UMTRI-2007-5-2

FEBRUARY 2007

APPENDIX B POTENTIAL EFFECTIVENESS OF SIGNAL OPTIMIZATION FOR VARIOUS CORRIDORS IN MICHIGAN

PAUL E. GREEN DANIEL BLOWER

UMTRI 2007-5-2

Appendix B Potential Effectiveness of Signal Optimization for Various Corridors in Michigan

Prepared for Michigan Department of Transportation

F015378

Paul E. Green

Daniel Blower

February 2007

Transportation Safety Analysis Division University of Michigan Transportation Research Institute 2901 Baxter Road Ann Arbor, Michigan 48109-2150

			Technic	cal Report Documentation Page
1. Report No.	2. Government Acc	ession No.	3. Recipient's Catalog No).
UMTRI-2007-5-2				
4. Title and Subtitle			5. Report Date	
Potential Effectiveness of Signal Optimization for Various			6. Performing Organization	an Cada
Corridors in Michigan			6. Performing Organizatio	on Code
7. Authors			8. Performing Organization	an Ranart Na
Paul E. Green, Daniel Blower			UMTRI-2007-:	•
9. Performing Organization Name and Address			10. Work Unit No.	
Transportation Research Institute			052855	
2901 Baxter Road			11. Contract or Grant No.	
University of Michigan			F015378	
Ann Arbor, Michigan 48109-215	0			
12. Sponsoring Agency Name and Address			13. Type of Report and P	eriod Covered
Michigan Department of Transpo	ortation		Special report	
Metro Region Office			14. Sponsoring Agency C	Code
18101 West Nine Mile Road				
Southfield, MI 48075				
15. Supplementary Notes				
This appendix contains maps of g	geographically	located crashes a	t 130 intersections on	five corridors
located in southeast Michigan bo	th before and	after signal timing	. The intersections are	grouped
according to corridor. The corrido	ors include Fo	rd Road (M153, 2	6 intersections), Plym	outh Road (Old
M14, 18 intersections), Jefferson	Avenue (10 in	ntersections), Hall	Road (M59, 28 inters	ections), and
Woodward Avenue (M1, 48 inter				
Dates of signal timing along with		•	•	•
comparative statistics showing di	•	• •	· •	
		injury severity, in	lie of day, day of week	x, and crash type
before and after signal timing are	snown.			
16. Abstract				
17. Key Words		18. Distribution Statement		
Before-after study, signalized into	ersections	Unlimited		
• •	ersections,	Ommitted		
geographical location				i
19. Security Classification (of this report) Unclassified	20. Security Classific		21. No. of Pages 143	22. Price
Unclassified	Unclassified		145	
	Reproduction of	f completed page authorized		

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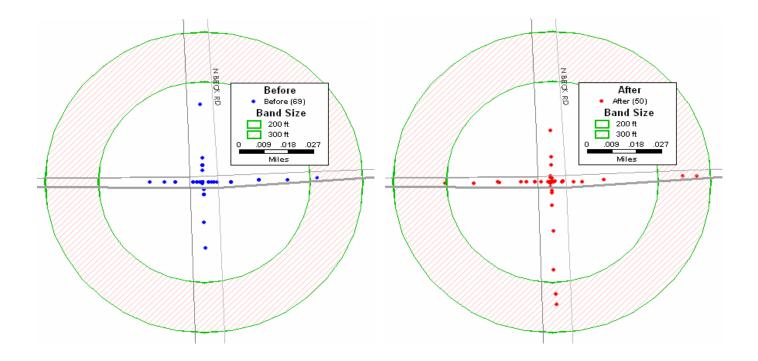
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Appendix B Potential Effectiveness of Signal Optimization for Various Corridors in Michigan

Ford Road (M153)

M153 (Ford Road) and Beck Road

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.4	1	2.0
B-Injury	5	7.2	3	6.0
C-Injury	19	27.5	5	10.0
O-Injury	44	63.8	41	82.0
Total	69	100.0	50	100.0

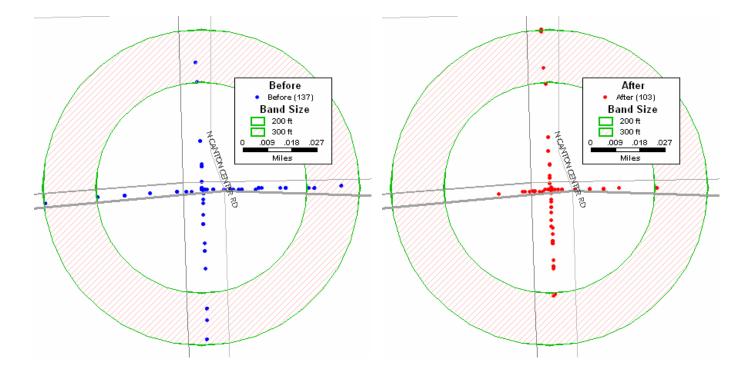
Time of Day	Before	%	After	%
6am - 9:59am	20	29.0	10	20.0
10am - 3:59pm	8	11.6	11	22.0
4pm - 7:59pm	17	24.6	14	28.0
8pm - 5:59am	20	29.0	15	30.0
Unknown	4	5.8	0	0.0
Total	69	100.0	50	100.0

Day of Week	Before	%	After	%
Sunday	3	4.3	2	4.0
Monday	8	11.6	8	16.0
Tuesday	12	17.4	4	8.0
Wednesday	9	13.0	8	16.0
Thursday	13	18.8	7	14.0
Friday	12	17.4	15	30.0
Saturday	12	17.4	6	12.0
Total	69	100.0	50	100.0

Crash Type	Before	%	After	%
Single vehicle	4	5.8	1	2.0
Head-on	9	13.0	9	18.0
Angle	25	36.2	17	34.0
Rear-end	22	31.9	18	36.0
Sideswipe	3	4.3	4	8.0
Other/unknown	6	8.7	1	2.0
Total	69	100.0	50	100.0

M153 (Ford Road) and Canton Center

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.7	0	0.0
B-Injury	8	5.8	6	5.8
C-Injury	20	14.6	19	18.4
O-Injury	108	78.8	78	75.7
Total	137	100.0	103	100.0

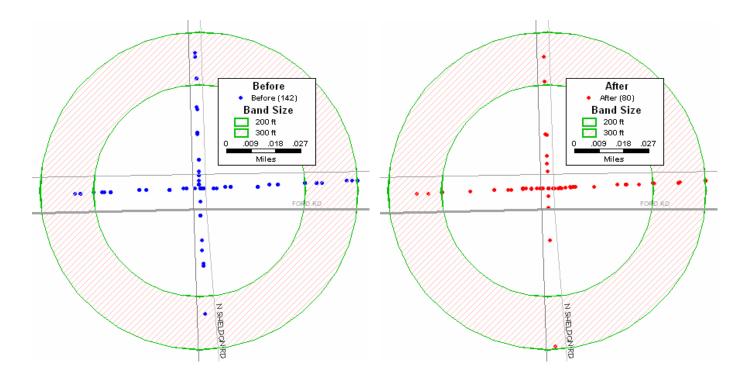
Time of Day	Before	%	After	%
6am - 9:59am	21	15.3	20	19.4
10am - 3:59pm	52	38.0	39	37.9
4pm - 7:59pm	43	31.4	27	26.2
8pm - 5:59am	12	8.8	17	16.5
Unknown	9	6.6	0	0.0
Total	137	100.0	103	100.0

Day of Week	Before	%	After	%
Sunday	7	5.1	8	7.8
Monday	22	16.1	9	8.7
Tuesday	20	14.6	13	12.6
Wednesday	17	12.4	25	24.3
Thursday	25	18.2	21	20.4
Friday	27	19.7	15	14.6
Saturday	19	13.9	12	11.7
Total	137	100.0	103	100.0

Crash Type	Before	%	After	%
Single vehicle	7	5.1	4	3.9
Head-on	12	8.8	6	5.8
Angle	24	17.5	36	35.0
Rear-end	62	45.3	41	39.8
Sideswipe	26	19.0	16	15.5
Other/unknown	6	4.4	0	0.0
Total	137	100.0	103	100.0

M153 (Ford Road) and Sheldon

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	1.4	4	5.0
C-Injury	26	18.3	8	10.0
O-Injury	114	80.3	68	85.0
Total	142	100.0	80	100.0

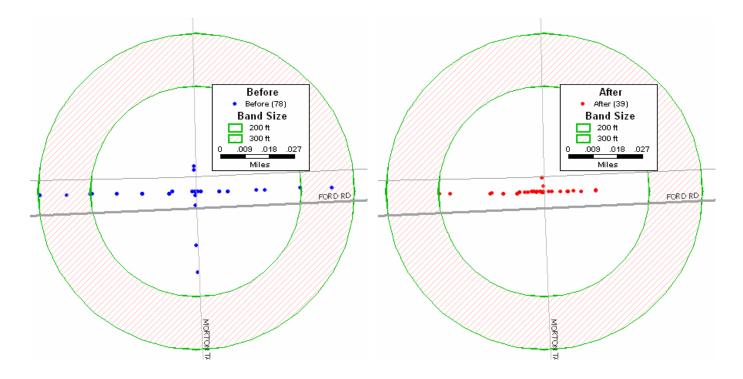
Day of Week	Before	%	After	%
Sunday	12	8.5	11	13.8
Monday	25	17.6	7	8.8
Tuesday	21	14.8	12	15.0
Wednesday	21	14.8	8	10.0
Thursday	17	12.0	12	15.0
Friday	22	15.5	21	26.3
Saturday	24	16.9	9	11.3
Total	142	100.0	80	100.0

Time of Day	Before	%	After	%
6am - 9:59am	9	6.3	8	10.0
10am - 3:59pm	59	41.5	29	36.3
4pm - 7:59pm	52	36.6	32	40.0
8pm - 5:59am	9	6.3	10	12.5
Unknown	13	9.2	1	1.3
Total	142	100.0	80	100.0

Crash Type	Before	%	After	%
Single vehicle	1	0.7	3	3.8
Head-on	15	10.6	6	7.5
Angle	27	19.0	17	21.3
Rear-end	73	51.4	41	51.3
Sideswipe	17	12.0	8	10.0
Other/unknown	9	6.3	5	6.3
Total	142	100.0	80	100.0

M153 (Ford Road) and Morton Taylor

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	1	1.3	0	0.0
A-Injury	3	3.8	1	2.6
B-Injury	4	5.1	3	7.7
C-Injury	21	26.9	7	17.9
O-Injury	49	62.8	28	71.8
Total	78	100.0	39	100.0

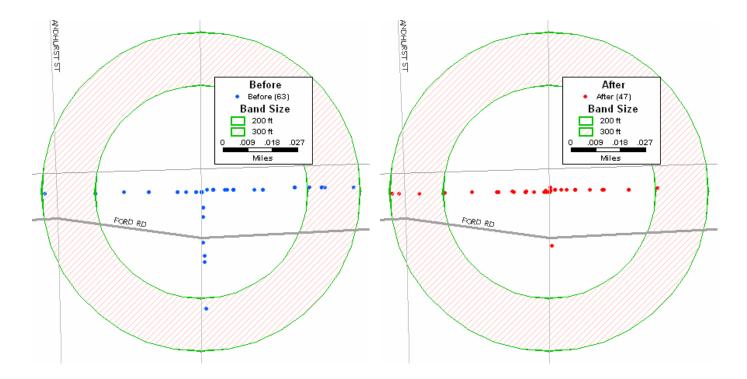
Day of Week	Before	%	After	%
Sunday	10	12.8	4	10.3
Monday	12	15.4	7	17.9
Tuesday	11	14.1	4	10.3
Wednesday	13	16.7	3	7.7
Thursday	10	12.8	3	7.7
Friday	14	17.9	8	20.5
Saturday	8	10.3	10	25.6
Total	78	100.0	39	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	6.4	6	15.4
10am - 3:59pm	27	34.6	12	30.8
4pm - 7:59pm	26	33.3	13	33.3
8pm - 5:59am	10	12.8	8	20.5
Unknown	10	12.8	0	0.0
Total	78	100.0	39	100.0

Crash Type	Before	%	After	%
Single vehicle	4	5.1	4	10.3
Head-on	9	11.5	7	17.9
Angle	22	28.2	8	20.5
Rear-end	30	38.5	16	41.0
Sideswipe	5	6.4	1	2.6
Other/unknown	8	10.3	3	7.7
Total	78	100.0	39	100.0

M153 (Ford Road) and Lotz

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	2.1
B-Injury	4	6.3	2	4.3
C-Injury	7	11.1	11	23.4
O-Injury	52	82.5	33	70.2
Total	63	100.0	47	100.0

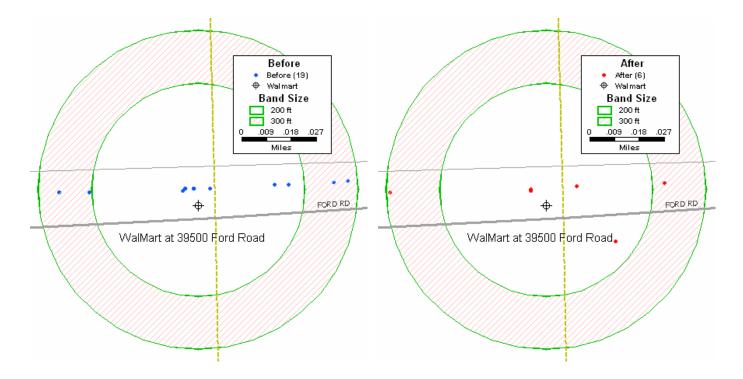
Day of Week	Before	%	After	%
Sunday	8	12.7	5	10.6
Monday	9	14.3	2	4.3
Tuesday	5	7.9	11	23.4
Wednesday	12	19.0	7	14.9
Thursday	9	14.3	4	8.5
Friday	10	15.9	13	27.7
Saturday	10	15.9	5	10.6
Total	63	100.0	47	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	9.5	4	8.5
10am - 3:59pm	24	38.1	19	40.4
4pm - 7:59pm	19	30.2	12	25.5
8pm - 5:59am	8	12.7	12	25.5
Unknown	6	9.5	0	0.0
Total	63	100.0	47	100.0

Crash Type	Before	%	After	%
Single vehicle	3	4.8	5	10.6
Head-on	3	4.8	6	12.8
Angle	12	19.0	5	10.6
Rear-end	40	63.5	28	59.6
Sideswipe	3	4.8	1	2.1
Other/unknown	2	3.2	2	4.3
Total	63	100.0	47	100.0

M153 (Ford Road) and Walmart/Home Depot

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	7	36.8	1	16.7
O-Injury	12	63.2	5	83.3
Total	19	100.0	6	100.0

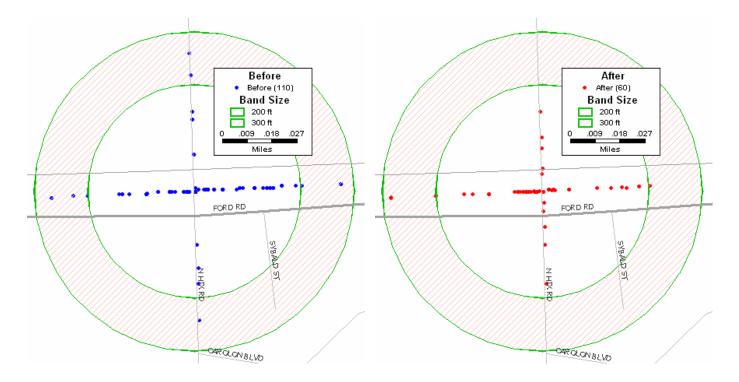
Day of Week	Before	%	After	%
Sunday	4	21.1	1	16.7
Monday	1	5.3	0	0.0
Tuesday	5	26.3	3	50.0
Wednesday	0	0.0	0	0.0
Thursday	2	10.5	1	16.7
Friday	3	15.8	0	0.0
Saturday	4	21.1	1	16.7
Total	19	100.0	6	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	1	16.7
10am - 3:59pm	10	52.6	3	50.0
4pm - 7:59pm	8	42.1	1	16.7
8pm - 5:59am	1	5.3	1	16.7
Unknown	0	0.0	0	0.0
Total	19	100.0	6	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	1	16.7
Head-on	0	0.0	0	0.0
Angle	5	26.3	1	16.7
Rear-end	12	63.2	3	50.0
Sideswipe	2	10.5	0	0.0
Other/unknown	0	0.0	1	16.7
Total	19	100.0	6	100.0

M153 (Ford Road) and Hix

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	6	5.5	1	1.7
B-Injury	6	5.5	3	5.0
C-Injury	15	13.6	12	20.0
O-Injury	83	75.5	44	73.3
Total	110	100.0	60	100.0

