Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

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Weekly Communicable Disease Report

Disease or Condition:

Malaria

Report for Week 50 of 2016
Run Date = 20DEC16

For DHSS and LPHA Internal Use Only.
Data Included in This Report is Provisional.

Data Source: Confirmed and Probable Cases of Diseases & Conditions entered into the Missouri Health Surveillance Information System (WEBSURV)

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Quartile Analysis of Year-to-date Counts for Week 50, 2016

Malaria

County	Week 50 YTD[1]	Week 49 YTD[1]	Week 48 YTD[1]	Five Year 1st Quartile	Five Year Median	Five Year 3rd Quartile	Change from Week 49 to Week 50	Change from Week 50 to 5-Year Median	Rate per 100,000 Week 50	Relative Rate Week 50	First Week Reported[2]	Last Week Reported
Cass	1	1	1	1	1	1	0.0%	0.0%	1.22	4.01	19	19
Cole	1	1	1	No Data	0	No Data	0.0%	0.0%	1.40	4.61	29	29
Franklin	1	1	1	No Data	0	No Data	0.0%	0.0%	1.07	3.51	33	33
Jackson	3	3	3	1	1	1	0.0%	200.0%	1.37	4.51	15	39
St Louis	3	3	3	4	6	6	0.0%	(50.0%)	0.30	0.97	20	29
St Louis City	3	3	3	1	2	3	0.0%	100.0%	0.86	2.84	39	45
Independence	2	1	1	1	1	1	100.0%	100.0%	1.77	5.81	22	50
Kansas City	3	3	3	2	3	3	0.0%	20.0%	0.68	2.24	8	42
Troop A Total	9	8	8	2	4	5	12.5%	125.0%	0.73	2.41	8	50
Troop C Total	7	7	7	8	8	10	0.0%	(12.5%)	0.16	0.54	20	45
Troop F Total	1	1	1	1	1	1	0.0%	0.0%	0.23	0.76	29	29
State Total	17	16	16	14	19	19	6.3%	(10.5%)	0.30	1.00	8	50

[1] *Analysis Results Legend:*

The Year-to-Date (YTD) count is above the 5-year median.
The Year-to-Date (YTD) count is above the 5-year 3rd quartile for a period of one or two weeks.
The Year-to-Date (YTD) count is above the 5-year 3rd quartile for a period of three weeks.
The Year-to-Date (YTD) count is above the 5-year Maximum.

[2] *First Week Reported in 2016*

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report for Week 50, 2016
Disease or Condition Analysis
Compared to Last Report run on 12/13/2016 for Week 49, 2016

Malaria

County	Data Status [1,2]	1st Week Reported Current Report	1st Week Reported Last Report	Change in Count	Week 50 Quartile Results [3]	Week 49 Quartile Results [4]	Data Trend Analysis [5]	Data Elevation Analysis [6]
Cass	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Cole	Old	29	29	0	Above Median	Above Median	Flat	Above Normal
Franklin	Old	33	33	0	Above Median	Above Median	Flat	Above Normal
Jackson	Old	15	15	0	Above Maximum	Above Maximum	Flat	Very Elevated
St Louis	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
St Louis City	Old	39	39	0	Above Median	Above Median	Flat	Above Normal
Independence	Old	22	22	1	Above Maximum	Below Median	Increase	Very Elevated
Kansas City	Old	8	8	0	Above Median	Above Median	Flat	Above Normal
Troop A Total	Old	8	8	1	Above Maximum	Above Maximum	Increase	Very Elevated
Troop C Total	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Troop F Total	Old	29	29	0	Below Median	Below Median	Flat	Below Normal
State Total	Old	8	8	1	Below Median	Below Median	Increase	Below Normal

[1] Data Status: Old=Continuing Occurence in 2016, New=First Occurence in 2016 and Out=Case was Removed from WEBSURV

