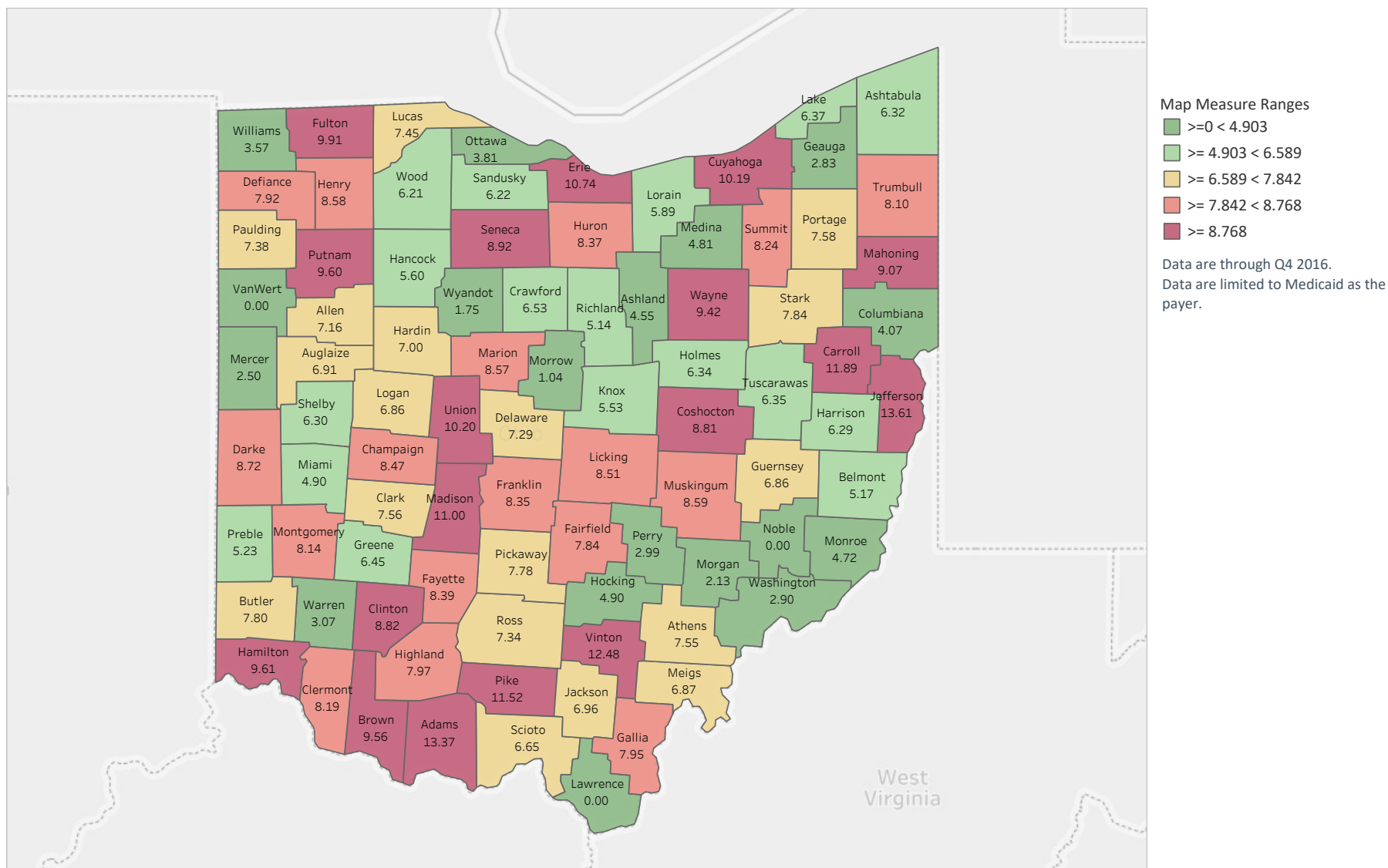
Data are through Q4 2016.
Data are limited to Medicaid as the payer.



Butler County - ODM Infant Mortality Rate OEI Quintiles | CY 2012-2016 Yearly Comparison



Statewide - ODM Infant Mortality Rate Overall Quintiles by County | CY 2012 - 2016



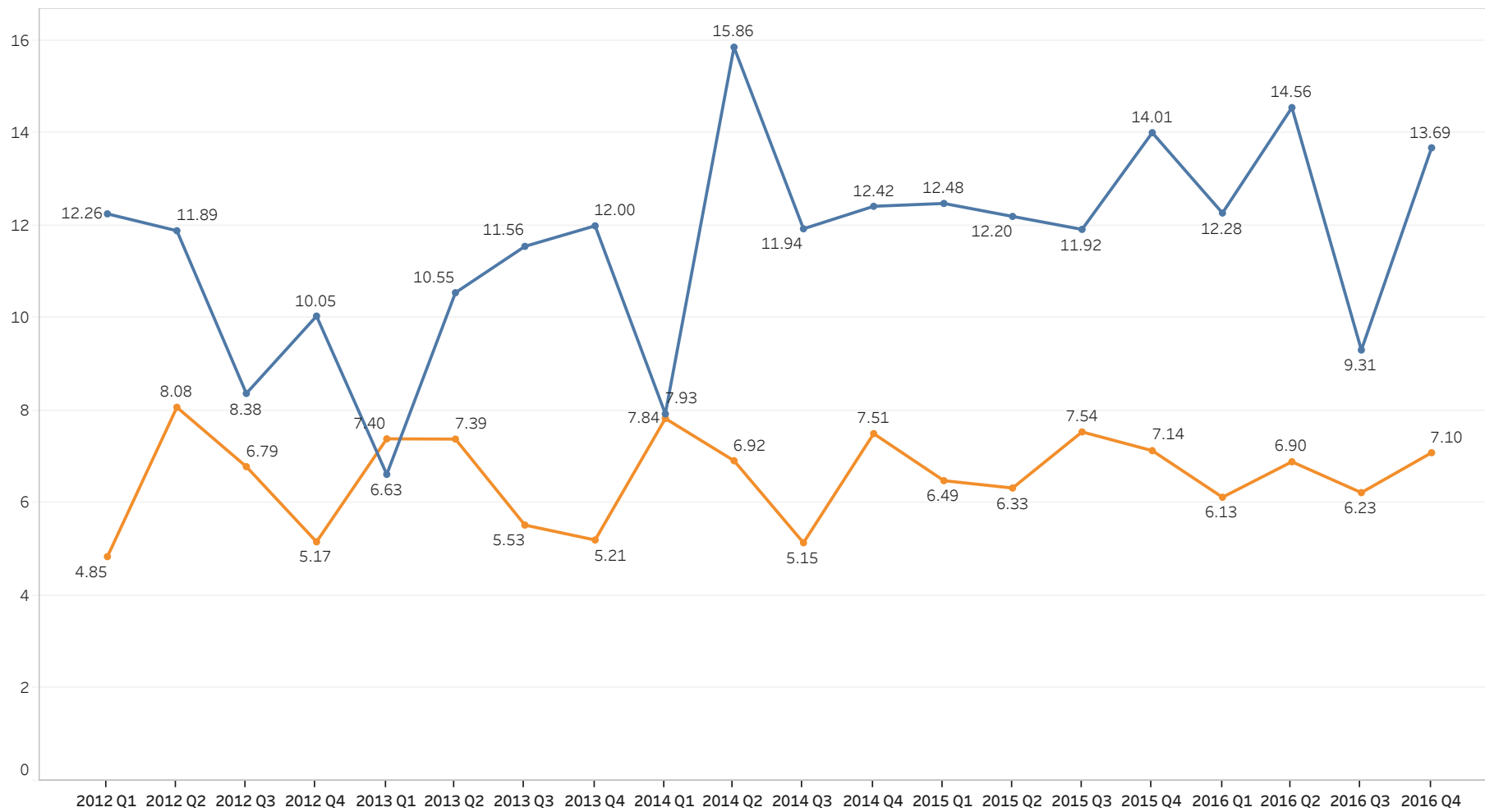


Quarterly Trends by Race - ODM Infant Mortality Rate All OEI Counties | CY 2012-2016

Race

African American

Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - ODM Infant Mortality Rate All OEI Counties | CY 2012-2016

Medicaid Plan
All Plans

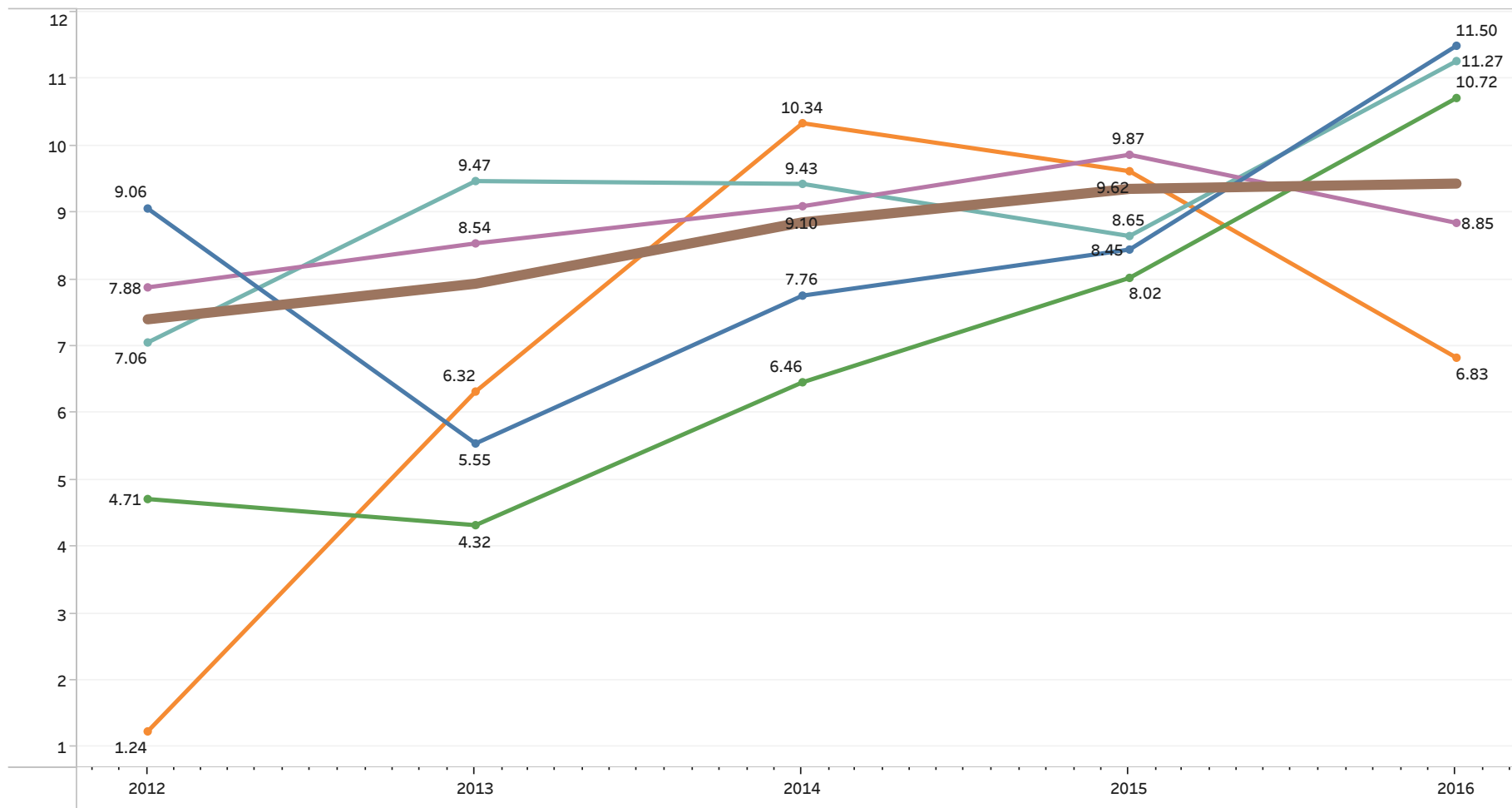
Buckeye

CareSource

Molina

Paramount

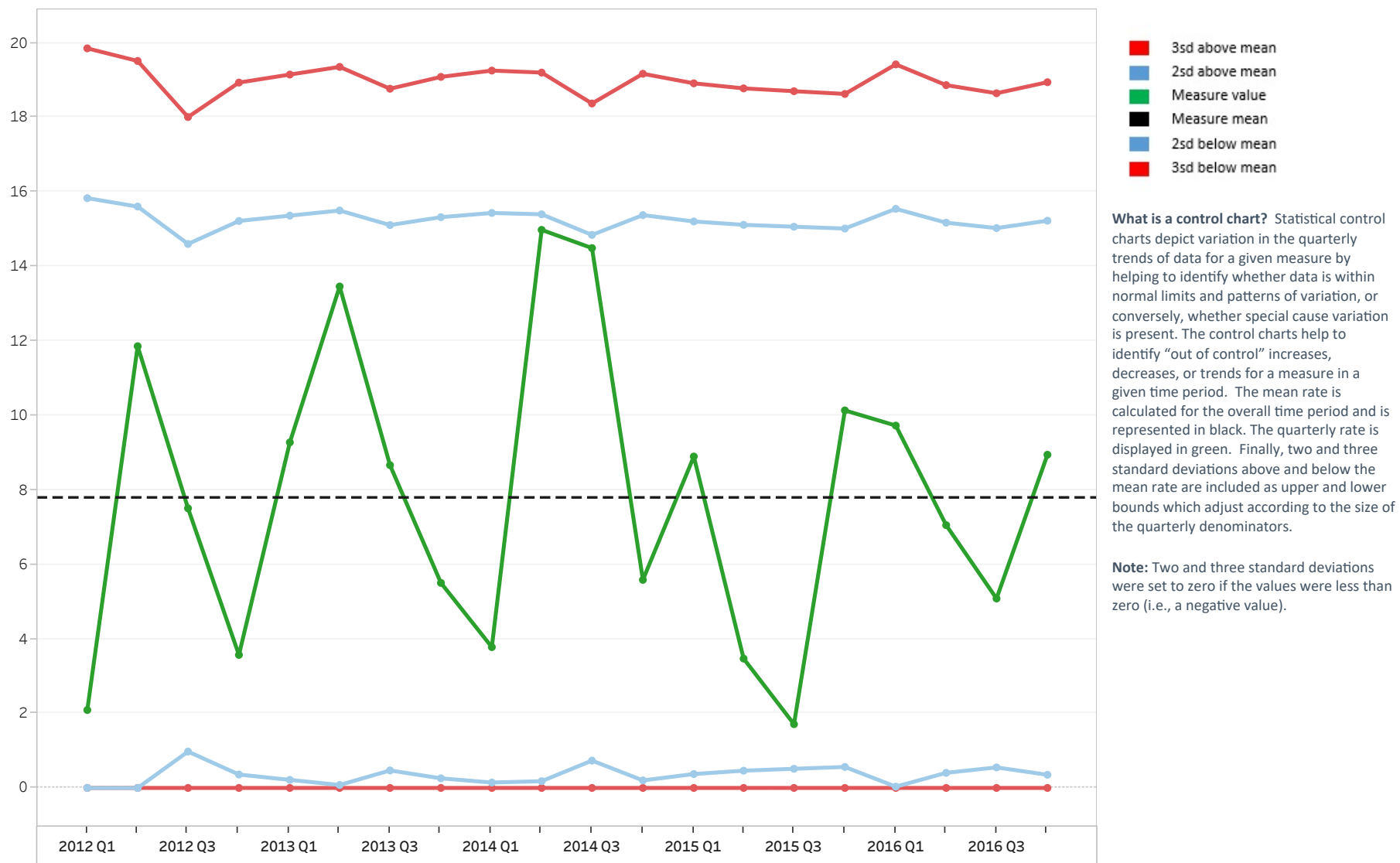
United



Data are through Q4 2016.

Data are limited to Medicaid as the payer.

Butler County Quarterly Control Chart - ODM Infant Mortality Rate CY 2012-2016



Data are limited to Medicaid as the payer.

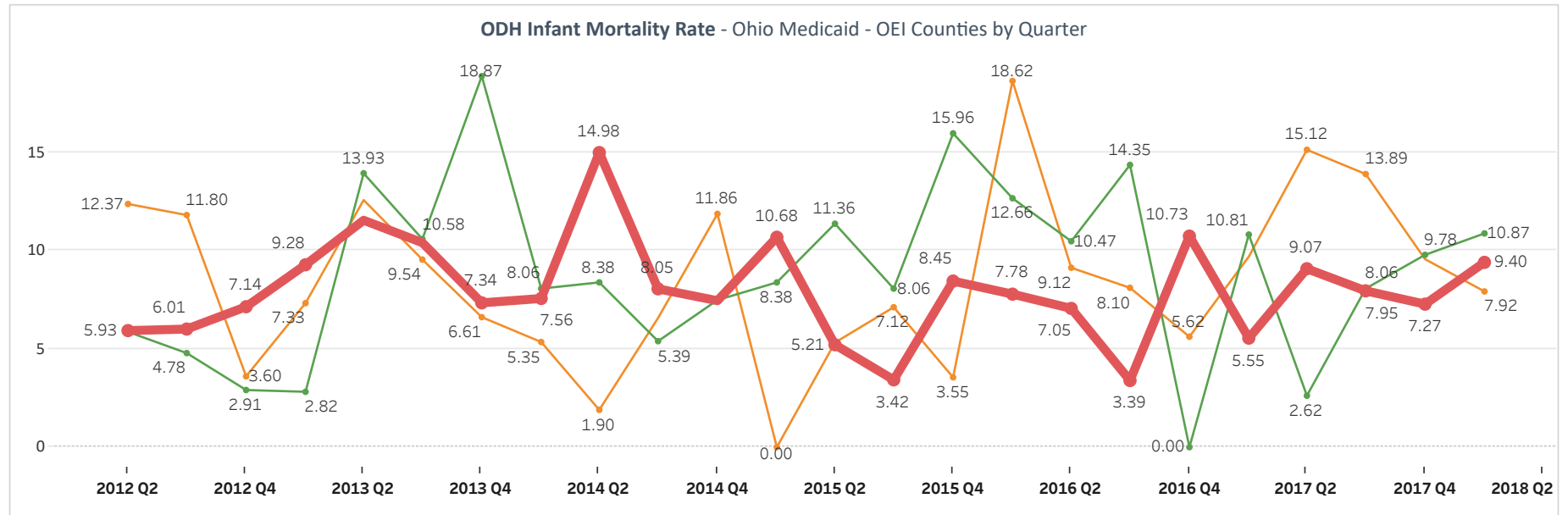


Infant Mortality Rate (ODH Raw Deaths/Births Method)

Butler, Mahoning, Stark Counties - ODH Infant Mortality Rate Trends by Quarter | CY 2012-2018

Counties

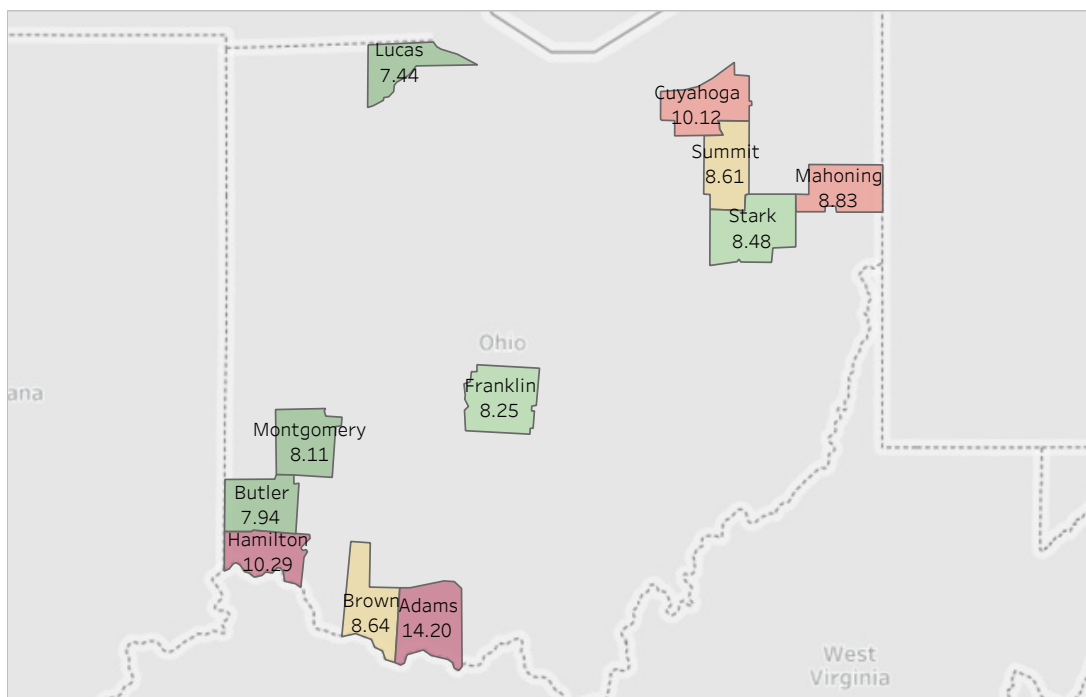
Butler Mahoning Stark



County	ODH Infant Mortality Aggregate Rate Q2 2012 - Q1 2018	ODH Infant Mortality Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	8.83	7.84	From 14 to 8 Deaths
Butler	7.94	8.40	From 19 to 12 Deaths
Stark	8.48	11.72	From 20 to 13 Deaths

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q2 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q2 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - ODH Infant Mortality Rate OEI County Quintiles | CY 2012-2018



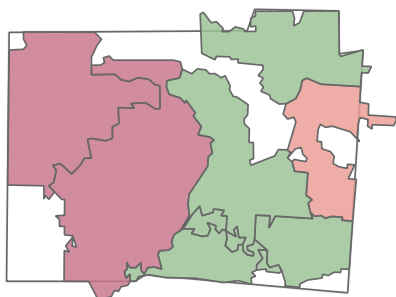
Map Measure Ranges

- $\geq 0 < 8.120$
- $\geq 8.120 < 8.491$
- $\geq 8.491 < 8.821$
- $\geq 8.821 < 10.276$
- ≥ 10.276

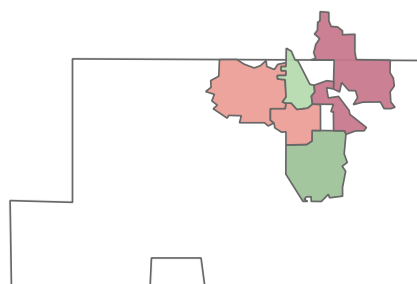
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

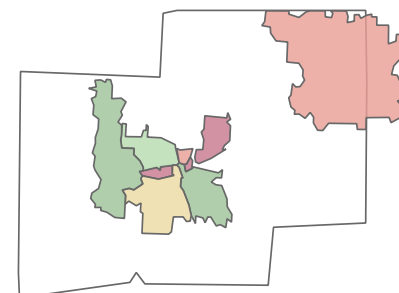
Butler



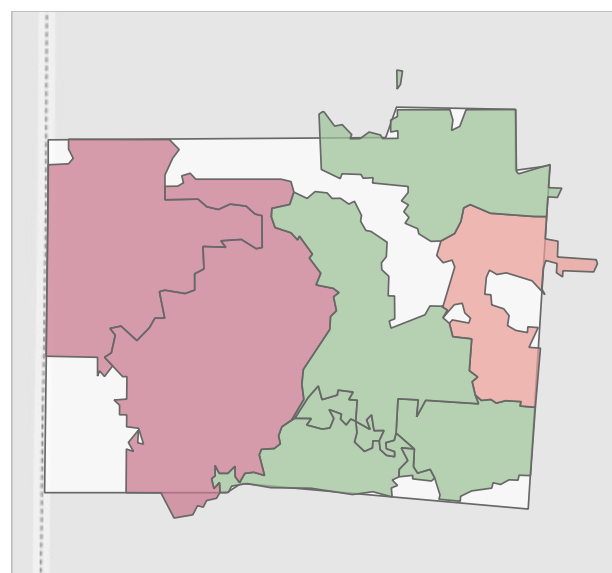
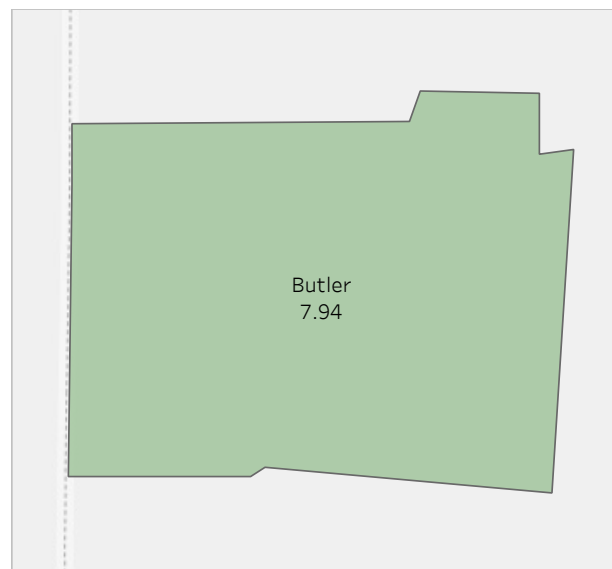
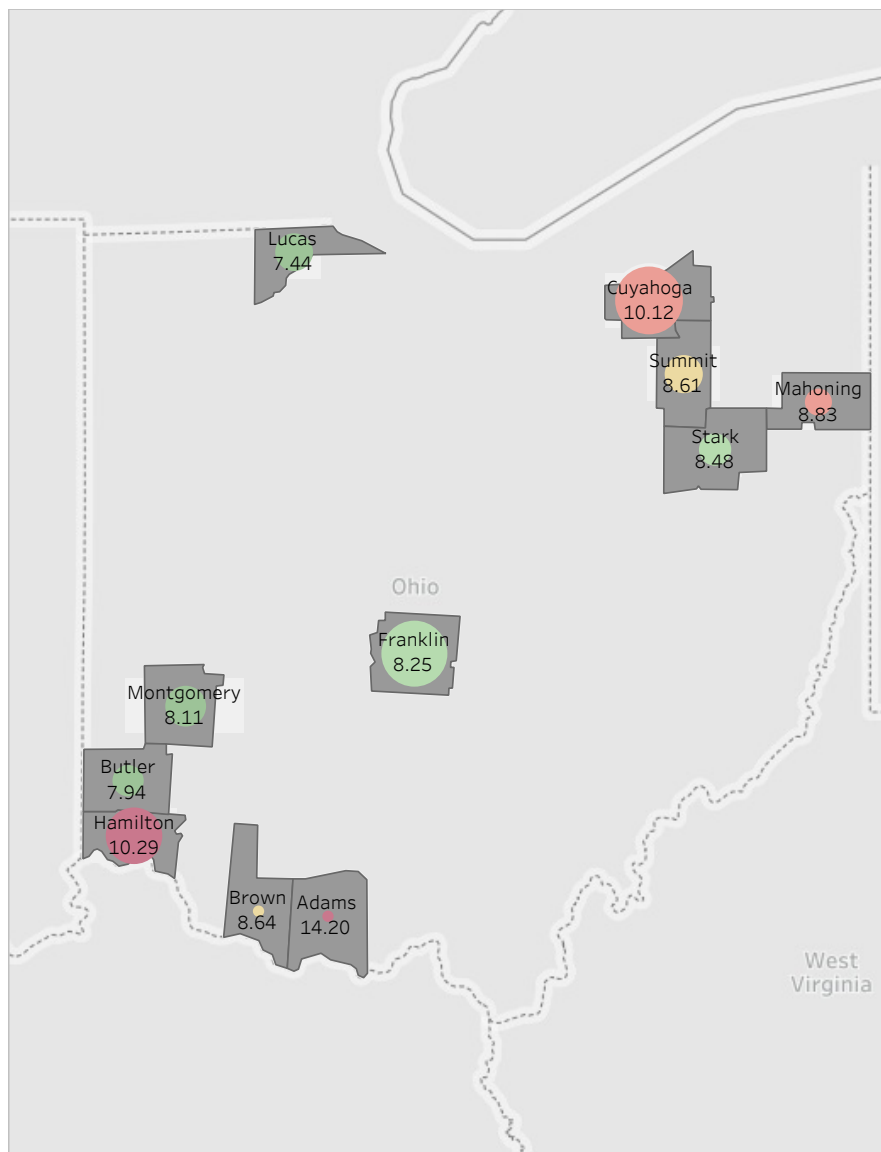
Mahoning



