

Butler County Single-Lane Modern Roundabouts

Before/After Statistics

(Data compiled thru 2021)

Lakota Drive West & Eagleridge Road								
Opened - September 2008								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	9,700	01/2004-06/2008	4.5	19	4.2	4	0.9	0
After Data	9,000	2009-2021	13	28	2.2	2	0.2	0
% Reduction					49%		83%	N/A
Comments: 13 crashes involved fixed objects.								

Hamilton Mason Road & Liberty Fairfield Road								
Opened - November 2008								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	11,200	01/2003-08/2008	5.67	55	9.7	13	2.3	1
After Data	11,200	2009-2021	13	24	1.8	4	0.3	0
% Reduction					81%		87%	100%
Comments: About half of crashes are single-vehicle Failure to Control								

Jacksonburg Road & Morgenthaler Road								
Opened - December 2010								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	2,700	01/2006-06/2010	4.5	13	2.9	5	1.1	1
After Data	2,300	2011-2021	11	2	0.2	1	0.1	0
% Reduction					94%		92%	100%
Comments: After crashes involved bicycle (injury) and snow covered road.								

Trenton Road & Busenbark Road								
Opened - August 2011								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	8,200	01/2006-05/2011	5.4167	7	1.3	2	0.4	0
After Data		09/2011-2021	10.33	11	1.1	4	0.4	0
% Reduction					18%		-5%	#DIV/0!
Comments: Majority of after-crashes involved curve prior to RAB. Chevrons installed mm/yy.								

Kyles Station Road & LeSourdsville West Chester Road								
Opened - August 2012								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	7,000	01/2008-05/2012	4.4167	8	1.8	2	0.5	0
After Data	8,400	09/2012-2021	9.33	7	0.8	2	0.2	0
% Reduction					59%		53%	#DIV/0!
Comments: 5 of 7 fixed object								

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Yankee Road & Kyles Station Road								
Opened - August 2013								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	7,100	01/2009-05/2013	4.4167	8	1.8	3	0.7	0
After Data	7,400	09/2013-2021	8.33	12	1.4	1	0.1	0
% Reduction					20%		82%	#DIV/0!
Comments: All-way stop control installed October 2010 prior to RAB.								

Millikin Road & Mauds Hughes Road								
Opened - August 2013								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	5,100	01/2009-06/2013	4.5	6	1.3	3	0.7	0
After Data	7,800	09/2013-2021	8.33	8	1.0	1	0.1	0
% Reduction					28%		82%	#DIV/0!
Comments: All-way stop control installed October 2010 prior to RAB.								

SR 748 & Layhigh Road								
Opened - September 2015								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	2,750	01/2011-06/2015	4.5	11	2.4	8	1.8	0
After Data	2,750	10/2015-2021	6.25	4	0.6	0	0.0	0
% Reduction					74%		100%	#DIV/0!
Comments: Had been ranked #1 on BCEO's crash rate list. ODOT-maintained.								

Eaton Road & Beissinger Road								
Opened -October 2015								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	5,650	01/2011-06/2015	4.5	14	3.1	8	1.8	0
After Data	6,400	11/2015-2021	6.167	7	1.1	1	0.2	0
% Reduction					64%		91%	#DIV/0!
Comments: Converted two-way stop control. 5 of 7 after involved fixed object.								

Cin-Day Road & Kyles Station Road								
Opened -September 2016								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	14,020	01/2011-05/2016	5.4167	52	9.6	13	2.4	0
After Data	13,850	10/2016-2021	5.25	20	3.8	5	1.0	0
% Reduction					60%		60%	#DIV/0!
Comments: Converted traffic signal without left turn lanes.								

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Princeton Road & Yankee Road								
Opened -Late 2017								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	13,100	2013-06/2017	4.5	19	4.2	4	0.9	0
After Data	15,700	2018-2021	4	7	1.8	0	0.0	0
% Reduction					59%		100%	#DIV/0!
Comments: Converted all-way stop control to RAB.								

Smith Road & Beckett Road								
Opened -May 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	16,800	2013-2017	5	12	2.4	6	1.2	0
After Data	18,670	05/2018-2021	3.583	13	3.6	0	0.0	0
% Reduction					-51%		100%	#DIV/0!
Comments: Converted signal control. After: 3 fixed object, 3 rear end, 2 angle, 1 sideswipe-passing								

Yankee Road & Millikin Road								
Opened -August 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	9,450	2013-05/2018	5.4167	13	2.4	5	0.9	0
After Data	9,520	9/2018-2021	3.33	2	0.6	0	0.0	0
% Reduction					75%		100%	#DIV/0!
Comments: Converted all-way stop control.								

Hamilton Mason Road & LeSourdsville West Chester Road								
Opened -August 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data	13,300	2013-05/2018	5.4167	28	5.2	7	1.3	0
After Data	13,430	09/2018-2021	3.33	13	3.9	1	0.3	0
% Reduction					24%		77%	#DIV/0!
Comments: Converted all-way stop control.								

Hamilton Mason Road & Gilmore Road								
Opened - November 2019								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data		2014-2019	5	21	4.2	10	2.0	0
After Data		11/2019-2021	2.167	5	2.3	1	0.5	0
% Reduction					45%		77%	#DIV/0!
Comments: Realigned two offset intersections.								

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OVERALL TOTALS								
15 Single-Lane Roundabouts								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data		2003-2019	73.17	286	3.9	93	1.3	2
After Data		2008-2021	107.40	163	1.5	23	0.2	0
% Reduction					61%		83%	100%
Comments:								