[2] First Week Reported and/or First Occurence of Disease or Condition in 2016

[3] Week 50 Quartile Results are from the Current Report

[4] Week 49 Quartile Results are from the Last Report

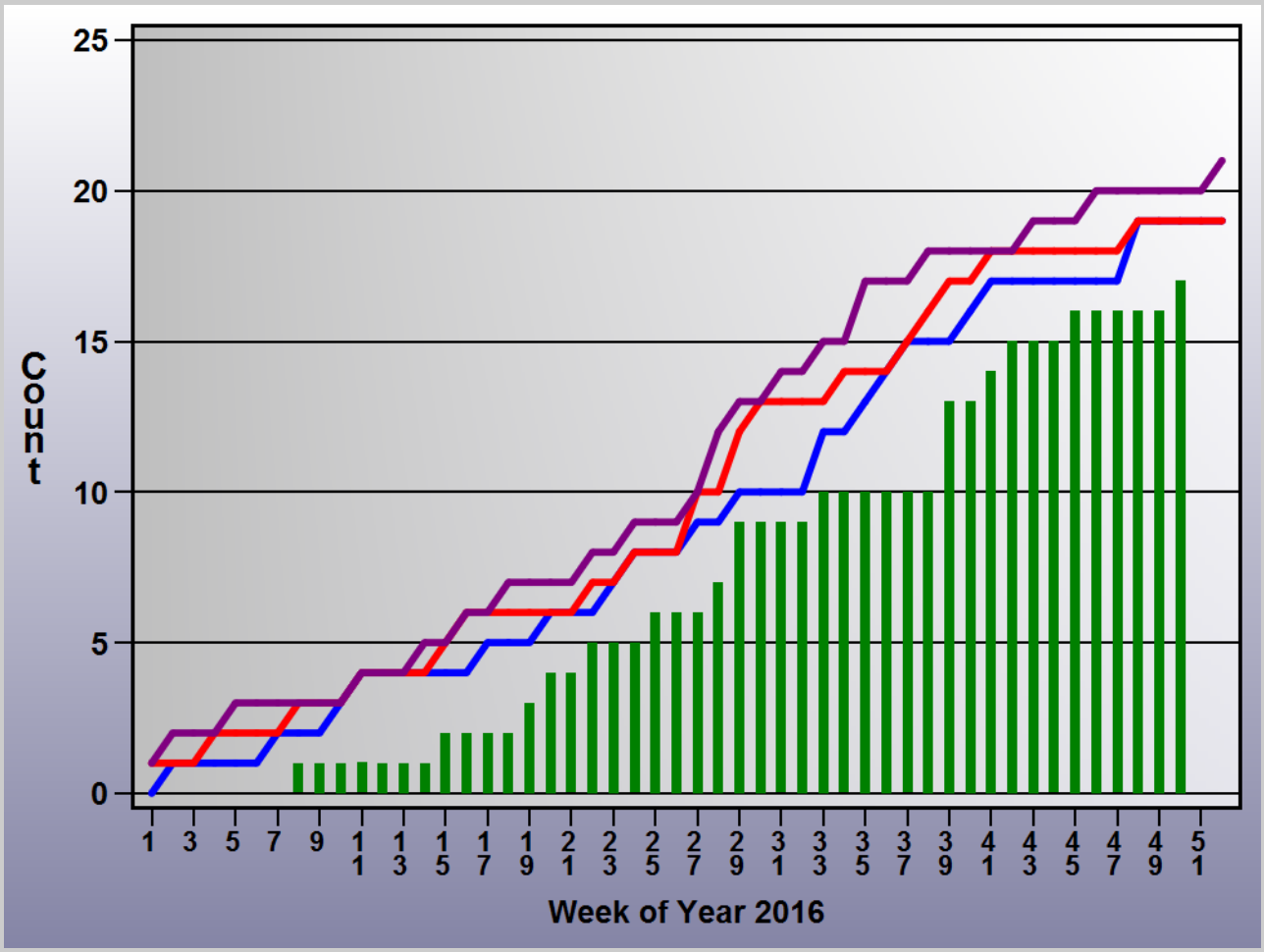
[5] Based on Change in Count Current Report vs Last Report

[6] Based on Quartile Analysis from Current Report where: Below Normal=below median, Above Normal= above median, Elevated=above 3rd quartile and Very Elevated=Above Maximum.

