Butler County Single-Lane Modern Roundabouts Before/After Statistics

Hamilton Mason Road & Liberty Fairfield Road (ADT=12,050 vpd)			
Before (01/2003-08/2008) After (01/2009-12/2016)			
Total Crashes / Per year (% reduction)	55 / 9.5 per year	17 / 2.13 per year (78%)	
Injury Crashes (% reduction)	13	3 (77%)	
Fatal Crashes (% reduction) 1 0 (100%)			
Comments: 45% of after crashes are single-vehicle Failure to Control			

Lakota Drive West & Eagleridge Road (ADT=9,700 vpd)			
Before (01/2004-06/2008) After (01/2009-12/2016)			
Total Crashes / Per year (% reduction)	19 / 4.22 per year	22 /2.75 per year (35%)	
Injury Crashes (% reduction) 4 1 (75%)			
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: 10 crashes involved fixed object (Sign=5, Curb=4, Light Pole=1)			

Jacksonburg Road & Morganthaler Road (ADT=2,700 vpd)			
Before (01/2006-06/2010) After (01/2011-12/2016)			
Total Crashes / Per year (% reduction)	13 / 2.9 per year	2 / 0.33 per year (89%)	
Injury Crashes (% reduction)	5	1 (80%)	
Fatal Crashes (% reduction) 1 0 (100%)			
Comments: After crashes involved bicycle (injury) and the other snow covered road contributed to crash			

Trenton Road & Busenbark Road (ADT=8,200 vpd)			
Before (01/2006-05/2011) After (09/2011-12/2016)			
Total Crashes / Per year (% reduction)	7 / 1.3 per year	8 / 1.5 per year (-15%)	
Injury Crashes (% reduction)	2	3 (0%)	
Fatal Crashes (% reduction)	0	0 (N/A)	
Comments:			

Kyles Station Road & LeSourdsville West Chester Road (ADT=6,800 vpd)				
Before (01/2008-05/2012) After (09/2012-06/2016)				
Total Crashes / Per year (% reduction)	8 / 1.8 per year	3 / 0.71 per year (61%)		
Injury Crashes (% reduction)	2	2 (0%)		
Fatal Crashes (% reduction) 0 0 (N/A)				
Comments: Three crashes involved alcohol, struck sign, and a rear-end				

Yankee Road & Kyles Station Road (ADT=7,400 vpd)			
Before (01/2009-05/2013) After (09/2013-12/2016)			
Total Crashes / Per year (% reduction)	8 / 1.8 per year	7 / 2.15 per year (-19%)	
Injury Crashes (% reduction)	3	1 (67%)	
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: All-way stop installed October 2010 prior to roundabout			

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Millikin Road & Mauds Hughes Road (ADT=5,800 vpd)			
Before (01/2009-06/2013) After (09/2013-12/2016)			
Total Crashes / Per year (% reduction)	6 / 1.33 per year	3 / 0.92 per year (31%)	
Injury Crashes (% reduction)	3	0 (100%)	
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: All-way stop installed October 2010 prior to roundabout. Alcohol involved in 1 of after crash			

S.R. 748 & Layhigh Road (ADT=2,750 vpd)			
Before (01/2011-06/2015) After (10/2015-12/2016)			
Total Crashes / Per year (% reduction)	11 / 2.44 per year	0 / 0 per year (100%)	
Injury Crashes (% reduction)	8	0 (100%)	
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: Previously, ranked #1 on BCEO Crash Rate list.			

Eaton Road & Beissinger Road (ADT=5,650 vpd)			
Before (01/2011-07/2015) After (11/2015-12/2016)			
Total Crashes / Per year (% reduction)	14 / 3.05 per year	2 / 1.71 per year (44%)	
Injury Crashes (% reduction)	8	0 (100%)	
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: Previously, ranked in Top 10 on BCEO Crash Rate list.			

Cin-Day Road & Kyles Station Road (ADT=13,835 vpd)			
Before (01/2011-05/2016) After (10/2016-4/2017)			
Total Crashes / Per year (% reduction)	52 / 9.6 per year	4 / 6.86 per year (29%)	
Injury Crashes (% reduction)	13	0 (100%)	
Fatal Crashes (% reduction) 0 0 (N/A)			
Comments: Prior to roundabout, traffic signal without turn lanes.			

Overall Total – 10 Single-Lane Modern Roundabouts			
Before (47 yrs, 11 months) After (41 years)			
Total Crashes / Per year (% reduction)	193 / 4.03 per year	68 / 1.66 per year (59%)	
Injury Crashes (% reduction)	61	11 (82%)	
Fatal Crashes (% reduction) 2 0 (100%)			
Comments: Overall, an 83% reduction in serious (injury + fatal) crashes.			

ADT = Average Daily Traffic vpd = Vehicles per day