

Safety Project Evaluations Report



SAFETY PROJECT EVALUATIONS 2017

York Area Metropolitan Planning Organization

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In 2010 the YCPC asked,

“Are we reducing crashes ?”

“What is the bang for the buck ?”

York Area Metropolitan Planning Organization

- The first report was in 2011
- This report is produced annually
- 10 Projects have been evaluated
- 13 Projects in the pipeline

Report Details BEFORE (5 Years)

- ADT, VMT, Crash Rate, Speed Limit
- Needs to be Addressed
- TIP Dollars Programmed
- 6 - Crash Types
- 4 - Severity of Crash
- Crash Cost Estimate

BEFORE

SR 851 Peach Bottom Twp Roundabout (MPMS #71929)

ADT: 14,898

VMT: NA

Crash Rate: 0.49 / State: 0.29

Speed Limit: 55



Needs to be Addressed

High speeds on SR 74 produced smaller than anticipated gaps. High speed crashes resulted in severe and fatal injuries. Skewed intersection reduces sight distance.

TIP Dollars Programmed

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Year	Angle	Head On	Hit Fixed Object	Opposite Direction	Rear End	Same Direction Side-Swipe	Other	Unknown	Total	Fatal	Major	Moderate/Minor/Unknown	Property Damage Only	Crash Cost Estimate
02-03	2	-	-	-	-	-	-	1	3	1	-	1	1	
03-04	2	-	-	-	1	-	-	-	3	-	-	2	1	
04-05	2	1	-	-	-	-	-	-	3	-	1	2	-	
05-06	-	-	1	-	-	-	-	-	1	-	-	1	-	
06-07	3	-	1	-	-	-	-	-	4	1	-	1	2	
Total									14					Total \$9,410,177

04-05	2	1	-	-	-	-	-	-	3	-	1	2	-	
05-06	-	-	1	-	-	-	-	-	1	-	-	1	-	
06-07	3	-	1	-	-	-	-	-	4	1	-	1	2	
Total									14				Total \$9,410,177	

Report Details AFTER (5 Years)

- ADT, VMT, Crash Rate, Speed Limit
- **Project Description**
- TIP Dollars **Expended**
- 6 - Crash Types
- 4 - Severity of Crash
- Crash Cost Estimate
- **Conclusion**

SR 851 Peach Bottom Twp Roundabout (MPMS #71929)

ADT: 14,842

VMT: NA

Crash Rate: 0.15 / State: 0.29

Speed Limit: 55



Project Description

Installed roundabout to address the speed associated with this corridor and provide safe entering and exiting for all movements.

TIP Dollars Expended

Preconstruction: \$293,638
 Construction: \$1,083,043
 Total: \$1,376,681

AFTER

Year	Angle	Head On	Hit Fixed Object	Opposite Direction Side-Swipe	Rear End	Same Direction Side-Swipe	Other	Unknown	Total	Fatal	Major	Moderate/Minor/Unknown	Property Damage Only	Crash Cost Estimate
Norm.	-	-	-	-	-	-	-	-	0	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	0	-	-	-	-	-
2010	1	-	-	-	-	-	-	-	1	-	-	-	1	-
2011	1	-	-	-	-	-	-	-	2	-	-	-	2	-
2012	-	-	-	-	-	-	-	-	0	-	-	-	-	-
2013	-	-	1	-	-	-	-	-	1	-	-	-	1	-
									Total	4				Total \$153,576

Conclusion

- Decreased total number of crashes.
- Decreased number of fatal and major injury crashes.
- Decreased crash rate.
- Decreased total estimate cost of crashes.





QUESTIONS ?

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