Stark



Butler County - ODH Infant Mortality Rate OEI Quintiles | CY 2012-2018



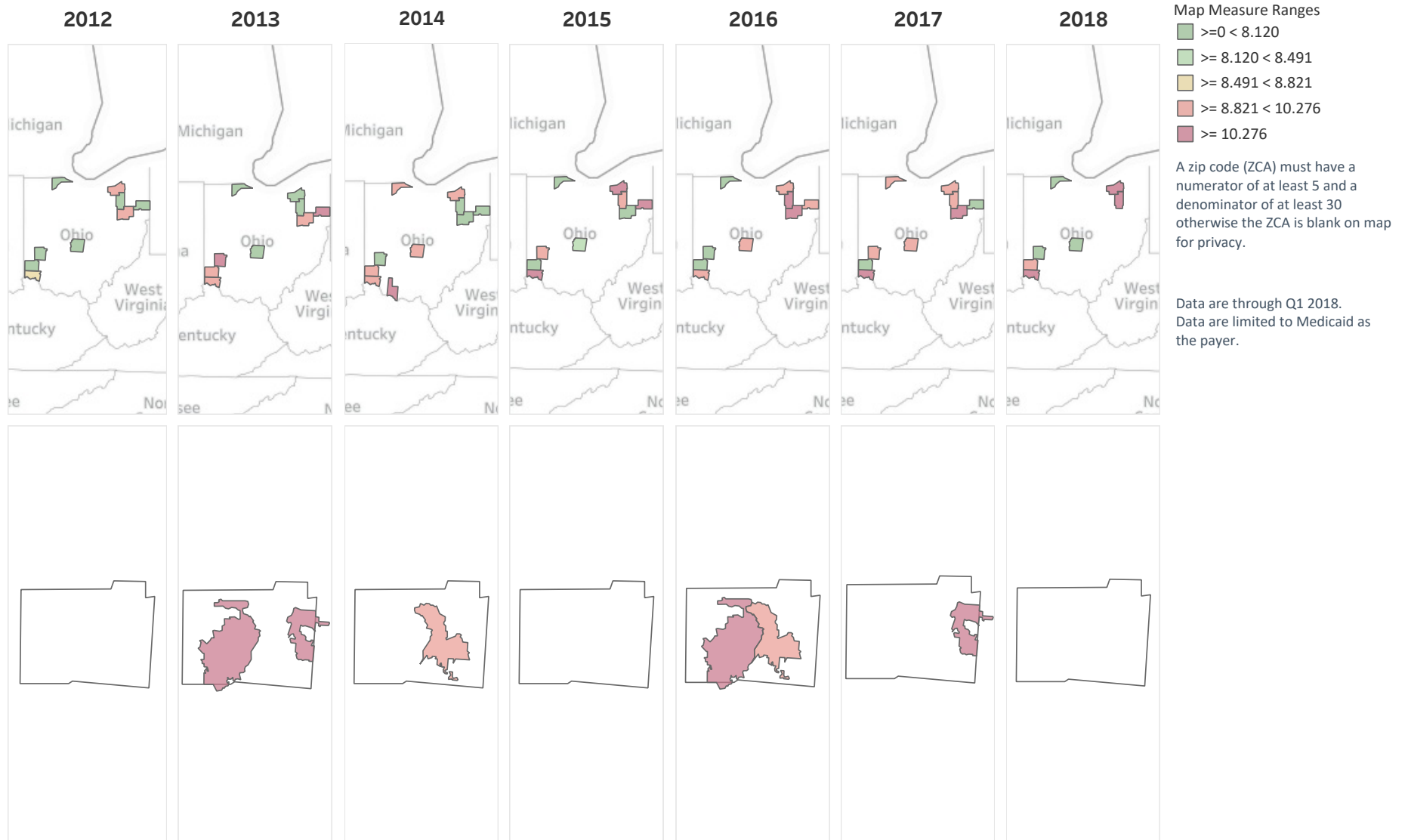
Map Measure Ranges

- $\geq 0 < 8.120$
- $\geq 8.120 < 8.491$
- $\geq 8.491 < 8.821$
- $\geq 8.821 < 10.276$
- ≥ 10.276

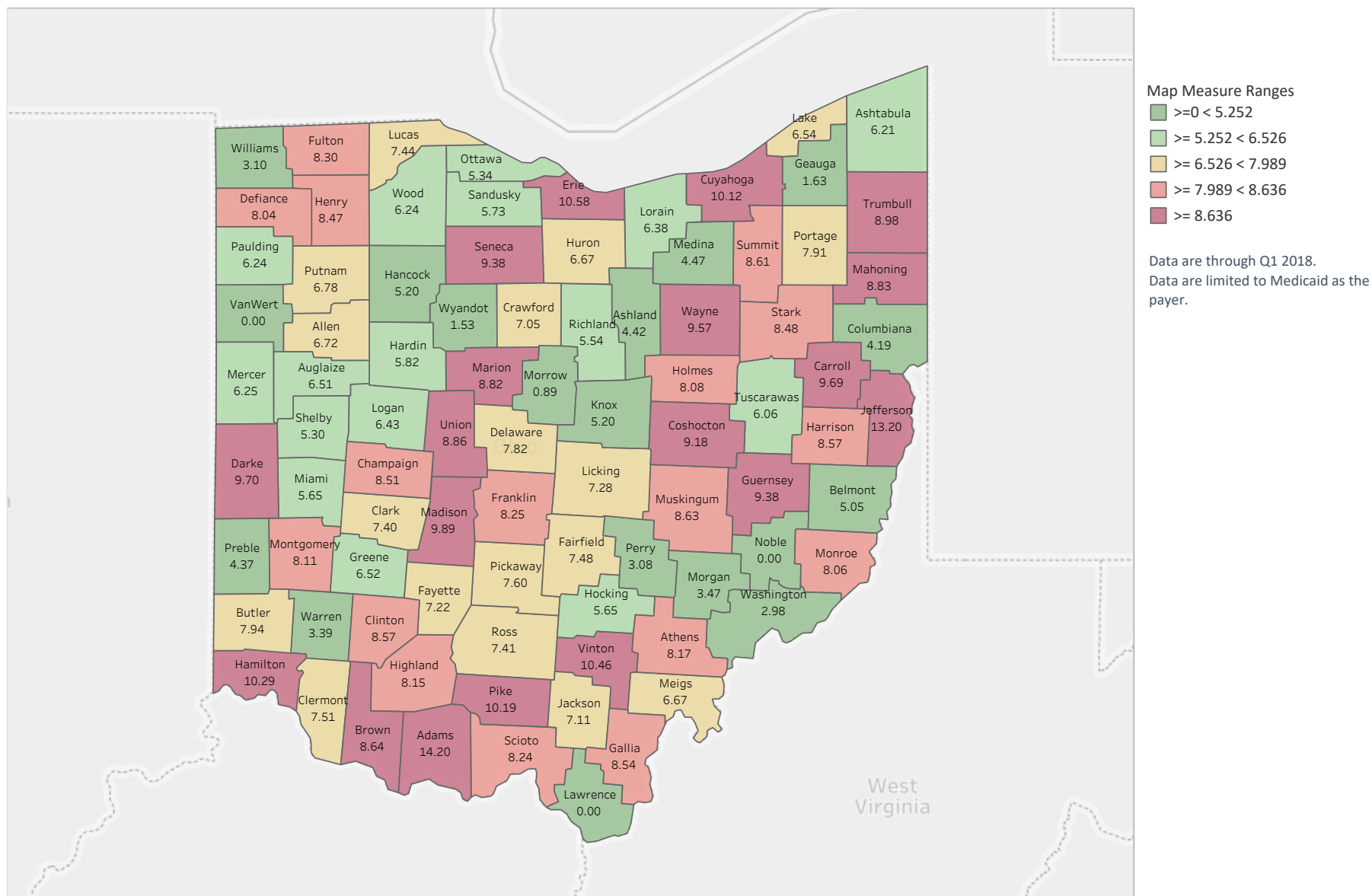
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

Butler County - ODH Infant Mortality Rate OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - ODH Infant Mortality Rate
Overall Quintiles by County | CY 2012 - 2018



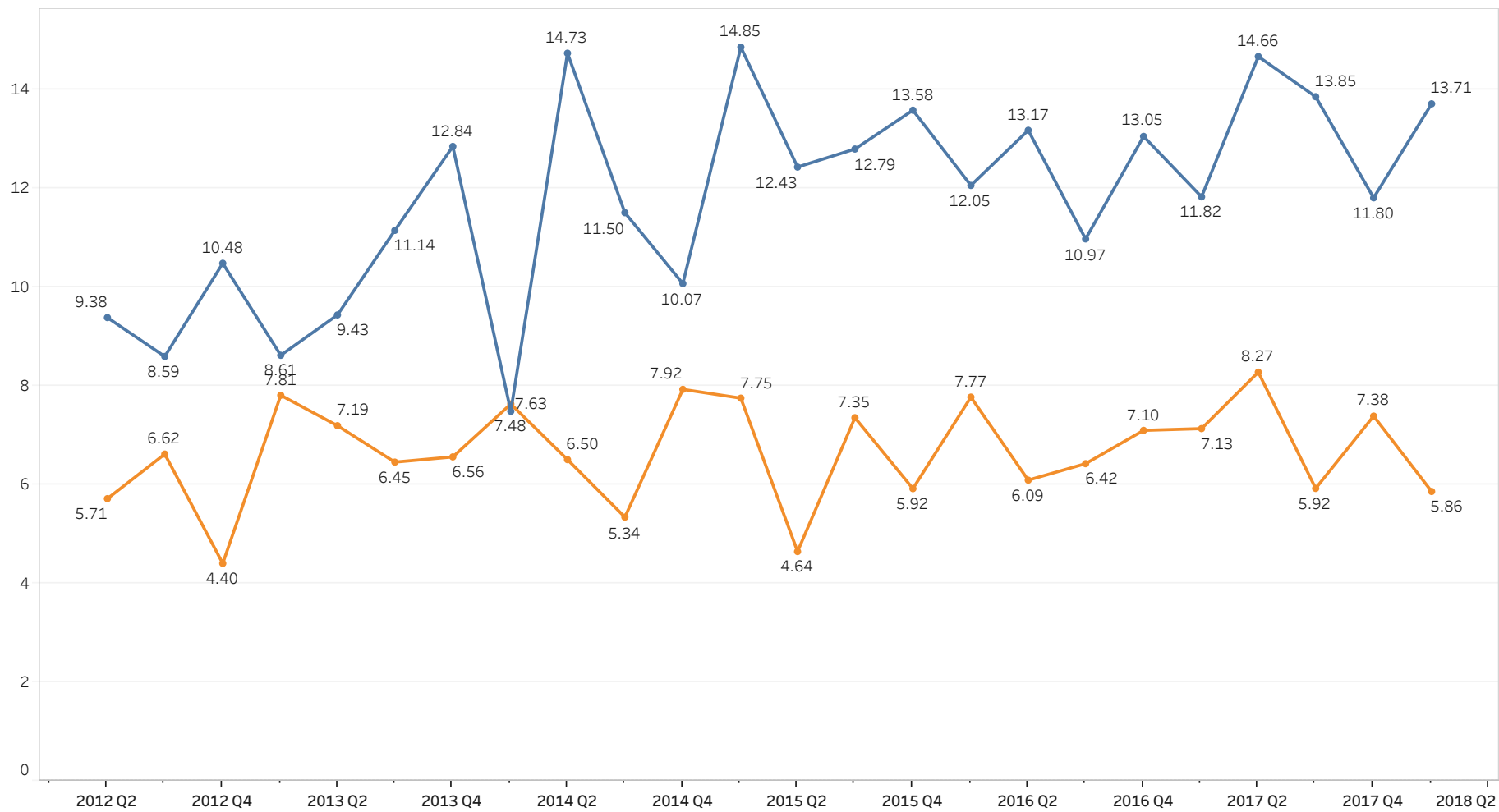


Quarterly Trends by Race - ODH Infant Mortality Rate All OEI Counties | CY 2012-2018

Race

African American

Caucasian



Data are limited to Medicaid as the payer.

Prenatal Care (%)

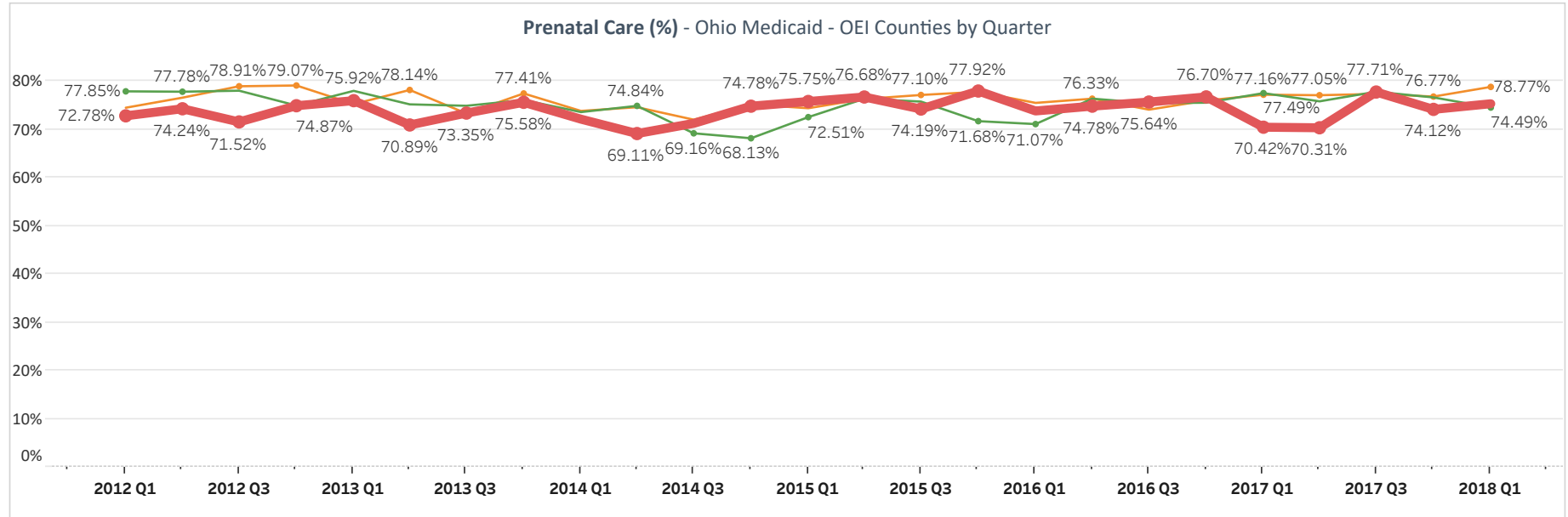


Butler, Mahoning, Stark Counties - Prenatal Care (%)

Trends by Quarter | CY 2012-2018

Counties

Butler Mahoning Stark

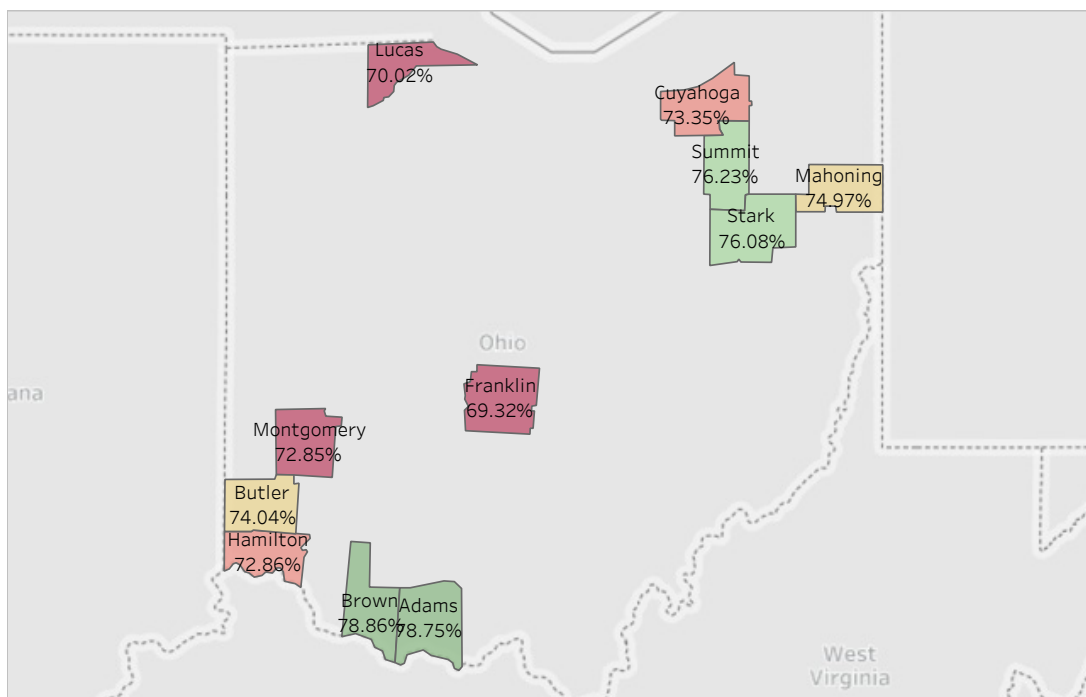


County	Prenatal Aggregate Rate Q1 2012 - Q1 2018	Prenatal Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	74.97%	76.17%	From 1060 to 1087 Women
Butler	74.04%	74.45%	From 1365 to 1396 Women
Stark	76.08%	77.47%	From 1548 to 1579 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Prenatal Care (%)

OEI County Quintiles | CY 2012-2018



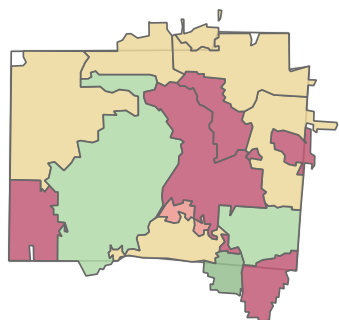
Map Measure Ranges

- $\geq 0 < 72.852\%$
- $\geq 72.852\% < 73.359\%$
- $\geq 73.359\% < 76.069\%$
- $\geq 76.069\% < 78.744\%$
- $\geq 78.744\%$

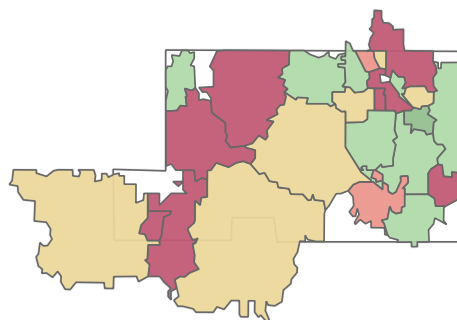
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

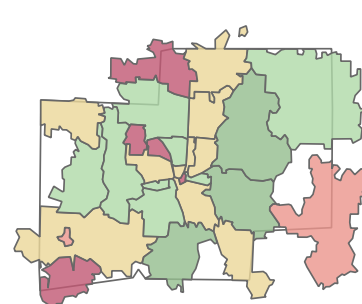
Butler



Mahoning

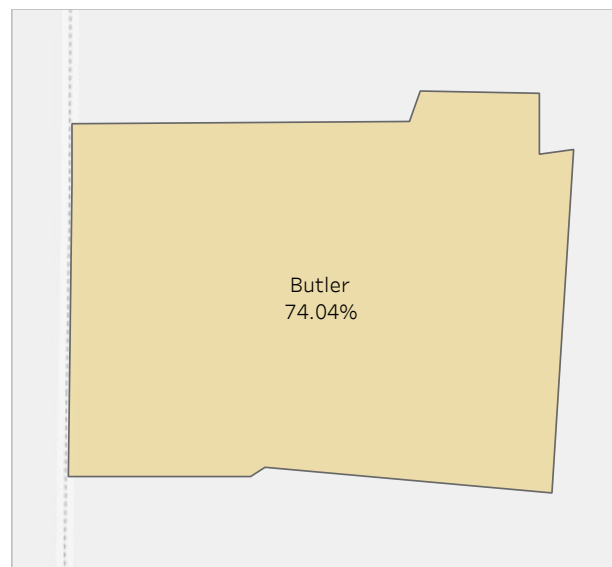
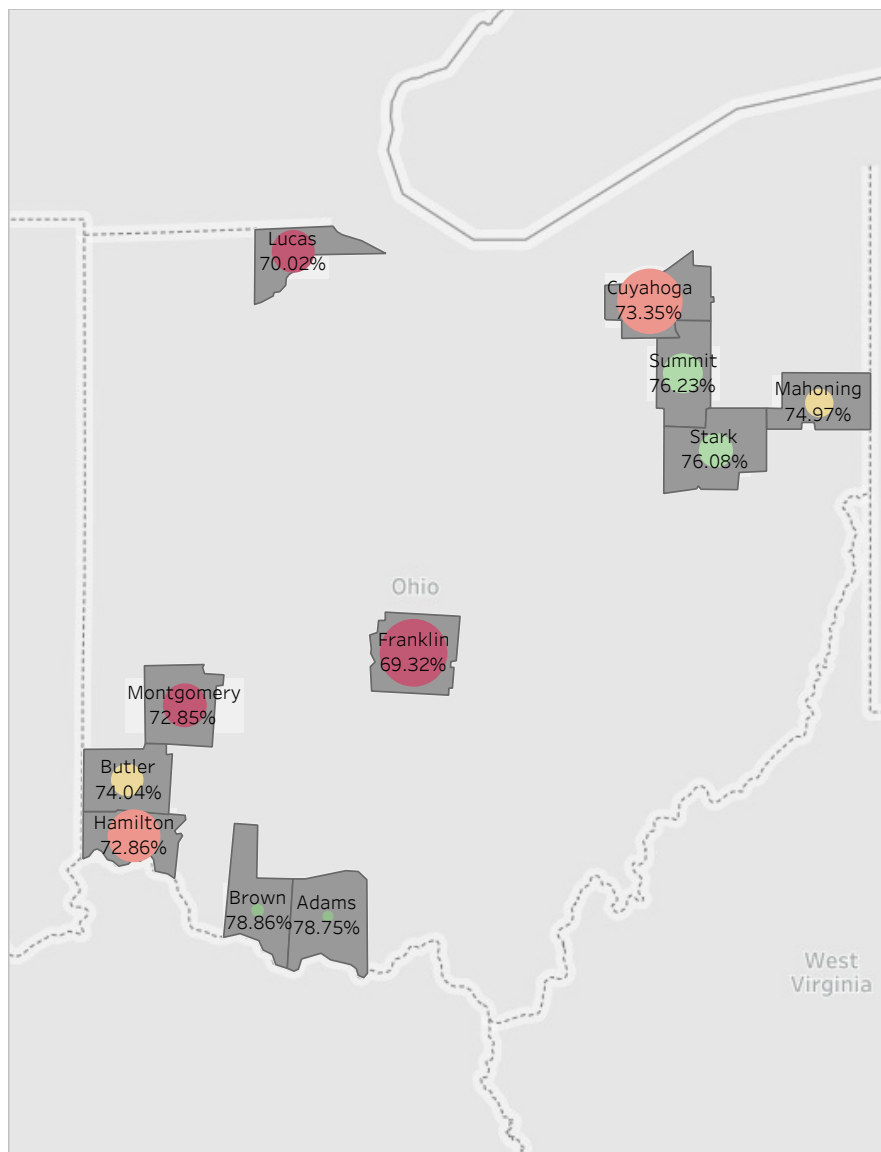


Stark



Butler County - Prenatal Care (%)

OEI Quintiles | CY 2012-2018

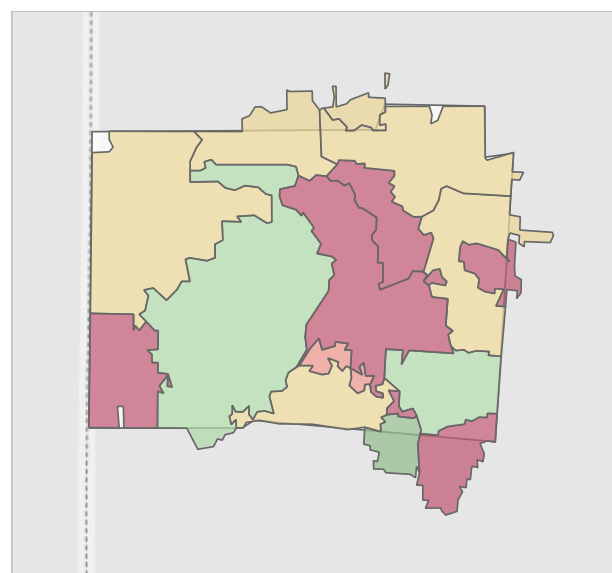


Map Measure Ranges

- >= 0 < 72.852%
- >= 72.852% < 73.359%
- >= 73.359% < 76.069%
- >= 76.069% < 78.744%
- >= 78.744%