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Quartile Analysis of Year-to-Date Counts for Week 50, 2016

Malaria

YTD Count in 2016 *YTD Median (2011 to 2015)*
YTD Third Quartile (2011 to 2015) *YTD Maximum (2011 to 2015)*



Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Reports
Comparison of 4-week Count Mean for Week 50, 2016 with Historical Limits

Malaria

County	Analysis Results [1]	4-week Count Mean for Week 50 [2]	Upper Limit for Week 50 [3]	4-week Count Mean for Week 49 [2]	Upper Limit for Week 49 [3]	4-week Count Mean for Week 48 [2]	Upper Limit for Week 48 [3]
St Louis		0.0	0.2	0.0	0.3	0.0	0.4
St Louis City		0.0	0.1	0.0	0.2	0.3	0.2
Kansas City		0.0	0.1	0.0	0.1	0.0	0.1
Troop A Total		0.3	0.3	0.0	0.3	0.0	0.2
Troop C Total		0.0	0.4	0.0	0.4	0.3	0.5
State Total		0.3	0.7	0.0	0.7	0.3	0.8

[1] *Analysis Results Legend for Week 50:*

The 4-week Count mean is between the Historical Mean and the Historical Mean plus 1 Std. Dev.
The 4-week Count mean is between the Historical Mean plus 1 Std. Dev. and the Historical Mean plus 2 Std. Dev.
The 4-week Count mean is between the Historical Mean plus 2 Std. Dev. and the Historical Mean plus 3 Std. Dev.
The 4-week Count mean is above the Historical Mean plus 3 Std. Dev.

