

Butler County Single-Lane Modern Roundabouts Before/After Statistics

(Data compiled thru 2022)

| 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 | 2009-2022 | 14 | 30 | 2.1 | 3 | 0.2 | 0 |
| % Reduction | | | | | 49% | | 76% | N/A |
| Comments: 14 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 | 2009-2022 | 14 | 27 | 1.9 | 4 | 0.3 | 0 |
| % Reduction | | | | | 80% | | 88% | 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 | 2011-2022 | 12 | 2 | 0.2 | 1 | 0.1 | 0 |
| % Reduction | | | | | 94% | | 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 | | 09/2011-2022 | 11.33 | 13 | 1.1 | 4 | 0.4 | 0 |
| % Reduction | | | | | 11% | | 4% | #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 | 09/2012-2022 | 10.33 | 7 | 0.7 | 2 | 0.2 | 0 |
| % Reduction | | | | | 63% | | 57% | #DIV/0! |
| Comments: 5 of 7 fixed object | | | | | | | | |

**Butler County Single-Lane Modern Roundabouts
Before/After Statistics**

(Data compiled thru 2022)

| 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 | 09/2013-2022 | 9.33 | 13 | 1.4 | 1 | 0.1 | 0 |
| % Reduction | | | | | 23% | | 84% | #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 | 09/2013-2022 | 9.33 | 8 | 0.9 | 1 | 0.1 | 0 |
| % Reduction | | | | | 36% | | 84% | #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 | Serious Injury/Fatal |
| Before Data | 2,750 | 01/2011-06/2015 | 4.5 | 11 | 2.4 | 8 | 1.8 | 1 |
| After Data | 2,750 | 10/2015-2022 | 7.25 | 6 | 0.8 | 0 | 0.0 | 0 |
| % Reduction | | | | | 66% | | 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 | 11/2015-2022 | 7.167 | 7 | 1.0 | 1 | 0.1 | 0 |
| % Reduction | | | | | 69% | | 92% | 100% |
| 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 | Serious Injury/Fatal |
| Before Data | 14,020 | 01/2011-05/2016 | 5.4167 | 52 | 9.6 | 13 | 2.4 | 1 |
| After Data | 13,850 | 10/2016-2022 | 6.25 | 23 | 3.7 | 7 | 1.1 | 0 |
| % Reduction | | | | | 62% | | 53% | 100% |
| Comments: Converted traffic signal without left turn lanes. (AFTER: 1 OVI, 1 Fell Asleep) | | | | | | | | |

**Butler County Single-Lane Modern Roundabouts
Before/After Statistics**

(Data compiled thru 2022)

| 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 | 2018-2022 | 5 | 11 | 2.2 | 0 | 0.0 | 1 |
| % Reduction | | | | | 48% | | 100% | #DIV/0! |
| Comments: Converted all-way stop control to RAB. | | | | | | | | |

| 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 | 05/2018-2022 | 4.583 | 14 | 3.1 | 0 | 0.0 | 0 |
| % Reduction | | | | | -27% | | 100% | 100% |
| Comments: Converted signal control. After: 3 fixed object, 3 rear end, 2 angle, 1 sideswipe-passing, 1 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 | 9/2018-2022 | 4.33 | 4 | 0.9 | 1 | 0.2 | 0 |
| % Reduction | | | | | 62% | | 75% | 100% |
| 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 | Serious Injury/Fatal |
| Before Data | 13,300 | 2013-05/2018 | 5.4167 | 28 | 5.2 | 7 | 1.3 | 2 |
| After Data | 13,430 | 09/2018-2022 | 4.33 | 16 | 3.7 | 2 | 0.5 | 0 |
| % Reduction | | | | | 29% | | 64% | 100% |
| Comments: Converted all-way stop control. | | | | | | | | |

| 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 | | 11/2019-2022 | 3.167 | 6 | 1.9 | 1 | 0.3 | 0 |
| % Reduction | | | | | 55% | | 84% | 100% |
| Comments: Realigned two offset intersections. | | | | | | | | |

**Butler County Single-Lane Modern Roundabouts
Before/After Statistics**

(Data compiled thru 2022)

| Lesourdsville West Chester Rdd & 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 | | 9/2020-2022 | 2.25 | 5 | 2.2 | 1 | 0.4 | 0 |
| % Reduction | | | | | 56% | | 80% | 100% |
| Comments: After - (1) OVI, (1) Fog, (1) Tow Truck passing disabled veh | | | | | | | | |

| SR 73 & Jacksonburg Road 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 | | 4/2021-2022 | 1.75 | 10 | 5.7 | 1 | 0.6 | 0 |
| % Reduction | | | | | 33% | | 86% | 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 | | 8/2021-2022 | 1.417 | 7 | 4.9 | 0 | 0.0 | 0 |
| % Reduction | | | | | 44% | | 100% | #DIV/0! |
| Comments: Converted AWSC | | | | | | | | |

| Millikin Rd & Lesourdsville West Chester Rd(South leg) 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 | | 8/2021-2022 | 1.417 | 0 | 0.0 | 0 | 0.0 | 0 |
| % Reduction | | | | | 100% | | 100% | 100% |
| Comments: Converted AWSC | | | | | | | | |

| 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 | | 9/2021-2022 | 1.33 | 9 | 6.8 | 2 | 1.5 | 0 |
| % Reduction | | | | | 69% | | 72% | #DIV/0! |
| Comments: Converted AWSC | | | | | | | | |

Butler County Single-Lane Modern Roundabouts

Before/After Statistics

(Data compiled thru 2022)

| OVERALL TOTALS | | | | | | | | |
|-----------------------------------|------------|--------------|--------------|--------------------|-------------------|---------------|-----------------|-----------------------------|
| 20 Single-Lane Roundabouts | | | | | | | | |
| | ADT | Dates | Years | All Crashes | Crash/year | Injury | Inj/year | Serious Injury/Fatal |
| Before Data | | 2003-2021 | 99.92 | 535 | 5.4 | 170 | 1.7 | 19 |
| After Data | | 2008-2022 | 130.56 | 218 | 1.7 | 32 | 0.2 | 1 |
| % Reduction | | | | | 69% | | 86% | 95% |
| Comments: | | | | | | | | |