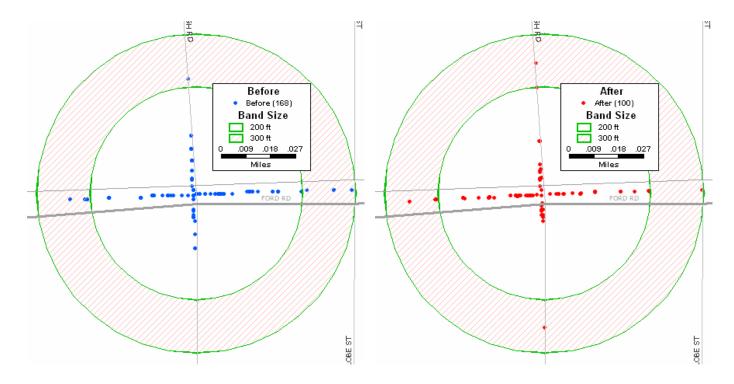
Day of Week	Before	%	After	%
Sunday	9	8.2	6	10.0
Monday	10	9.1	13	21.7
Tuesday	15	13.6	7	11.7
Wednesday	13	11.8	10	16.7
Thursday	14	12.7	7	11.7
Friday	29	26.4	9	15.0
Saturday	20	18.2	8	13.3
Total	110	100.0	60	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	10.0	8	13.3
10am - 3:59pm	55	50.0	25	41.7
4pm - 7:59pm	30	27.3	23	38.3
8pm - 5:59am	8	7.3	4	6.7
Unknown	6	5.5	0	0.0
Total	110	100.0	60	100.0

Crash Type	Before	%	After	%
Single vehicle	5	4.5	1	1.7
Head-on	39	35.5	18	30.0
Angle	19	17.3	12	20.0
Rear-end	38	34.5	19	31.7
Sideswipe	8	7.3	7	11.7
Other/unknown	1	0.9	3	5.0
Total	110	100.0	60	100.0

M153 (Ford Road) and Newburgh

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.6	2	2.0
B-Injury	4	2.4	0	0.0
C-Injury	26	15.5	17	17.0
O-Injury	137	81.5	81	81.0
Total	168	100.0	100	100.0

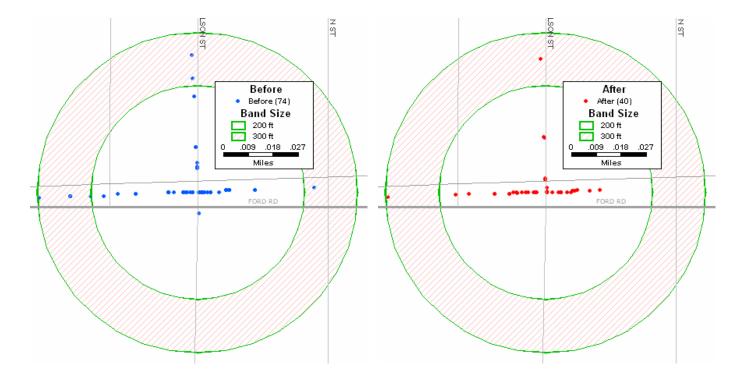
Day of Week	Before	%	After	%
Sunday	18	10.7	8	8.0
Monday	24	14.3	14	14.0
Tuesday	23	13.7	14	14.0
Wednesday	25	14.9	19	19.0
Thursday	25	14.9	13	13.0
Friday	35	20.8	16	16.0
Saturday	18	10.7	16	16.0
Total	168	100.0	100	100.0

Time of Day	Before	%	After	%
6am - 9:59am	19	11.3	15	15.0
10am - 3:59pm	61	36.3	48	48.0
4pm - 7:59pm	53	31.5	29	29.0
8pm - 5:59am	29	17.3	8	8.0
Unknown	6	3.6	0	0.0
Total	168	100.0	100	100.0

Crash Type	Before	%	After	%
Single vehicle	3	1.8	2	2.0
Head-on	22	13.1	8	8.0
Angle	26	15.5	14	14.0
Rear-end	96	57.1	57	57.0
Sideswipe	18	10.7	16	16.0
Other/unknown	3	1.8	3	3.0
Total	168	100.0	100	100.0

M153 (Ford Road) and Carlson/Central City

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	4.1	1	2.5
B-Injury	4	5.4	3	7.5
C-Injury	10	13.5	7	17.5
O-Injury	57	77.0	29	72.5
Total	74	100.0	40	100.0

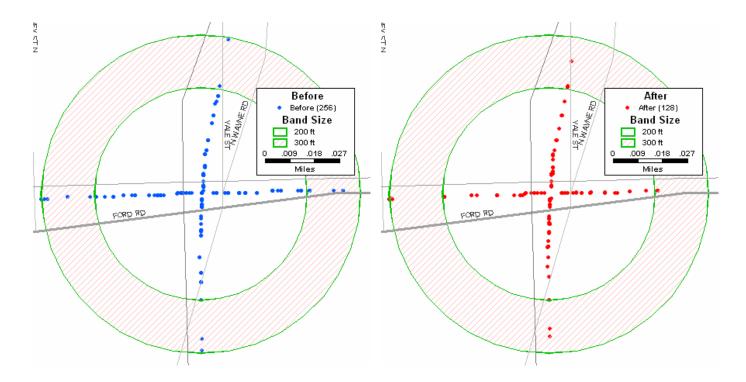
Day of Week	Before	%	After	%
Sunday	12	16.2	3	7.5
Monday	10	13.5	5	12.5
Tuesday	12	16.2	4	10.0
Wednesday	11	14.9	7	17.5
Thursday	9	12.2	6	15.0
Friday	8	10.8	10	25.0
Saturday	12	16.2	5	12.5
Total	74	100.0	40	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	2.7	3	7.5
10am - 3:59pm	39	52.7	20	50.0
4pm - 7:59pm	21	28.4	13	32.5
8pm - 5:59am	7	9.5	4	10.0
Unknown	5	6.8	0	0.0
Total	74	100.0	40	100.0

Crash Type	Before	%	After	%
Single vehicle	4	5.4	1	2.5
Head-on	23	31.1	5	12.5
Angle	8	10.8	5	12.5
Rear-end	36	48.6	23	57.5
Sideswipe	3	4.1	5	12.5
Other/unknown	0	0.0	1	2.5
Total	74	100.0	40	100.0

M153 (Ford Road) and Wayne

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	5	2.0	1	0.8
B-Injury	11	4.3	5	3.9
C-Injury	40	15.6	19	14.8
O-Injury	200	78.1	103	80.5
Total	256	100.0	128	100.0

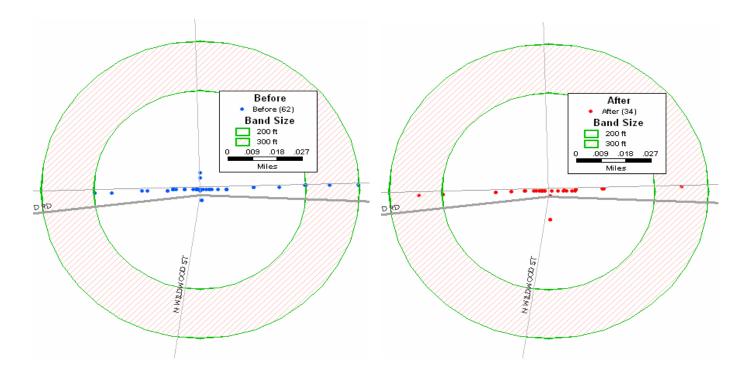
Day of Week	Before	%	After	%
Sunday	18	7.0	5	3.9
Monday	30	11.7	20	15.6
Tuesday	52	20.3	19	14.8
Wednesday	34	13.3	18	14.1
Thursday	32	12.5	19	14.8
Friday	50	19.5	32	25.0
Saturday	40	15.6	15	11.7
Total	256	100.0	128	100.0

Time of Day	Before	%	After	%
6am - 9:59am	31	12.1	18	14.1
10am - 3:59pm	113	44.1	55	43.0
4pm - 7:59pm	68	26.6	38	29.7
8pm - 5:59am	35	13.7	17	13.3
Unknown	9	3.5	0	0.0
Total	256	100.0	128	100.0

Crash Type	Before	%	After	%
Single vehicle	6	2.3	4	3.1
Head-on	40	15.6	16	12.5
Angle	63	24.6	30	23.4
Rear-end	114	44.5	59	46.1
Sideswipe	32	12.5	17	13.3
Other/unknown	1	0.4	2	1.6
Total	256	100.0	128	100.0

M153 (Ford Road) and Wildwood

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.6	0	0.0
B-Injury	5	8.1	0	0.0
C-Injury	8	12.9	5	14.7
O-Injury	48	77.4	29	85.3
Total	62	100.0	34	100.0

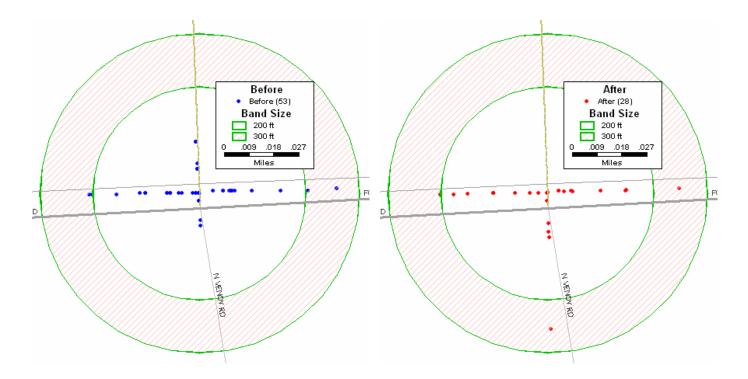
Time of Day	Before	%	After	%
6am - 9:59am	4	6.5	2	5.9
10am - 3:59pm	23	37.1	17	50.0
4pm - 7:59pm	17	27.4	8	23.5
8pm - 5:59am	15	24.2	7	20.6
Unknown	3	4.8	0	0.0
Total	62	100.0	34	100.0

Day of Week	Before	%	After	%
Sunday	6	9.7	2	5.9
Monday	12	19.4	4	11.8
Tuesday	10	16.1	3	8.8
Wednesday	6	9.7	13	38.2
Thursday	14	22.6	1	2.9
Friday	10	16.1	4	11.8
Saturday	4	6.5	7	20.6
Total	62	100.0	34	100.0

Crash Type	Before	%	After	%
Single vehicle	1	1.6	1	2.9
Head-on	13	21.0	7	20.6
Angle	12	19.4	3	8.8
Rear-end	31	50.0	19	55.9
Sideswipe	5	8.1	4	11.8
Other/unknown	0	0.0	0	0.0
Total	62	100.0	34	100.0

M153 (Ford Road) and Venoy

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.9	0	0.0
B-Injury	3	5.7	1	3.6
C-Injury	10	18.9	6	21.4
O-Injury	39	73.6	21	75.0
Total	53	100.0	28	100.0

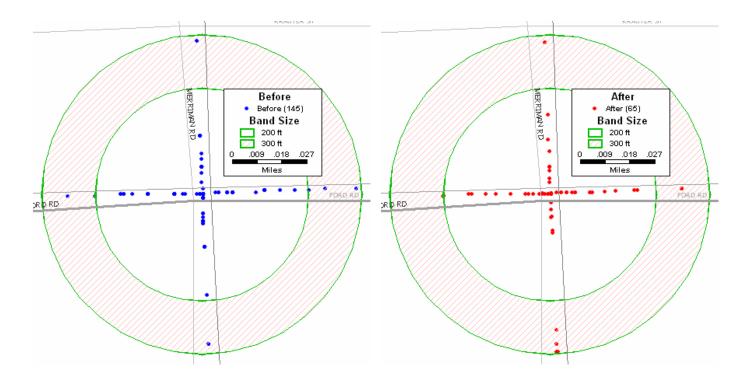
Day of Week	Before	%	After	%
Sunday	6	11.3	0	0.0
Monday	9	17.0	4	14.3
Tuesday	6	11.3	4	14.3
Wednesday	11	20.8	4	14.3
Thursday	6	11.3	2	7.1
Friday	7	13.2	9	32.1
Saturday	8	15.1	5	17.9
Total	53	100.0	28	100.0

Time of Day	Before	%	After	%
6am - 9:59am	12	22.6	1	3.6
10am - 3:59pm	15	28.3	11	39.3
4pm - 7:59pm	19	35.8	12	42.9
8pm - 5:59am	6	11.3	4	14.3
Unknown	1	1.9	0	0.0
Total	53	100.0	28	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	7	13.2	2	7.1
Angle	10	18.9	6	21.4
Rear-end	32	60.4	15	53.6
Sideswipe	4	7.5	5	17.9
Other/unknown	0	0.0	0	0.0
Total	53	100.0	28	100.0

M153 (Ford Road) and Merriman

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	2.1	1	1.5
B-Injury	5	3.4	3	4.6
C-Injury	24	16.6	11	16.9
O-Injury	113	77.9	50	76.9
Total	145	100.0	65	100.0

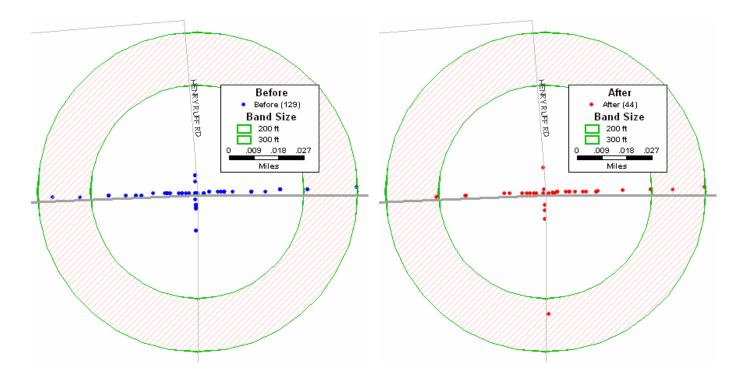
Day of Week	Before	%	After	%
Sunday	7	4.8	8	12.3
Monday	18	12.4	7	10.8
Tuesday	27	18.6	10	15.4
Wednesday	26	17.9	14	21.5
Thursday	18	12.4	9	13.8
Friday	27	18.6	10	15.4
Saturday	22	15.2	7	10.8
Total	145	100.0	65	100.0

Time of Day	Before	%	After	%
6am - 9:59am	22	15.2	7	10.8
10am - 3:59pm	53	36.6	28	43.1
4pm - 7:59pm	39	26.9	18	27.7
8pm - 5:59am	25	17.2	12	18.5
Unknown	6	4.1	0	0.0
Total	145	100.0	65	100.0

Crash Type	Before	%	After	%
Single vehicle	4	2.8	0	0.0
Head-on	14	9.7	6	9.2
Angle	29	20.0	11	16.9
Rear-end	82	56.6	41	63.1
Sideswipe	14	9.7	6	9.2
Other/unknown	2	1.4	1	1.5
Total	145	100.0	65	100.0

M153 (Ford Road) and Henry

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.6	1	2.3
B-Injury	5	3.9	2	4.5
C-Injury	26	20.2	4	9.1
O-Injury	96	74.4	37	84.1
Total	129	100.0	44	100.0

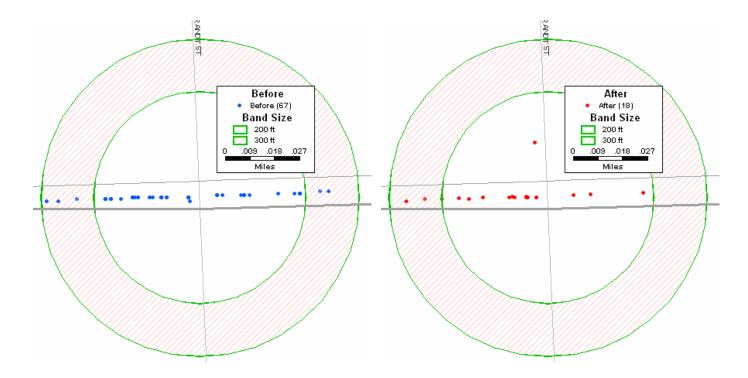
Day of Week	Before	%	After	%
Sunday	13	10.1	2	4.5
Monday	21	16.3	9	20.5
Tuesday	21	16.3	6	13.6
Wednesday	16	12.4	5	11.4
Thursday	10	7.8	8	18.2
Friday	30	23.3	6	13.6
Saturday	18	14.0	8	18.2
Total	129	100.0	44	100.0

Time of Day	Before	%	After	%
6am - 9:59am	10	7.8	5	11.4
10am - 3:59pm	59	45.7	18	40.9
4pm - 7:59pm	33	25.6	9	20.5
8pm - 5:59am	25	19.4	12	27.3
Unknown	2	1.6	0	0.0
Total	129	100.0	44	100.0

Crash Type	Before	%	After	%
Single vehicle	2	1.6	2	4.5
Head-on	19	14.7	1	2.3
Angle	35	27.1	13	29.5
Rear-end	57	44.2	19	43.2
Sideswipe	14	10.9	8	18.2
Other/unknown	2	1.6	1	2.3
Total	129	100.0	44	100.0

M153 (Ford Road) and Brandt

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.5	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	10	14.9	5	27.8
O-Injury	56	83.6	13	72.2
Total	67	100.0	18	100.0