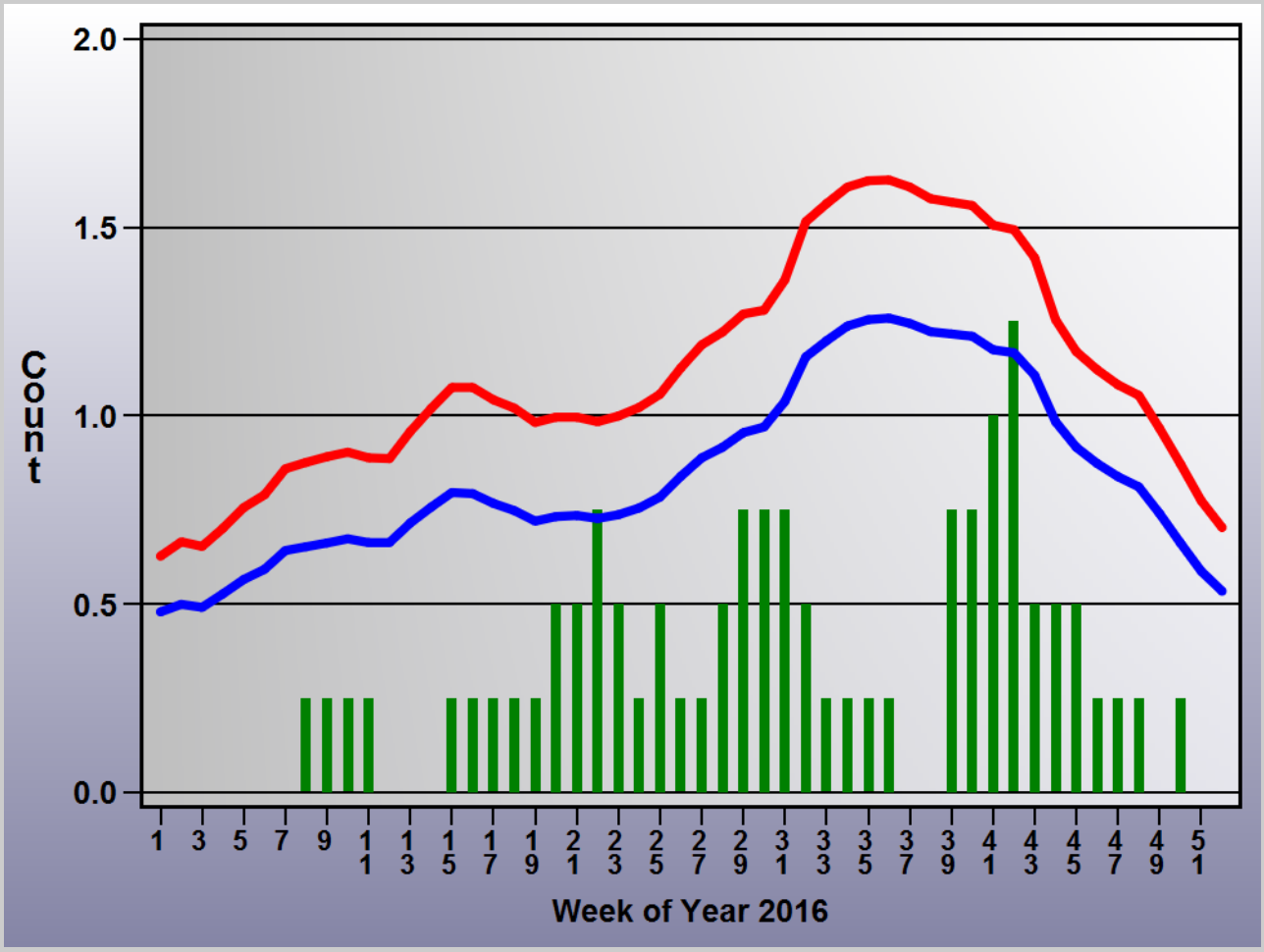
[2] *4-week Count mean based on the current and 3 previous weeks.*

[3] *The Historical Count mean plus two standard deviations based on the current week, 7 previous weeks and 4 subsequents or leading weeks for the past five years.*

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report for
Comparison of Confirmed and Probable 4-week Count Mean Week 50, 2016

Malaria

4-week Count Mean *Historical Limit(2 std)* *Historical Limit(3 std)*



4-week count mean based on the current and 3 previous weeks

The mean plus two standard deviations based on the current week, 7 previous weeks and 4 subsequents or leading weeks for the past five years

The mean plus three standard deviations based on the current week, 7 previous weeks and 4 subsequents or leading weeks for the past five years

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Year-to-Date Counts and Rates for Week 50 , 2016

Malaria

County	Week 50 YTD	Week 50 Rate[1]	Week 50 Relative Rate[2]	Change in Count From Current Report[3]	Change in Count From Last Report[4]
Cass	1	1.2	4.0	0	0
Cole	1	1.4	4.6	0	0
Franklin	1	1.1	3.5	0	0
Jackson	3	1.4	4.5	0	0
St Louis	3	0.3	1.0	0	0
St Louis City	3	0.9	2.8	0	0
Independence	2	1.8	5.8	1	1
Kansas City	3	0.7	2.2	0	0