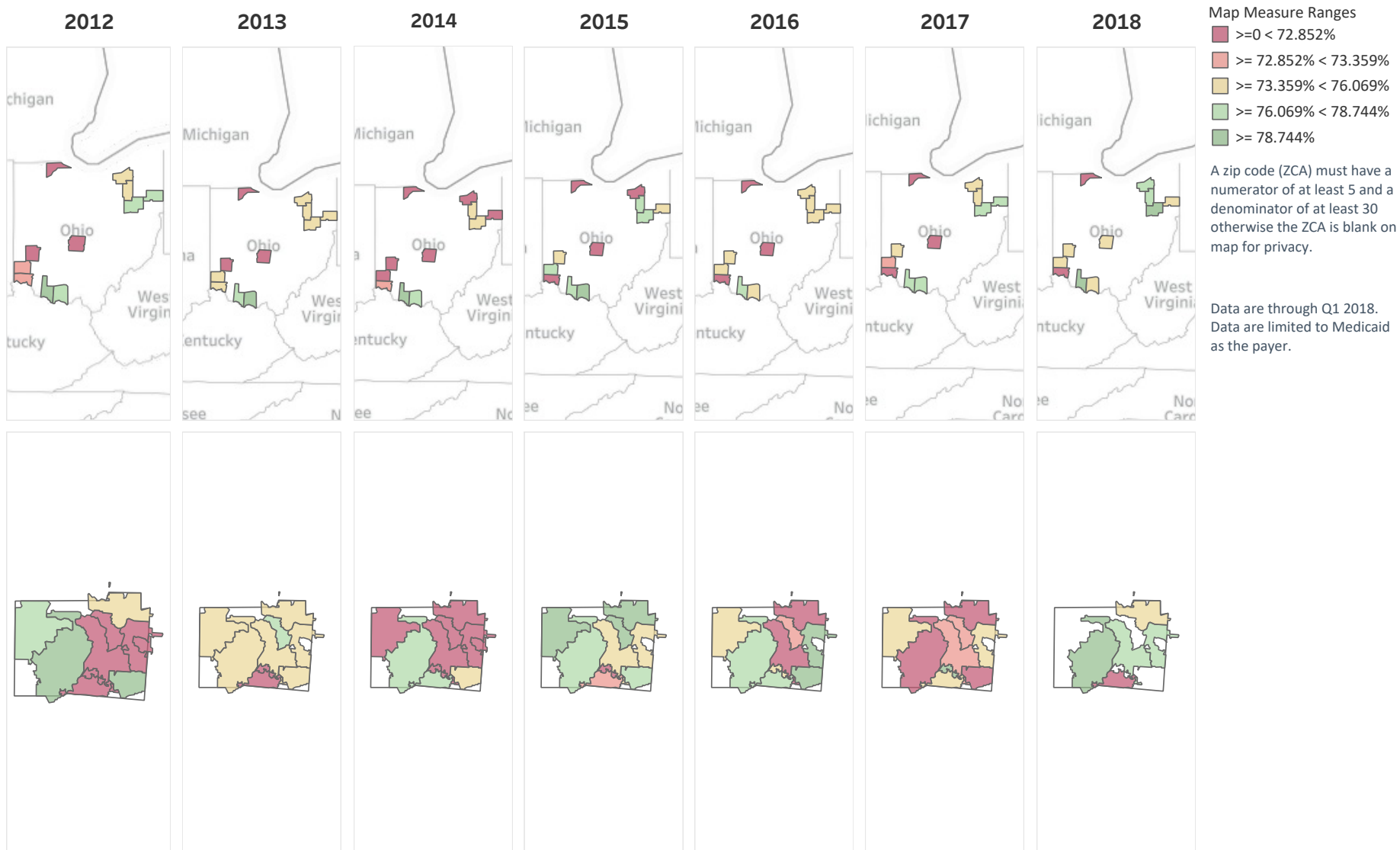
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.



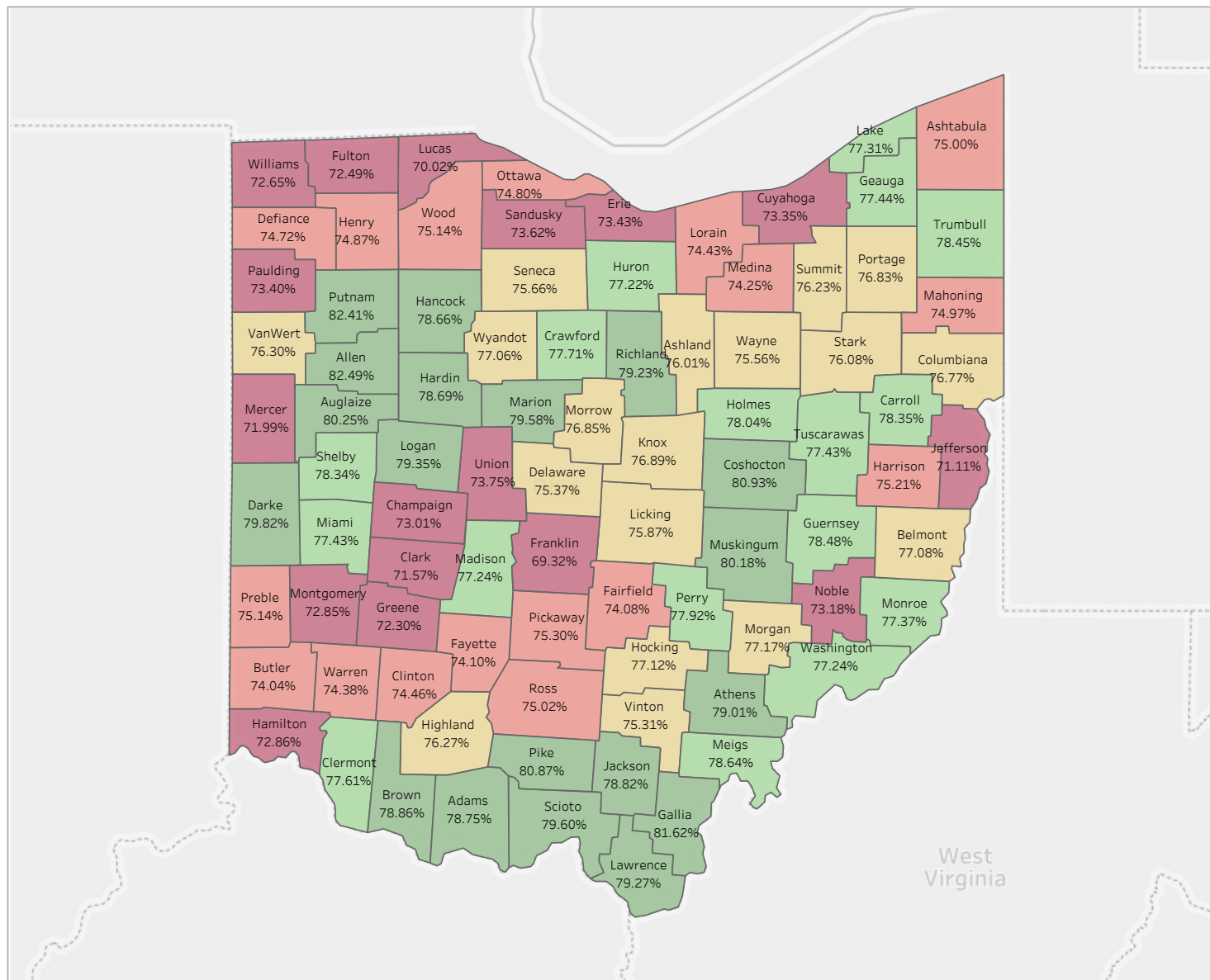
Butler County - Prenatal Care (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Prenatal Care (%)

Overall Quintiles by County | CY 2012 - 2018



Map Measure Ranges

- >=0 < 73.893%
- >= 73.893% < 75.306%
- >= 75.306% < 77.194%
- >= 77.194% < 78.654%
- >= 78.654%

Data are through Q1 2018.

Data are limited to Medicaid as the payer.



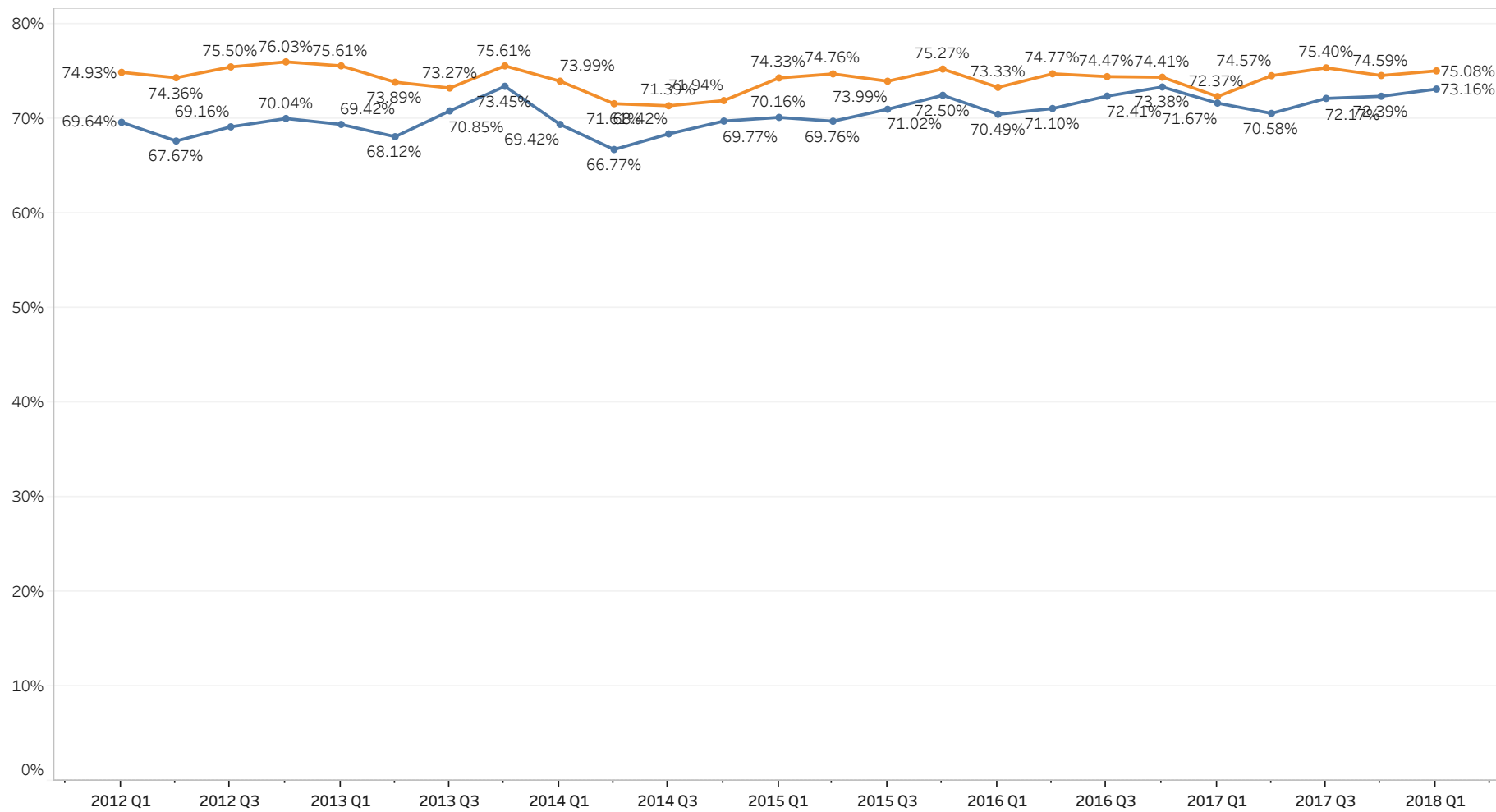
Quarterly Trends by Race - Prenatal Care (%)

All OEI Counties | CY 2012-2018

Race

African American

Caucasian

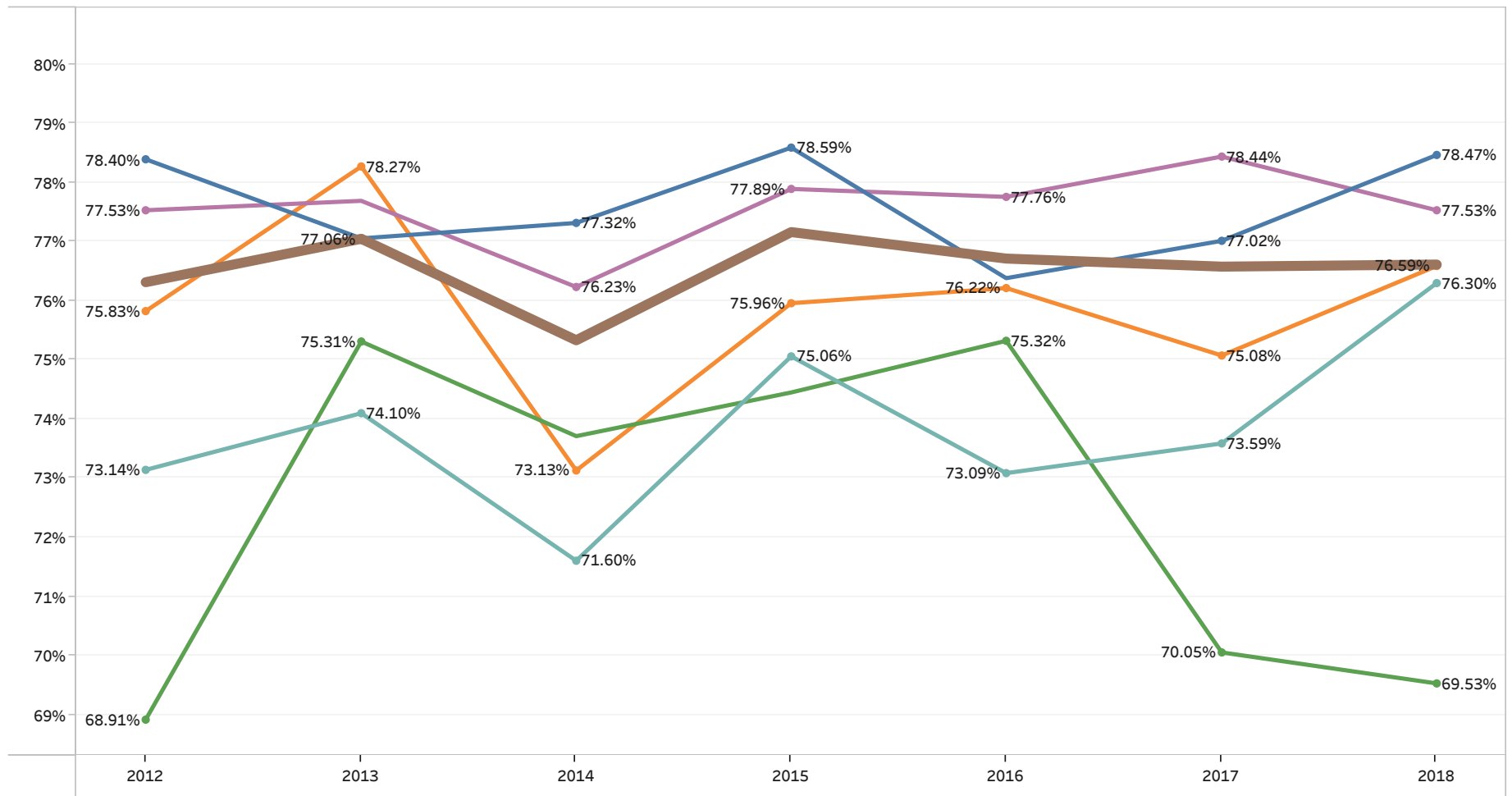


Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Prenatal Care (%) All OEI Counties | CY 2012-2018

Medicaid Plan
All Plans Buckeye CareSource Molina Paramount United



Data are through Q1 2018.
Data are limited to Medicaid as the payer.



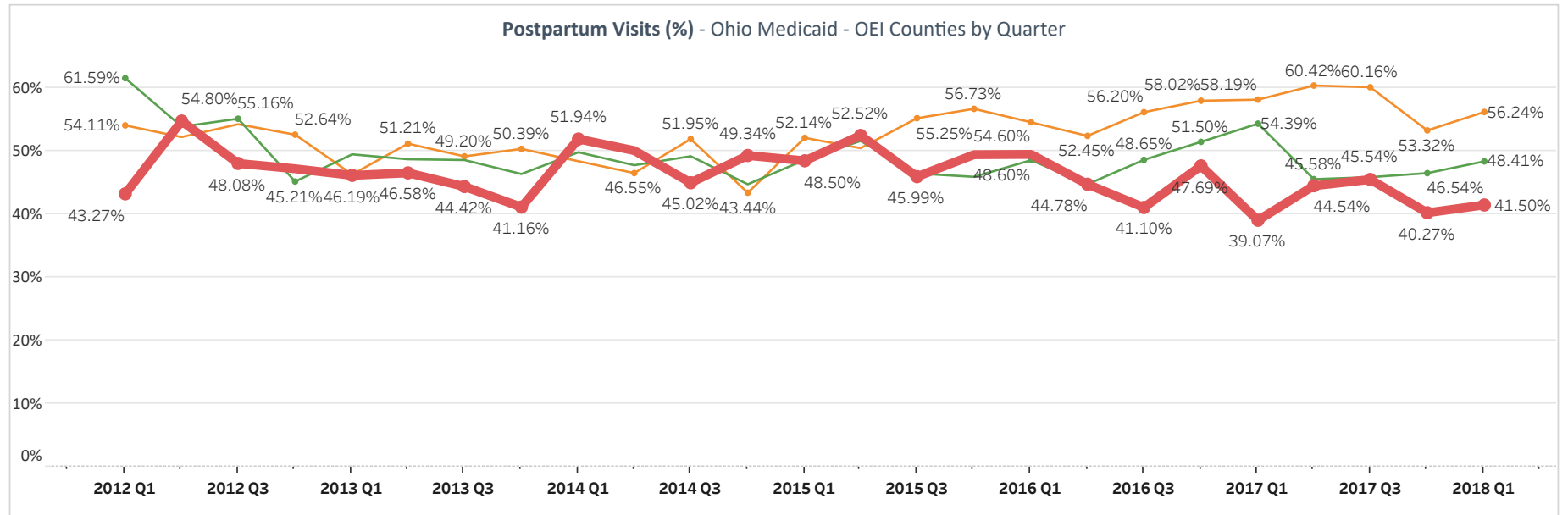
Postpartum Visits (%)

Butler, Mahoning, Stark Counties - Postpartum Visits (%)

Trends by Quarter | CY 2012-2018

Counties

Butler Mahoning Stark

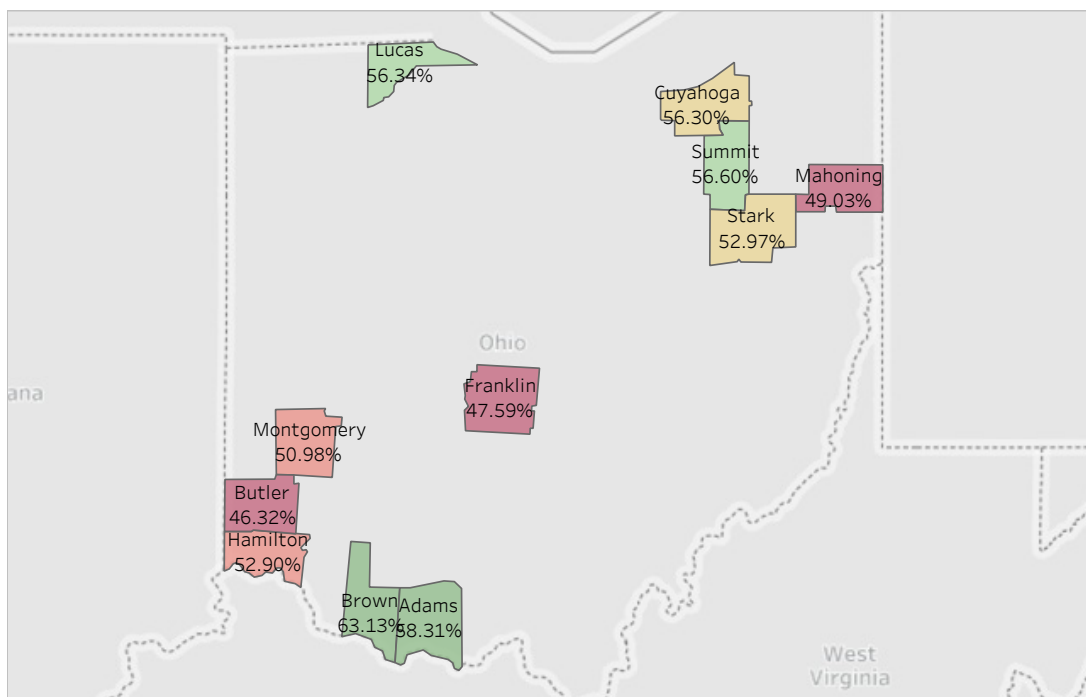


County	Postpartum Aggregate Rate Q1 2012 - Q1 2018	Postpartum Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	49.03%	46.61%	From 693 to 724 Women
Butler	46.32%	43.06%	From 854 to 889 Women
Stark	52.97%	57.64%	From 1078 to 1115 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Postpartum Visits (%)

OEI County Quintiles | CY 2012-2018



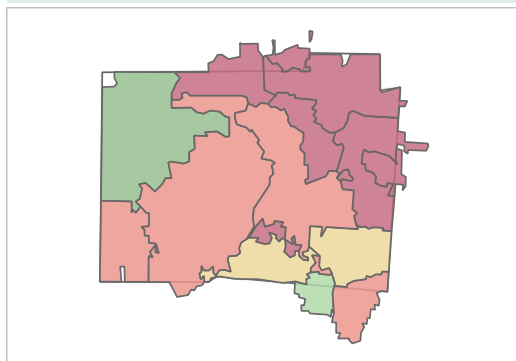
Map Measure Ranges

- $\geq 0 < 49.038\%$
- $\geq 49.038\% < 52.906\%$
- $\geq 52.906\% < 56.326\%$
- $\geq 56.326\% < 58.297\%$
- $\geq 58.297\%$

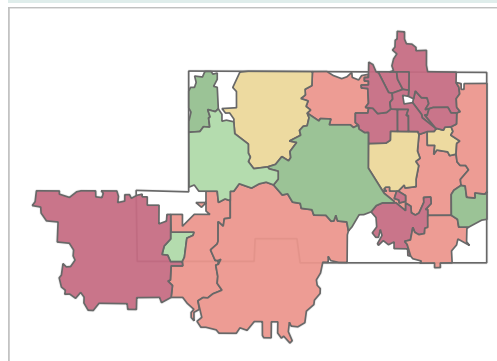
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

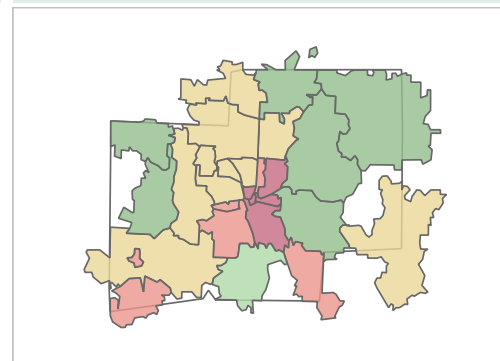
Butler



Mahoning

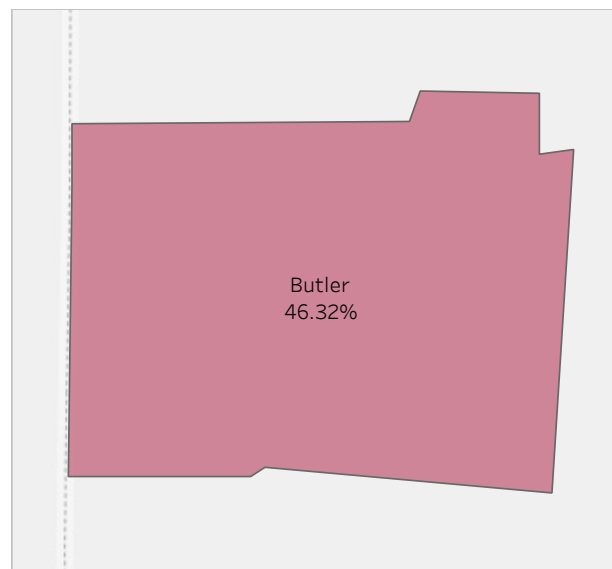
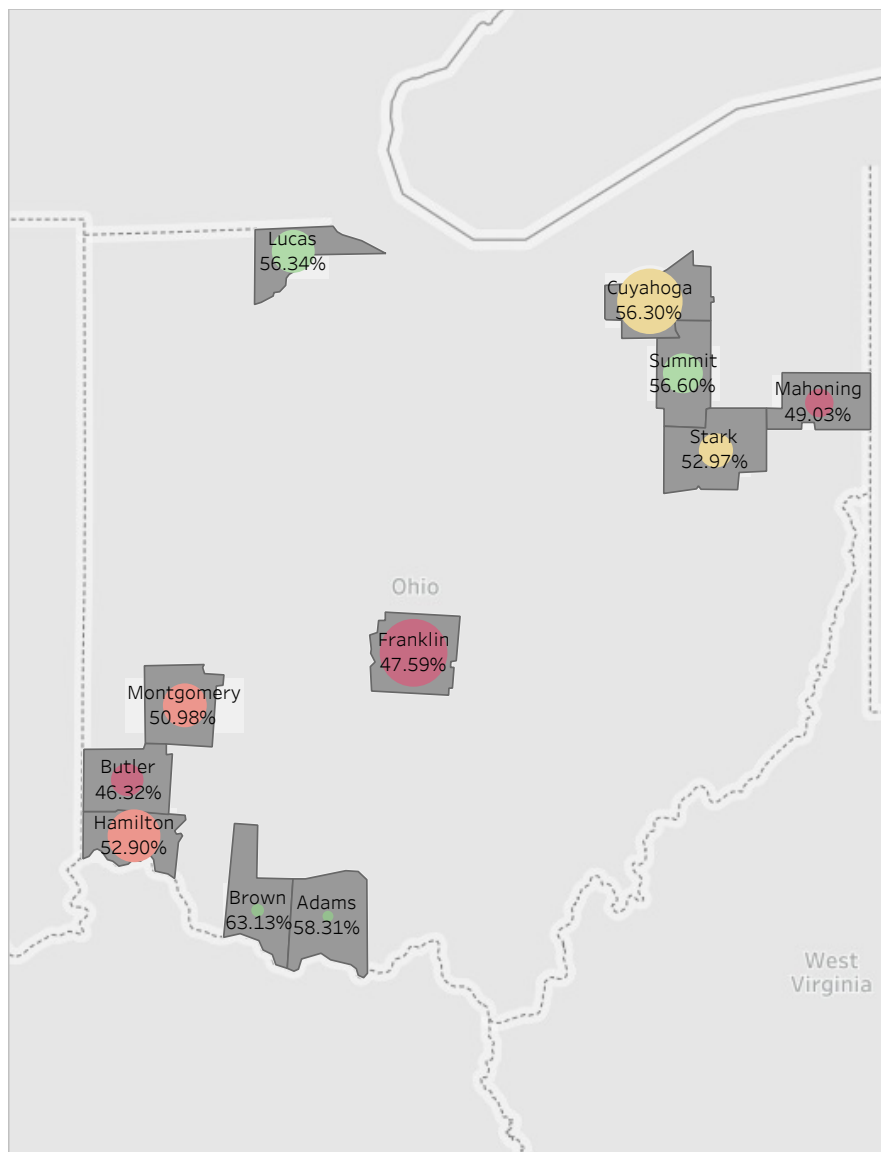