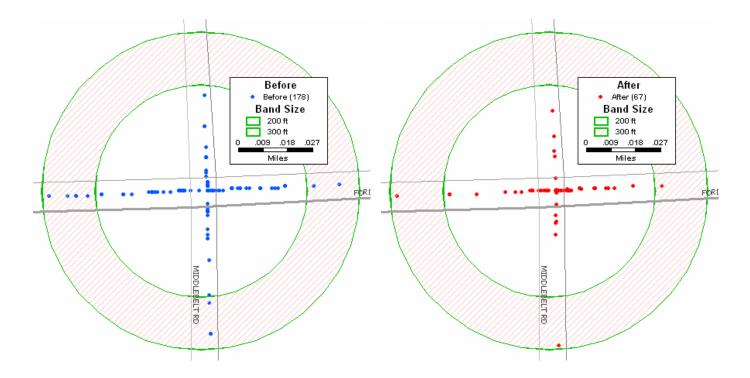
Day of Week	Before	%	After	%
Sunday	8	11.9	2	11.1
Monday	12	17.9	2	11.1
Tuesday	5	7.5	1	5.6
Wednesday	10	14.9	4	22.2
Thursday	15	22.4	3	16.7
Friday	11	16.4	3	16.7
Saturday	6	9.0	3	16.7
Total	67	100.0	18	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	4.5	0	0.0
10am - 3:59pm	28	41.8	8	44.4
4pm - 7:59pm	29	43.3	7	38.9
8pm - 5:59am	3	4.5	3	16.7
Unknown	4	6.0	0	0.0
Total	67	100.0	18	100.0

Crash Type	Before	%	After	%
Single vehicle	2	3.0	1	5.6
Head-on	4	6.0	1	5.6
Angle	20	29.9	4	22.2
Rear-end	38	56.7	9	50.0
Sideswipe	3	4.5	3	16.7
Other/unknown	0	0.0	0	0.0
Total	67	100.0	18	100.0

M153 (Ford Road) and Middlebelt

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.1	1	1.5
B-Injury	9	5.1	6	9.0
C-Injury	19	10.7	15	22.4
O-Injury	148	83.1	45	67.2
Total	178	100.0	67	100.0

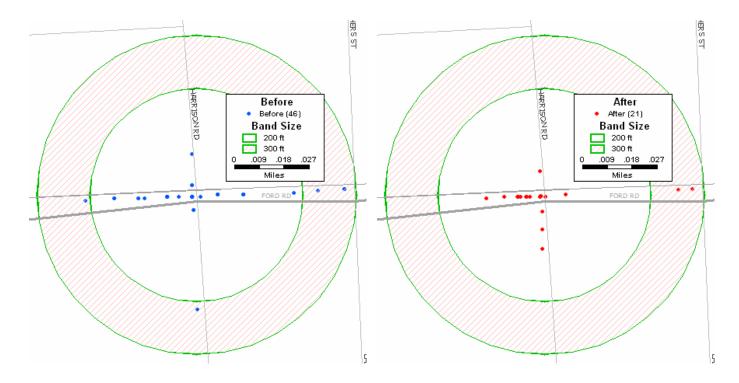
Day of Week	Before	%	After	%
Sunday	10	5.6	7	10.4
Monday	30	16.9	13	19.4
Tuesday	24	13.5	9	13.4
Wednesday	27	15.2	8	11.9
Thursday	33	18.5	7	10.4
Friday	27	15.2	12	17.9
Saturday	27	15.2	11	16.4
Total	178	100.0	67	100.0

Time of Day	Before	%	After	%
6am - 9:59am	27	15.2	3	4.5
10am - 3:59pm	76	42.7	32	47.8
4pm - 7:59pm	51	28.7	22	32.8
8pm - 5:59am	20	11.2	9	13.4
Unknown	4	2.2	1	1.5
Total	178	100.0	67	100.0

Crash Type	Before	%	After	%
Single vehicle	3	1.7	3	4.5
Head-on	7	3.9	4	6.0
Angle	33	18.5	15	22.4
Rear-end	110	61.8	32	47.8
Sideswipe	19	10.7	12	17.9
Other/unknown	6	3.4	1	1.5
Total	178	100.0	67	100.0

M153 (Ford Road) and Harrison

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	6.5	0	0.0
B-Injury	4	8.7	1	4.8
C-Injury	9	19.6	5	23.8
O-Injury	30	65.2	15	71.4
Total	46	100.0	21	100.0

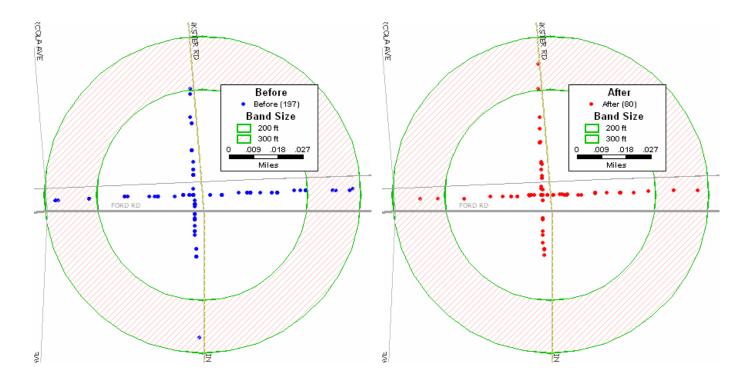
Day of Week	Before	%	After	%
Sunday	8	17.4	5	23.8
Monday	6	13.0	1	4.8
Tuesday	5	10.9	5	23.8
Wednesday	10	21.7	2	9.5
Thursday	5	10.9	5	23.8
Friday	7	15.2	0	0.0
Saturday	5	10.9	3	14.3
Total	46	100.0	21	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	8.7	2	9.5
10am - 3:59pm	16	34.8	8	38.1
4pm - 7:59pm	14	30.4	8	38.1
8pm - 5:59am	10	21.7	3	14.3
Unknown	2	4.3	0	0.0
Total	46	100.0	21	100.0

Crash Type	Before	%	After	%
Single vehicle	4	8.7	0	0.0
Head-on	5	10.9	2	9.5
Angle	16	34.8	12	57.1
Rear-end	18	39.1	5	23.8
Sideswipe	3	6.5	2	9.5
Other/unknown	0	0.0	0	0.0
Total	46	100.0	21	100.0

M153 (Ford Road) and Inkster

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	1.5	1	1.3
B-Injury	8	4.1	4	5.0
C-Injury	34	17.3	9	11.3
O-Injury	152	77.2	66	82.5
Total	197	100.0	80	100.0

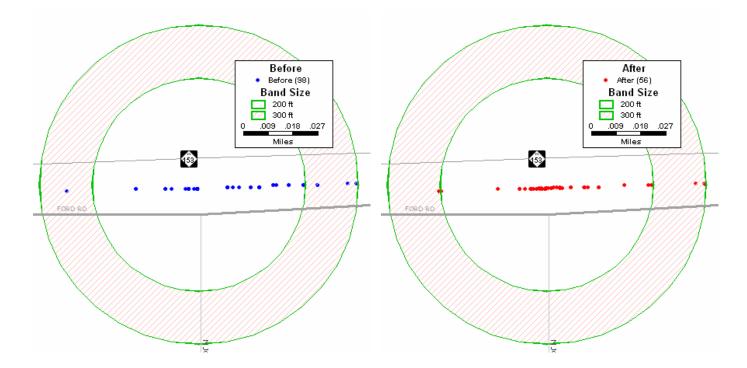
Day of Week	Before	%	After	%
Sunday	16	8.1	7	8.8
Monday	31	15.7	11	13.8
Tuesday	36	18.3	8	10.0
Wednesday	27	13.7	9	11.3
Thursday	30	15.2	14	17.5
Friday	27	13.7	19	23.8
Saturday	30	15.2	12	15.0
Total	197	100.0	80	100.0

Time of Day	Before	%	After	%
6am - 9:59am	16	8.1	7	8.8
10am - 3:59pm	61	31.0	32	40.0
4pm - 7:59pm	56	28.4	23	28.8
8pm - 5:59am	21	10.7	18	22.5
Unknown	43	21.8	0	0.0
Total	197	100.0	80	100.0

Crash Type	Before	%	After	%
Single vehicle	2	1.0	6	7.5
Head-on	14	7.1	2	2.5
Angle	52	26.4	20	25.0
Rear-end	91	46.2	38	47.5
Sideswipe	21	10.7	14	17.5
Other/unknown	17	8.6	0	0.0
Total	197	100.0	80	100.0

M153 (Ford Road) and John Daly

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	3.1	0	0.0
B-Injury	7	7.1	2	3.6
C-Injury	17	17.3	9	16.1
O-Injury	71	72.4	45	80.4
Total	98	100.0	56	100.0

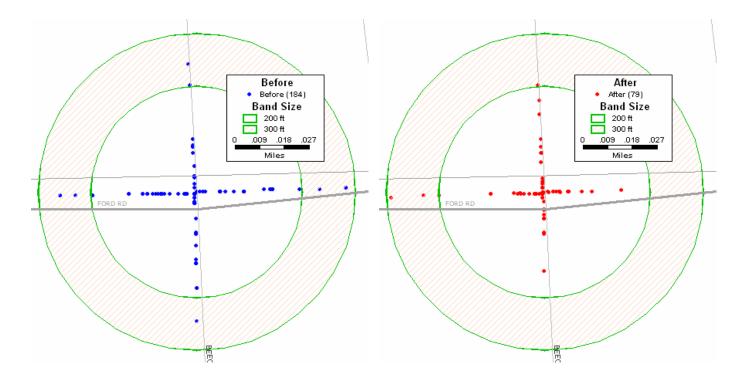
Day of Week	Before	%	After	%
Sunday	6	6.1	5	8.9
Monday	9	9.2	9	16.1
Tuesday	5	5.1	11	19.6
Wednesday	18	18.4	7	12.5
Thursday	19	19.4	8	14.3
Friday	20	20.4	8	14.3
Saturday	21	21.4	8	14.3
Total	98	100.0	56	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	11.2	7	12.5
10am - 3:59pm	34	34.7	27	48.2
4pm - 7:59pm	19	19.4	14	25.0
8pm - 5:59am	10	10.2	8	14.3
Unknown	24	24.5	0	0.0
Total	98	100.0	56	100.0

Crash Type	Before	%	After	%
Single vehicle	5	5.1	0	0.0
Head-on	16	16.3	4	7.1
Angle	33	33.7	28	50.0
Rear-end	29	29.6	17	30.4
Sideswipe	6	6.1	6	10.7
Other/unknown	9	9.2	1	1.8
Total	98	100.0	56	100.0

M153 (Ford Road) and Beech Daly

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.1	1	1.3
B-Injury	7	3.8	1	1.3
C-Injury	27	14.7	9	11.4
O-Injury	148	80.4	68	86.1
Total	184	100.0	79	100.0

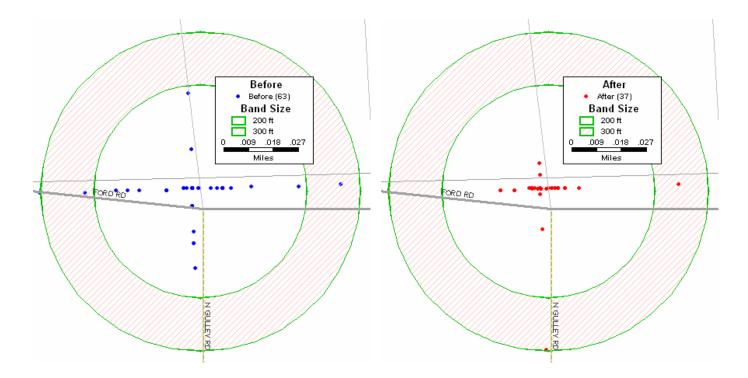
Day of Week	Before	%	After	%
Sunday	14	7.6	6	7.6
Monday	33	17.9	11	13.9
Tuesday	30	16.3	10	12.7
Wednesday	31	16.8	14	17.7
Thursday	25	13.6	12	15.2
Friday	25	13.6	16	20.3
Saturday	26	14.1	10	12.7
Total	184	100.0	79	100.0

Time of Day	Before	%	After	%
6am - 9:59am	22	12.0	12	15.2
10am - 3:59pm	65	35.3	36	45.6
4pm - 7:59pm	40	21.7	26	32.9
8pm - 5:59am	20	10.9	5	6.3
Unknown	37	20.1	0	0.0
Total	184	100.0	79	100.0

Crash Type	Before	%	After	%
Single vehicle	2	1.1	0	0.0
Head-on	9	4.9	11	13.9
Angle	56	30.4	29	36.7
Rear-end	78	42.4	35	44.3
Sideswipe	15	8.2	2	2.5
Other/unknown	24	13.0	2	2.5
Total	184	100.0	79	100.0

M153 (Ford Road) and Gulley

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.6	1	2.7
B-Injury	3	4.8	1	2.7
C-Injury	11	17.5	6	16.2
O-Injury	48	76.2	29	78.4
Total	63	100.0	37	100.0

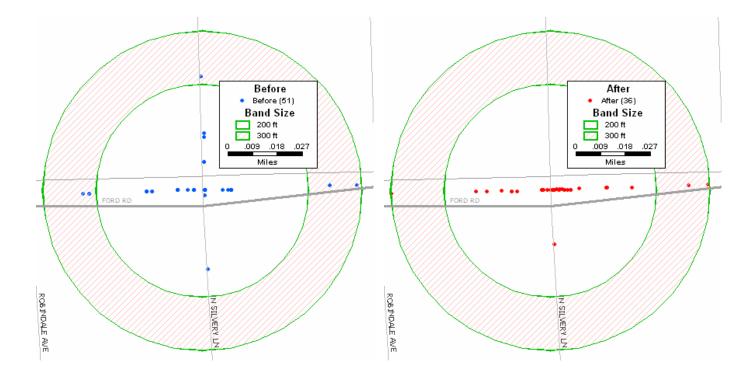
Day of Week	Before	%	After	%
Sunday	4	6.3	5	13.5
Monday	8	12.7	2	5.4
Tuesday	9	14.3	6	16.2
Wednesday	9	14.3	9	24.3
Thursday	15	23.8	8	21.6
Friday	14	22.2	6	16.2
Saturday	4	6.3	1	2.7
Total	63	100.0	37	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	9.5	1	2.7
10am - 3:59pm	21	33.3	21	56.8
4pm - 7:59pm	17	27.0	12	32.4
8pm - 5:59am	3	4.8	3	8.1
Unknown	16	25.4	0	0.0
Total	63	100.0	37	100.0

Crash Type	Before	%	After	%
Single vehicle	1	1.6	0	0.0
Head-on	7	11.1	4	10.8
Angle	23	36.5	9	24.3
Rear-end	21	33.3	18	48.6
Sideswipe	3	4.8	2	5.4
Other/unknown	8	12.7	4	10.8
Total	63	100.0	37	100.0

M153 (Ford Road) and Silvery Lane

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	2.0	0	0.0
C-Injury	10	19.6	8	22.2
O-Injury	40	78.4	28	77.8
Total	51	100.0	36	100.0

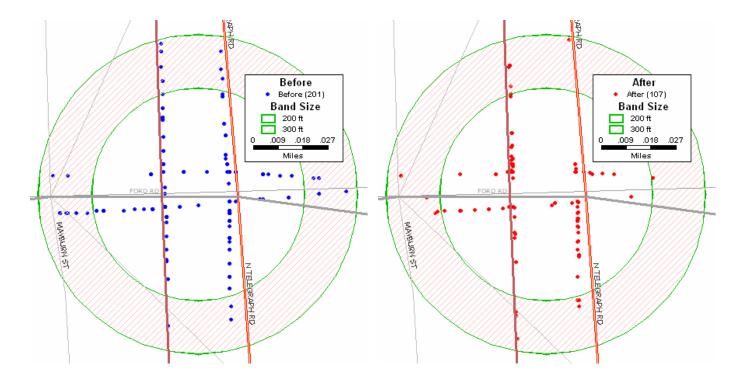
Day of Week	Before	%	After	%
Sunday	1	2.0	1	2.8
Monday	7	13.7	6	16.7
Tuesday	6	11.8	4	11.1
Wednesday	11	21.6	8	22.2
Thursday	6	11.8	4	11.1
Friday	10	19.6	10	27.8
Saturday	10	19.6	3	8.3
Total	51	100.0	36	100.0

Time of Day	Before	%	After	%
6am - 9:59am	12	23.5	6	16.7
10am - 3:59pm	13	25.5	16	44.4
4pm - 7:59pm	13	25.5	9	25.0
8pm - 5:59am	7	13.7	5	13.9
Unknown	6	11.8	0	0.0
Total	51	100.0	36	100.0

Crash Type	Before	%	After	%
Single vehicle	1	2.0	0	0.0
Head-on	4	7.8	3	8.3
Angle	12	23.5	8	22.2
Rear-end	27	52.9	19	52.8
Sideswipe	4	7.8	6	16.7
Other/unknown	3	5.9	0	0.0
Total	51	100.0	36	100.0