[1] *Rates are Year-to-Date Counts per 100,000 population for Week 50, 2016*

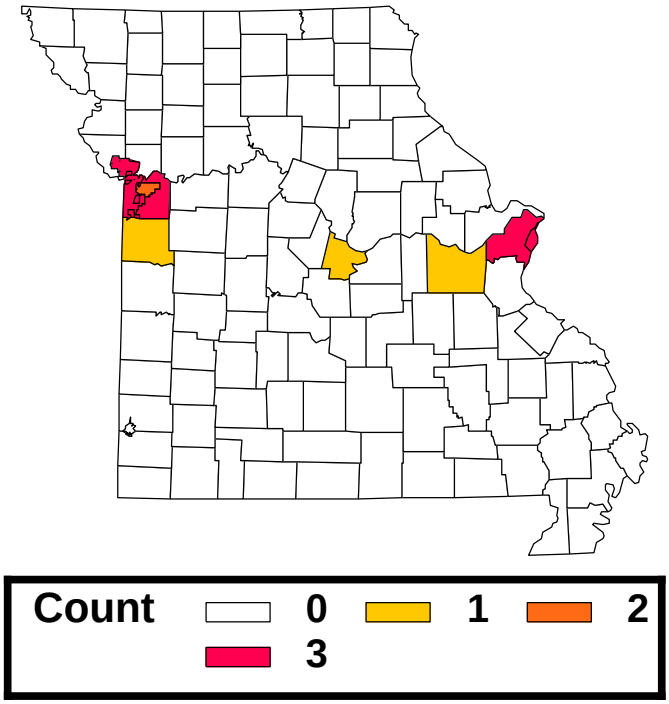
[2] *The relative rate is computed as the county or district rate divided by the overall state rate*

[3] *Current Report was run on 12/20/2016 for Week 50, 2016*

[4] *Last Report was run on 12/13/2016 for Week 49, 2016*

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
YTD Count for Week 50, 2016
Malaria

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
YTD Count for Week 50, 2016
Malaria



Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Rates for Week 50, 2016
Malaria

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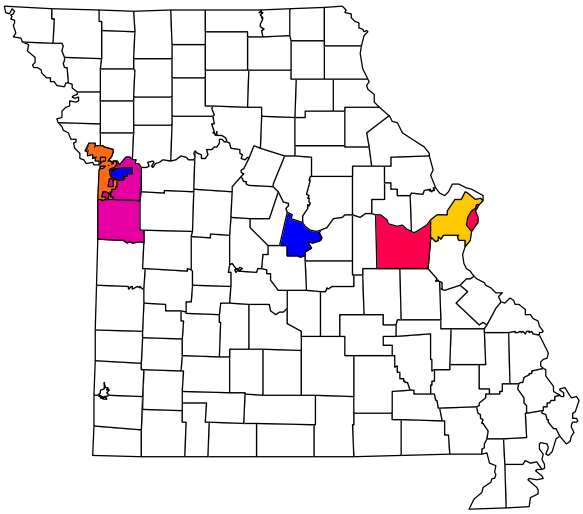
Weekly Communicable Disease Report
Rates for Week 50, 2016
Malaria



Rate			
	0.0 - 0.0	0.3 - 0.3	0.7 - 0.7
	0.9 - 1.1	1.2 - 1.4	1.4 - 1.8

Rates are Year-to-Date Counts per 100,000 population for Week 50, 2016

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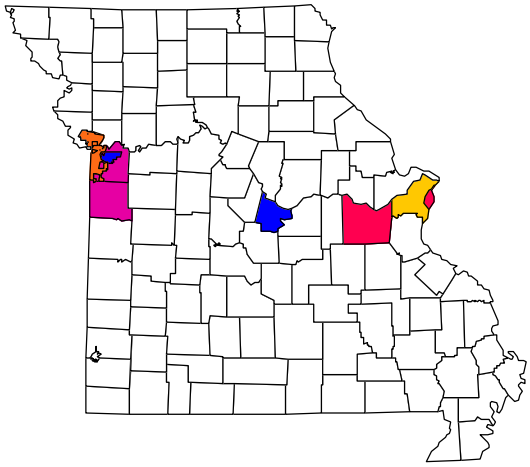
Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Relative Rates for Week 50, 2016
Malaria

State Rate per 100,000 = 0.3

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Relative Rates for Week 50, 2016
Malaria
State Rate per 100,000 = 0.3