Stark



Butler County - Postpartum Visits (%)

OEI Quintiles | CY 2012-2018

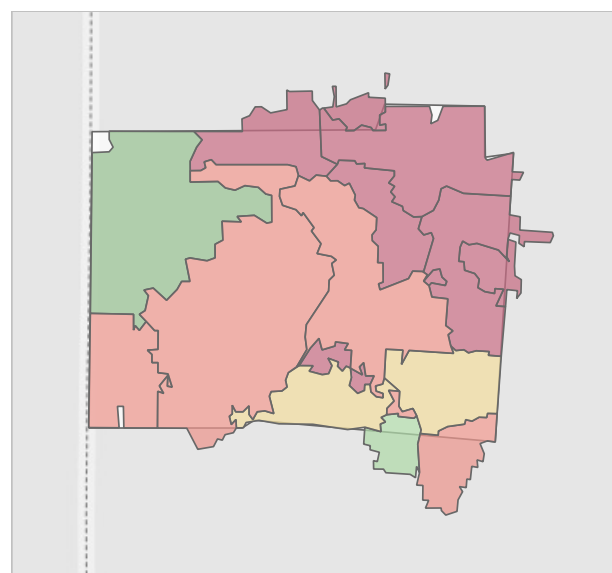


Map Measure Ranges

- >= 0 < 49.038%
- >= 49.038% < 52.906%
- >= 52.906% < 56.326%
- >= 56.326% < 58.297%
- >= 58.297%

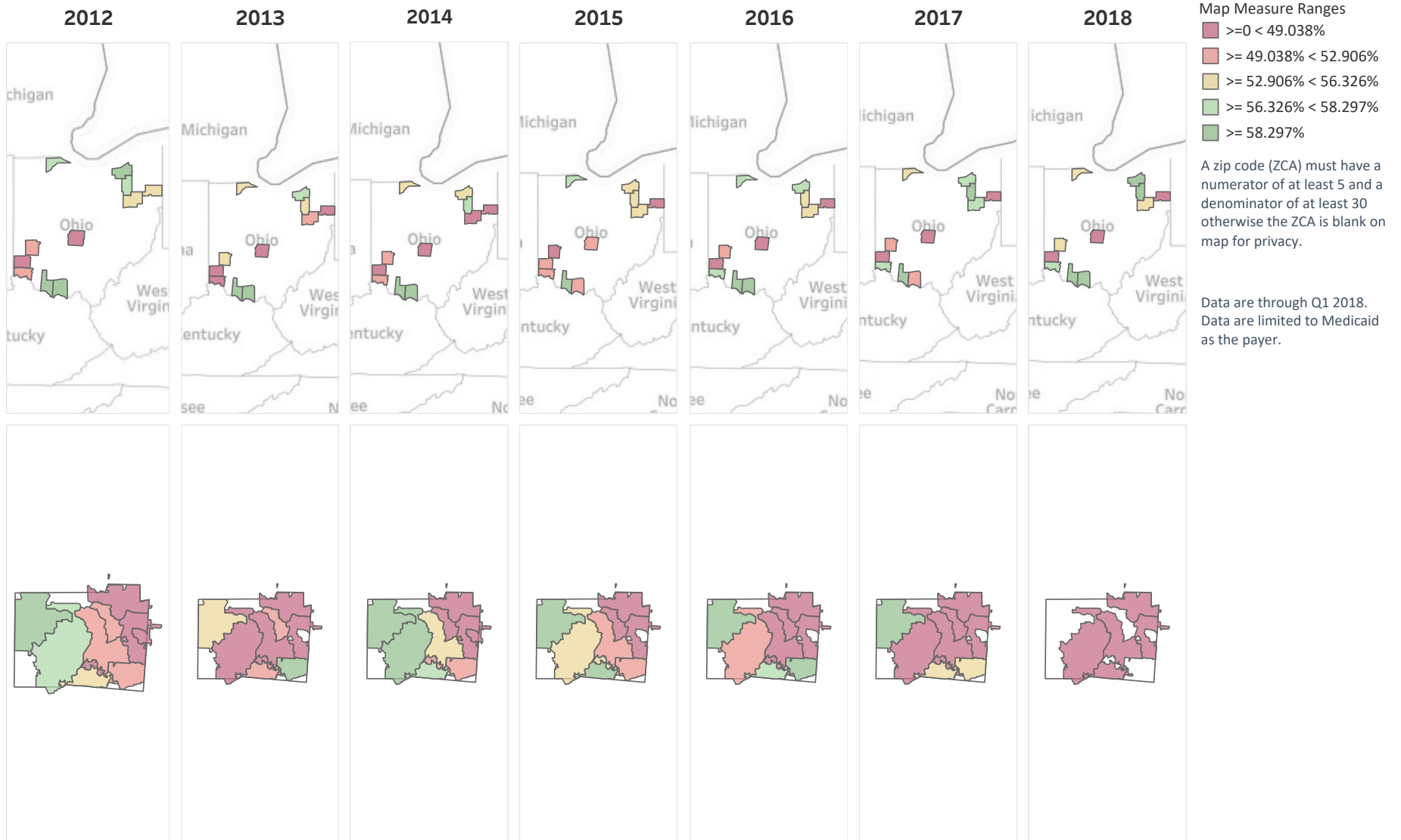
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.



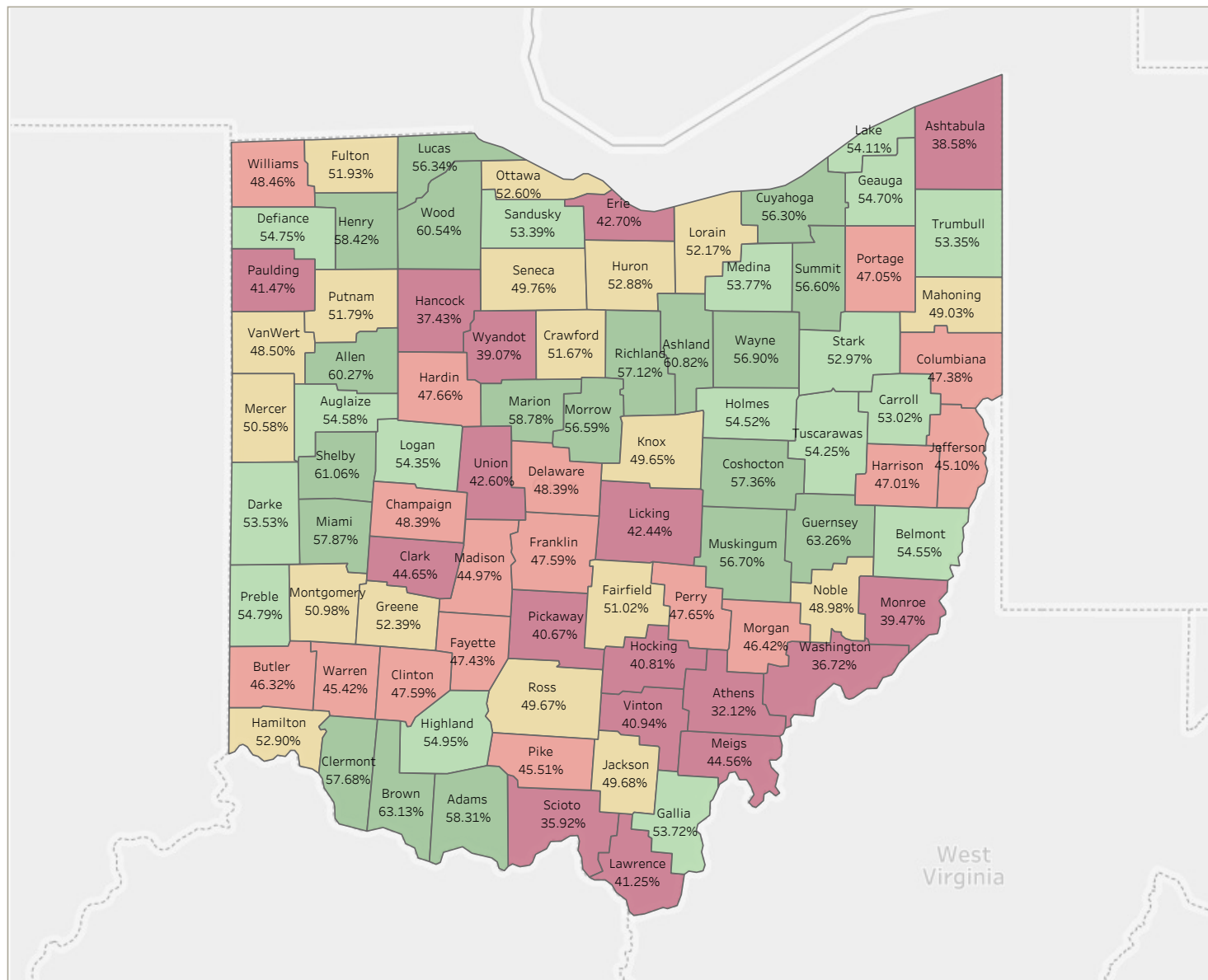
Butler County - Postpartum Visits (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Postpartum Visits (%)

Overall Quintiles by County | CY 2012 - 2018



Map Measure Ranges

- $\geq 0 < 44.808\%$
- $\geq 44.808\% < 48.484\%$
- $\geq 48.484\% < 52.933\%$
- $\geq 52.933\% < 55.623\%$
- $\geq 55.623\%$

Data are through Q1 2018.
Data are limited to Medicaid as the payer.



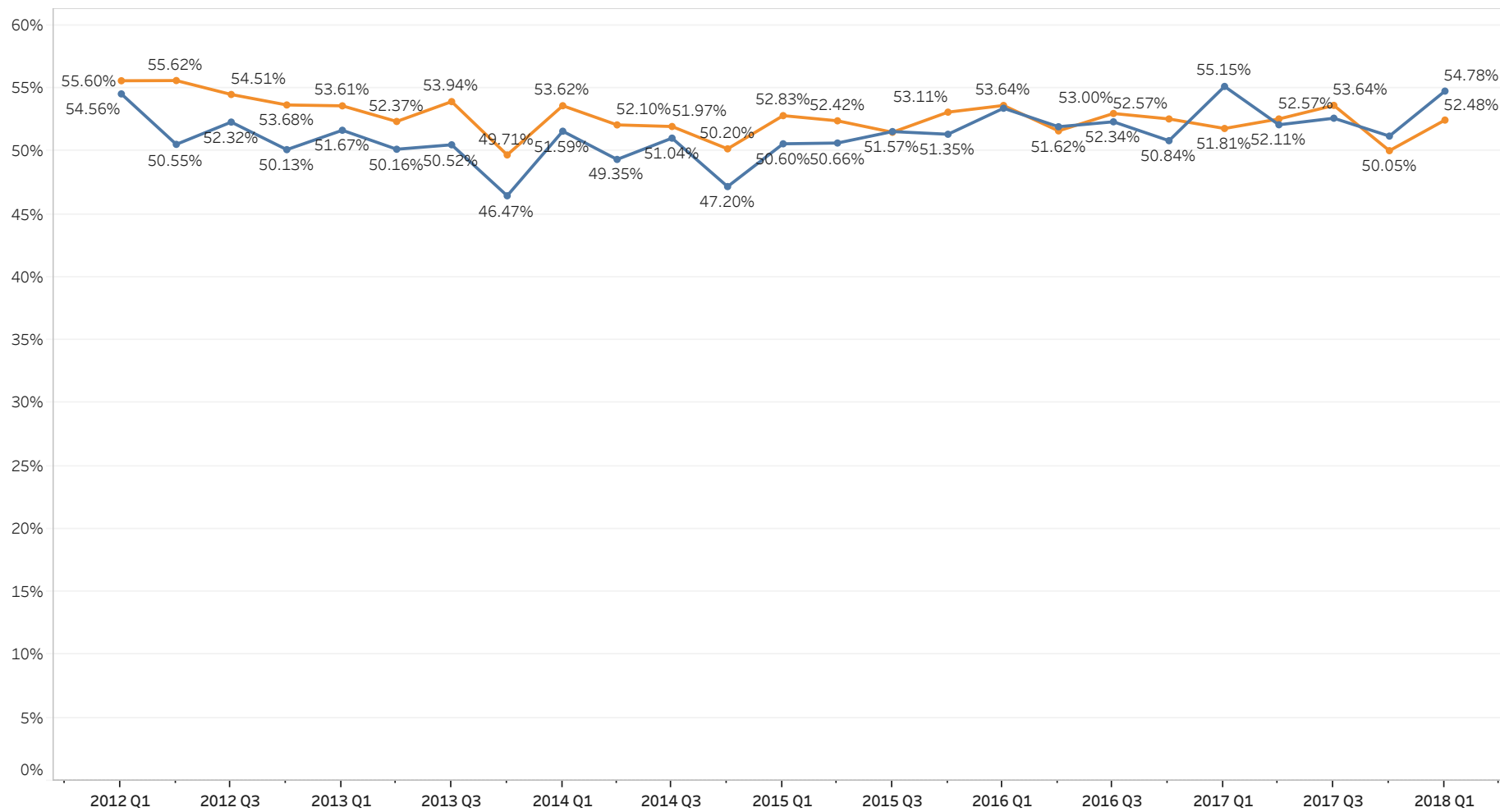
Quarterly Trends by Race - Postpartum Visits (%)

All OEI Counties | CY 2012-2018

Race

African American

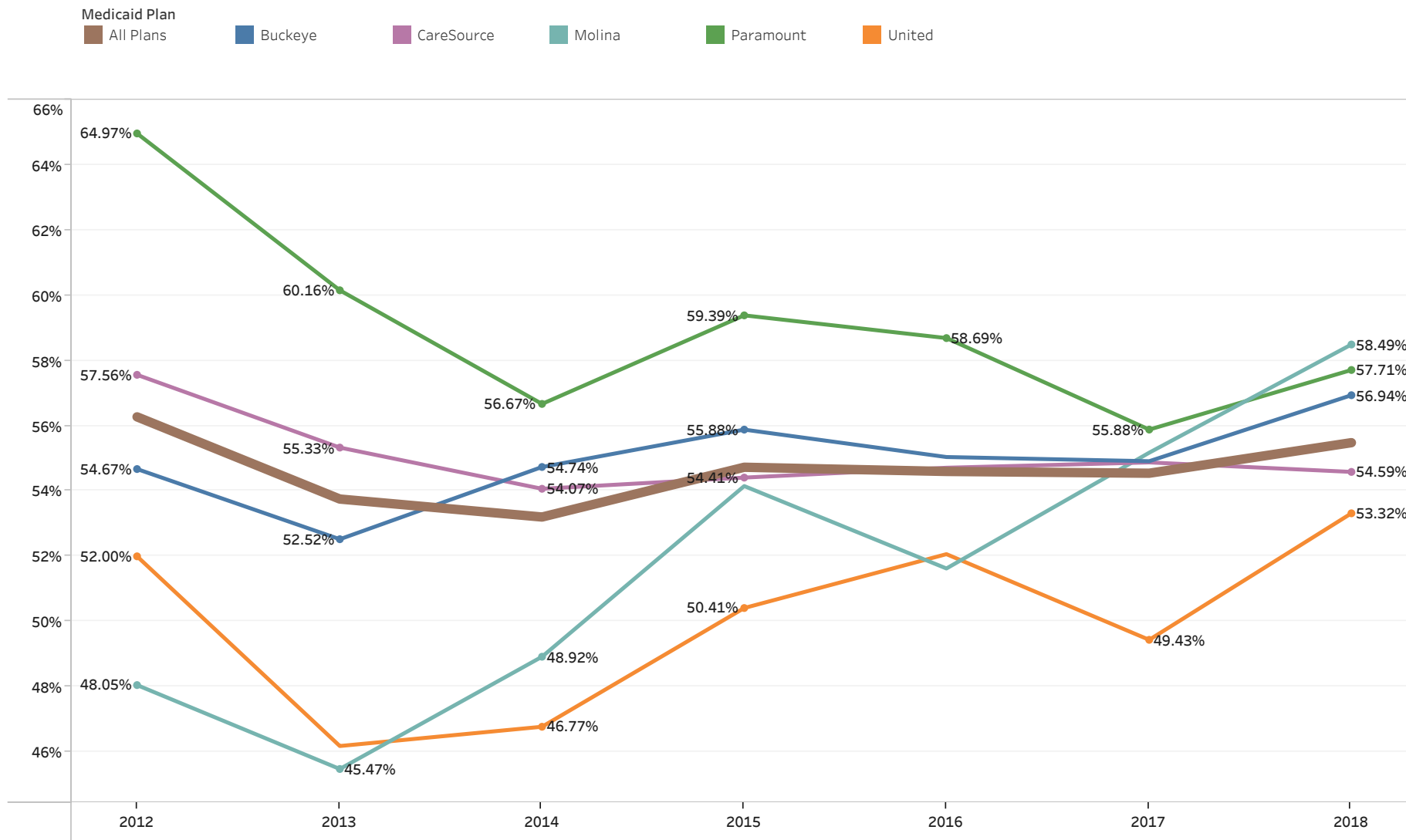
Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Postpartum Visits (%) All OEI Counties | CY 2012-2018



Data are through Q1 2018.
Data are limited to Medicaid as the payer.



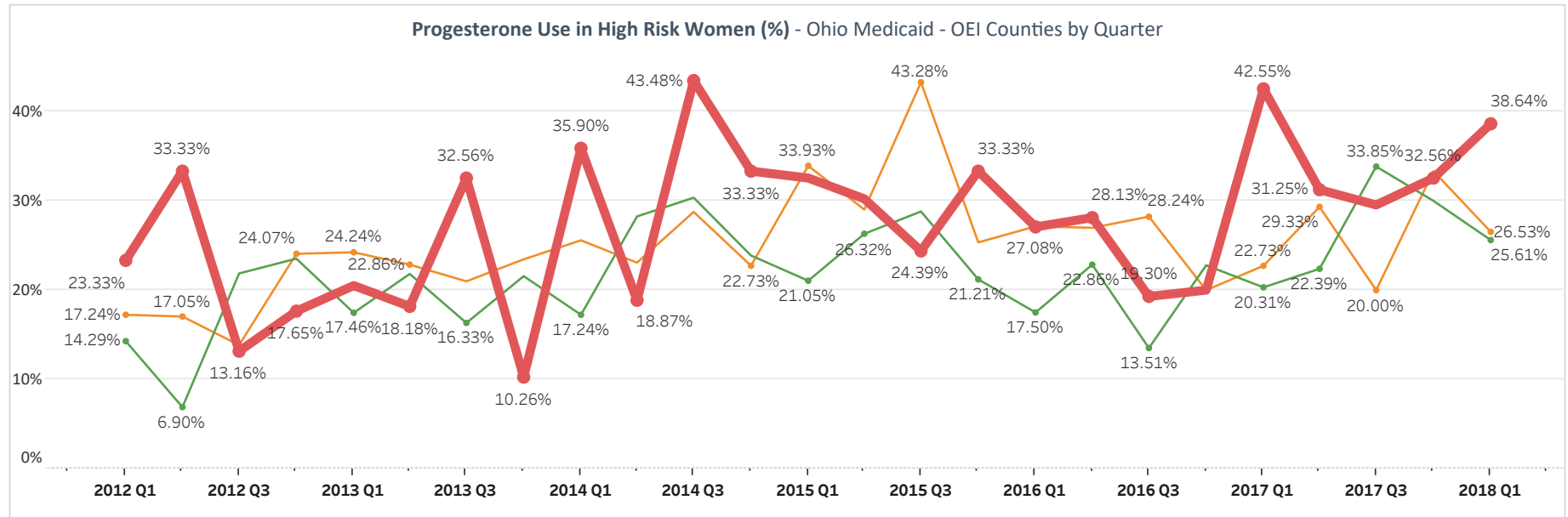
Progesterone Use in High Risk Women (%)

Butler, Mahoning, Stark Counties - Progesterone Use in High Risk Women (%)

Trends by Quarter | CY 2012-2018

Counties

Butler Mahoning Stark

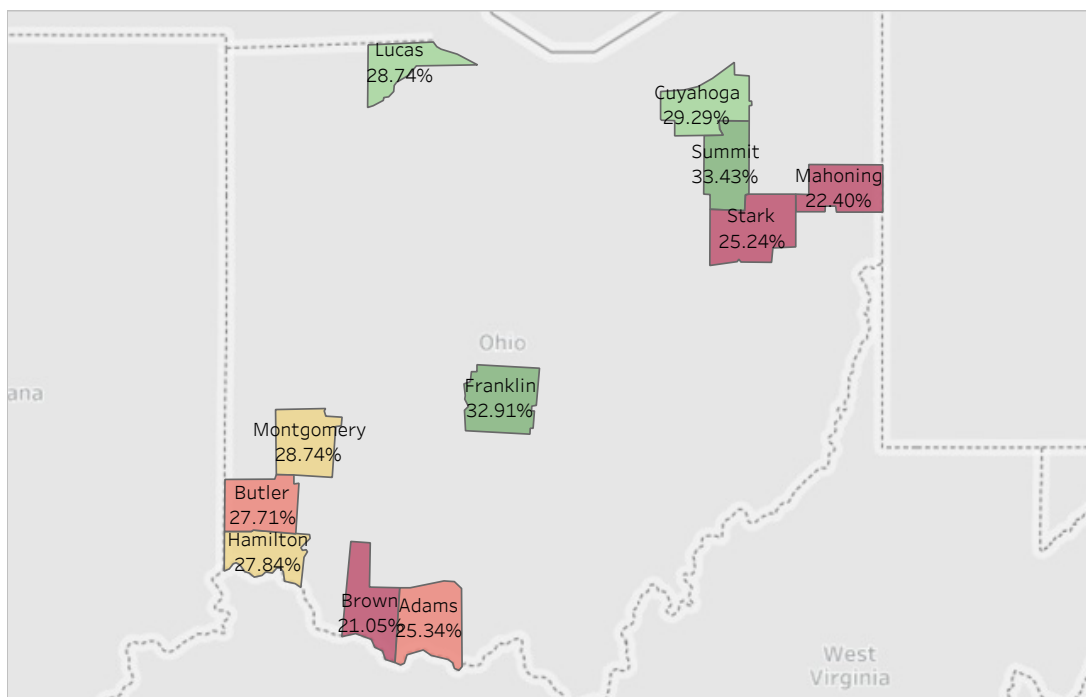


County	Progesterone Aggregate Rate Q1 2012 - Q1 2018	Progesterone Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	22.40%	27.89%	From 57 to 68 Women
Butler	27.71%	32.96%	From 51 to 61 Women
Stark	25.24%	27.58%	From 75 to 87 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2012 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2012 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.