M153 (Ford Road) and Telegraph

Date of Signal Optimization: May 1, 2004



Unknown

Total

1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	4	2.0	1	0.9
B-Injury	4	2.0	5	4.7
C-Injury	27	13.4	14	13.1
O-Injury	166	82.6	87	81.3
Total	201	100.0	107	100.0

Day of Week	Before	%	After	%
Sunday	23	11.4	10	9.3
Monday	34	16.9	19	17.8
Tuesday	26	12.9	16	15.0
Wednesday	35	17.4	14	13.1
Thursday	29	14.4	16	15.0
Friday	31	15.4	19	17.8
Saturday	23	11.4	13	12.1
Total	201	100.0	107	100.0

Time of Day Before After % % 6am - 9:59am 36 17.9 13 12.1 10am - 3:59pm 71 39.3 35.3 42 20.6 4pm - 7:59pm 41 22 20.4 8pm - 5:59am 32 15.9 30 28.0

10.4

100.0

0

107

0.0

100.0

609 days after

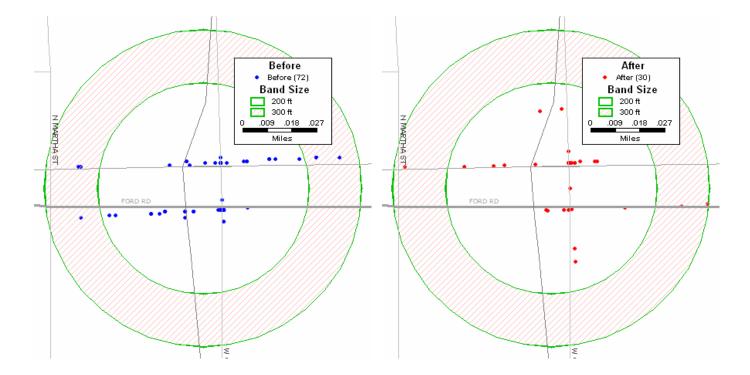
21

201

Crash Type	Before	%	After	%
Single vehicle	7	3.5	7	6.5
Head-on	1	0.5	0	0.0
Angle	35	17.4	23	21.5
Rear-end	134	66.7	66	61.7
Sideswipe	15	7.5	10	9.3
Other/unknown	9	4.5	1	0.9
Total	201	100.0	107	100.0

M153 (Ford Road) and Outer Drive

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.4	0	0.0
B-Injury	3	4.2	0	0.0
C-Injury	10	13.9	5	16.7
O-Injury	58	80.6	25	83.3
Total	72	100.0	30	100.0

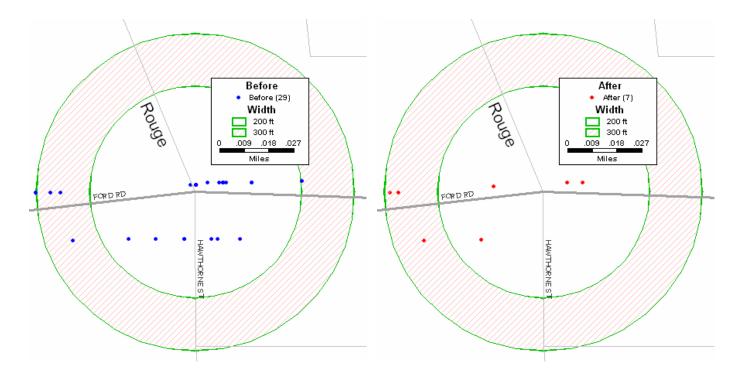
Day of Week	Before	%	After	%
Sunday	4	5.6	4	13.3
Monday	10	13.9	2	6.7
Tuesday	13	18.1	5	16.7
Wednesday	15	20.8	7	23.3
Thursday	5	6.9	7	23.3
Friday	14	19.4	2	6.7
Saturday	11	15.3	3	10.0
Total	72	100.0	30	100.0

Time of Day Before After % % 6am - 9:59am 7 9.7 4 13.3 10am - 3:59pm 33.3 26 36.1 10 4pm - 7:59pm 25.0 36.7 18 11 8pm - 5:59am 8 11.1 5 16.7 Unknown 13 18.1 0 0.0 100.0 30 100.0 Total 72

Crash Type	Before	%	After	%
Single vehicle	4	5.6	2	6.7
Head-on	1	1.4	0	0.0
Angle	14	19.4	5	16.7
Rear-end	37	51.4	17	56.7
Sideswipe	10	13.9	5	16.7
Other/unknown	6	8.3	1	3.3
Total	72	100.0	30	100.0

M153 (Ford Road) and Rouge Circle

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	5	17.2	3	42.9
O-Injury	24	82.8	4	57.1
Total	29	100.0	7	100.0

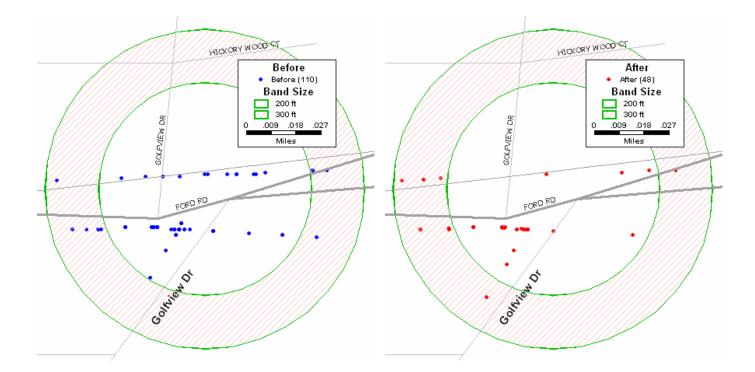
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	6	20.7	3	42.9
Tuesday	10	34.5	1	14.3
Wednesday	3	10.3	0	0.0
Thursday	1	3.4	0	0.0
Friday	7	24.1	2	28.6
Saturday	2	6.9	1	14.3
Total	29	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	17.2	1	14.3
10am - 3:59pm	11	37.9	4	57.1
4pm - 7:59pm	8	27.6	2	28.6
8pm - 5:59am	0	0.0	0	0.0
Unknown	5	17.2	0	0.0
Total	29	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.4	0	0.0
Head-on	0	0.0	0	0.0
Angle	2	6.9	0	0.0
Rear-end	20	69.0	6	85.7
Sideswipe	4	13.8	1	14.3
Other/unknown	2	6.9	0	0.0
Total	29	100.0	7	100.0

M153 (Ford Road) and Golfview

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.9	0	0.0
B-Injury	3	2.7	0	0.0
C-Injury	25	22.7	13	27.1
O-Injury	81	73.6	35	72.9
Total	110	100.0	48	100.0

Day of Week	Before	%	After	%
Sunday	7	6.4	5	10.4
Monday	19	17.3	10	20.8
Tuesday	10	9.1	6	12.5
Wednesday	17	15.5	5	10.4
Thursday	12	10.9	9	18.8
Friday	27	24.5	11	22.9
Saturday	18	16.4	2	4.2
Total	110	100.0	48	100.0

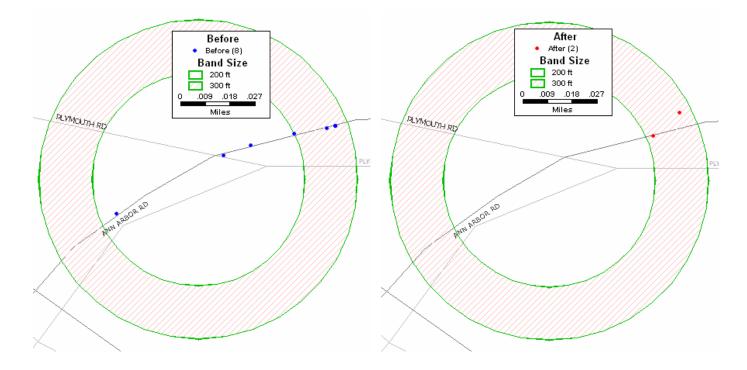
Time of Day	Before	%	After	%
6am - 9:59am	16	14.5	14	29.2
10am - 3:59pm	42	38.2	16	33.3
4pm - 7:59pm	32	29.1	12	25.0
8pm - 5:59am	11	10.0	5	10.4
Unknown	9	8.2	1	2.1
Total	110	100.0	48	100.0

Crash Type	Before	%	After	%
Single vehicle	7	6.4	3	6.3
Head-on	0	0.0	1	2.1
Angle	10	9.1	5	10.4
Rear-end	79	71.8	34	70.8
Sideswipe	6	5.5	5	10.4
Other/unknown	8	7.3	0	0.0
Total	110	100.0	48	100.0

Plymouth Road (M14)

M14 (Plymouth Road) and Ann Arbor

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	2	25.0	2	100.0
O-Injury	6	75.0	0	0.0
Total	8	100.0	2	100.0

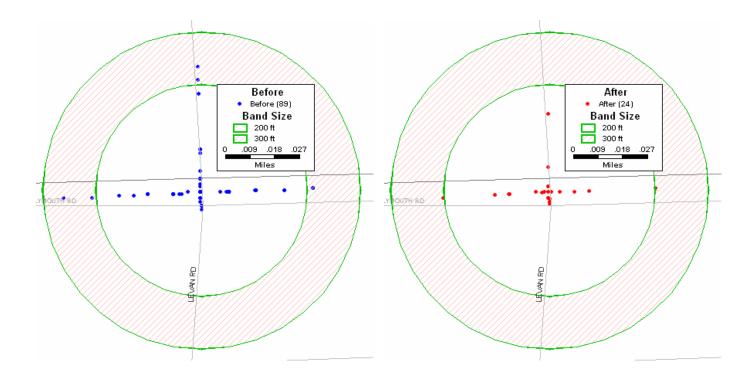
Day of Week	Before	%	After	%
Sunday	1	12.5	0	0.0
Monday	3	37.5	1	50.0
Tuesday	0	0.0	1	50.0
Wednesday	1	12.5	0	0.0
Thursday	2	25.0	0	0.0
Friday	1	12.5	0	0.0
Saturday	0	0.0	0	0.0
Total	8	100.0	2	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	12.5	0	0.0
10am - 3:59pm	3	37.5	0	0.0
4pm - 7:59pm	2	25.0	1	50.0
8pm - 5:59am	1	12.5	1	50.0
Unknown	1	12.5	0	0.0
Total	8	100.0	2	100.0

Crash Type	Before	%	After	%
Single vehicle	1	12.5	1	50.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	0	0.0
Rear-end	4	50.0	1	50.0
Sideswipe	3	37.5	0	0.0
Other/unknown	0	0.0	0	0.0
Total	8	100.0	2	100.0

M14 (Plymouth Road) and Levan

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	2.2	0	0.0
B-Injury	8	9.0	0	0.0
C-Injury	13	14.6	5	20.8
O-Injury	66	74.2	19	79.2
Total	89	100.0	24	100.0

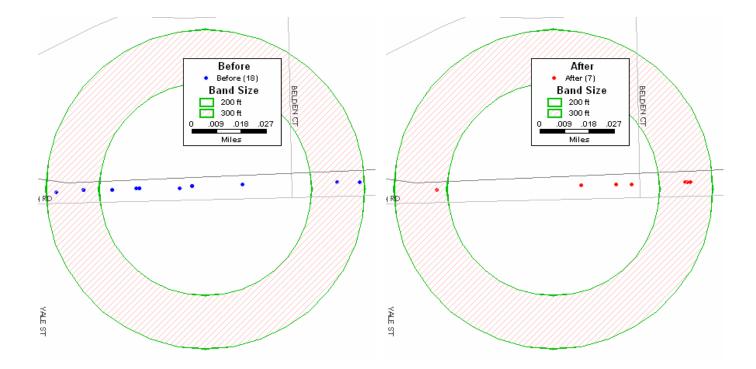
Day of Week	Before	%	After	%
Sunday	1	1.1	0	0.0
Monday	17	19.1	4	16.7
Tuesday	15	16.9	5	20.8
Wednesday	14	15.7	7	29.2
Thursday	10	11.2	2	8.3
Friday	22	24.7	3	12.5
Saturday	10	11.2	3	12.5
Total	89	100.0	24	100.0

Time of Day	Before	%	After	%
6am - 9:59am	13	14.6	5	20.8
10am - 3:59pm	35	39.3	9	37.5
4pm - 7:59pm	23	25.8	8	33.3
8pm - 5:59am	7	7.9	2	8.3
Unknown	11	12.4	0	0.0
Total	89	100.0	24	100.0

Crash Type	Before	%	After	%
Single vehicle	4	4.5	0	0.0
Head-on	19	21.3	5	20.8
Angle	23	25.8	9	37.5
Rear-end	26	29.2	5	20.8
Sideswipe	15	16.9	4	16.7
Other/unknown	2	2.2	1	4.2
Total	89	100.0	24	100.0

M14 (Plymouth Road) and Ford Transmission

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	5.6	0	0.0
B-Injury	1	5.6	1	14.3
C-Injury	4	22.2	0	0.0
O-Injury	12	66.7	6	85.7
Total	18	100.0	7	100.0

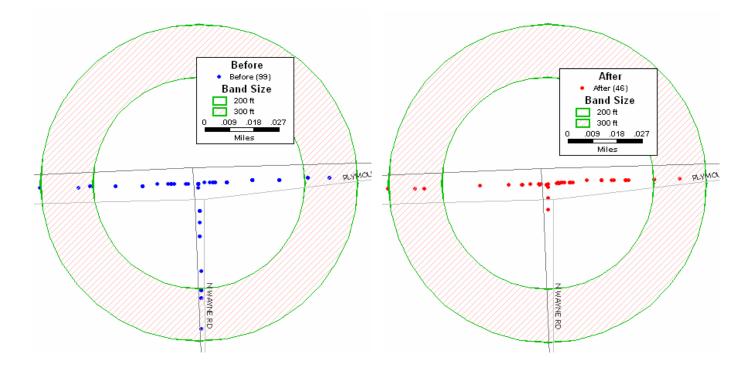
Day of Week	Before	%	After	%
Sunday	1	5.6	0	0.0
Monday	3	16.7	0	0.0
Tuesday	1	5.6	1	14.3
Wednesday	3	16.7	2	28.6
Thursday	1	5.6	1	14.3
Friday	7	38.9	2	28.6
Saturday	2	11.1	1	14.3
Total	18	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	5.6	2	28.6
10am - 3:59pm	7	38.9	4	57.1
4pm - 7:59pm	4	22.2	1	14.3
8pm - 5:59am	5	27.8	0	0.0
Unknown	1	5.6	0	0.0
Total	18	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	3	16.7	0	0.0
Head-on	0	0.0	0	0.0
Angle	3	16.7	2	28.6
Rear-end	10	55.6	4	57.1
Sideswipe	1	5.6	1	14.3
Other/unknown	1	5.6	0	0.0
Total	18	100.0	7	100.0

M14 (Plymouth Road) and Wayne

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	5	5.1	0	0.0
C-Injury	16	16.2	10	21.7
O-Injury	78	78.8	36	78.3
Total	99	100.0	46	100.0

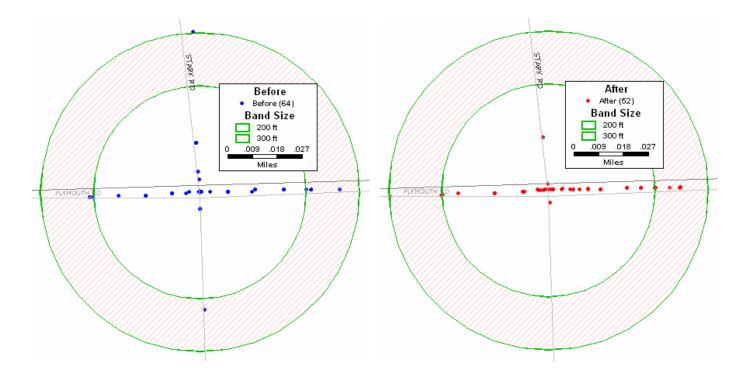
Day of Week	Before	%	After	%
Sunday	7	7.1	2	4.3
Monday	19	19.2	7	15.2
Tuesday	16	16.2	8	17.4
Wednesday	18	18.2	10	21.7
Thursday	13	13.1	7	15.2
Friday	19	19.2	9	19.6
Saturday	7	7.1	3	6.5
Total	99	100.0	46	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	11.1	1	2.2
10am - 3:59pm	42	42.4	28	60.9
4pm - 7:59pm	27	27.3	10	21.7
8pm - 5:59am	12	12.1	7	15.2
Unknown	7	7.1	0	0.0
Total	99	100.0	46	100.0

Crash Type	Before	%	After	%
Single vehicle	1	1.0	2	4.3
Head-on	1	1.0	5	10.9
Angle	16	16.2	9	19.6
Rear-end	55	55.6	19	41.3
Sideswipe	25	25.3	11	23.9
Other/unknown	1	1.0	0	0.0
Total	99	100.0	46	100.0

