

## Butler County Single-Lane Modern Roundabouts

### Before/After Statistics

(Data compiled thru 2018)

<b>Hamilton Mason Road &amp; Liberty Fairfield Road (ADT=11,200 vpd)</b>		
	<b>Before (01/2003-08/2008)</b>	<b>After (2009-2018)</b>
Total Crashes / Per year (% reduction)	55 / 9.5 per year	21 / 2.1 per year (78%)
Injury Crashes (% reduction)	13	3 (87%)
Fatal Crashes (% reduction)	1	0 (100%)
Comments: 45% of after crashes are single-vehicle Failure to Control		

<b>Lakota Drive West &amp; Eagleridge Road (ADT=9,700 vpd)</b>		
	<b>Before (01/2004-06/2008)</b>	<b>After (2009-2018)</b>
Total Crashes / Per year (% reduction)	19 / 4.22 per year	24 / 2.4 per year (43%)
Injury Crashes (% reduction)	4	2 (77%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: 10 crashes involved fixed object (Sign=5, Curb=4, Light Pole=1)		

<b>Jacksonburg Road &amp; Morgenthaler Road (ADT=2,700 vpd)</b>		
	<b>Before (01/2006-06/2010)</b>	<b>After (2011-2018)</b>
Total Crashes / Per year (% reduction)	13 / 2.9 per year	2 / 0.25 per year (91%)
Injury Crashes (% reduction)	5	1 (88%)
Fatal Crashes (% reduction)	1	0 (100%)
Comments: After crashes involved bicycle (injury) and snow covered road contributed to other crash		

<b>Trenton Road &amp; Busenbark Road (ADT=8,200 vpd)</b>		
	<b>Before (01/2006-05/2011)</b>	<b>After (09/2011-12/2018)</b>
Total Crashes / Per year (% reduction)	7 / 1.3 per year	9 / 1.2 per year (8%)
Injury Crashes (% reduction)	2	4 (0%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments:		

<b>Kyles Station Road &amp; LeSourdsville West Chester Road (ADT=8,400 vpd)</b>		
	<b>Before (01/2008-05/2012)</b>	<b>After (09/2012-12/2018)</b>
Total Crashes / Per year (% reduction)	8 / 1.8 per year	4 / 0.63 per year (65%)
Injury Crashes (% reduction)	2	2 (26%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: Three crashes involved alcohol, struck sign, and 2 rear-end		

<b>Yankee Road &amp; Kyles Station Road (ADT=7,400 vpd)</b>		
	<b>Before (01/2009-05/2013)</b>	<b>After (09/2013-12/2018)</b>
Total Crashes / Per year (% reduction)	8 / 1.8 per year	9 / 1.7 per year (6%)
Injury Crashes (% reduction)	3	1 (71%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: All-way stop installed October 2010 prior to roundabout		

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<b>Millikin Road &amp; Mauds Hughes Road (ADT=7,790 vpd)</b>		
	<b>Before (01/2009-06/2013)</b>	<b>After (09/2013-12/2018)</b>
Total Crashes / Per year (% reduction)	6 / 1.33 per year	5 / 0.94 per year (29%)
Injury Crashes (% reduction)	3	1 (70%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: All-way stop installed October 2010 prior to roundabout. Alcohol involved in 1 of after crash		

<b>S.R. 748 &amp; Layhigh Road (ADT=2,750 vpd)</b>		
	<b>Before (01/2011-06/2015)</b>	<b>After (10/2015-12/2018)</b>
Total Crashes / Per year (% reduction)	11 / 2.44 per year	2 / 0.62 per year (75%)
Injury Crashes (% reduction)	8	0 (100%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: Previously, ranked #1 on BCEO Crash Rate list.		

<b>Eaton Road &amp; Beissinger Road (ADT=5,650 vpd)</b>		
	<b>Before (01/2011-07/2015)</b>	<b>After (11/2015-12/2018)</b>
Total Crashes / Per year (% reduction)	14 / 3.05 per year	3 / 0.95 per year (69%)
Injury Crashes (% reduction)	8	0 (100%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: Previously, ranked in Top 10 on BCEO Crash Rate list.		

<b>Cin-Day Road &amp; Kyles Station Road (ADT=13,850 vpd)</b>		
	<b>Before (01/2011-05/2016)</b>	<b>After (10/2016-12/2018)</b>
Total Crashes / Per year (% reduction)	52 / 9.6 per year	11 / 4.9 per year (49%)
Injury Crashes (% reduction)	13	2 (58%)
Fatal Crashes (% reduction)	0	0 (N/A)
Comments: Before: traffic signal without turn lanes. After: 2 angle, 6 rear end, 3 fixed object		

<b>Princeton Road &amp; Yankee Road (ADT=15,700 vpd)</b>		
	<b>Before (2013-2017)</b>	<b>After (01/2018-12/2018)</b>
Total Crashes / Per year (% reduction)	19 / 3.8 per year	3 / 3.0 per year (21%)
Injury Crashes (% reduction)	4	1 (0%)
Fatal Crashes (% reduction)	0	0
Comments: Injury crash was a motorcycle crashing into center of roundabout.		

<b>Overall Total – 11 Single-Lane Modern Roundabouts</b>		
	<b>Before (52 yrs, 11 months)</b>	<b>After (62 yrs, 0 months)</b>
Total Crashes / Per year (% reduction)	212 / 4.0 per year	93 / 1.5 per year ( <b>63%</b> )
Injury Crashes (% reduction)	65	17 ( <b>78%</b> )
Fatal Crashes (% reduction)	2	0 ( <b>100%</b> )
Comments: <b>Overall, an 80% reduction in serious (injury + fatal) crashes.</b>		

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