Butler, Mahoning, Stark Counties - Progesterone Use in High Risk Women (%)

OEI County Quintiles | CY 2012-2018



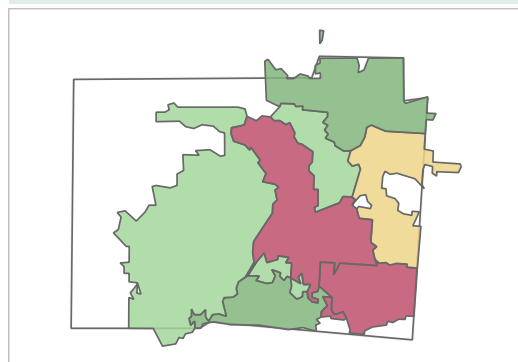
Map Measure Ranges

- $\geq 0 < 25.248\%$
- $\geq 25.248\% < 27.718\%$
- $\geq 27.718\% < 28.741\%$
- $\geq 28.741\% < 32.902\%$
- $\geq 32.902\%$

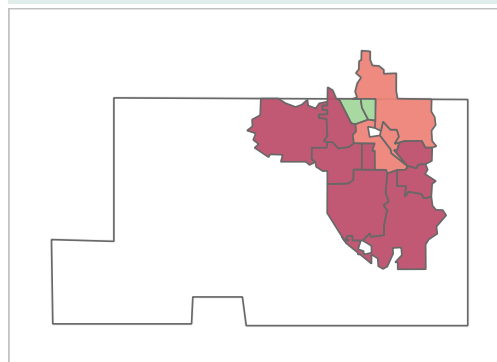
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

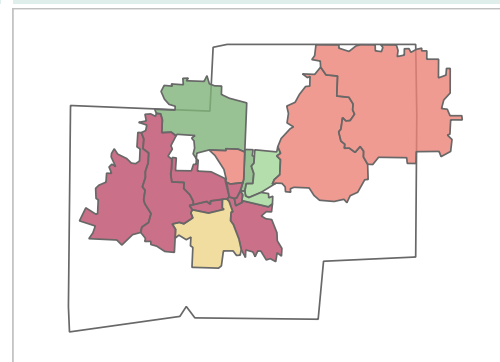
Butler



Mahoning

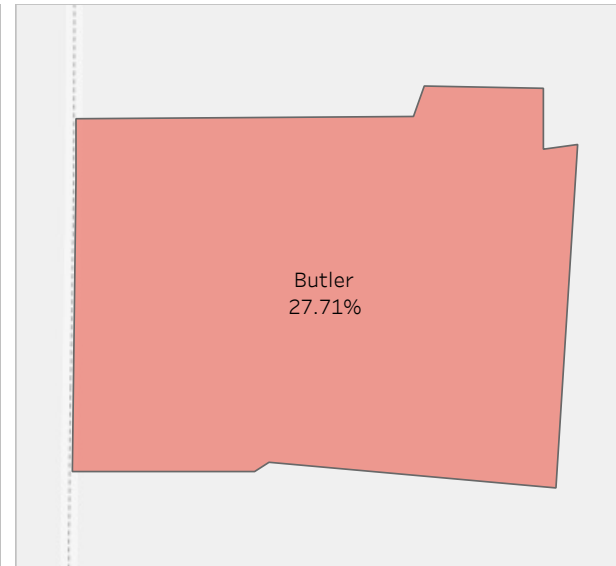
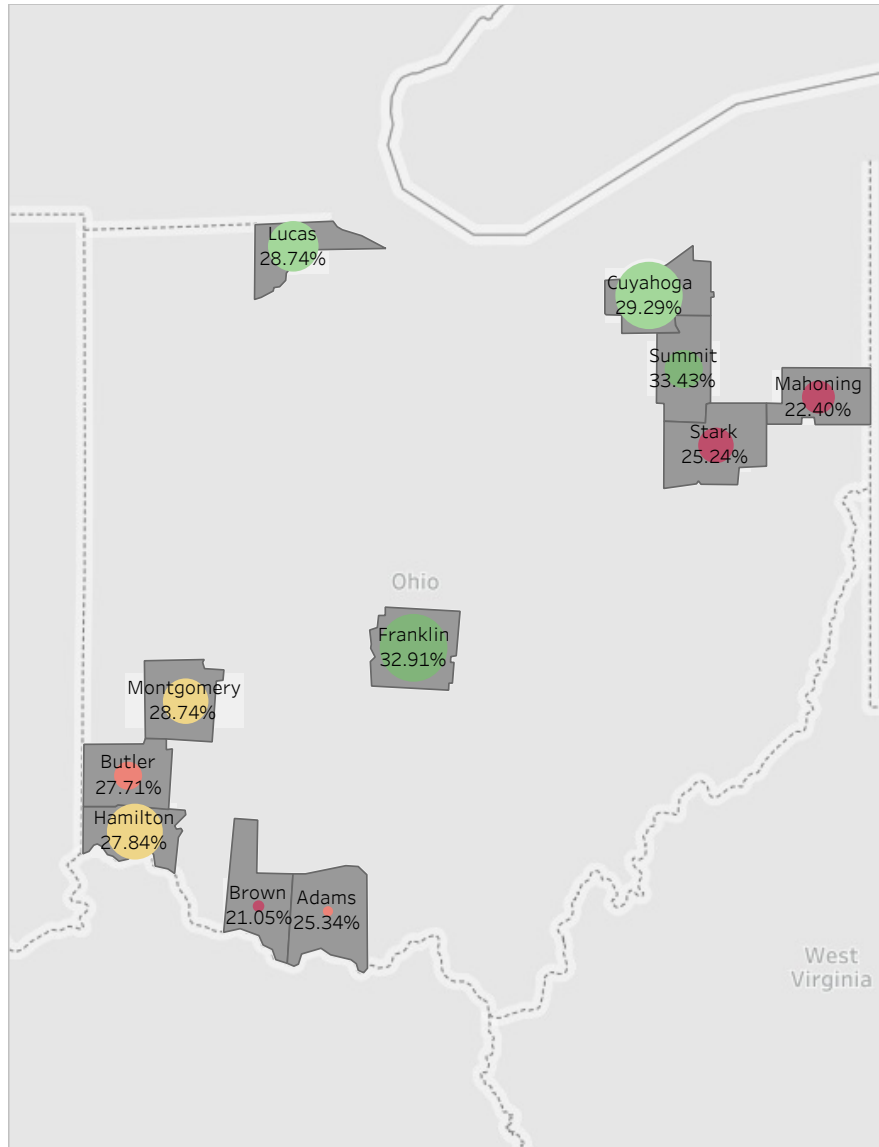


Stark



Butler County - Progesterone Use in High Risk Women (%)

OEI Quintiles | CY 2012-2018

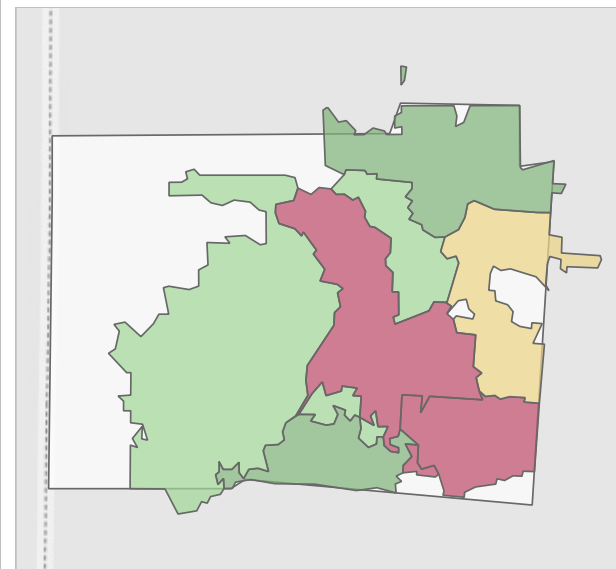


Map Measure Ranges

- $\geq 0 < 25.248\%$
- $\geq 25.248\% < 27.718\%$
- $\geq 27.718\% < 28.741\%$
- $\geq 28.741\% < 32.902\%$
- $\geq 32.902\%$

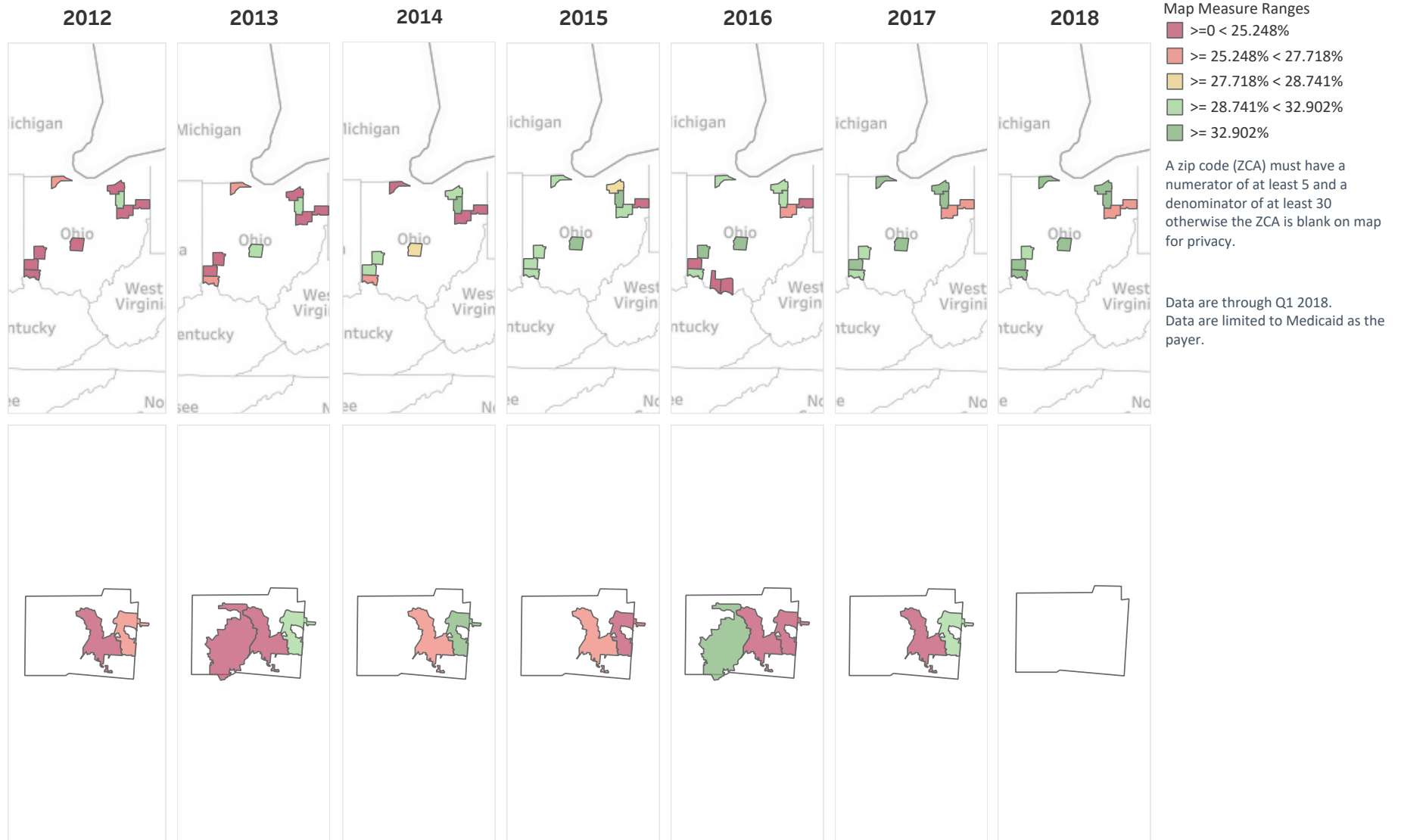
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

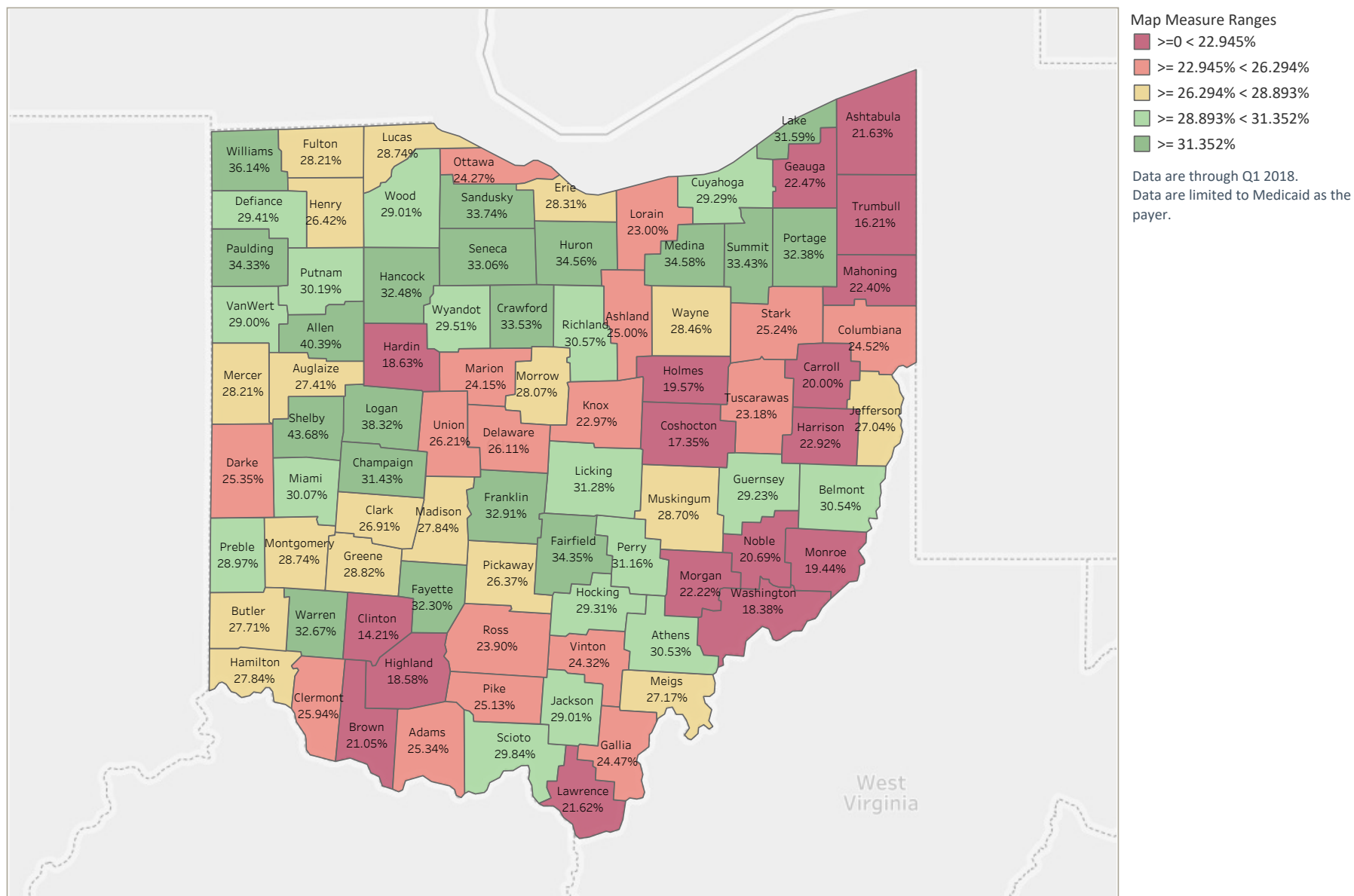


Butler County - Progesterone Use in High Risk Women (%)

OEI Quintiles | CY 2012-2018 Yearly Comparison



Statewide - Progesterone Use in High Risk Women (%)
Overall Quintiles by County | CY 2012 - 2018





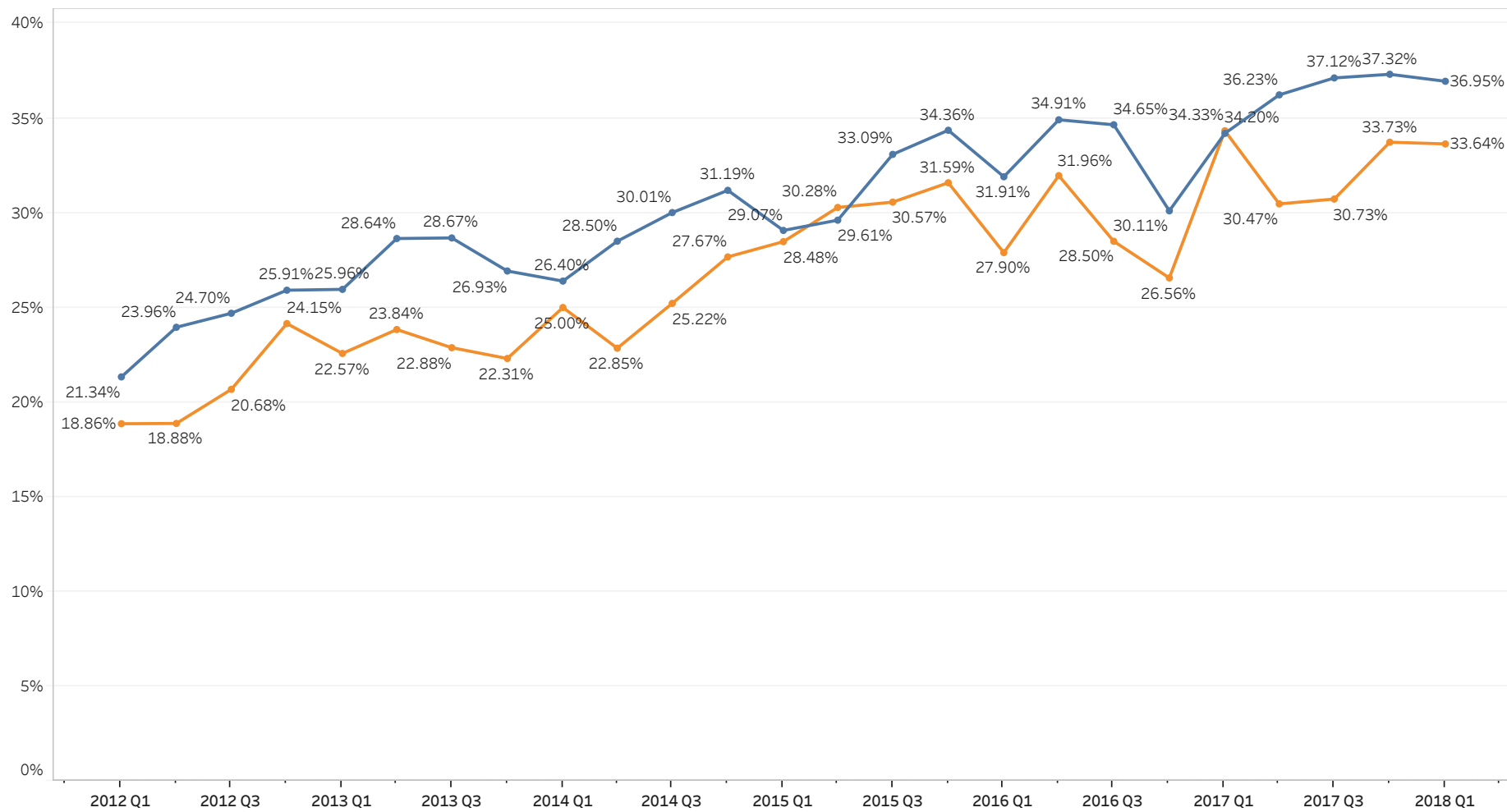
Quarterly Trends by Race - Progesterone Use in High Risk Women (%)

All OEI Counties | CY 2012-2018

Race

African American

Caucasian



Data are limited to Medicaid as the payer.



Yearly Trends by MCP - Progesterone Use in High Risk Women (%) All OEI Counties | CY 2012-2018

Medicaid Plan
All Plans

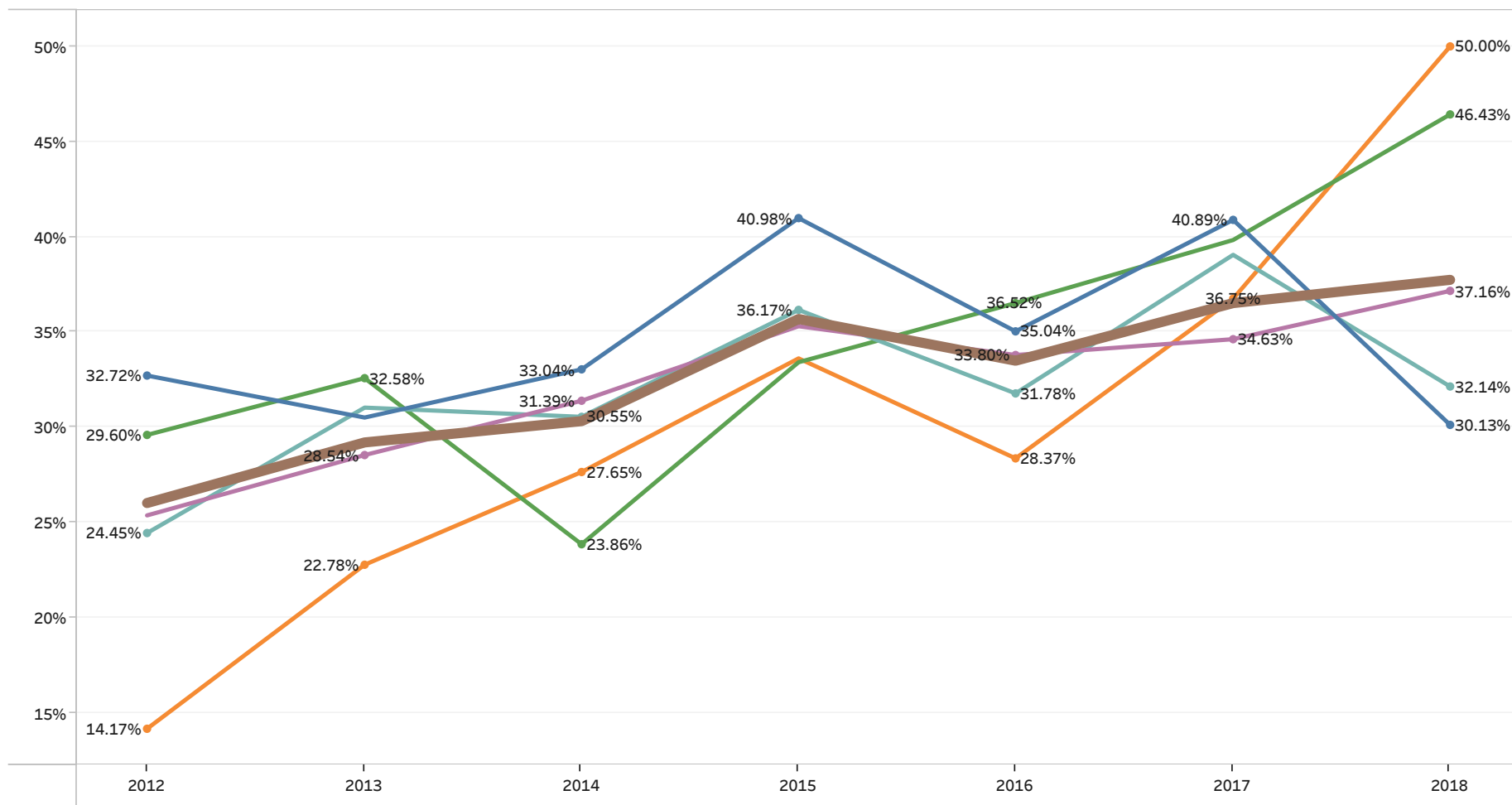
Buckeye

CareSource

Molina

Paramount

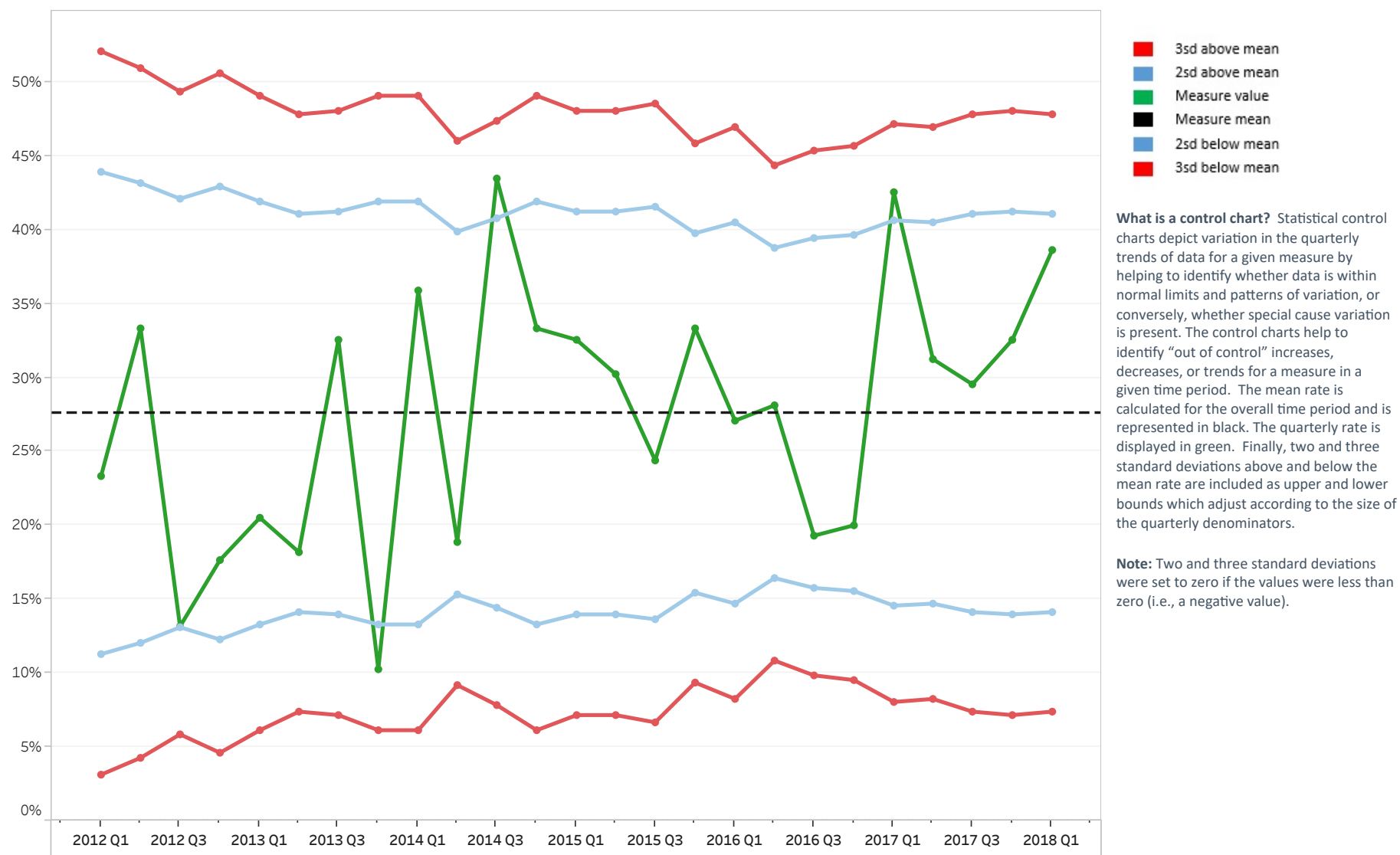
United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.

Butler County Quarterly Control Chart - Progesterone Use in High Risk Women (%) CY 2012-2018



What is a control chart? Statistical control charts depict variation in the quarterly trends of data for a given measure by helping to identify whether data is within normal limits and patterns of variation, or conversely, whether special cause variation is present. The control charts help to identify "out of control" increases, decreases, or trends for a measure in a given time period. The mean rate is calculated for the overall time period and is represented in black. The quarterly rate is displayed in green. Finally, two and three standard deviations above and below the mean rate are included as upper and lower bounds which adjust according to the size of the quarterly denominators.

Note: Two and three standard deviations were set to zero if the values were less than zero (i.e., a negative value).