M14 (Plymouth Road) and Stark

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.6	1	1.9
B-Injury	2	3.1	3	5.8
C-Injury	10	15.6	6	11.5
O-Injury	51	79.7	42	80.8
Total	64	100.0	52	100.0

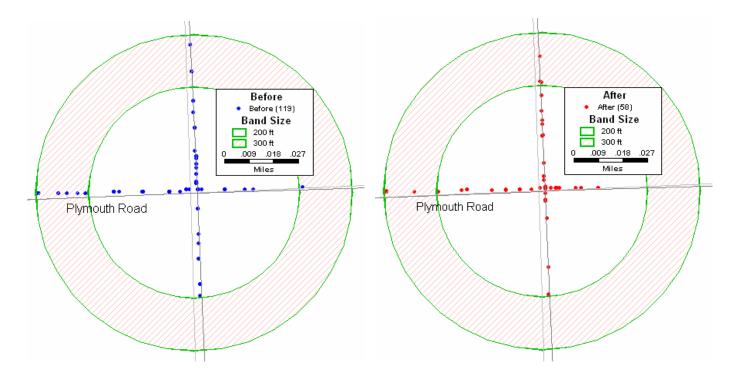
Day of Week	Before	%	After	%
Sunday	0	0.0	3	5.8
Monday	7	10.9	7	13.5
Tuesday	15	23.4	9	17.3
Wednesday	16	25.0	14	26.9
Thursday	10	15.6	6	11.5
Friday	12	18.8	5	9.6
Saturday	4	6.3	8	15.4
Total	64	100.0	52	100.0

Time of Day	Before	%	After	%
6am - 9:59am	7	10.9	6	11.5
10am - 3:59pm	27	42.2	25	48.1
4pm - 7:59pm	14	21.9	15	28.8
8pm - 5:59am	9	14.1	6	11.5
Unknown	7	10.9	0	0.0
Total	64	100.0	52	100.0

Crash Type	Before	%	After	%
Single vehicle	4	6.3	1	1.9
Head-on	4	6.3	6	11.5
Angle	19	29.7	15	28.8
Rear-end	28	43.8	26	50.0
Sideswipe	5	7.8	4	7.7
Other/unknown	4	6.3	0	0.0
Total	64	100.0	52	100.0

M14 (Plymouth Road) and Farmington

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	1.7
B-Injury	3	2.5	4	6.9
C-Injury	12	10.1	4	6.9
O-Injury	104	87.4	49	84.5
Total	119	100.0	58	100.0

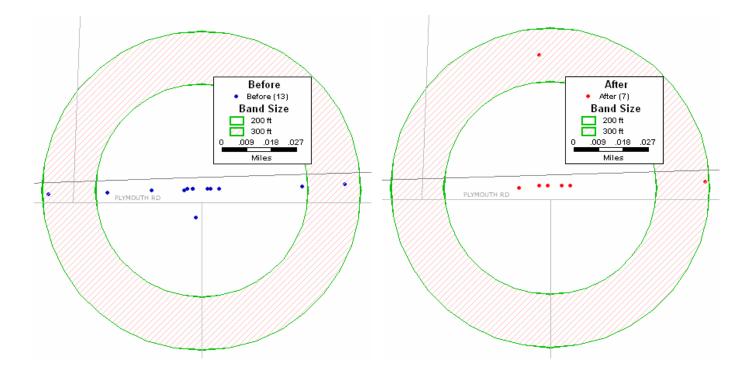
Day of Week	Before	%	After	%
Sunday	2	1.7	5	8.6
Monday	14	11.8	9	15.5
Tuesday	22	18.5	10	17.2
Wednesday	20	16.8	13	22.4
Thursday	19	16.0	6	10.3
Friday	27	22.7	12	20.7
Saturday	15	12.6	3	5.2
Total	119	100.0	58	100.0

Time of Day	Before	%	After	%
6am - 9:59am	19	16.0	7	12.1
10am - 3:59pm	52	43.7	29	50.0
4pm - 7:59pm	32	26.9	18	31.0
8pm - 5:59am	9	7.6	4	6.9
Unknown	7	5.9	0	0.0
Total	119	100.0	58	100.0

Crash Type	Before	%	After	%
Single vehicle	3	2.5	1	1.7
Head-on	5	4.2	6	10.3
Angle	30	25.2	17	29.3
Rear-end	60	50.4	29	50.0
Sideswipe	15	12.6	4	6.9
Other/unknown	6	5.0	1	1.7
Total	119	100.0	58	100.0

M14 (Plymouth Road) and Hubbard

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	1	14.3
A-Injury	0	0.0	0	0.0
B-Injury	1	7.7	1	14.3
C-Injury	5	38.5	3	42.9
O-Injury	7	53.8	2	28.6
Total	13	100.0	7	100.0

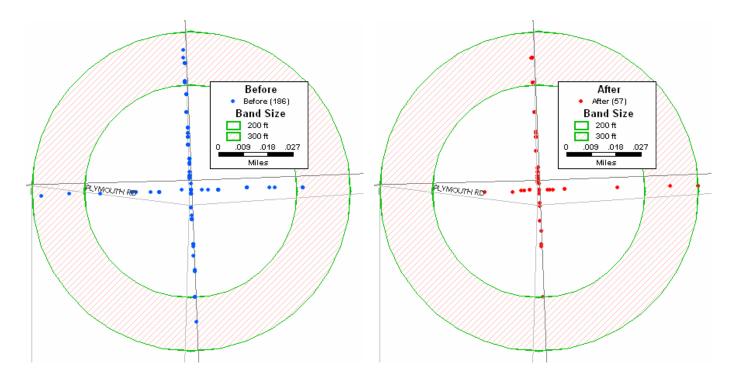
Day of Week	Before	%	After	%
Sunday	0	0.0	2	28.6
Monday	4	30.8	0	0.0
Tuesday	2	15.4	0	0.0
Wednesday	1	7.7	0	0.0
Thursday	2	15.4	3	42.9
Friday	4	30.8	1	14.3
Saturday	0	0.0	1	14.3
Total	13	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	7.7	0	0.0
10am - 3:59pm	7	53.8	6	85.7
4pm - 7:59pm	3	23.1	1	14.3
8pm - 5:59am	0	0.0	0	0.0
Unknown	2	15.4	0	0.0
Total	13	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	2	15.4	1	14.3
Head-on	1	7.7	0	0.0
Angle	2	15.4	3	42.9
Rear-end	8	61.5	1	14.3
Sideswipe	0	0.0	1	14.3
Other/unknown	0	0.0	1	14.3
Total	13	100.0	7	100.0

M14 (Plymouth Road) and Merriman

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	1	1.8
A-Injury	0	0.0	0	0.0
B-Injury	9	4.8	2	3.5
C-Injury	29	15.6	11	19.3
O-Injury	148	79.6	43	75.4
Total	186	100.0	57	100.0

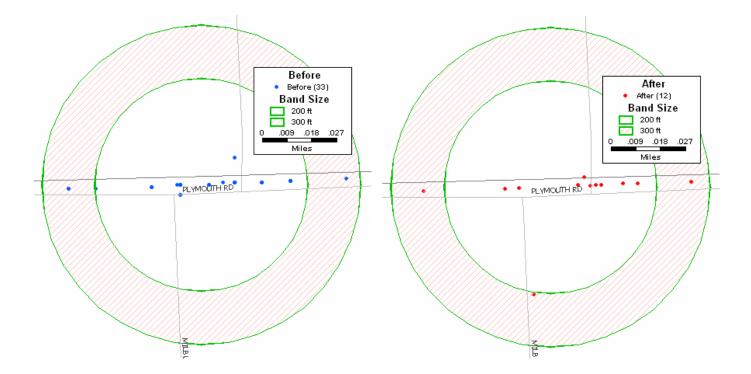
Day of Week	Before	%	After	%
Sunday	13	7.0	2	3.5
Monday	34	18.3	13	22.8
Tuesday	35	18.8	9	15.8
Wednesday	27	14.5	13	22.8
Thursday	39	21.0	9	15.8
Friday	26	14.0	8	14.0
Saturday	12	6.5	3	5.3
Total	186	100.0	57	100.0

Time of Day	Before	%	After	%
6am - 9:59am	29	15.6	7	12.3
10am - 3:59pm	69	37.1	21	36.8
4pm - 7:59pm	64	34.4	22	38.6
8pm - 5:59am	13	7.0	7	12.3
Unknown	11	5.9	0	0.0
Total	186	100.0	57	100.0

Crash Type	Before	%	After	%
Single vehicle	4	2.2	2	3.5
Head-on	9	4.8	4	7.0
Angle	68	36.6	26	45.6
Rear-end	87	46.8	23	40.4
Sideswipe	13	7.0	2	3.5
Other/unknown	5	2.7	0	0.0
Total	186	100.0	57	100.0

M14 (Plymouth Road) and Milburn/Sears

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	6.1	0	0.0
C-Injury	5	15.2	2	16.7
O-Injury	26	78.8	10	83.3
Total	33	100.0	12	100.0

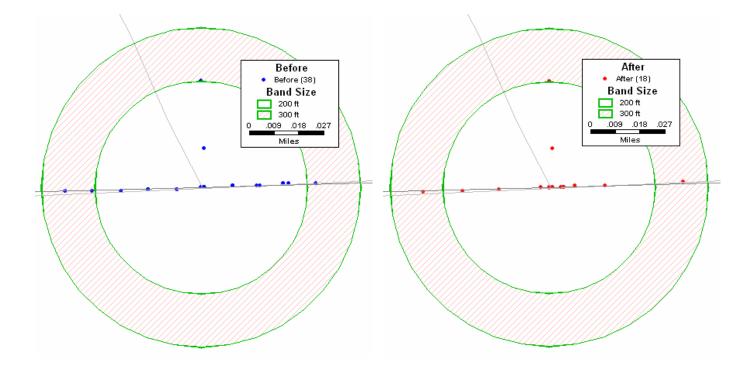
Day of Week	Before	%	After	%
Sunday	2	6.1	0	0.0
Monday	4	12.1	3	25.0
Tuesday	3	9.1	2	16.7
Wednesday	8	24.2	2	16.7
Thursday	6	18.2	0	0.0
Friday	8	24.2	3	25.0
Saturday	2	6.1	2	16.7
Total	33	100.0	12	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	6.1	2	16.7
10am - 3:59pm	18	54.5	5	41.7
4pm - 7:59pm	8	24.2	4	33.3
8pm - 5:59am	4	12.1	1	8.3
Unknown	1	3.0	0	0.0
Total	33	100.0	12	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.0	0	0.0
Head-on	2	6.1	0	0.0
Angle	7	21.2	2	16.7
Rear-end	18	54.5	5	41.7
Sideswipe	3	9.1	4	33.3
Other/unknown	2	6.1	1	8.3
Total	33	100.0	12	100.0

M14 (Plymouth Road) and Tech Center

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	7.9	2	11.1
C-Injury	5	13.2	2	11.1
O-Injury	30	78.9	14	77.8
Total	38	100.0	18	100.0

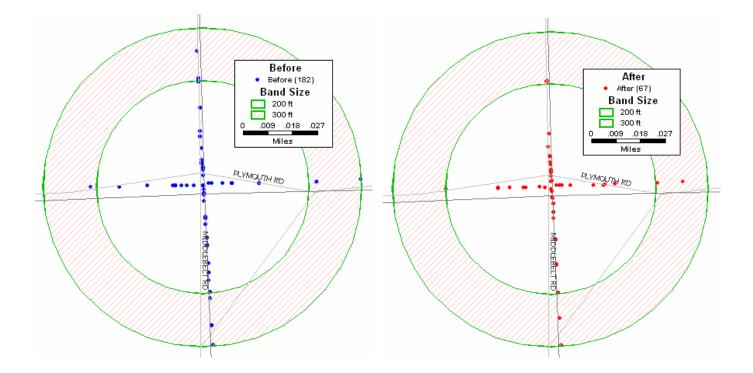
Day of Week	Before	%	After	%
Sunday	3	7.9	1	5.6
Monday	3	7.9	2	11.1
Tuesday	5	13.2	5	27.8
Wednesday	6	15.8	5	27.8
Thursday	7	18.4	0	0.0
Friday	12	31.6	3	16.7
Saturday	2	5.3	2	11.1
Total	38	100.0	18	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	10.5	3	16.7
10am - 3:59pm	18	47.4	8	44.4
4pm - 7:59pm	12	31.6	4	22.2
8pm - 5:59am	2	5.3	3	16.7
Unknown	2	5.3	0	0.0
Total	38	100.0	18	100.0

Crash Type	Before	%	After	%
Single vehicle	2	5.3	1	5.6
Head-on	3	7.9	1	5.6
Angle	17	44.7	8	44.4
Rear-end	11	28.9	8	44.4
Sideswipe	5	13.2	0	0.0
Other/unknown	0	0.0	0	0.0
Total	38	100.0	18	100.0

M14 (Plymouth Road) and Middlebelt

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.1	1	1.5
B-Injury	4	2.2	2	3.0
C-Injury	39	21.4	13	19.4
O-Injury	137	75.3	51	76.1
Total	182	100.0	67	100.0

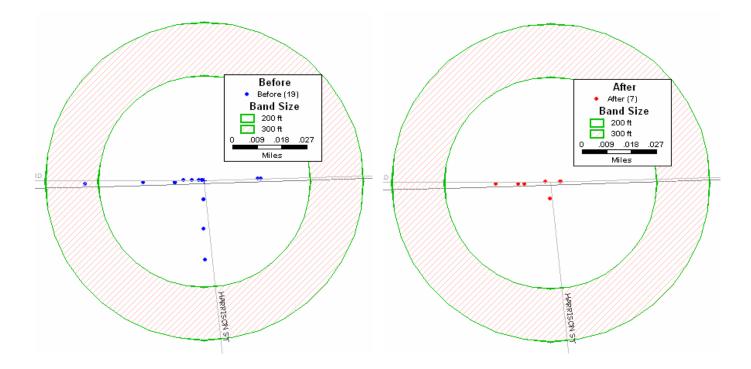
Day of Week	Before	%	After	%
Sunday	17	9.3	3	4.5
Monday	22	12.1	11	16.4
Tuesday	18	9.9	13	19.4
Wednesday	22	12.1	12	17.9
Thursday	37	20.3	12	17.9
Friday	37	20.3	9	13.4
Saturday	29	15.9	7	10.4
Total	182	100.0	67	100.0

Time of Day	Before	%	After	%
6am - 9:59am	25	13.7	4	6.0
10am - 3:59pm	82	45.1	31	46.3
4pm - 7:59pm	45	24.7	23	34.3
8pm - 5:59am	25	13.7	9	13.4
Unknown	5	2.7	0	0.0
Total	182	100.0	67	100.0

Crash Type	Before	%	After	%
Single vehicle	6	3.3	3	4.5
Head-on	15	8.2	4	6.0
Angle	47	25.8	14	20.9
Rear-end	91	50.0	33	49.3
Sideswipe	18	9.9	11	16.4
Other/unknown	5	2.7	2	3.0
Total	182	100.0	67	100.0

M14 (Plymouth Road) and Harrison

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	5.3	0	0.0
B-Injury	1	5.3	0	0.0
C-Injury	5	26.3	2	28.6
O-Injury	12	63.2	5	71.4
Total	19	100.0	7	100.0

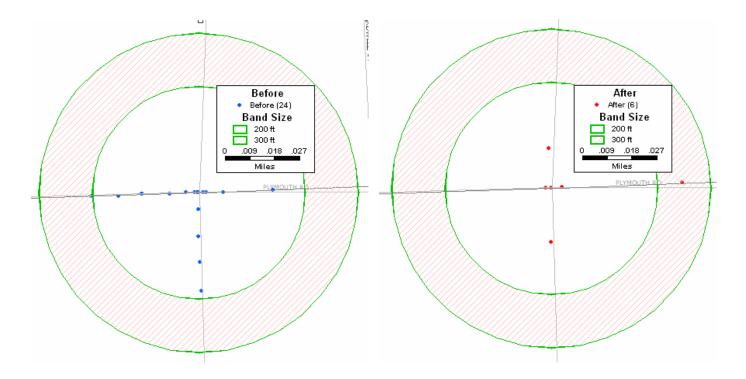
Day of Week	Before	%	After	%
Sunday	3	15.8	0	0.0
Monday	3	15.8	0	0.0
Tuesday	1	5.3	2	28.6
Wednesday	3	15.8	0	0.0
Thursday	3	15.8	2	28.6
Friday	4	21.1	1	14.3
Saturday	2	10.5	2	28.6
Total	19	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	21.1	0	0.0
10am - 3:59pm	9	47.4	7	100.0
4pm - 7:59pm	4	21.1	0	0.0
8pm - 5:59am	2	10.5	0	0.0
Unknown	0	0.0	0	0.0
Total	19	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	3	15.8	0	0.0
Head-on	1	5.3	0	0.0
Angle	6	31.6	1	14.3
Rear-end	8	42.1	5	71.4
Sideswipe	1	5.3	0	0.0
Other/unknown	0	0.0	1	14.3
Total	19	100.0	7	100.0

