

## Butler County Single-Lane Modern Roundabouts

### Before/After Statistics

(Data compiled thru 2019)

<b>Lakota Drive West &amp; Eagleridge Road</b>								
<b>Opened - September 2008</b>								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
<b>Before Data</b>	9,700	01/2004-06/2008	4.5	19	4.2	4	0.9	0
<b>After Data</b>	9,000	2009-2019	11	25	2.3	2	0.2	0
<b>% Reduction</b>					46%		80%	N/A
<b>Comments:</b> Ten crashes involved fixed objects.								

<b>Hamilton Mason Road &amp; Liberty Fairfield Road</b>								
<b>Opened - November 2008</b>								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
<b>Before Data</b>	11,200	01/2003-08/2008	5.67	55	9.7	13	2.3	1
<b>After Data</b>	11,200	2009-2019	11	21	1.9	3	0.3	0
<b>% Reduction</b>					80%		88%	100%
<b>Comments:</b> About half of crashes are single-vehicle Failure to Control								

<b>Jacksonburg Road &amp; Morgenthaler Road</b>								
<b>Opened - December 2010</b>								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
<b>Before Data</b>	2,700	01/2006-06/2010	4.5	13	2.9	5	1.1	1
<b>After Data</b>	2,300	2011-2019	9	2	0.2	1	0.1	0
<b>% Reduction</b>					92%		90%	100%
<b>Comments:</b> After crashes involved bicycle (injury) and snow covered road.								

<b>Trenton Road &amp; Busenbark Road</b>								
<b>Opened - August 2011</b>								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
<b>Before Data</b>	8,200	01/2006-05/2011	5.4167	7	1.3	2	0.4	0
<b>After Data</b>		09/2011-2019	8.33	9	1.1	4	0.5	0
<b>% Reduction</b>					16%		-30%	#DIV/0!
<b>Comments:</b> Majority of after-crashes involved curve prior to RAB. Chevrons installed mm/yy.								

<b>Kyles Station Road &amp; LeSourdsville West Chester Road</b>								
<b>Opened - August 2012</b>								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
<b>Before Data</b>	7,000	01/2008-05/2012	4.4167	8	1.8	2	0.5	0
<b>After Data</b>	8,400	09/2012-2019	7.33	4	0.5	2	0.3	0
<b>% Reduction</b>					70%		40%	#DIV/0!
<b>Comments:</b>								

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<b>Yankee Road &amp; Kyles Station Road</b>								
<b>Opened - August 2013</b>								
	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	09/2013-2019	6.33	10	1.6	1	0.2	0
% Reduction					13%		77%	#DIV/0!
<b>Comments:</b> All-way stop control installed October 2010 prior to RAB.								

<b>Millikin Road &amp; Mauds Hughes Road</b>								
<b>Opened - August 2013</b>								
	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	09/2013-2019	6.33	6	0.9	1	0.2	0
% Reduction					29%		76%	#DIV/0!
<b>Comments:</b> All-way stop control installed October 2010 prior to RAB.								

<b>SR 748 &amp; Layhigh Road</b>								
<b>Opened - September 2015</b>								
	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	10/2015-2019	4.25	2	0.5	0	0.0	0
% Reduction					81%		100%	#DIV/0!
<b>Comments:</b> Had been ranked #1 on BCEO's crash rate list. ODOT-maintained.								

<b>Eaton Road &amp; Beissinger Road</b>								
<b>Opened -October 2015</b>								
	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	11/2015-2019	4.167	4	1.0	0	0.0	0
% Reduction					69%		100%	#DIV/0!
<b>Comments:</b> Converted two-way stop control.								

<b>Cin-Day Road &amp; Kyles Station Road</b>								
<b>Opened -September 2016</b>								
	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	10/2016-2019	3.25	14	4.3	2	0.6	0
% Reduction					55%		74%	#DIV/0!
<b>Comments:</b> Converted traffic signal without left turn lanes.								

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(Data compiled thru 2019)

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	2019-2019	2	5	2.5	1	0.5	0
% Reduction					41%		44%	#DIV/0!
<b>Comments:</b> 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	05/2018-2019	1.583	9	5.7	0	0.0	0
% Reduction					-137%		100%	#DIV/0!
<b>Comments:</b> 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	9/2018-2019	1.33	2	1.5	0	0.0	0
% Reduction					37%		100%	#DIV/0!
<b>Comments:</b> 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	09/2018-2019	1.33	10	7.5	1	0.8	0
% Reduction					-45%		42%	#DIV/0!
<b>Comments:</b> Converted all-way stop control.								

OVERALL TOTALS 14 Single-Lane Roundabouts								
	ADT	Dates	Years	All Crashes	Crash/year	Injury	Inj/year	Fatal
Before Data		2003-2018	68.17	265	3.9	83	1.2	2
After Data		2008-2019	77.23	123	1.6	18	0.2	0
% Reduction					59%		81%	100%
<b>Comments:</b>								