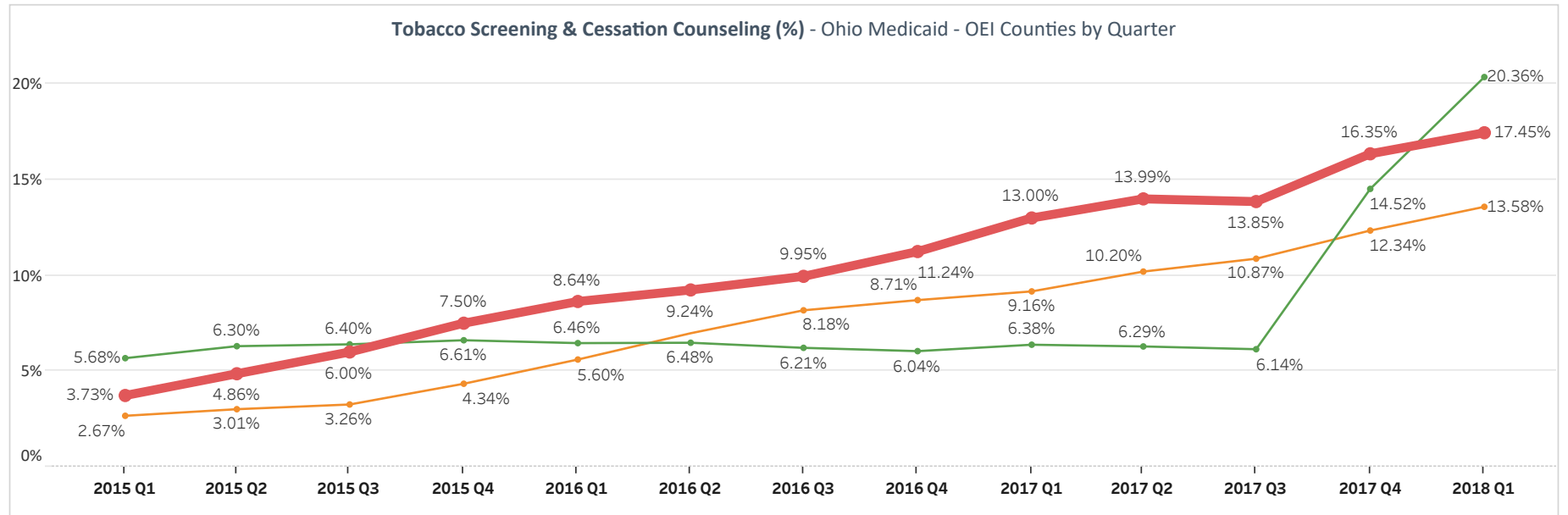


Tobacco Screening & Cessation Counseling (%)

Butler, Mahoning, Stark Counties - Tobacco Screening & Cessation Counseling (%)

Trends by Quarter | CY 2015-2018

Counties
■ Butler
■ Mahoning
■ Stark

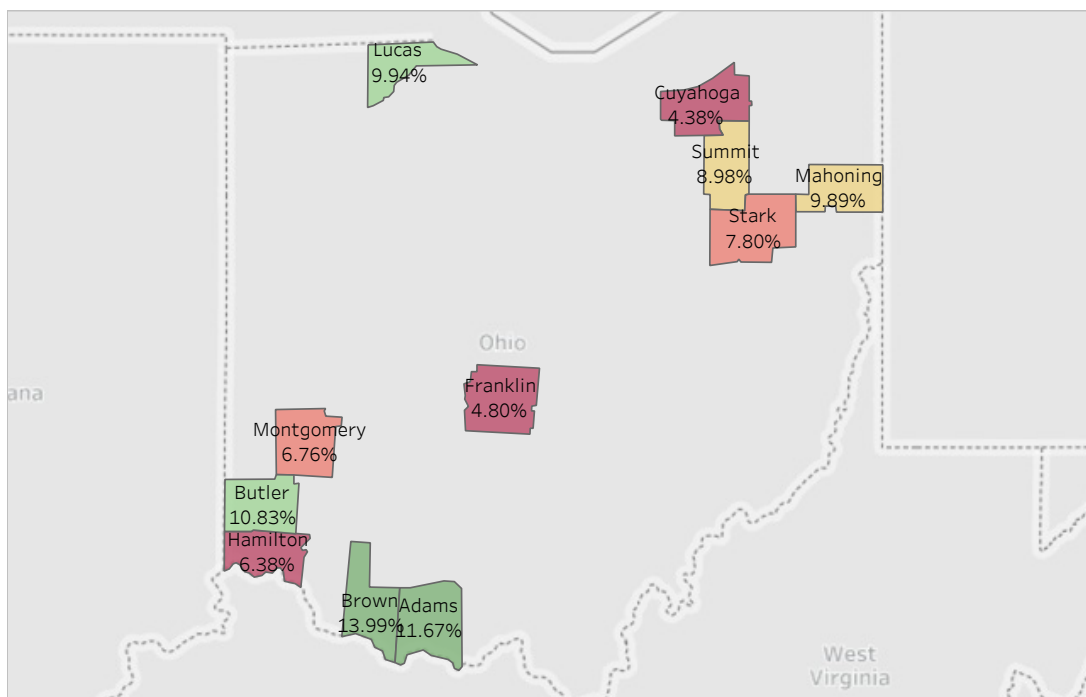


County	Tobacco Screening & Cessation Counseling Aggregate Rate Q1 2015 - Q1 2018	Tobacco Screening & Cessation Counseling Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	9.89%	20.36%	From 1790 to 1856 Women
Butler	10.83%	17.45%	From 2258 to 2332 Women
Stark	7.80%	13.58%	From 1724 to 1790 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2015 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2015 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.



Butler, Mahoning, Stark Counties - Tobacco Screening & Cessation Counseling (%) OEI County Quintiles | CY 2015-2018



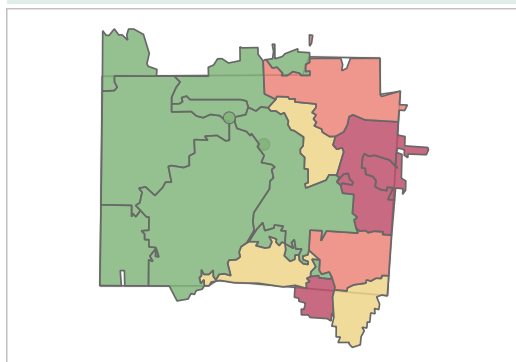
Map Measure Ranges

- $\geq 0 < 6.390\%$
- $\geq 6.390\% < 7.811\%$
- $\geq 7.811\% < 9.927\%$
- $\geq 9.927\% < 11.656\%$
- $\geq 11.656\%$

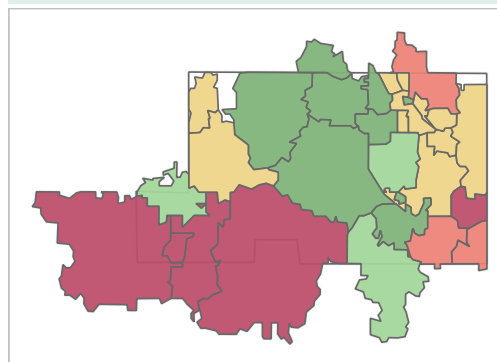
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

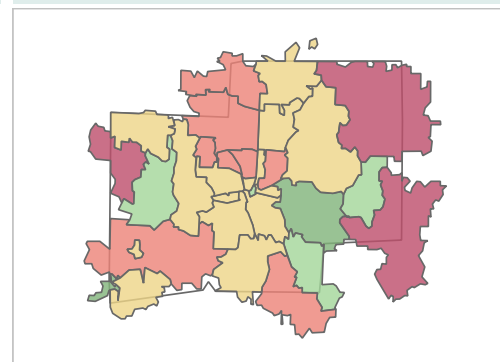
Butler



Mahoning

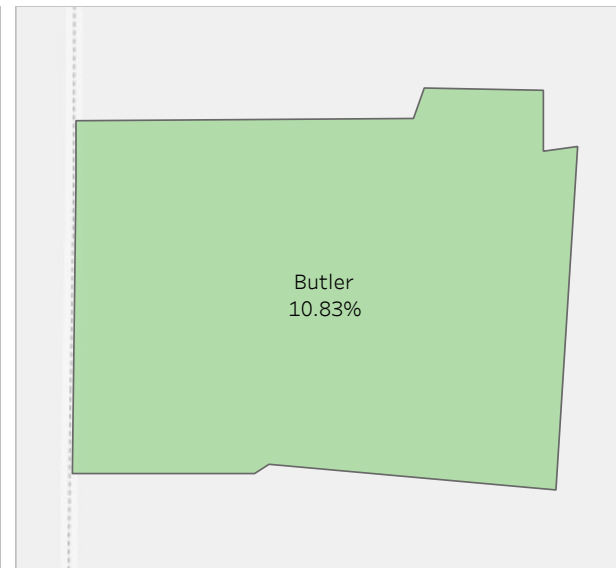
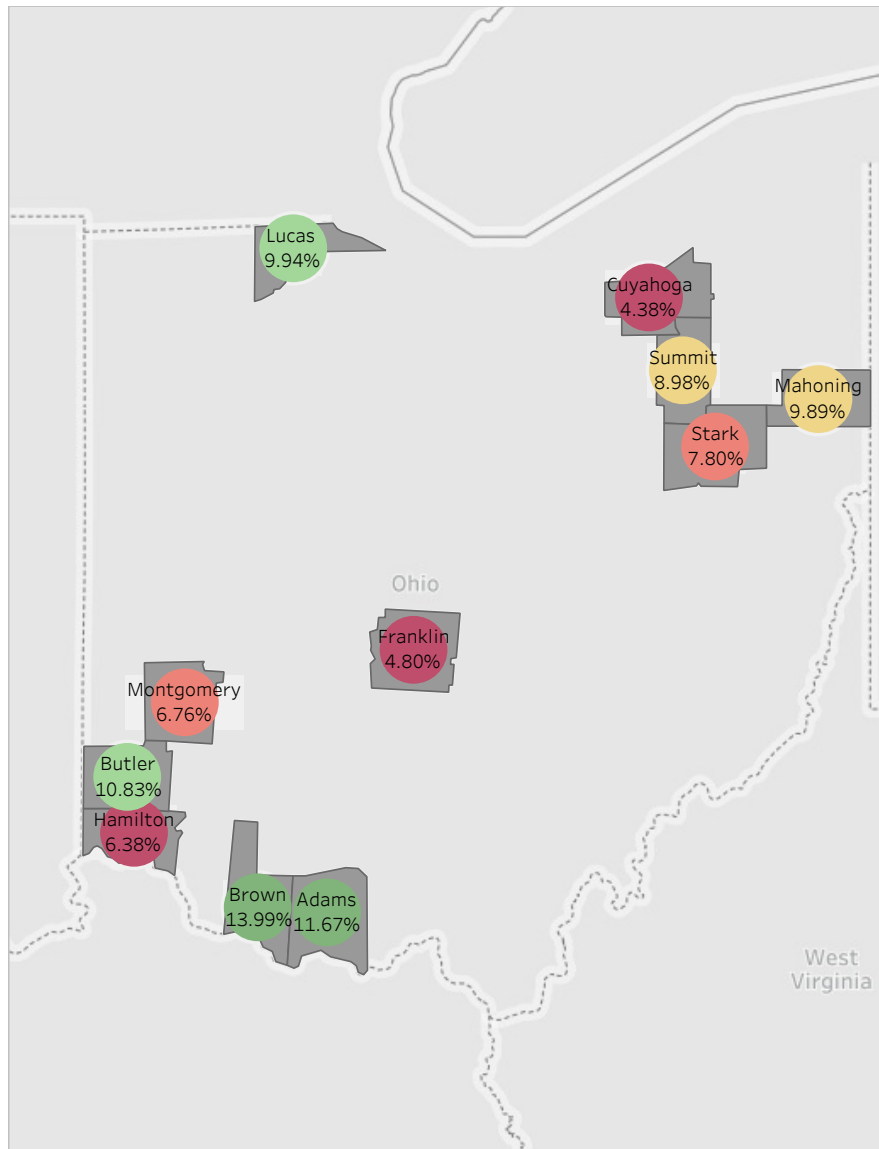


Stark



Butler County - Tobacco Screening & Cessation Counseling (%)

OEI Quintiles | CY 2015-2018

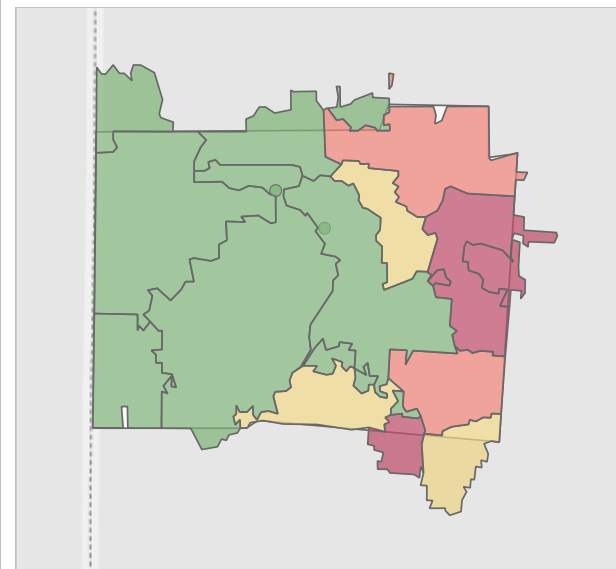


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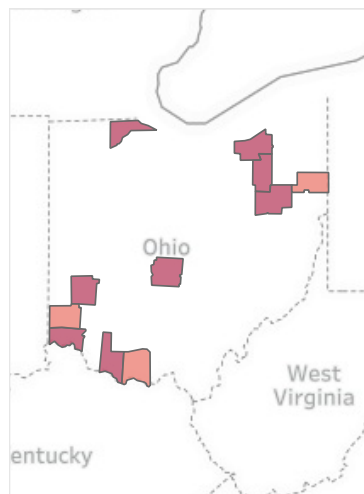
Data are through Q1 2018.
Data are limited to Medicaid as the payer.



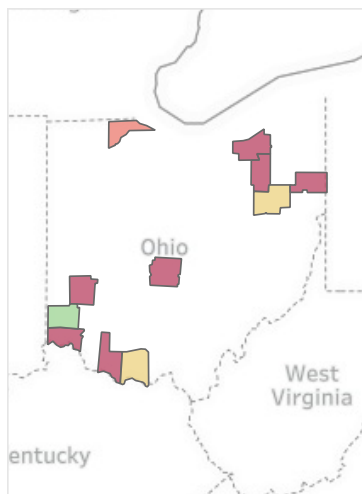
Butler County - Tobacco Screening & Cessation Counseling (%)

OEI Quintiles | CY 2015-2018 Yearly Comparison

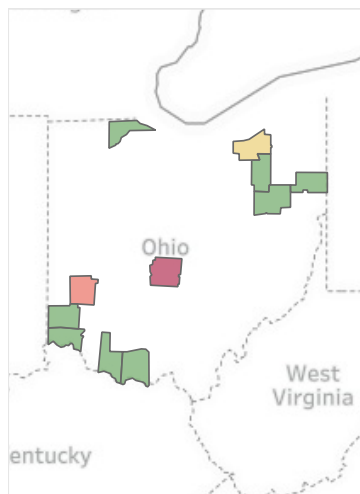
CY 2015



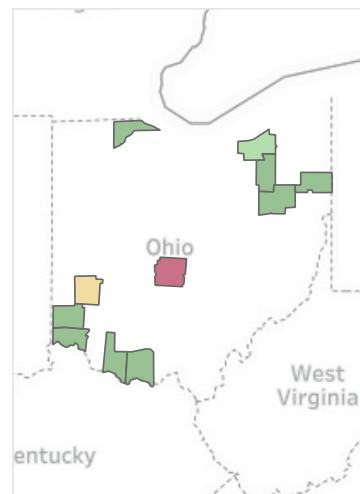
CY 2016



CY 2017



Q1 2018

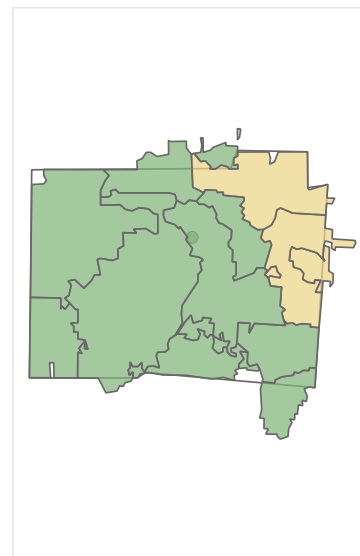
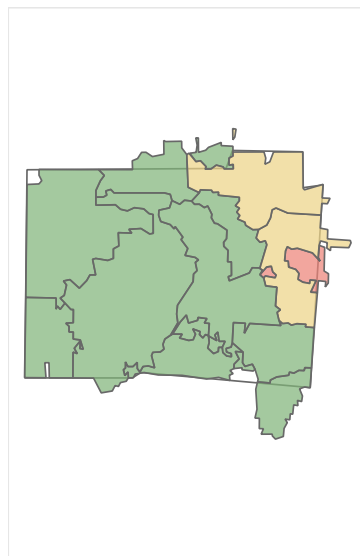
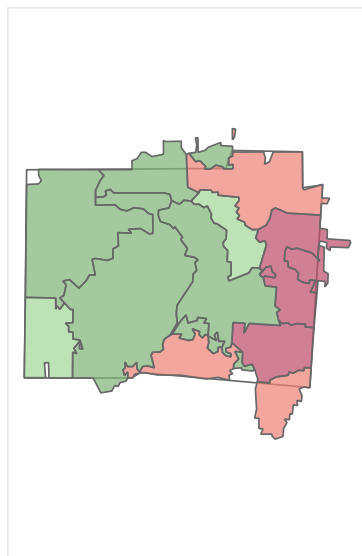
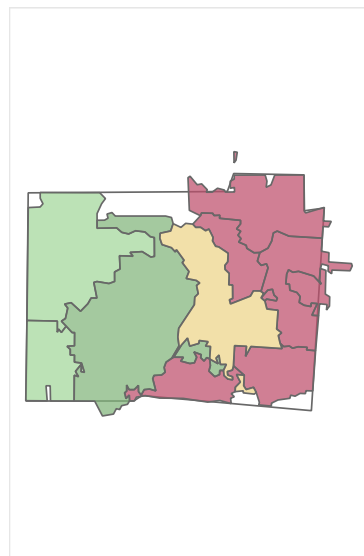


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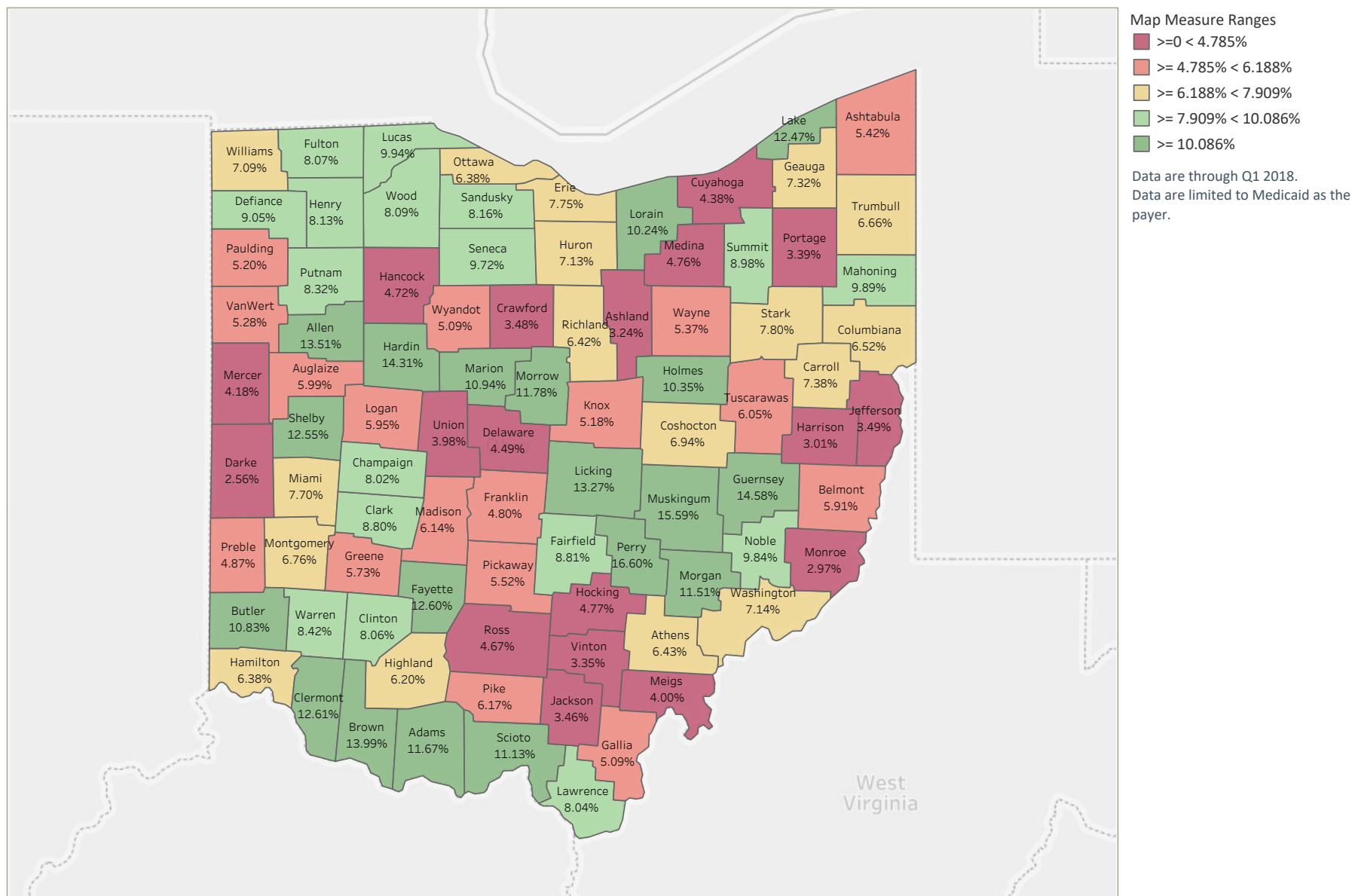
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Data are through Q1 2018.
Data are limited to Medicaid as the payer.



Statewide - Tobacco Screening & Cessation Counseling (%)

Overall Quintiles by County | CY 2015 - 2018





Yearly Trends by MCP - Tobacco Screening & Cessation Counseling (%)

All OEI Counties | CY 2015-2018

Medicaid Plan

All Plans

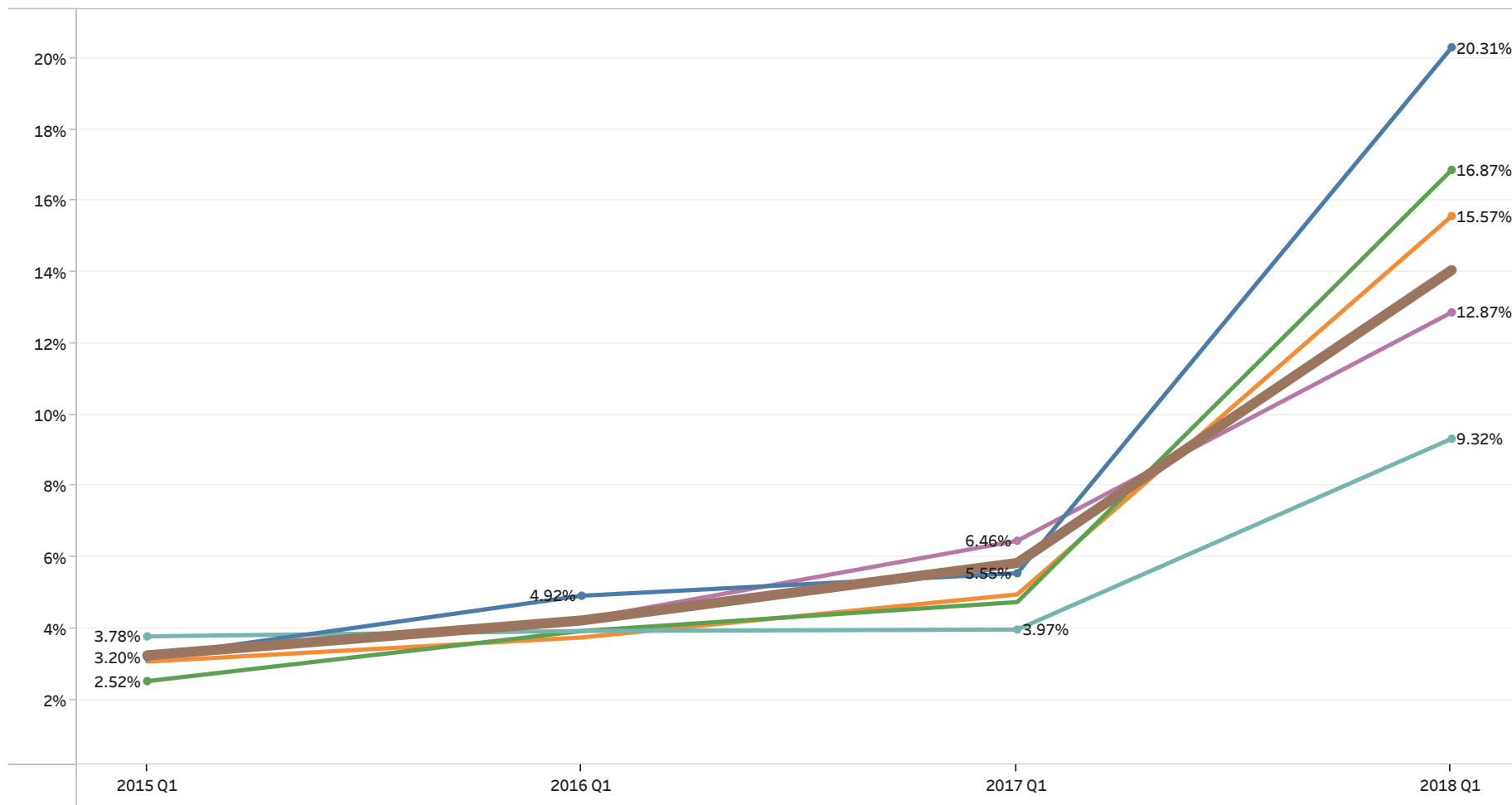
Buckeye

CareSource

Molina

Paramount

United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.