M14 (Plymouth Road) and Deering

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	4.2	0	0.0
B-Injury	3	12.5	0	0.0
C-Injury	3	12.5	1	16.7
O-Injury	17	70.8	5	83.3
Total	24	100.0	6	100.0

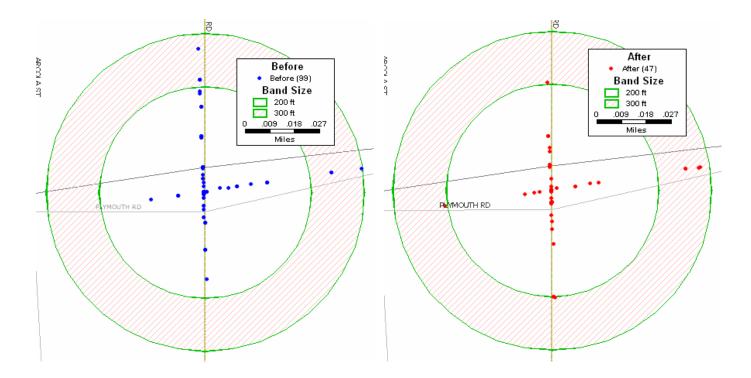
Day of Week	Before	%	After	%
Sunday	2	8.3	0	0.0
Monday	2	8.3	0	0.0
Tuesday	2	8.3	1	16.7
Wednesday	3	12.5	0	0.0
Thursday	3	12.5	1	16.7
Friday	9	37.5	1	16.7
Saturday	3	12.5	3	50.0
Total	24	100.0	6	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	12.5	1	16.7
10am - 3:59pm	8	33.3	4	66.7
4pm - 7:59pm	6	25.0	1	16.7
8pm - 5:59am	5	20.8	0	0.0
Unknown	2	8.3	0	0.0
Total	24	100.0	6	100.0

Crash Type	Before	%	After	%
Single vehicle	1	4.2	1	16.7
Head-on	3	12.5	0	0.0
Angle	7	29.2	2	33.3
Rear-end	9	37.5	3	50.0
Sideswipe	0	0.0	0	0.0
Other/unknown	4	16.7	0	0.0
Total	24	100.0	6	100.0

M14 (Plymouth Road) and Inkster

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.0	0	0.0
B-Injury	1	1.0	2	4.3
C-Injury	14	14.1	12	25.5
O-Injury	83	83.8	33	70.2
Total	99	100.0	47	100.0

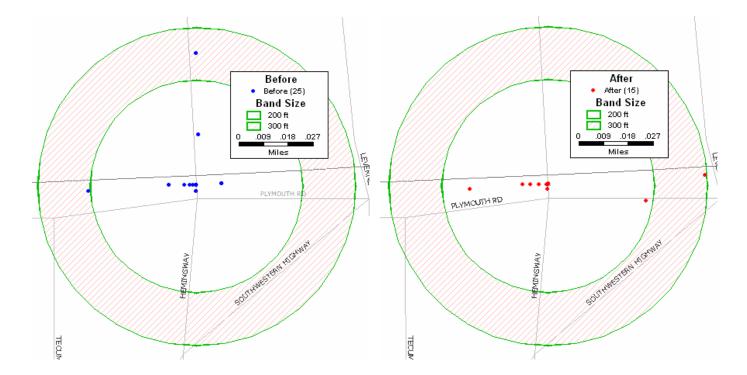
Day of Week	Before	%	After	%
Sunday	8	8.1	3	6.4
Monday	16	16.2	7	14.9
Tuesday	18	18.2	8	17.0
Wednesday	20	20.2	7	14.9
Thursday	8	8.1	5	10.6
Friday	16	16.2	9	19.1
Saturday	13	13.1	8	17.0
Total	99	100.0	47	100.0

Time of Day	Before	%	After	%
6am - 9:59am	14	14.1	7	14.9
10am - 3:59pm	40	40.4	18	38.3
4pm - 7:59pm	27	27.3	15	31.9
8pm - 5:59am	10	10.1	7	14.9
Unknown	8	8.1	0	0.0
Total	99	100.0	47	100.0

Crash Type	Before	%	After	%
Single vehicle	1	1.0	0	0.0
Head-on	7	7.1	3	6.4
Angle	30	30.3	17	36.2
Rear-end	48	48.5	18	38.3
Sideswipe	9	9.1	5	10.6
Other/unknown	4	4.0	4	8.5
Total	99	100.0	47	100.0

M14 (Plymouth Road) and Hemingway

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	2	13.3
B-Injury	0	0.0	1	6.7
C-Injury	5	20.0	2	13.3
O-Injury	20	80.0	10	66.7
Total	25	100.0	15	100.0

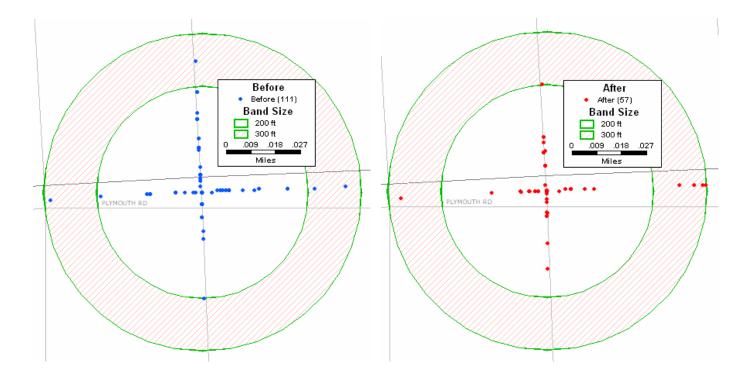
Day of Week	Before	%	After	%
Sunday	0	0.0	2	13.3
Monday	6	24.0	2	13.3
Tuesday	4	16.0	0	0.0
Wednesday	6	24.0	4	26.7
Thursday	1	4.0	1	6.7
Friday	8	32.0	3	20.0
Saturday	0	0.0	3	20.0
Total	25	100.0	15	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	12.0	0	0.0
10am - 3:59pm	10	40.0	5	33.3
4pm - 7:59pm	7	28.0	6	40.0
8pm - 5:59am	2	8.0	2	13.3
Unknown	3	12.0	2	13.3
Total	25	100.0	15	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	13.3
Head-on	1	4.0	0	0.0
Angle	7	28.0	7	46.7
Rear-end	11	44.0	5	33.3
Sideswipe	5	20.0	0	0.0
Other/unknown	1	4.0	1	6.7
Total	25	100.0	15	100.0

M14 (Plymouth Road) and Beech Daly

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.8	1	1.8
B-Injury	9	8.1	0	0.0
C-Injury	17	15.3	10	17.5
O-Injury	83	74.8	46	80.7
Total	111	100.0	57	100.0

Day of Week	Before	%	After	%
Sunday	6	5.4	4	7.0
Monday	28	25.2	6	10.5
Tuesday	17	15.3	6	10.5
Wednesday	24	21.6	14	24.6
Thursday	10	9.0	10	17.5
Friday	17	15.3	10	17.5
Saturday	9	8.1	7	12.3
Total	111	100.0	57	100.0

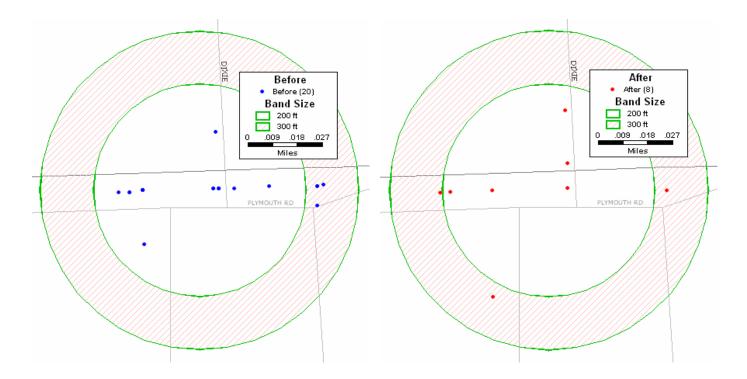
Time of Day	Before	%	After	%
6am - 9:59am	11	9.9	16	28.1
10am - 3:59pm	38	34.2	17	29.8
4pm - 7:59pm	42	37.8	16	28.1
8pm - 5:59am	11	9.9	8	14.0
Unknown	9	8.1	0	0.0
Total	111	100.0	57	100.0

Crash Type	Before	%	After	%
Single vehicle	2	1.8	0	0.0
Head-on	4	3.6	5	8.8
Angle	43	38.7	12	21.1
Rear-end	50	45.0	36	63.2
Sideswipe	7	6.3	4	7.0
Other/unknown	5	4.5	0	0.0
Total	111	100.0	57	100.0

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M14 (Plymouth Road) and Dixie

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	2	10.0	0	0.0
O-Injury	18	90.0	8	100.0
Total	20	100.0	8	100.0

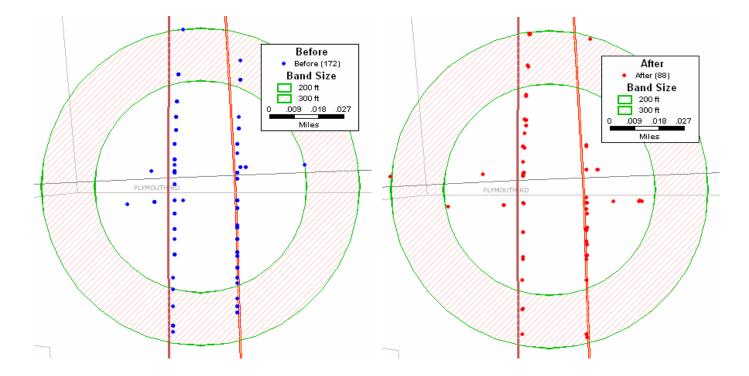
Day of Week	Before	%	After	%
Sunday	0	0.0	1	12.5
Monday	4	20.0	0	0.0
Tuesday	4	20.0	1	12.5
Wednesday	2	10.0	0	0.0
Thursday	1	5.0	2	25.0
Friday	5	25.0	3	37.5
Saturday	4	20.0	1	12.5
Total	20	100.0	8	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	20.0	1	12.5
10am - 3:59pm	8	40.0	4	50.0
4pm - 7:59pm	3	15.0	2	25.0
8pm - 5:59am	4	20.0	0	0.0
Unknown	1	5.0	1	12.5
Total	20	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.0	0	0.0
Head-on	1	5.0	0	0.0
Angle	3	15.0	0	0.0
Rear-end	7	35.0	2	25.0
Sideswipe	5	25.0	4	50.0
Other/unknown	3	15.0	2	25.0
Total	20	100.0	8	100.0

M14 (Plymouth Road) and Telegraph

Date of Signal Optimization: May 1, 2004



1,217 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	1.2	1	1.1
B-Injury	1	0.6	2	2.3
C-Injury	25	14.5	11	12.5
O-Injury	144	83.7	74	84.1
Total	172	100.0	88	100.0

Day of Week	Before	%	After	%
Sunday	15	8.7	6	6.8
Monday	33	19.2	13	14.8
Tuesday	23	13.4	11	12.5
Wednesday	19	11.0	12	13.6
Thursday	32	18.6	12	13.6
Friday	24	14.0	16	18.2
Saturday	26	15.1	18	20.5
Total	172	100.0	88	100.0

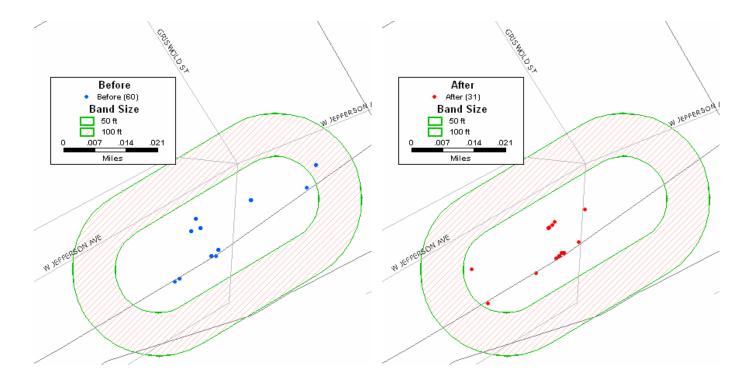
Time of Day	Before	%	After	%
6am - 9:59am	24	14.0	20	22.7
10am - 3:59pm	72	41.9	33	37.5
4pm - 7:59pm	49	28.5	22	25.0
8pm - 5:59am	16	9.3	13	14.8
Unknown	11	6.4	0	0.0
Total	172	100.0	88	100.0

Crash Type	Before	%	After	%
Single vehicle	5	2.9	1	1.1
Head-on	1	0.6	1	1.1
Angle	18	10.5	17	19.3
Rear-end	125	72.7	47	53.4
Sideswipe	18	10.5	20	22.7
Other/unknown	5	2.9	2	2.3
Total	172	100.0	88	100.0

Jefferson Avenue

WB Jefferson Avenue and Griswold

Date of Signal Optimization: February 5, 2004



1,131 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	3.3	0	0.0
C-Injury	12	20.0	5	16.1
O-Injury	46	76.7	26	83.9
Total	60	100.0	31	100.0

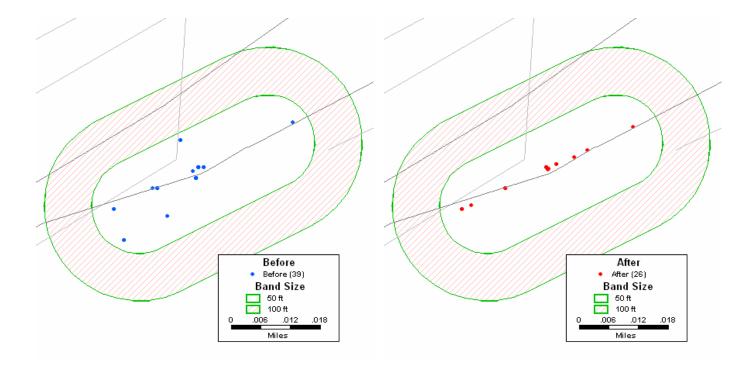
Day of Week	Before	%	After	%
Sunday	17	28.3	3	9.7
Monday	3	5.0	3	9.7
Tuesday	9	15.0	5	16.1
Wednesday	5	8.3	8	25.8
Thursday	4	6.7	3	9.7
Friday	11	18.3	6	19.4
Saturday	11	18.3	3	9.7
Total	60	100.0	31	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	8.3	2	6.5
10am - 3:59pm	15	25.0	13	41.9
4pm - 7:59pm	16	26.7	11	35.5
8pm - 5:59am	17	28.3	5	16.1
Unknown	7	11.7	0	0.0
Total	60	100.0	31	100.0

Crash Type	Before	%	After	%
Single vehicle	2	3.3	1	3.2
Head-on	1	1.7	2	6.5
Angle	4	6.7	4	12.9
Rear-end	34	56.7	19	61.3
Sideswipe	15	25.0	5	16.1
Other/unknown	4	6.7	0	0.0
Total	60	100.0	31	100.0

EB Jefferson Avenue (M10) and Griswold

Date of Signal Optimization: February 5, 2004



1,131 days before

Injury Severity	Before	%	After	%
Fatal	1	2.6	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	5.1	0	0.0
C-Injury	2	5.1	5	19.2
O-Injury	34	87.2	21	80.8
Total	39	100.0	26	100.0

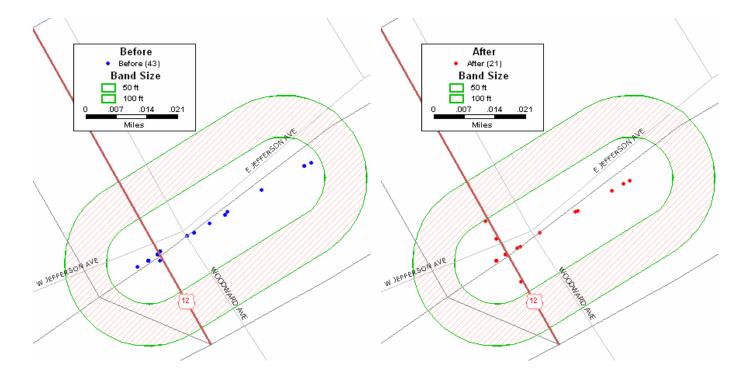
Day of Week	Before	%	After	%
Sunday	4	10.3	1	3.8
Monday	2	5.1	2	7.7
Tuesday	4	10.3	4	15.4
Wednesday	5	12.8	7	26.9
Thursday	9	23.1	3	11.5
Friday	9	23.1	5	19.2
Saturday	6	15.4	4	15.4
Total	39	100.0	26	100.0

Time of Day	Before	%	After	%
6am - 9:59am	7	17.9	4	15.4
10am - 3:59pm	11	28.2	7	26.9
4pm - 7:59pm	12	30.8	8	30.8
8pm - 5:59am	8	20.5	7	26.9
Unknown	1	2.6	0	0.0
Total	39	100.0	26	100.0