Relative Rates			
	0.0 - 0.0	1.0 - 1.0	2.2 - 2.2
	2.8 - 3.5	4.0 - 4.5	4.6 - 5.8

The relative rate is computed as the county or district rate divided by the overall state rate

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Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Change in Count Compared to Last Report
Malaria

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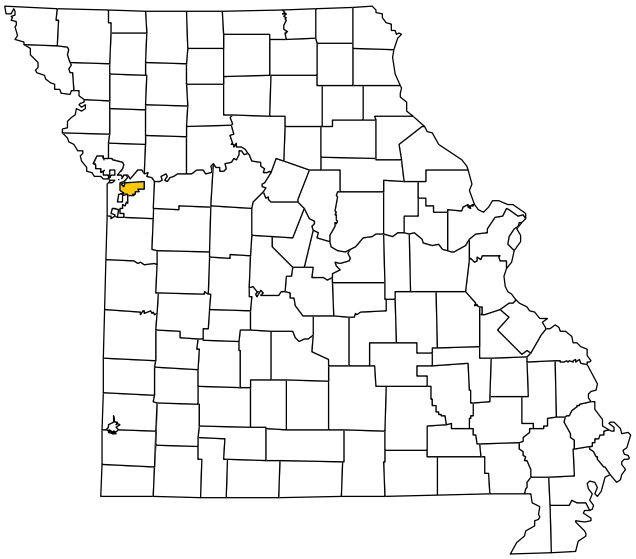
Weekly Communicable Disease Report
Change in Count Compared to Last Report
Malaria



Change in Count 0 1

Last Report was run on 12/13/2016 for Week 49, 2016

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Change in Count for Week 50, 2016
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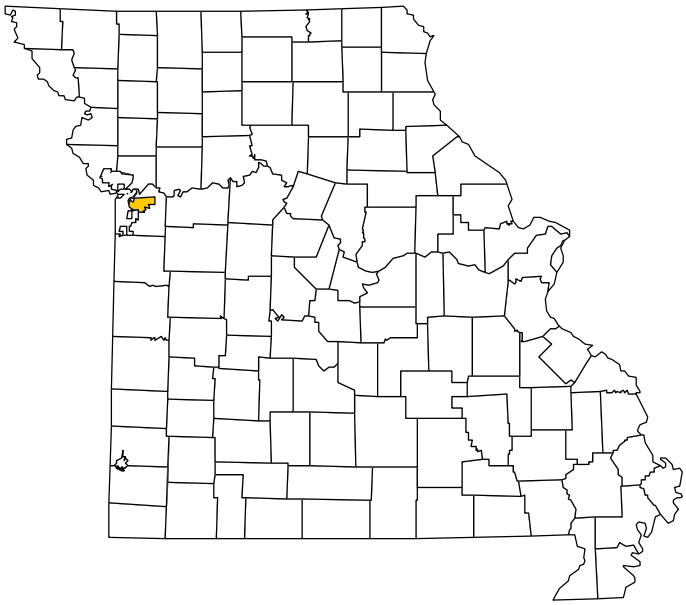
Malaria



Change in Count 0 1

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Reports
Cross Tabulations of YTD Count for Week 50, 2016
State of Missouri
Malaria

Age and Gender		Black	White	Unknown	All
2 to 14	Female	1			1
	Male	2			2
	All	3			3
15 to 24					
	Female	1			1
	Male		2		2
	All	1	2		3
25 to 34					
	Female	1			1
	Male	3			3
	All	4			4
35 to 44					
	Female		1		1
	All		1		1
45 to 54					
	Female	1			1
	Male	2			2
	All	3			3
55 to 64					
	Female			1	1
	Male	1			1
	All	1		1	2
65 plus					
	Male	1			1
	All	1			1
All		13	3	1	17