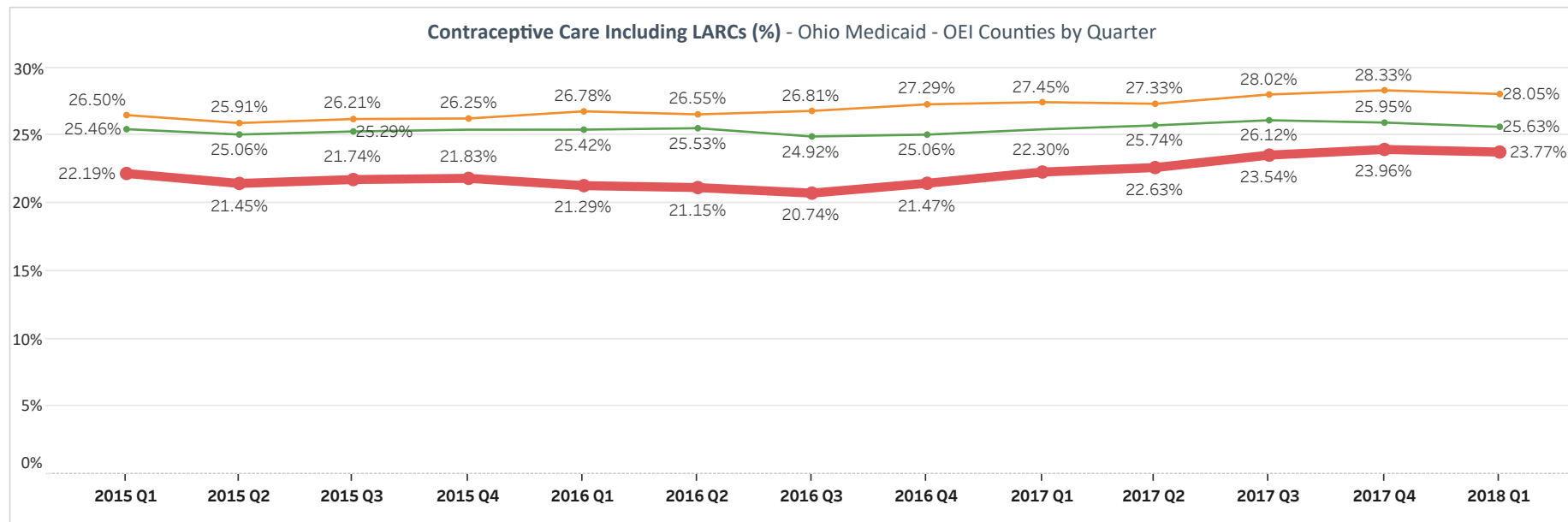
Contraceptive Care Including LARCs (%)

Butler, Mahoning, Stark Counties - Contraceptive Care Including LARCs (%)

Trends by Quarter | CY 2015-2018

Counties

Butler Mahoning Stark



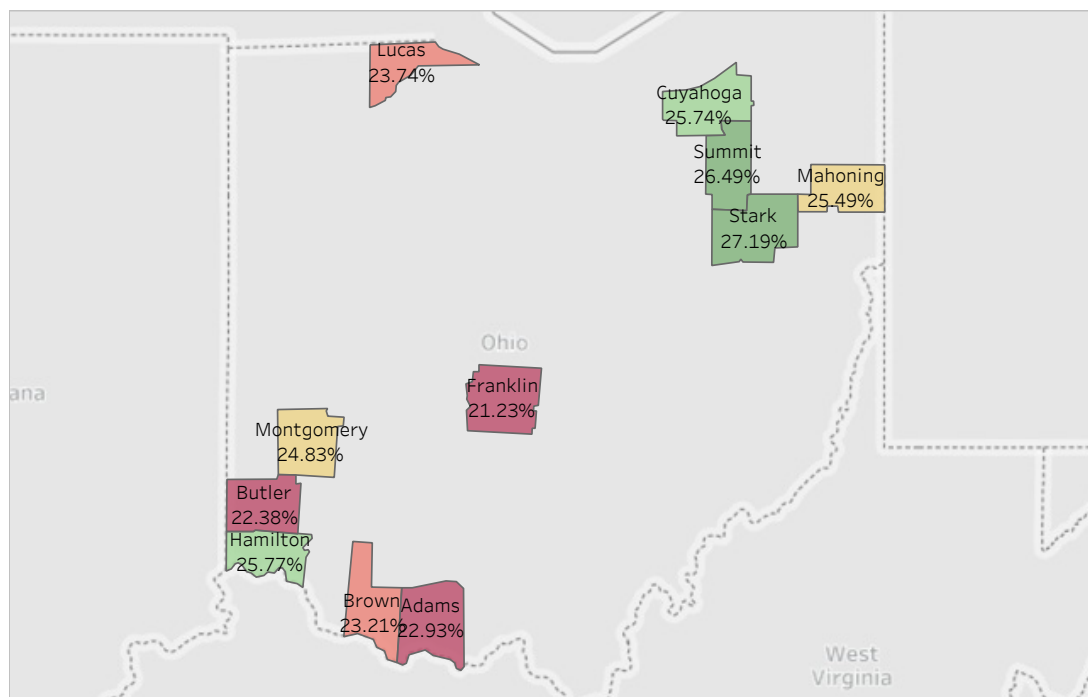
County	Contraceptive Care Including LARCs Aggregate Rate Q1 2015 - Q1 2018	Contraceptive Care Including LARCs Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	25.49%	25.63%	From 4797 to 4896 Women
Butler	22.38%	23.77%	From 4934 to 5036 Women
Stark	27.19%	28.05%	From 6269 to 6380 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2015 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2015 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data. This measure includes moderate to most effective forms of contraception, including Long-Acting Reversible Contraceptives (LARCs).



Butler, Mahoning, Stark Counties - Contraceptive Care Including LARCs (%)

OEI County Quintiles | CY 2015-2018



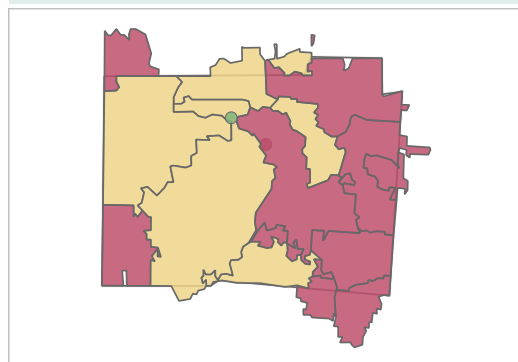
Map Measure Ranges

- $\geq 0 < 22.943\%$
- $\geq 22.943\% < 23.746\%$
- $\geq 23.746\% < 25.727\%$
- $\geq 25.727\% < 26.478\%$
- $\geq 26.478\%$

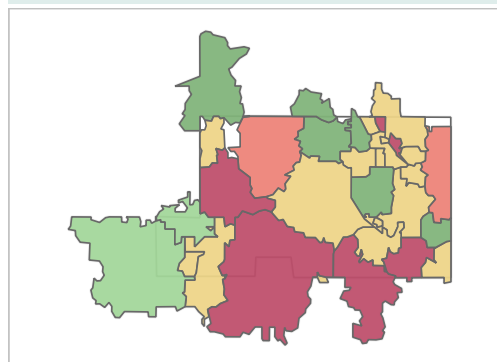
A zip code (ZCA) must have a numerator of at least 5 and a denominator of at least 30 otherwise the ZCA is blank on map for privacy.

Data are through Q1 2018.
Data are limited to Medicaid as the payer.

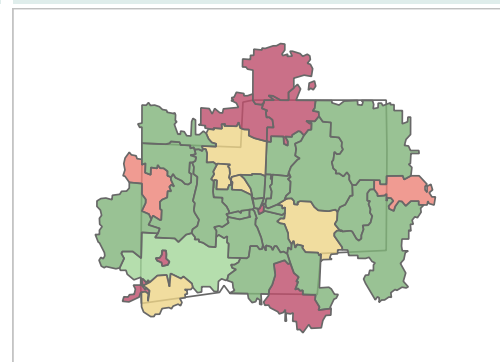
Butler



Mahoning

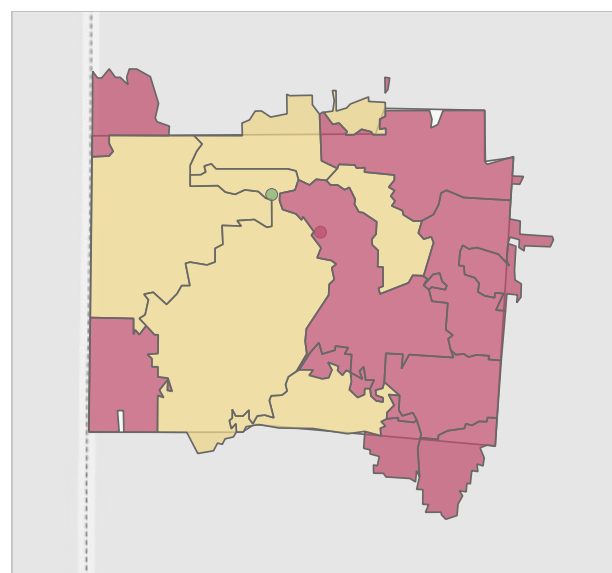
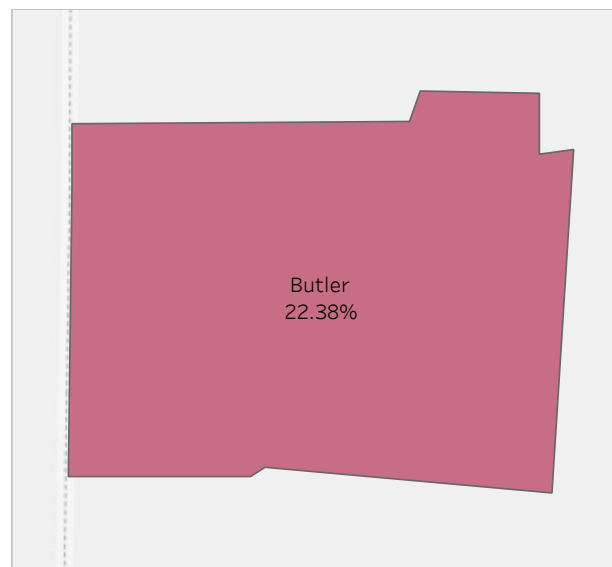
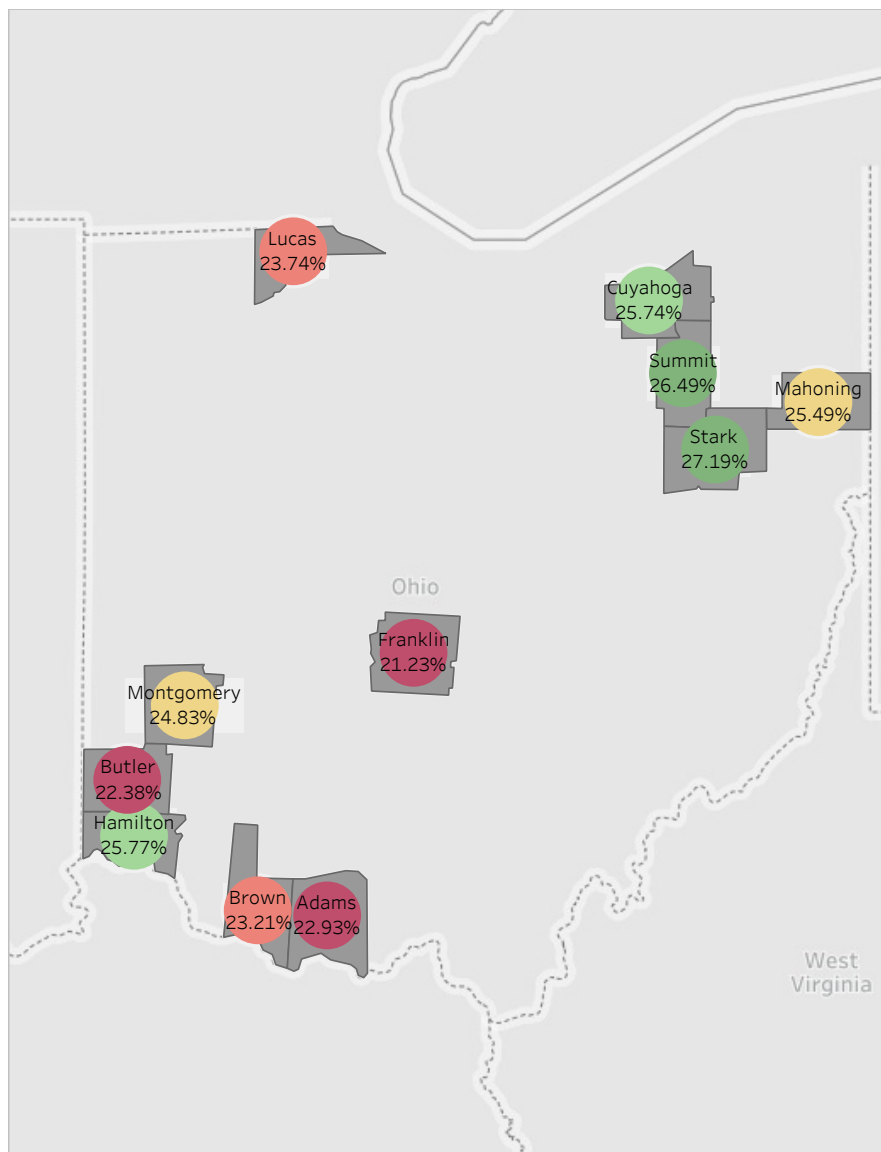


Stark



Butler County - Contraceptive Care Including LARCs (%)

OEI Quintiles | CY 2015-2018



Map Measure Ranges

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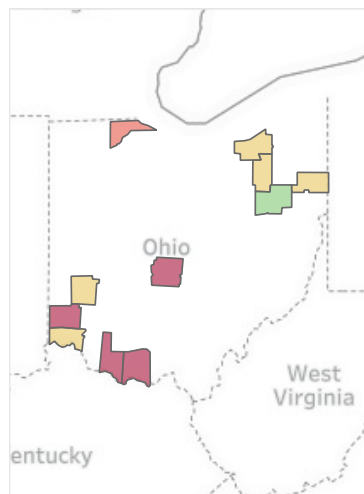
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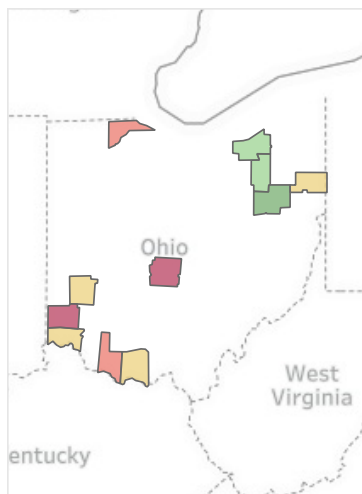
Butler County - Contraceptive Care Including LARCs (%)

OEI Quintiles | CY 2015-2018 Yearly Comparison

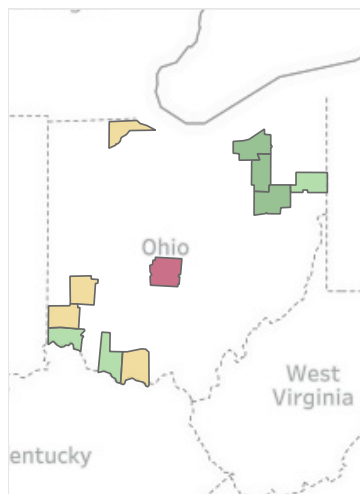
CY 2015



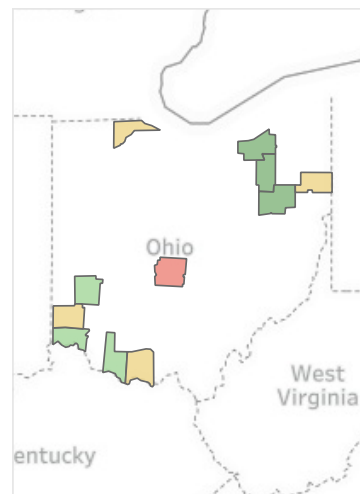
CY 2016



CY 2017



Q1 2018

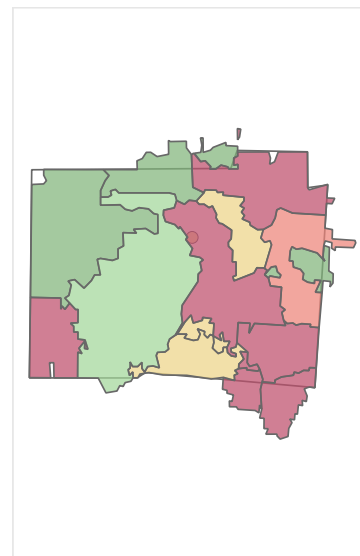
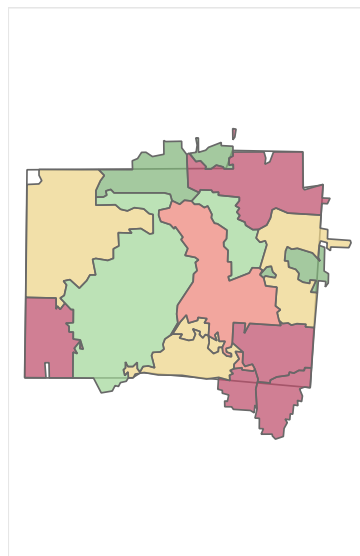
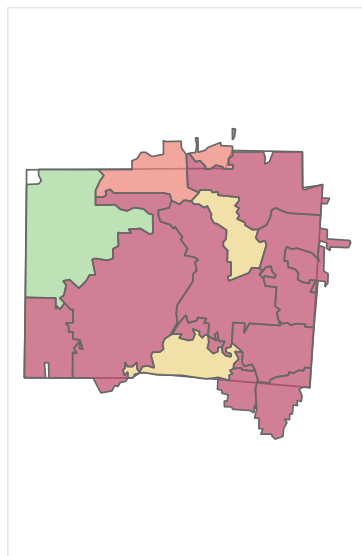
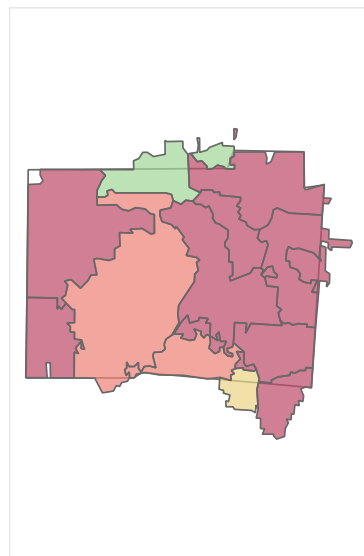


Map Measure Ranges

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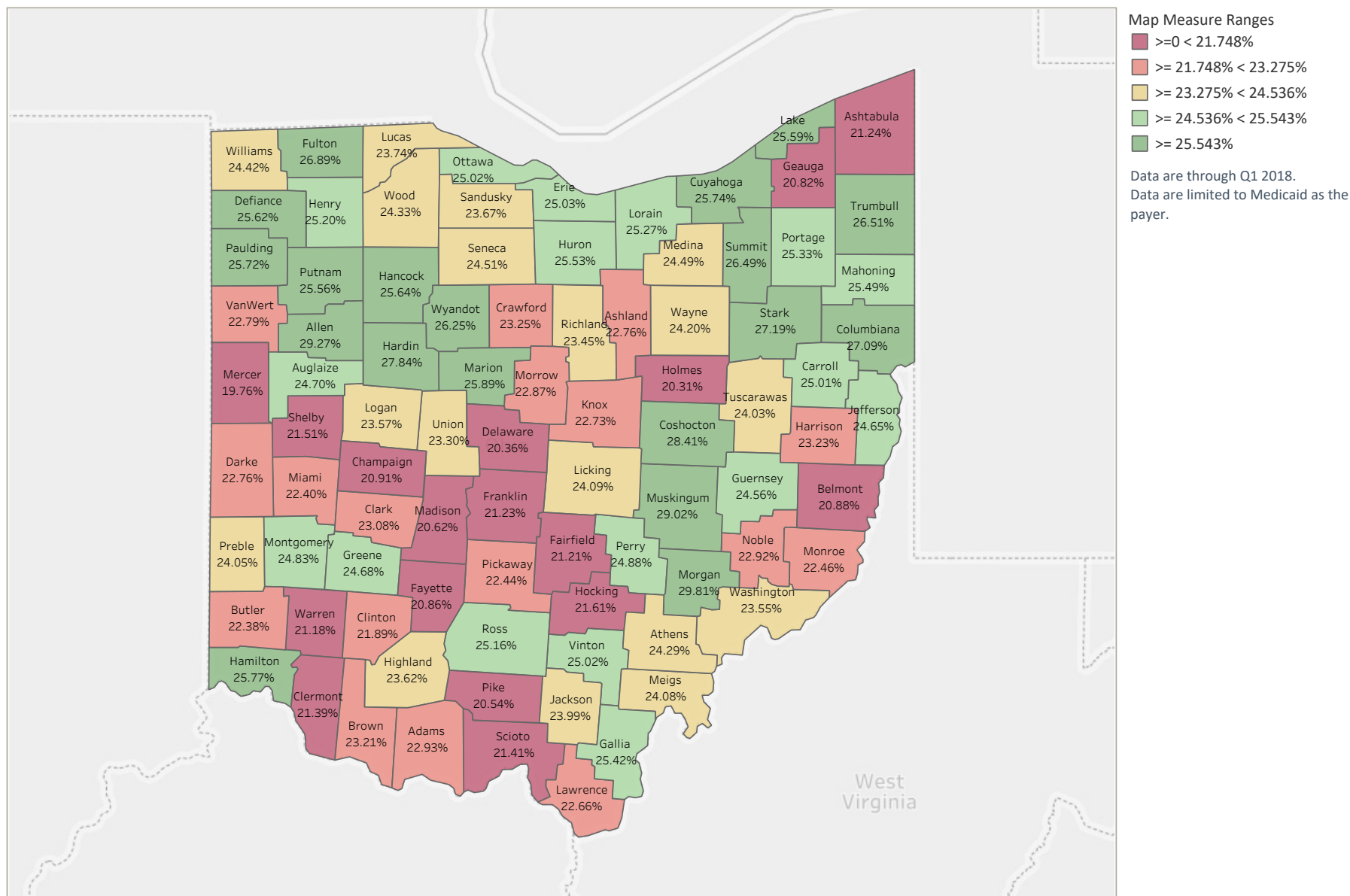
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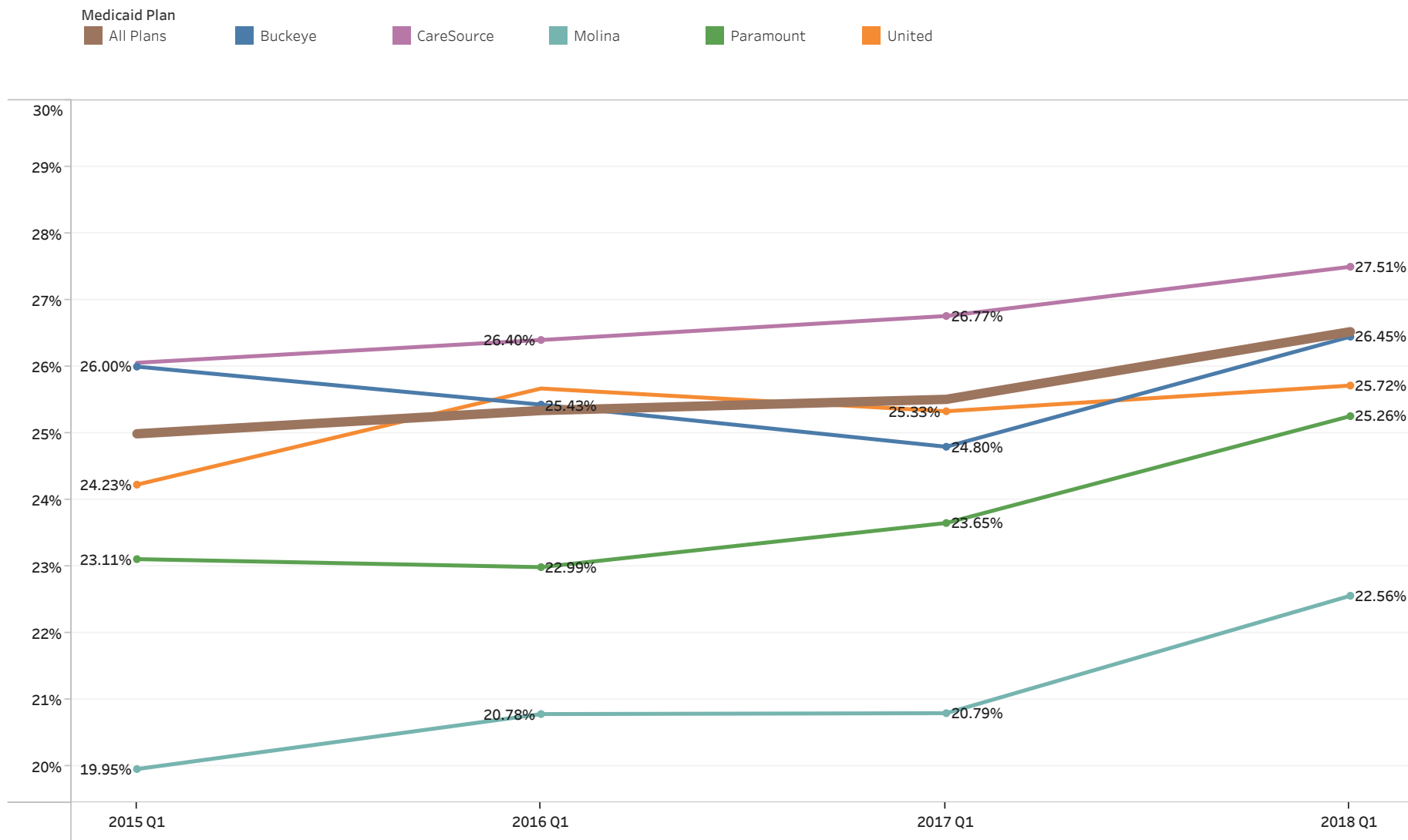
Statewide - Contraceptive Care Including LARCs (%)

Overall Quintiles by County | CY 2015 - 2018





Yearly Trends by MCP - Contraceptive Care Including LARCs (%) All OEI Counties | CY 2015-2018



Data are through Q1 2018.

Data are limited to Medicaid as the payer.