Crash Type	Before	%	After	%
Single vehicle	2	5.1	0	0.0
Head-on	0	0.0	0	0.0
Angle	4	10.3	0	0.0
Rear-end	24	61.5	18	69.2
Sideswipe	7	17.9	8	30.8
Other/unknown	2	5.1	0	0.0
Total	39	100.0	26	100.0

WB Jefferson Avenue and NB Woodward

Date of Signal Optimization: February 5, 2004



1,131 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	4.8
B-Injury	0	0.0	0	0.0
C-Injury	5	11.6	2	9.5
O-Injury	38	88.4	18	85.7
Total	43	100.0	21	100.0

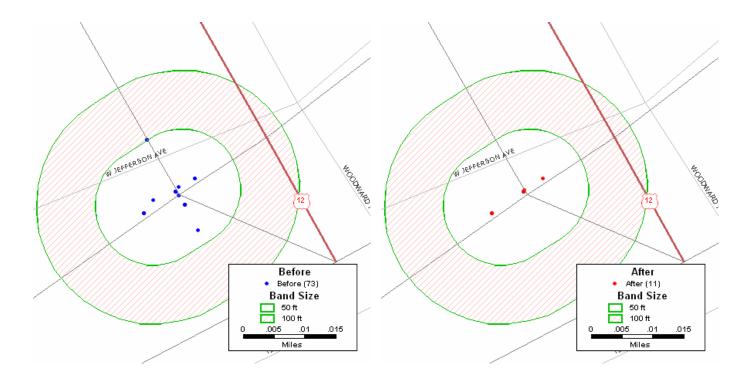
Day of Week	Before	%	After	%
Sunday	10	23.3	1	4.8
Monday	5	11.6	3	14.3
Tuesday	7	16.3	1	4.8
Wednesday	6	14.0	3	14.3
Thursday	4	9.3	3	14.3
Friday	6	14.0	6	28.6
Saturday	5	11.6	4	19.0
Total	43	100.0	21	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	14.0	5	23.8
10am - 3:59pm	12	27.9	6	28.6
4pm - 7:59pm	11	25.6	6	28.6
8pm - 5:59am	11	25.6	4	19.0
Unknown	3	7.0	0	0.0
Total	43	100.0	21	100.0

Crash Type	Before	%	After	%
Single vehicle	2	4.7	1	4.8
Head-on	1	2.3	0	0.0
Angle	6	14.0	4	19.0
Rear-end	18	41.9	4	19.0
Sideswipe	12	27.9	11	52.4
Other/unknown	4	9.3	1	4.8
Total	43	100.0	21	100.0

WB Jefferson Avenue and SB Woodward

Date of Signal Optimization: February 5, 2004



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Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.4	1	9.1
B-Injury	1	1.4	0	0.0
C-Injury	10	13.7	1	9.1
O-Injury	61	83.6	9	81.8
Total	73	100.0	11	100.0

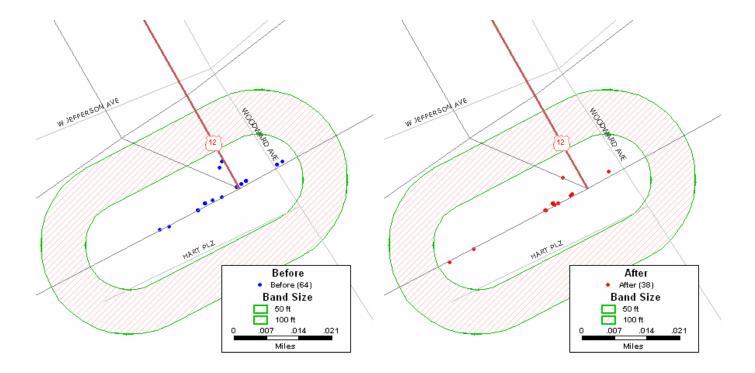
Time of Day	Before	%	After	%
6am - 9:59am	7	9.6	0	0.0
10am - 3:59pm	26	35.6	4	36.4
4pm - 7:59pm	18	24.7	3	27.3
8pm - 5:59am	16	21.9	3	27.3
Unknown	6	8.2	1	9.1
Total	73	100.0	11	100.0

Day of Week	Before	%	After	%
Sunday	10	13.7	1	9.1
Monday	13	17.8	0	0.0
Tuesday	7	9.6	3	27.3
Wednesday	11	15.1	1	9.1
Thursday	8	11.0	1	9.1
Friday	17	23.3	3	27.3
Saturday	7	9.6	2	18.2
Total	73	100.0	11	100.0

Crash Type	Before	%	After	%
Single vehicle	2	2.7	0	0.0
Head-on	3	4.1	0	0.0
Angle	9	12.3	2	18.2
Rear-end	27	37.0	4	36.4
Sideswipe	20	27.4	3	27.3
Other/unknown	12	16.4	2	18.2
Total	73	100.0	11	100.0

EB Jefferson Avenue and Woodward

Date of Signal Optimization: February 5, 2004



Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	3.1	0	0.0
B-Injury	3	4.7	0	0.0
C-Injury	6	9.4	3	7.9
O-Injury	53	82.8	35	92.1
Total	64	100.0	38	100.0

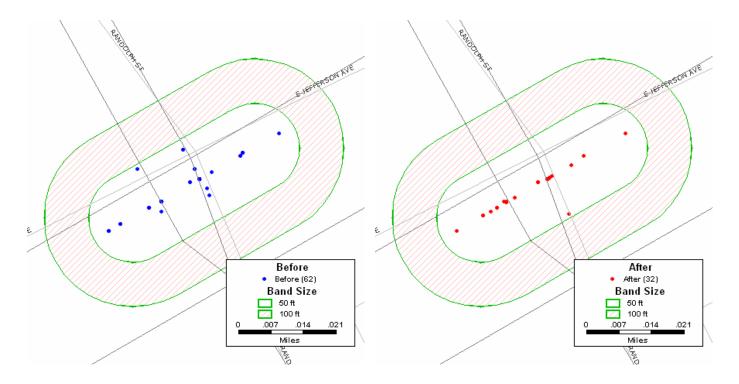
Day of Week	Before	%	After	%
Sunday	5	7.8	6	15.8
Monday	7	10.9	5	13.2
Tuesday	8	12.5	3	7.9
Wednesday	14	21.9	5	13.2
Thursday	10	15.6	5	13.2
Friday	12	18.8	5	13.2
Saturday	8	12.5	9	23.7
Total	64	100.0	38	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	17.2	11	28.9
10am - 3:59pm	24	37.5	5	13.2
4pm - 7:59pm	13	20.3	7	18.4
8pm - 5:59am	14	21.9	14	36.8
Unknown	2	3.1	1	2.6
Total	64	100.0	38	100.0

Crash Type	Before	%	After	%
Single vehicle	2	3.1	1	2.6
Head-on	0	0.0	1	2.6
Angle	8	12.5	5	13.2
Rear-end	25	39.1	17	44.7
Sideswipe	20	31.3	11	28.9
Other/unknown	9	14.1	3	7.9
Total	64	100.0	38	100.0

WB Jefferson Avenue and Randolph

Date of Signal Optimization: February 5, 2004



Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	3.2	2	6.3
C-Injury	4	6.5	1	3.1
O-Injury	56	90.3	29	90.6
Total	62	100.0	32	100.0

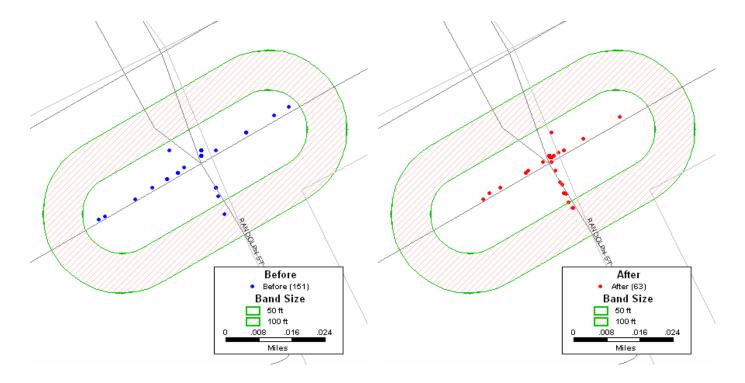
Day of Week	Before	%	After	%
Sunday	4	6.5	1	3.1
Monday	13	21.0	3	9.4
Tuesday	5	8.1	6	18.8
Wednesday	9	14.5	8	25.0
Thursday	7	11.3	3	9.4
Friday	12	19.4	4	12.5
Saturday	12	19.4	7	21.9
Total	62	100.0	32	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	8.1	11	34.4
10am - 3:59pm	28	45.2	7	21.9
4pm - 7:59pm	15	24.2	8	25.0
8pm - 5:59am	11	17.7	5	15.6
Unknown	3	4.8	1	3.1
Total	62	100.0	32	100.0

Crash Type	Before	%	After	%
Single vehicle	3	4.8	1	3.1
Head-on	1	1.6	0	0.0
Angle	14	22.6	8	25.0
Rear-end	16	25.8	8	25.0
Sideswipe	23	37.1	15	46.9
Other/unknown	5	8.1	0	0.0
Total	62	100.0	32	100.0

EB Jefferson Avenue and Randolph

Date of Signal Optimization: February 5, 2004



695 days after	695	days	after
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Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	0.7	1	1.6
C-Injury	15	9.9	6	9.5
O-Injury	135	89.4	56	88.9
Total	151	100.0	63	100.0

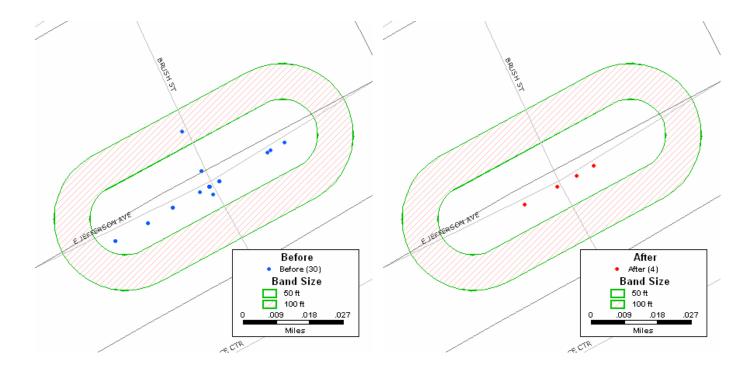
Day of Week	Before	%	After	%
Sunday	14	9.3	6	9.5
Monday	22	14.6	10	15.9
Tuesday	14	9.3	12	19.0
Wednesday	16	10.6	7	11.1
Thursday	21	13.9	7	11.1
Friday	35	23.2	16	25.4
Saturday	29	19.2	5	7.9
Total	151	100.0	63	100.0

Time of Day	Before	%	After	%
6am - 9:59am	17	11.3	7	11.1
10am - 3:59pm	50	33.1	18	28.6
4pm - 7:59pm	30	19.9	23	36.5
8pm - 5:59am	43	28.5	14	22.2
Unknown	11	7.3	1	1.6
Total	151	100.0	63	100.0

Crash Type	Before	%	After	%
Single vehicle	7	4.6	2	3.2
Head-on	2	1.3	2	3.2
Angle	27	17.9	10	15.9
Rear-end	39	25.8	19	30.2
Sideswipe	62	41.1	26	41.3
Other/unknown	14	9.3	4	6.3
Total	151	100.0	63	100.0

WB Jefferson Avenue and Brush

Date of Signal Optimization: February 5, 2004



695	days	after	
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Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	3.3	0	0.0
B-Injury	0	0.0	1	25.0
C-Injury	5	16.7	0	0.0
O-Injury	24	80.0	3	75.0
Total	30	100.0	4	100.0

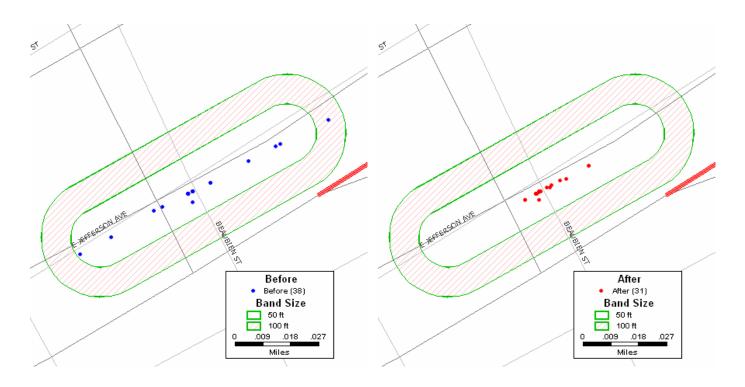
Day of Week	Before	%	After	%
Sunday	3	10.0	1	25.0
Monday	3	10.0	0	0.0
Tuesday	4	13.3	2	50.0
Wednesday	9	30.0	0	0.0
Thursday	4	13.3	0	0.0
Friday	4	13.3	1	25.0
Saturday	3	10.0	0	0.0
Total	30	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	7	23.3	0	0.0
10am - 3:59pm	10	33.3	2	50.0
4pm - 7:59pm	5	16.7	1	25.0
8pm - 5:59am	7	23.3	1	25.0
Unknown	1	3.3	0	0.0
Total	30	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	2	6.7	1	25.0
Head-on	0	0.0	0	0.0
Angle	3	10.0	3	75.0
Rear-end	9	30.0	0	0.0
Sideswipe	13	43.3	0	0.0
Other/unknown	3	10.0	0	0.0
Total	30	100.0	4	100.0

WB Jefferson Avenue and Beaubien

Date of Signal Optimization: February 5, 2004



Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	5.3	0	0.0
C-Injury	8	21.1	2	6.5
O-Injury	28	73.7	29	93.5
Total	38	100.0	31	100.0

Day of Week	Before	%	After	%
Sunday	3	7.9	1	3.2
Monday	4	10.5	6	19.4
Tuesday	14	36.8	9	29.0
Wednesday	4	10.5	6	19.4
Thursday	4	10.5	1	3.2
Friday	4	10.5	5	16.1
Saturday	5	13.2	3	9.7
Total	38	100.0	31	100.0

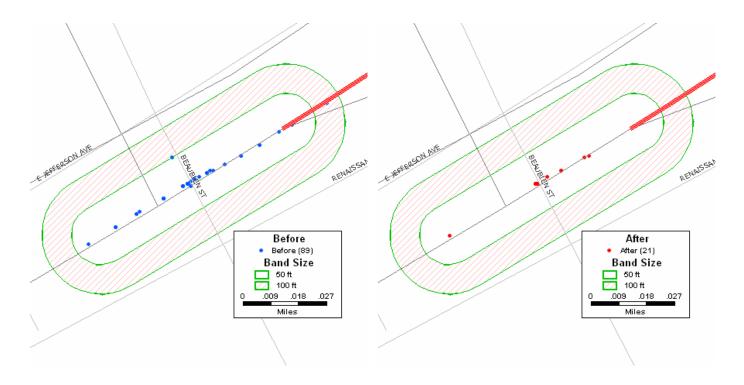
Time of Day	Before	%	After	%
6am - 9:59am	4	10.5	7	22.6
10am - 3:59pm	11	28.9	11	35.5
4pm - 7:59pm	8	21.1	6	19.4
8pm - 5:59am	9	23.7	6	19.4
Unknown	6	15.8	1	3.2
Total	38	100.0	31	100.0

Crash Type	Before	%	After	%
Single vehicle	2	5.3	0	0.0
Head-on	1	2.6	1	3.2
Angle	9	23.7	5	16.1
Rear-end	9	23.7	11	35.5
Sideswipe	12	31.6	14	45.2
Other/unknown	5	13.2	0	0.0
Total	38	100.0	31	100.0

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EB Jefferson Avenue and Beaubien

Date of Signal Optimization: February 5, 2004



1,131 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.1	1	4.8
B-Injury	2	2.2	0	0.0
C-Injury	13	14.6	1	4.8
O-Injury	73	82.0	19	90.5
Total	89	100.0	21	100.0

Day of Week	Before	%	After	%
Sunday	9	10.1	5	23.8
Monday	11	12.4	5	23.8
Tuesday	15	16.9	2	9.5
Wednesday	12	13.5	2	9.5
Thursday	19	21.3	2	9.5
Friday	14	15.7	1	4.8
Saturday	9	10.1	4	19.0
Total	89	100.0	21	100.0

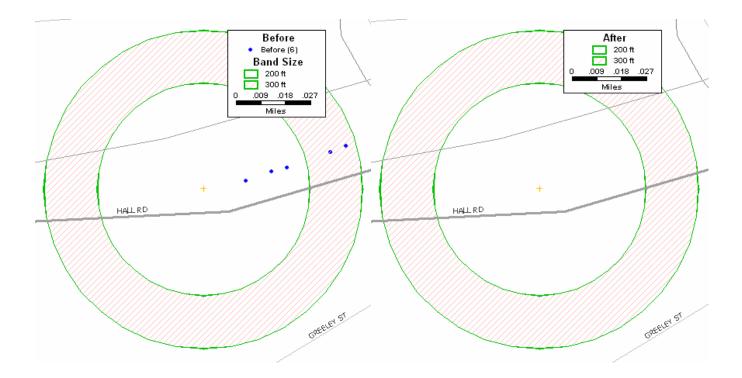
Time of Day Before After % % 6am - 9:59am 20 22.5 2 9.5 10am - 3:59pm 21 14.3 23.6 3 4pm - 7:59pm 25 9 42.9 28.1 8pm - 5:59am 21 23.6 6 28.6 Unknown 2 2.2 4.8 1 100.0 Total 89 100.0 21