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Cross Tabulations of YTD Count for Week 50, 2016
State of Missouri
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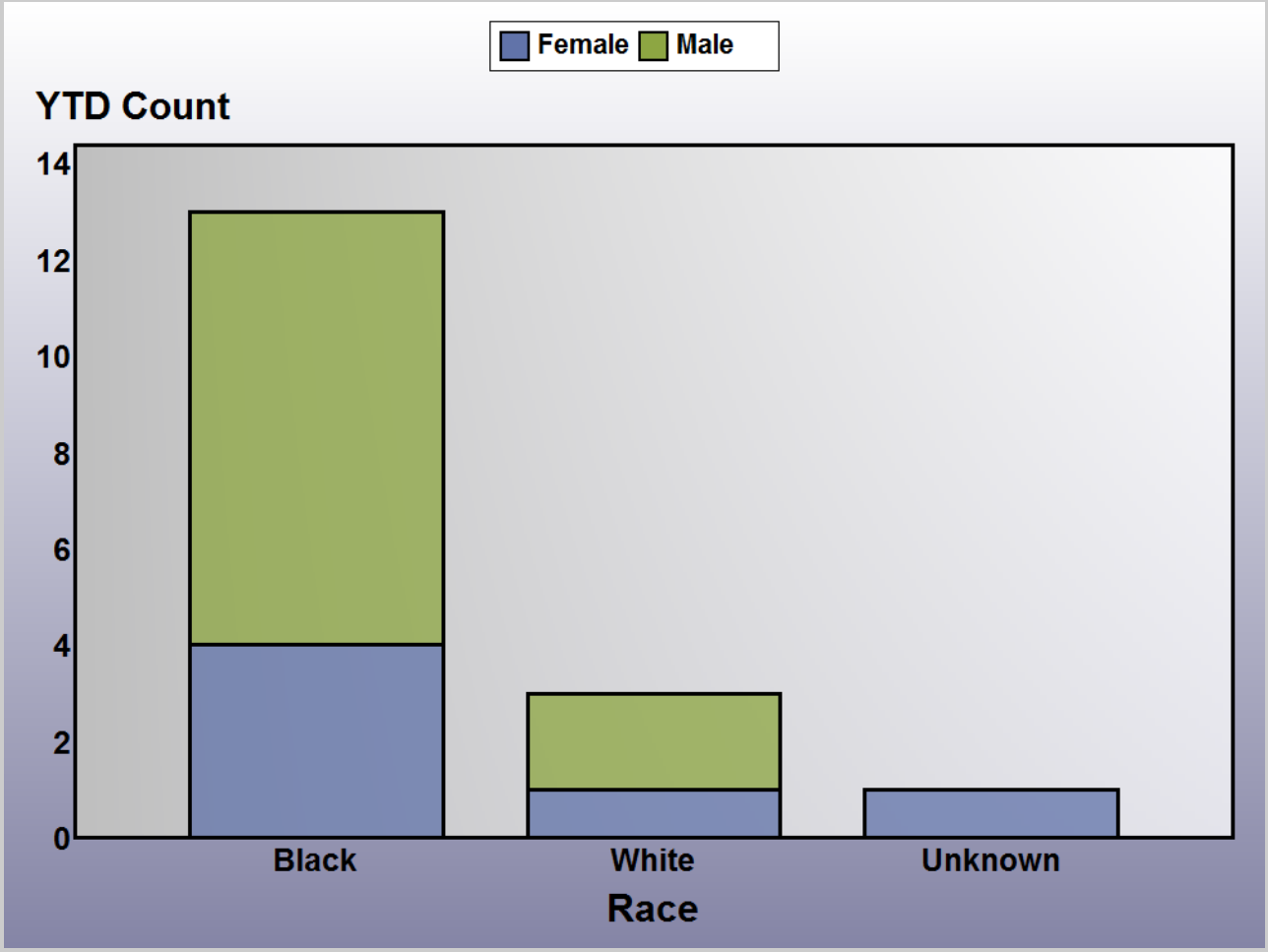
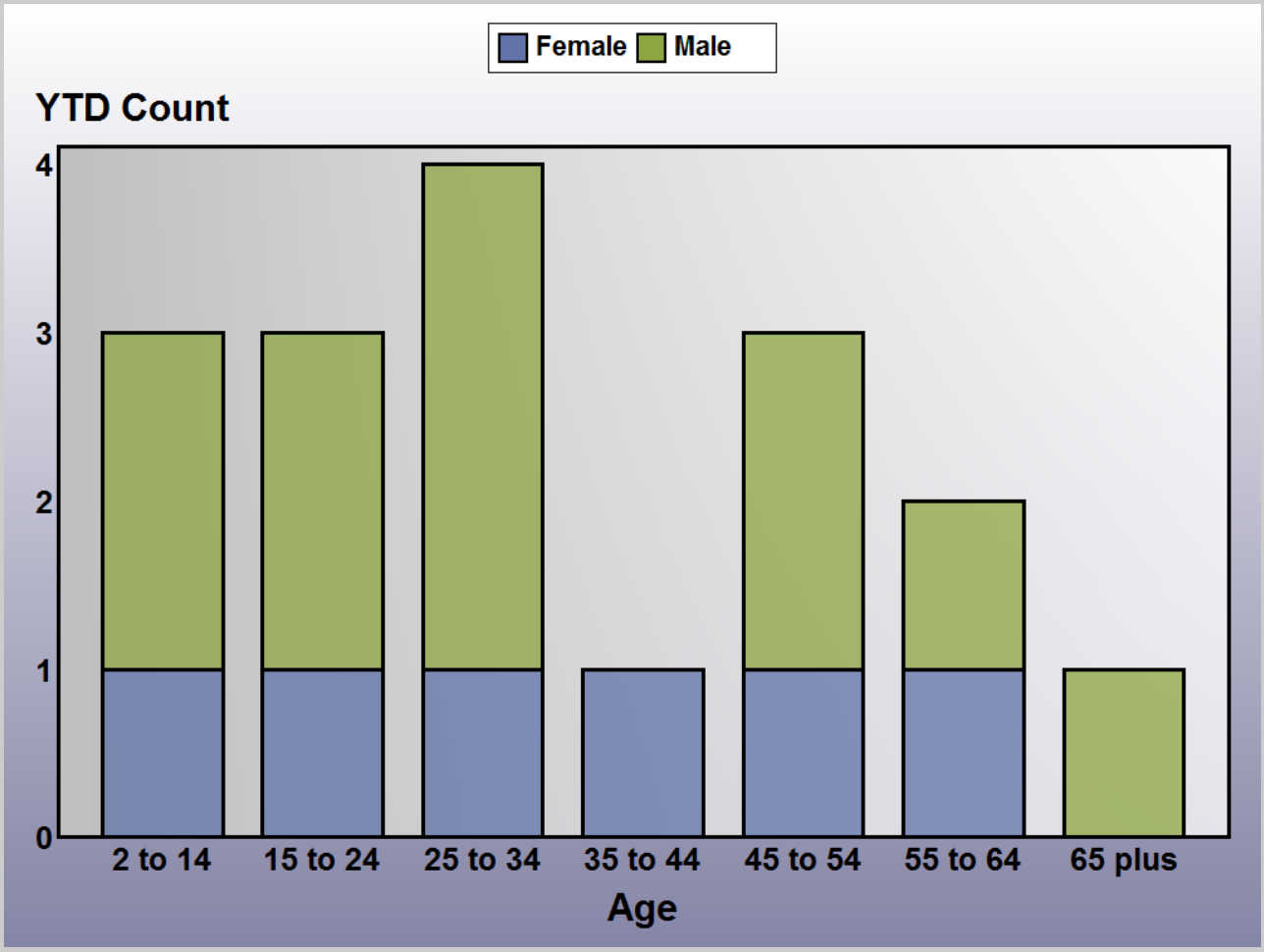
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