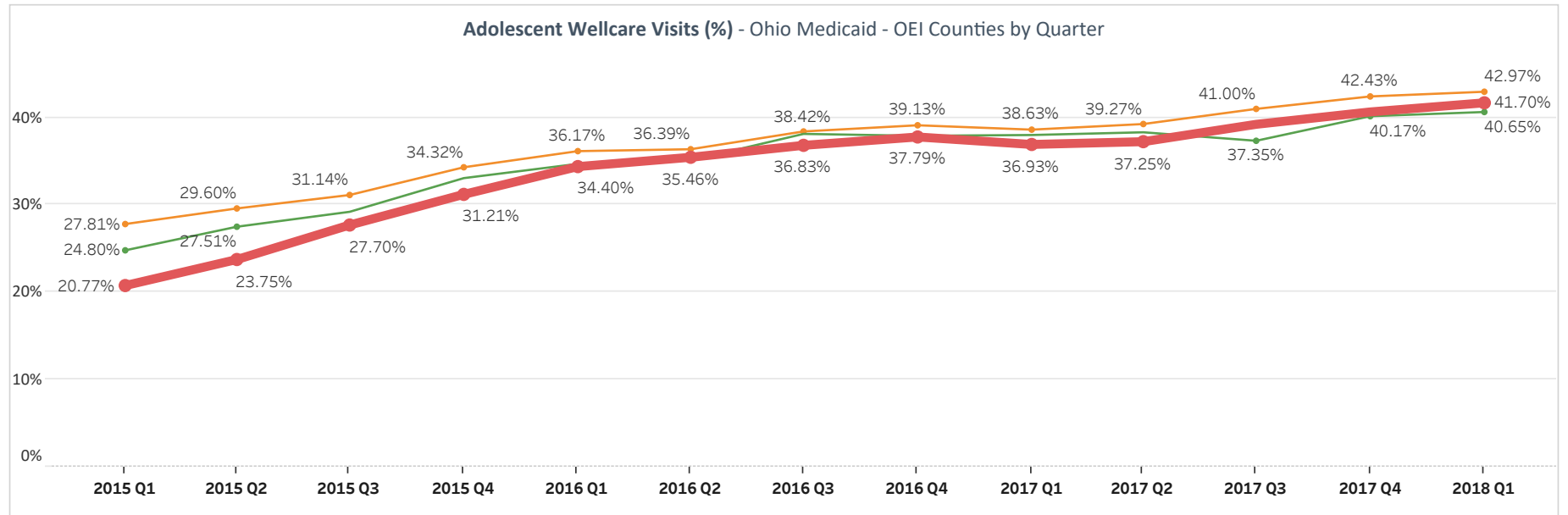


Adolescent Wellcare Visits (%)

Butler, Mahoning, Stark Counties - Adolescent Wellcare Visits (%)

Trends by Quarter | CY 2015-2018

Counties
■ Butler ■ Mahoning ■ Stark



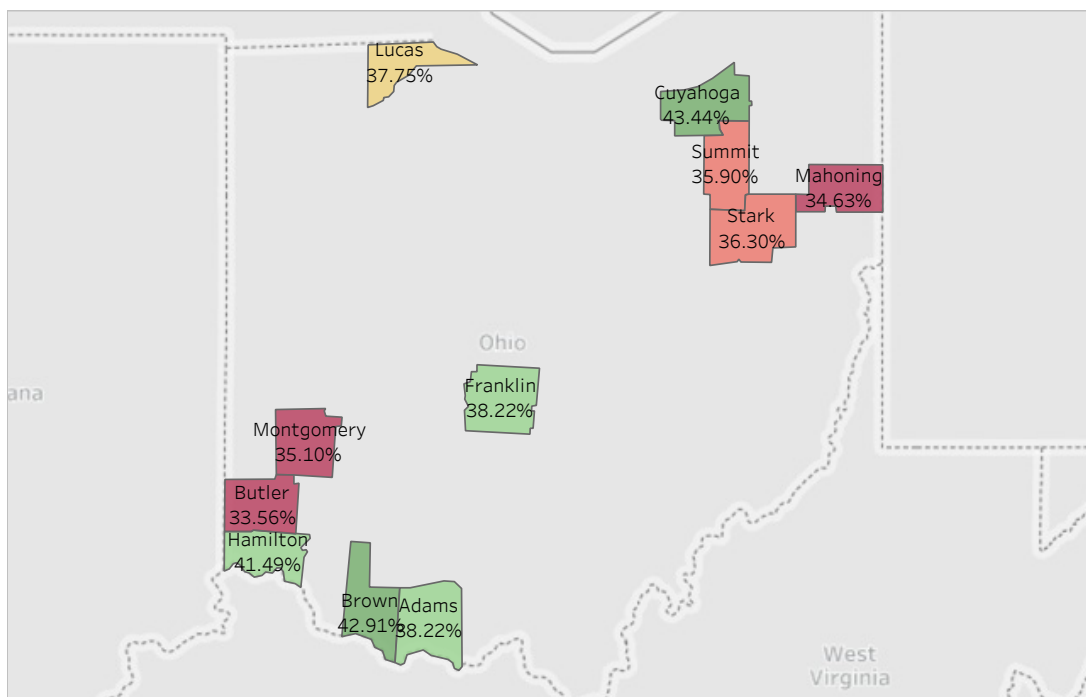
County	Adolescent Wellcare Visits Aggregate Rate Q1 2015 - Q1 2018	Adolescent Wellcare Visits Current Rate Q2 2017 - Q1 2018	Annual Target for Real Impact*
Mahoning	34.63%	40.65%	From 2847 to 2918 Women
Butler	33.56%	41.70%	From 3333 to 3410 Women
Stark	36.30%	42.97%	From 3684 to 3763 Women

Note: Statistical significance test is based off of a 95% confidence level using the binomial test of proportions. The baseline rate (a rate for the entire time period from Q1 2015 – Q1 2018) is compared to the annual target numerator, denominator, and rate for future data to determine a change that would result in p-value less than 0.05, resulting in statistical significance at a 95% confidence level. In order to normalize and account for any quarterly variation, the size of the denominator for the target measure is based off of an average quarterly calculation of the denominators from Q1 2015 through Q1 2018. The calculation to determine the annual target therefore assumes an average size in the denominator for upcoming four quarters of data.



Butler, Mahoning, Stark Counties - Adolescent Wellcare Visits (%)

OEI County Quintiles | CY 2015-2018



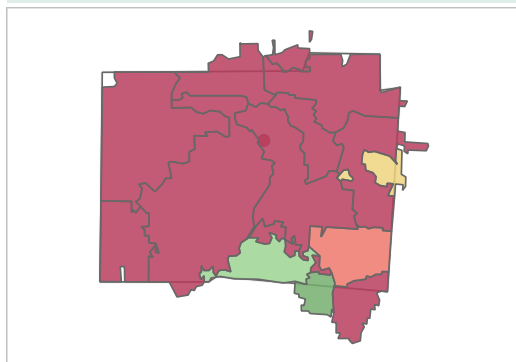
Map Measure Ranges

- >=0 < 35.107%
- >= 35.107% < 36.308%
- >= 36.308% < 38.219%
- >= 38.219% < 42.902%
- >= 42.902%

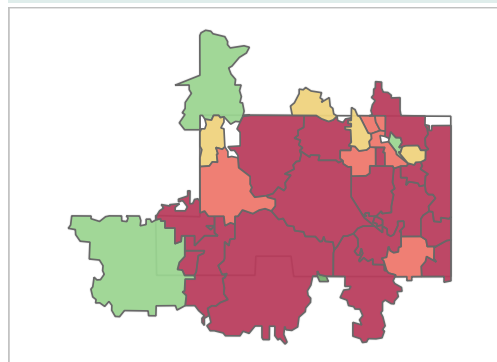
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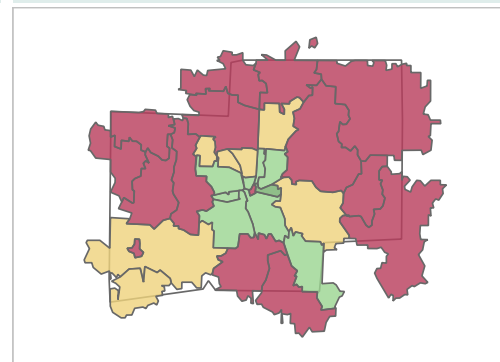
Butler



Mahoning

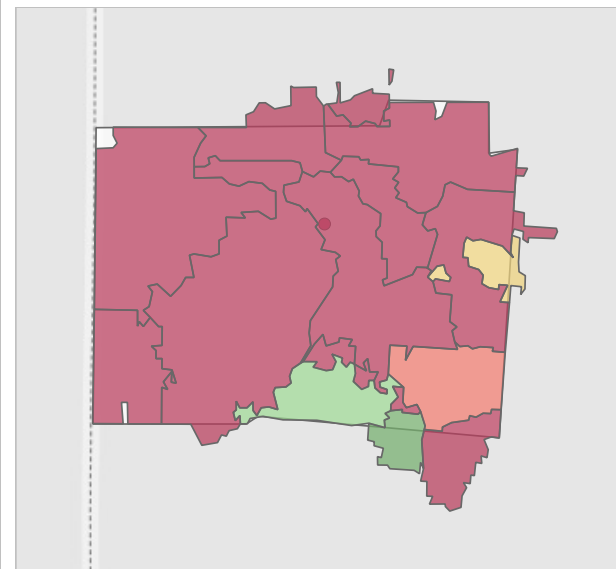
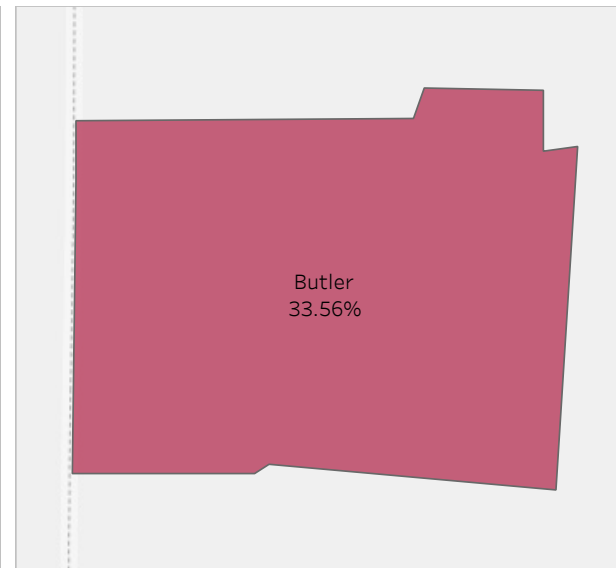
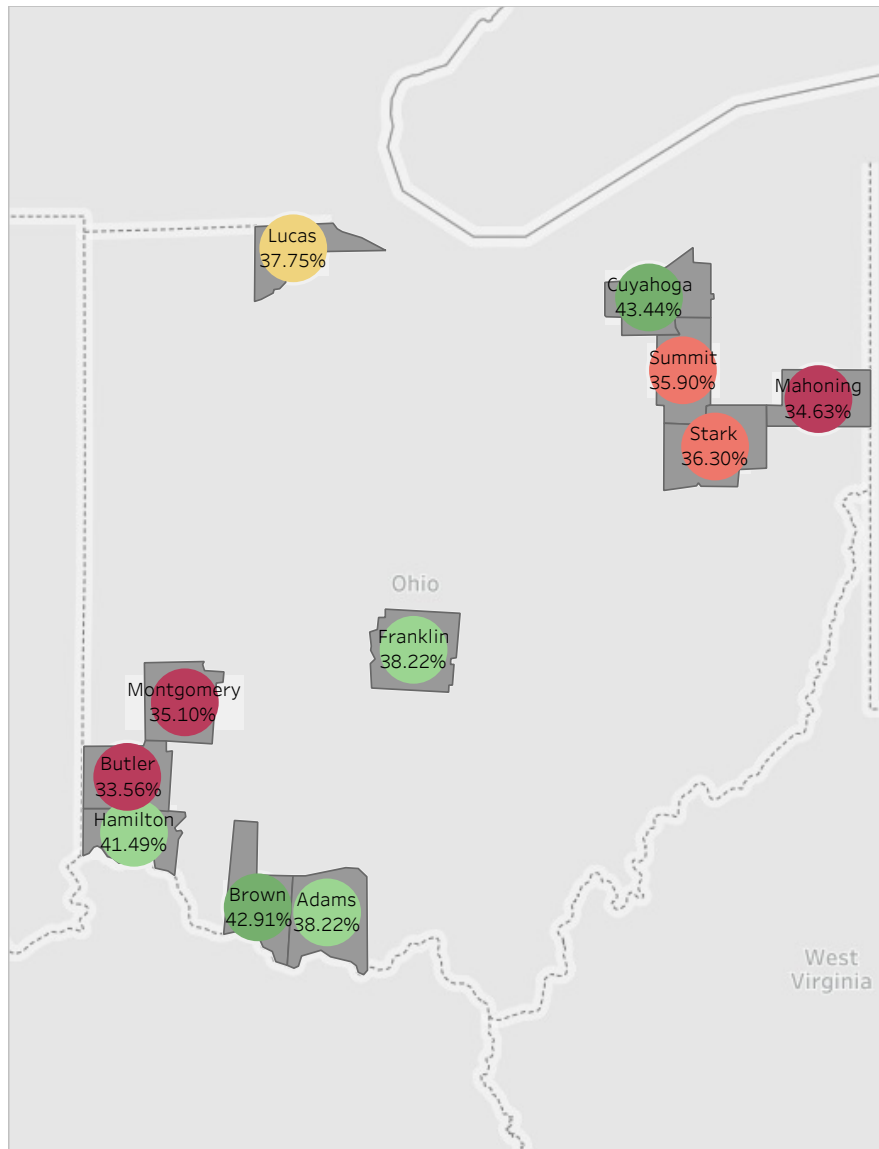


Stark



Butler County - Adolescent Wellcare Visits (%)

OEI Quintiles | CY 2015-2018



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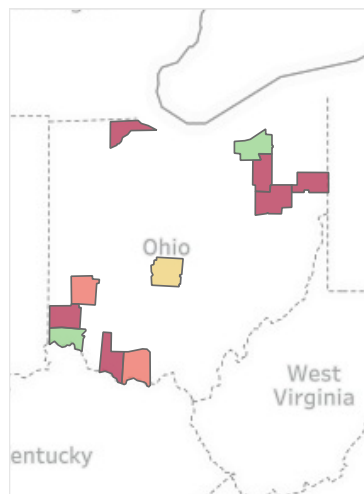
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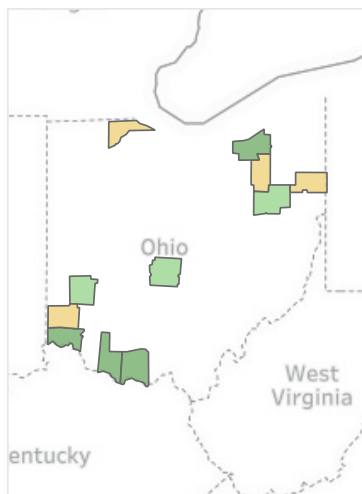
Butler County - Adolescent Wellcare Visits (%)

OEI Quintiles | CY 2015-2018 Yearly Comparison

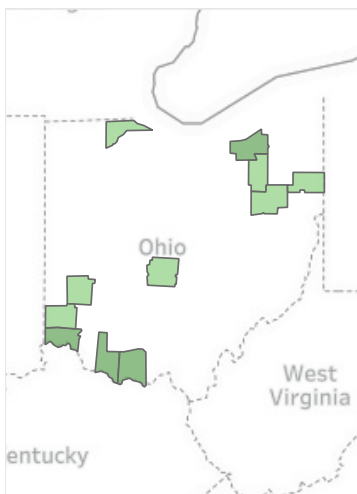
CY 2015



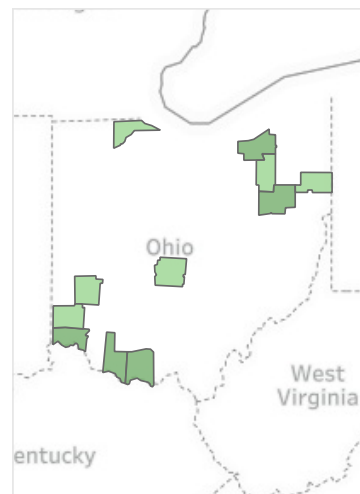
CY 2016



CY 2017



Q1 2018

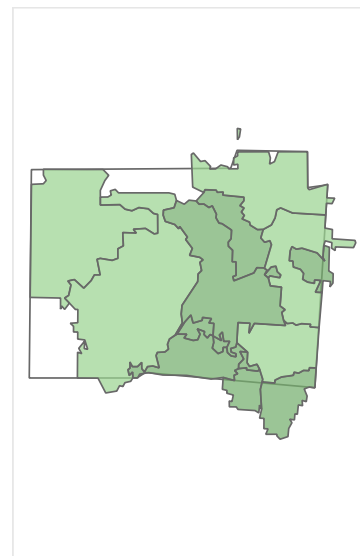
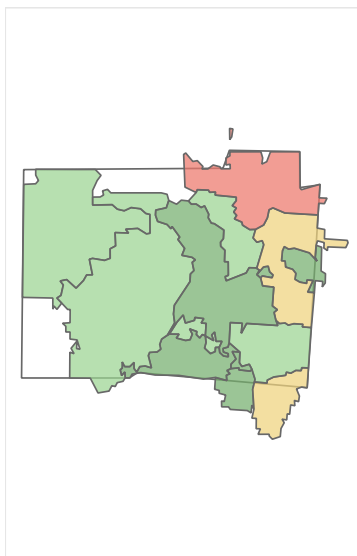
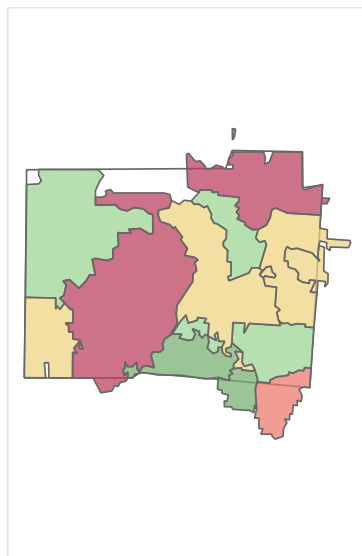
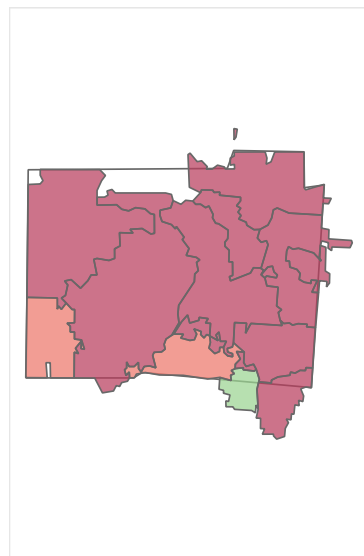


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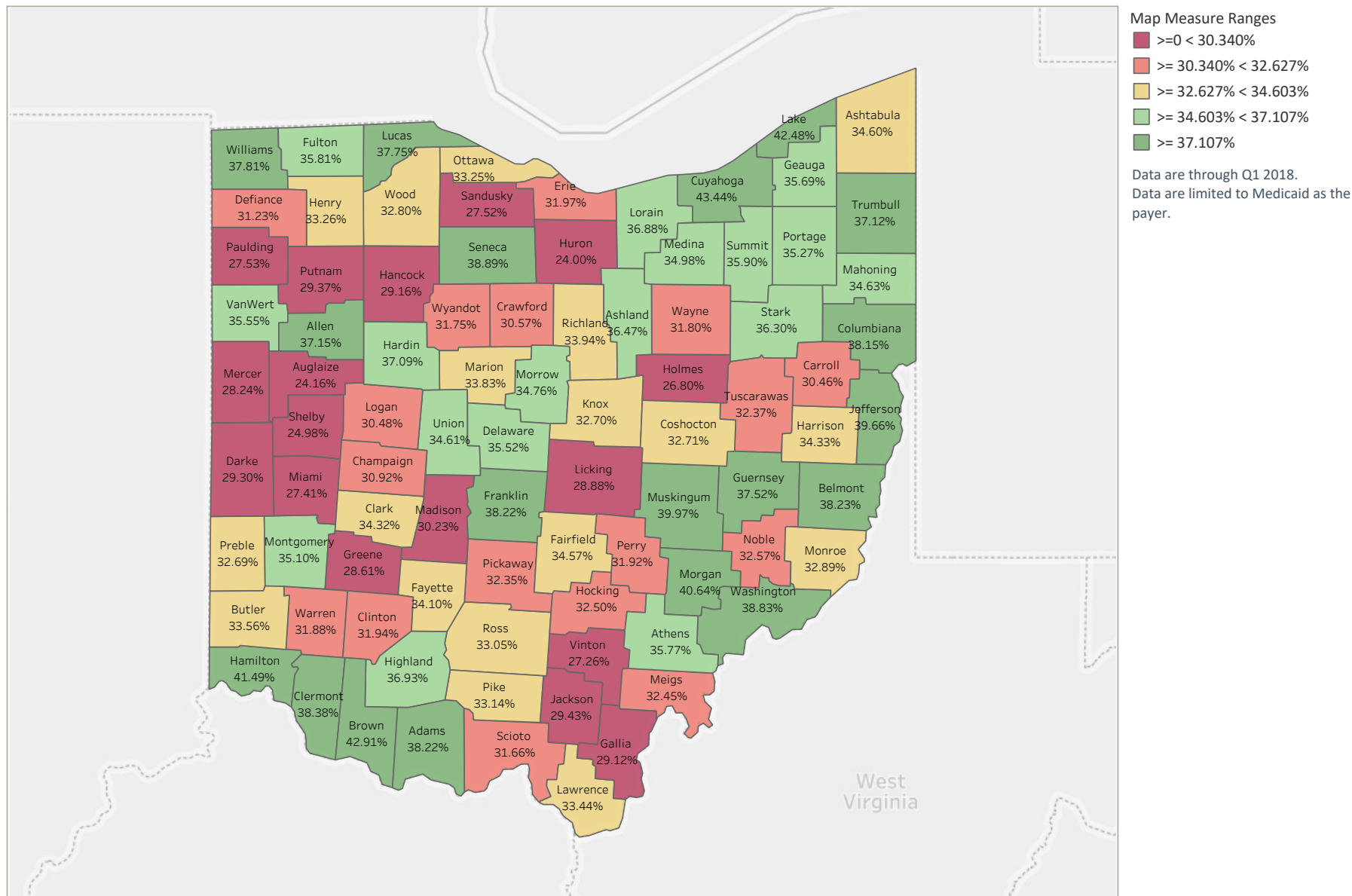
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Statewide - Adolescent Wellcare Visits (%)

Overall Quintiles by County | CY 2015 - 2018





Yearly Trends by MCP - Adolescent Wellcare Visits (%) All OEI Counties | CY 2015-2018

Medicaid Plan
All Plans

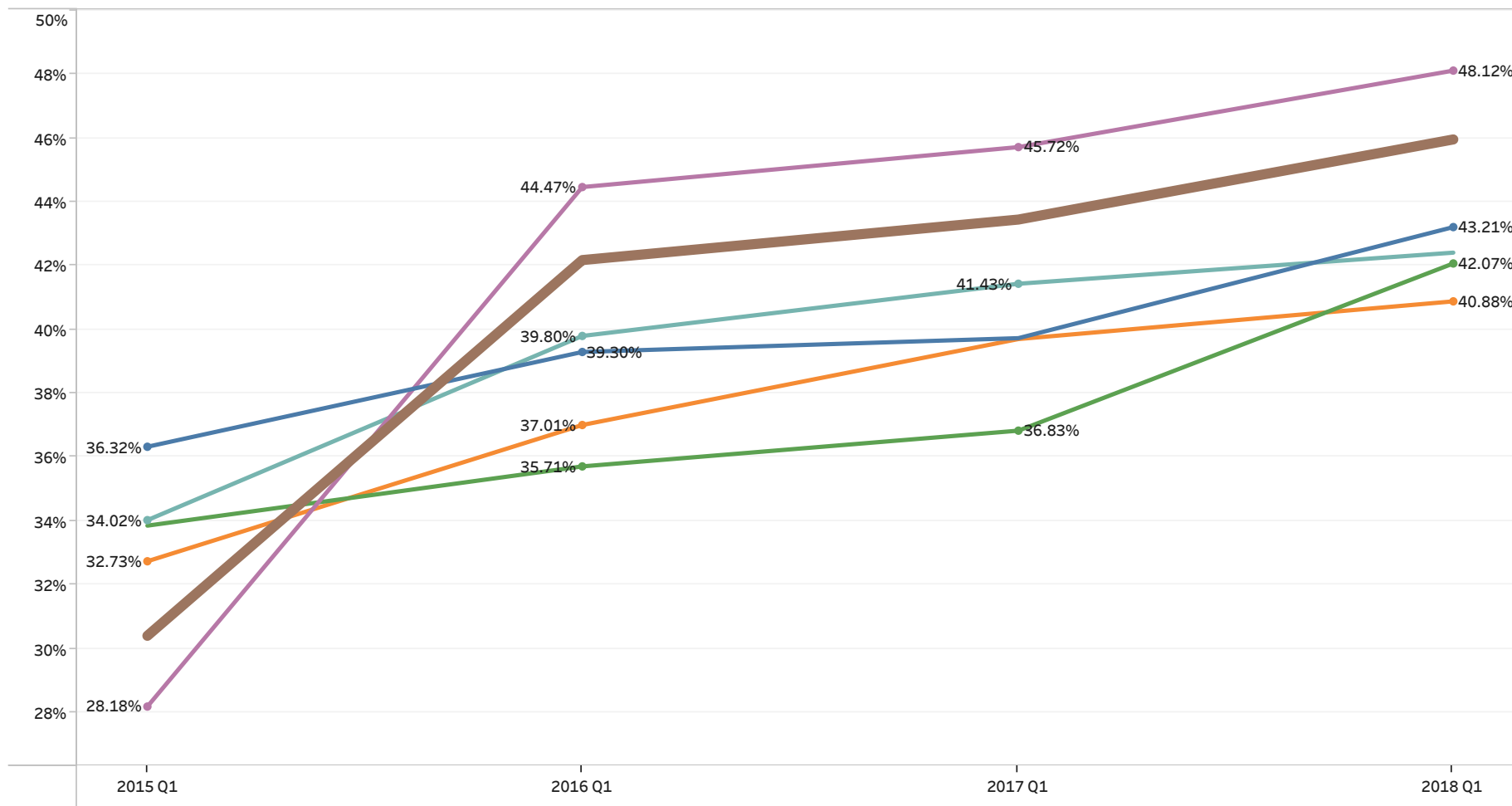
Buckeye

CareSource

Molina

Paramount

United



Data are through Q1 2018.

Data are limited to Medicaid as the payer.