

Butler County Single-Lane Modern Roundabouts Before/After Statistics

(Data compiled thru 2023)

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	2009-2023	15	33	2.2	5	0.3	0
% Reduction					48%		63%	N/A
Comments: Fifteen 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	2009-2023	15	29	1.9	4	0.3	0
% Reduction					80%		88%	100%
Comments: Converted signal control & realignment. 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	2011-2023	13	2	0.2	1	0.1	0
% Reduction					95%		93%	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		09/2011-2023	12.33	14	1.1	4	0.3	0
% Reduction					12%		12%	#DIV/0!
Comments: Majority of after-crashes involved curve prior to RAB. Chevrons installed May 2016.								

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	09/2012-2023	11.33	7	0.6	2	0.2	0
% Reduction					66%		61%	#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	09/2013-2023	10.33	15	1.5	1	0.1	0
% Reduction					20%		86%	#DIV/0!
Comments: AWSC 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	09/2013-2023	10.33	11	1.1	3	0.3	0
% Reduction					20%		56%	#DIV/0!
Comments: AWSC installed October 2010 prior to RAB.								

SR 748 & Layhigh Road (ODOT Maintains)								
Opened - September 2015								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	2,750	01/2011-06/2015	4.5	11	2.4	8	1.8	1
After Data	2,750	10/2015-2023	8.25	7	0.8	0	0.0	0
% Reduction					65%		100%	100%
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	Serious Injury/Fatal
Before Data	5,650	01/2011-06/2015	4.5	14	3.1	8	1.8	1
After Data	6,400	11/2015-2023	8.167	10	1.2	1	0.1	0
% Reduction					61%		93%	100%
Comments: 6 of 10 after involved fixed object.								

Cin-Day Road & Kyles Station Road								
Opened -September 2016								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	14,020	01/2011-05/2016	5.4167	52	9.6	13	2.4	1
After Data	13,850	10/2016-2023	7.25	27	3.7	8	1.1	0
% Reduction					61%		54%	100%
Comments: Converted traffic signal without left turn lanes. (AFTER: 2 OVI, 1 Fell Asleep)								

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Princeton Road & Yankee Road Opened -Late 2017								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	13,100	2013-06/2017	4.5	19	4.2	4	0.9	0
After Data	15,700	2018-2023	6	16	2.7	1	0.2	1
% Reduction					37%		81%	#DIV/0!
Comments: Converted AWSC								

Beckett Road & Smith Road Opened -May 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	16,800	2013-2017	5	12	2.4	6	1.2	1
After Data	18,670	05/2018-2023	5.583	16	2.9	1	0.2	0
% Reduction					-19%		85%	100%
Comments: Converted signal control. After: 5 fixed object, 4 rear end, 3 angle, 2 sideswipe-passing, 2 backing								

Yankee Road & Millikin Road Opened -August 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	9,450	2013-05/2018	5.4167	13	2.4	5	0.9	1
After Data	9,520	9/2018-2023	5.33	4	0.8	1	0.2	0
% Reduction					69%		80%	100%
Comments: Converted AWSC								

Hamilton Mason Road & LeSourdsville West Chester Road Opened -August 2018								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data	13,300	2013-05/2018	5.4167	28	5.2	7	1.3	2
After Data	13,430	09/2018-2023	5.33	21	3.9	2	0.4	0
% Reduction					24%		71%	100%
Comments: Converted AWSC								

Hamilton Mason Road & Gilmore Road Opened - November 2019								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2014-2018	5	21	4.2	10	2.0	1
After Data		11/2019-2023	4.167	8	1.9	1	0.2	0
% Reduction					54%		88%	100%
Comments: Aligned two offset intersections.								

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Lesourdsville West Chester Rd & Beckett Ridge Blvd Opened - August 2020								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2015-2019	5	25	5.0	11	2.2	1
After Data		9/2020-2023	3.25	9	2.8	1	0.3	0
% Reduction					45%		86%	100%
Comments: After - (1) OVI, (1) Fog, (1) Tow Truck passing disabled veh								

SR 73 & Jacksonburg Road (ODOT Maintains) Opened - April 2021								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2015-08/2020	5.67	48	8.5	23	4.1	6
After Data		4/2021-2023	2.75	11	4.0	2	0.7	0
% Reduction					53%		82%	100%
Comments:								

Butler Warren Rd & West Chester Rd/Socialville Foster Rd Opened - August 2021								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2016-05/2021	5.417	48	8.9	9	1.7	0
After Data		8/2021-2023	2.417	9	3.7	0	0.0	0
% Reduction					58%		100%	#DIV/0!
Comments: Aligned two offset intersections								

Millikin Rd & Lesourdsville West Chester Rd/Pinckney Trail Opened - August 2021								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2016-05/2021	5.417	14	2.6	6	1.1	2
After Data		8/2021-2023	2.417	4	1.7	0	0.0	0
% Reduction					36%		100%	100%
Comments:								

Butler Warren Rd & Barret Rd/Western Row Rd Opened - September 2021								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2016-03/2021	5.25	114	21.7	28	5.3	0
After Data		9/2021-2023	2.33	11	4.7	2	0.9	0
% Reduction					78%		84%	#DIV/0!
Comments: Converted AWSC								

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US 127 and SR 73 (ODOT Maintains)								
Opened - Late 2021								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2016-2020	5	17	3.4	5	1.0	1
After Data		2022-2023	2	11	5.5	1	0.5	0
% Reduction					-62%		50%	100%
Comments: Seven into center island								

Hamilton Mason Rd & Tylersville Rd (Five Points)								
Opened - Late July 2022								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2016-2021	6	65	10.8	18	3.0	2
After Data		8/2022-2023	1.417	25	17.6	9	6.4	0
% Reduction					-63%		-112%	100%
Comments: Converted Signal Control. 14/25 (56%) FTY from Grand Ave.								

OVERALL TOTALS								
22 Single-Lane Roundabouts								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Serious Injury/Fatal
Before Data		2003-2021	110.92	617	5.6	193	1.7	22
After Data		2008-2023	153.98	300	1.9	50	0.3	1
% Reduction					65%		81%	95%
Comments:								