Crash Type	Before	%	After	%
Single vehicle	7	7.9	3	14.3
Head-on	0	0.0	0	0.0
Angle	19	21.3	0	0.0
Rear-end	30	33.7	6	28.6
Sideswipe	23	25.8	12	57.1
Other/unknown	10	11.2	0	0.0
Total	89	100.0	21	100.0

Hall Road (M59)

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M59 (Hall Road) and Eastbound Crossover West of Van Dyke



Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	0	0.0	0	0.0
O-Injury	6	100.0	0	0.0
Total	6	100.0	0	0.0

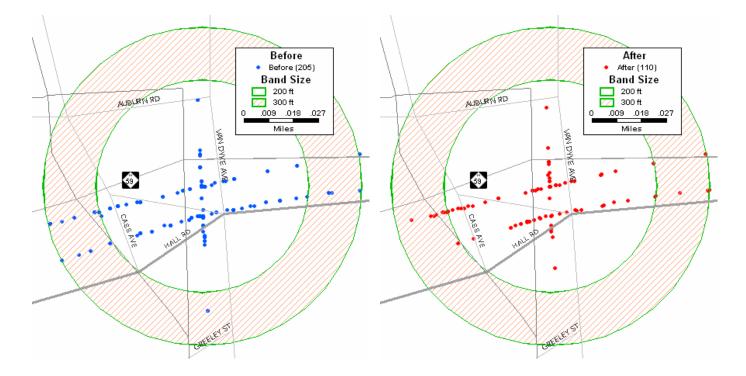
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	1	16.7	0	0.0
Tuesday	2	33.3	0	0.0
Wednesday	0	0.0	0	0.0
Thursday	1	16.7	0	0.0
Friday	1	16.7	0	0.0
Saturday	1	16.7	0	0.0
Total	6	100.0	0	0.0

Time of Day	Before	%	After	%
6am - 9:59am	1	16.7	0	0.0
10am - 3:59pm	2	33.3	0	0.0
4pm - 7:59pm	3	50.0	0	0.0
8pm - 5:59am	0	0.0	0	0.0
Unknown	0	0.0	0	0.0
Total	6	100.0	0	0.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	0	0.0
Rear-end	3	50.0	0	0.0
Sideswipe	3	50.0	0	0.0
Other/unknown	0	0.0	0	0.0
Total	6	100.0	0	0.0

M59 (Hall Road) and Van Dyke Avenue

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	1	0.5	0	0.0
A-Injury	1	0.5	0	0.0
B-Injury	2	1.0	3	2.7
C-Injury	30	14.6	20	18.2
O-Injury	171	83.4	87	79.1
Total	205	100.0	110	100.0

Day of Week	Before	%	After	%
Sunday	19	9.3	12	10.9
Monday	31	15.1	18	16.4
Tuesday	28	13.7	15	13.6
Wednesday	31	15.1	16	14.5
Thursday	27	13.2	16	14.5
Friday	40	19.5	22	20.0
Saturday	29	14.1	11	10.0
Total	205	100.0	110	100.0

Time of Day	Before	%	After	%
6am - 9:59am	42	20.5	19	17.3
10am - 3:59pm	87	42.4	50	45.5
4pm - 7:59pm	38	18.5	29	26.4
8pm - 5:59am	37	18.0	12	10.9
Unknown	1	0.5	0	0.0
Total	205	100.0	110	100.0

Crash Type	Before	%	After	%
Single vehicle	1	0.5	3	2.7
Head-on	1	0.5	1	0.9
Angle	30	14.6	18	16.4
Rear-end	125	61.0	71	64.5
Sideswipe	44	21.5	15	13.6
Other/unknown	4	2.0	2	1.8
Total	205	100.0	110	100.0

M59 (Hall Road) and Westbound Crossover at Custer Avenue

KLINGKAMMER ST KLINGKAMMER ST OUSTER AVE OUSTER AVE Before After Before (18) After (8) • Band Size Band Size 200 ft 🕖 300 ft 🔼 300 ft .009 .018 .027 Miles .009 .018 .027 Miles 0 0 ٠ . . ••• • . HALL RD HALL RD

Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	4	22.2	0	0.0
O-Injury	14	77.8	8	100.0
Total	18	100.0	8	100.0

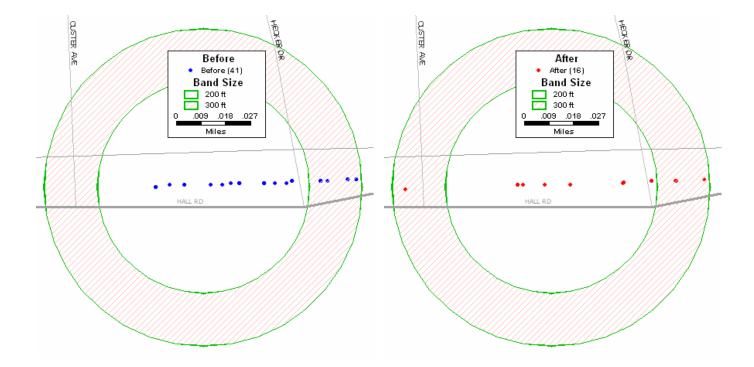
Day of Week	Before	%	After	%
Sunday	3	16.7	1	12.5
Monday	2	11.1	4	50.0
Tuesday	3	16.7	1	12.5
Wednesday	3	16.7	1	12.5
Thursday	1	5.6	0	0.0
Friday	1	5.6	1	12.5
Saturday	5	27.8	0	0.0
Total	18	100.0	8	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	22.2	4	50.0
10am - 3:59pm	6	33.3	2	25.0
4pm - 7:59pm	6	33.3	2	25.0
8pm - 5:59am	2	11.1	0	0.0
Unknown	0	0.0	0	0.0
Total	18	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	1	5.6	2	25.0
Rear-end	13	72.2	3	37.5
Sideswipe	4	22.2	2	25.0
Other/unknown	0	0.0	1	12.5
Total	18	100.0	8	100.0

M59 (Hall Road) and Eastbound Crossover West of Sterritt Street

Date of Signal Optimization: May 17, 2004



1,233 days before

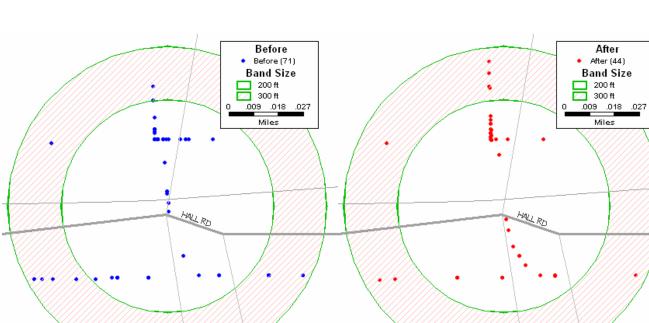
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.4	0	0.0
B-Injury	1	2.4	1	6.3
C-Injury	4	9.8	2	12.5
O-Injury	35	85.4	13	81.3
Total	41	100.0	16	100.0

Day of Week	Before	%	After	%
Sunday	4	9.8	3	18.8
Monday	6	14.6	1	6.3
Tuesday	10	24.4	2	12.5
Wednesday	8	19.5	2	12.5
Thursday	1	2.4	3	18.8
Friday	8	19.5	1	6.3
Saturday	4	9.8	4	25.0
Total	41	100.0	16	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	9.8	4	25.0
10am - 3:59pm	12	29.3	4	25.0
4pm - 7:59pm	19	46.3	7	43.8
8pm - 5:59am	3	7.3	1	6.3
Unknown	3	7.3	0	0.0
Total	41	100.0	16	100.0

Crash Type	Before	%	After	%
Single vehicle	1	2.4	0	0.0
Head-on	0	0.0	0	0.0
Angle	6	14.6	3	18.8
Rear-end	32	78.0	9	56.3
Sideswipe	2	4.9	4	25.0
Other/unknown	0	0.0	0	0.0
Total	41	100.0	16	100.0

M59 (Hall Road) Westbound and M53 Southbound off Ramp



Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.4	1	2.3
B-Injury	4	5.6	3	6.8
C-Injury	14	19.7	5	11.4
O-Injury	52	73.2	35	79.5
Total	71	100.0	44	100.0

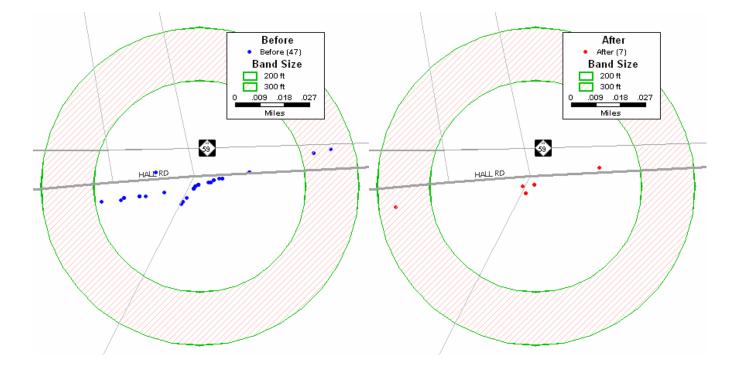
Day of Week	Before	%	After	%
Sunday	6	8.5	5	11.4
Monday	11	15.5	8	18.2
Tuesday	7	9.9	5	11.4
Wednesday	15	21.1	7	15.9
Thursday	9	12.7	6	13.6
Friday	17	23.9	8	18.2
Saturday	6	8.5	5	11.4
Total	71	100.0	44	100.0

Time of Day	Before	%	After	%
6am - 9:59am	15	21.1	6	13.6
10am - 3:59pm	34	47.9	17	38.6
4pm - 7:59pm	10	14.1	11	25.0
8pm - 5:59am	11	15.5	10	22.7
Unknown	1	1.4	0	0.0
Total	71	100.0	44	100.0

Crash Type	Before	%	After	%
Single vehicle	4	5.6	4	9.1
Head-on	0	0.0	0	0.0
Angle	11	15.5	6	13.6
Rear-end	48	67.6	28	63.6
Sideswipe	6	8.5	4	9.1
Other/unknown	2	2.8	2	4.5
Total	71	100.0	44	100.0

M59 (Hall Road) Eastbound and M53 Northbound off Ramp

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.1	0	0.0
B-Injury	1	2.1	0	0.0
C-Injury	3	6.4	3	42.9
O-Injury	42	89.4	4	57.1
Total	47	100.0	7	100.0

Day of Week	Before	%	After	%
Sunday	4	8.5	0	0.0
Monday	7	14.9	1	14.3
Tuesday	6	12.8	0	0.0
Wednesday	5	10.6	2	28.6
Thursday	11	23.4	3	42.9
Friday	9	19.1	1	14.3
Saturday	5	10.6	0	0.0
Total	47	100.0	7	100.0

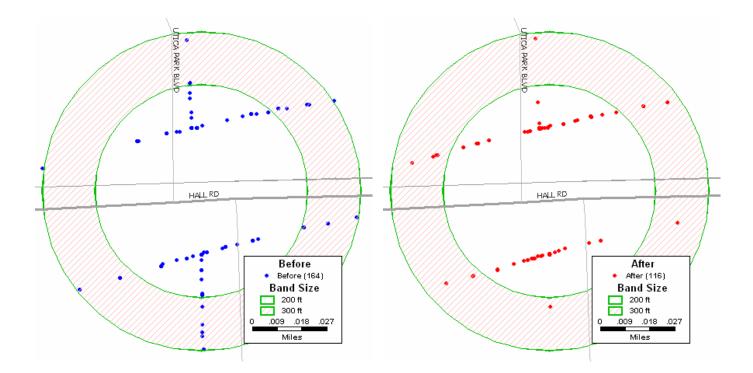
Time of Day	Before	%	After	%
6am - 9:59am	9	19.1	1	14.3
10am - 3:59pm	19	40.4	6	85.7
4pm - 7:59pm	9	19.1	0	0.0
8pm - 5:59am	9	19.1	0	0.0
Unknown	1	2.1	0	0.0
Total	47	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	2	4.3	0	0.0
Head-on	0	0.0	0	0.0
Angle	11	23.4	2	28.6
Rear-end	22	46.8	5	71.4
Sideswipe	11	23.4	0	0.0
Other/unknown	1	2.1	0	0.0
Total	47	100.0	7	100.0

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M59 (Hall Road) and Delco Blvd

Date of Signal Optimization: May 17, 2004



1,233 days before

593	days	after

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.6	0	0.0
B-Injury	10	6.1	3	2.6
C-Injury	20	12.2	20	17.2
O-Injury	133	81.1	93	80.2
Total	164	100.0	116	100.0

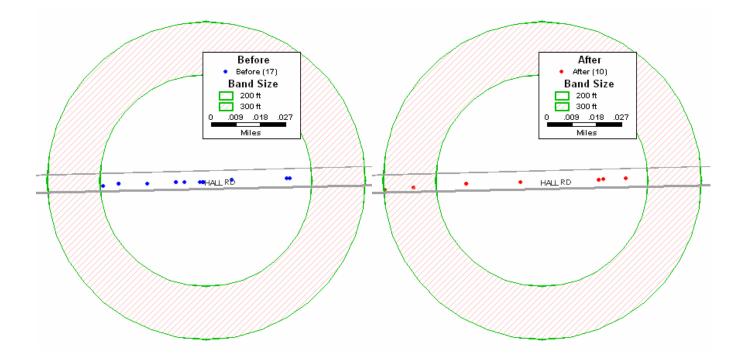
Day of Week	Before	%	After	%
Sunday	20	12.2	12	10.3
Monday	20	12.2	15	12.9
Tuesday	17	10.4	21	18.1
Wednesday	25	15.2	16	13.8
Thursday	18	11.0	21	18.1
Friday	35	21.3	13	11.2
Saturday	29	17.7	18	15.5
Total	164	100.0	116	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	6.7	22	19.0
10am - 3:59pm	57	34.8	41	35.3
4pm - 7:59pm	56	34.1	34	29.3
8pm - 5:59am	25	15.2	19	16.4
Unknown	15	9.1	0	0.0
Total	164	100.0	116	100.0

Crash Type	Before	%	After	%
Single vehicle	4	2.4	0	0.0
Head-on	0	0.0	1	0.9
Angle	40	24.4	33	28.4
Rear-end	79	48.2	65	56.0
Sideswipe	34	20.7	16	13.8
Other/unknown	7	4.3	1	0.9
Total	164	100.0	116	100.0

M59 (Hall Road) Westbound and Crossover East of Delco Blvd

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	1	10.0
C-Injury	4	23.5	1	10.0
O-Injury	13	76.5	8	80.0
Total	17	100.0	10	100.0

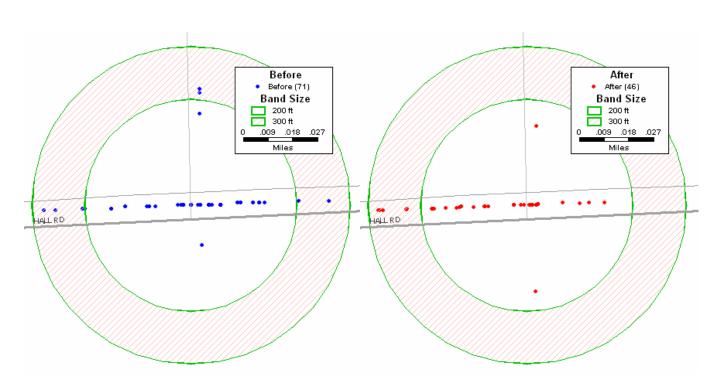
Day of Week	Before	%	After	%
Sunday	1	5.9	0	0.0
Monday	5	29.4	4	40.0
Tuesday	2	11.8	2	20.0
Wednesday	1	5.9	3	30.0
Thursday	4	23.5	0	0.0
Friday	3	17.6	1	10.0
Saturday	1	5.9	0	0.0
Total	17	100.0	10	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	11.8	1	10.0
10am - 3:59pm	8	47.1	3	30.0
4pm - 7:59pm	2	11.8	5	50.0
8pm - 5:59am	4	23.5	1	10.0
Unknown	1	5.9	0	0.0
Total	17	100.0	10	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.9	1	10.0
Head-on	0	0.0	0	0.0
Angle	2	11.8	0	0.0
Rear-end	9	52.9	9	90.0
Sideswipe	5	29.4	0	0.0
Other/unknown	0	0.0	0	0.0
Total	17	100.0	10	100.0

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M59 (Hall Road) Westbound and Crossover at Northpointe Blvd



Date of Signal Optimization: May 17, 2004

1,233 days before

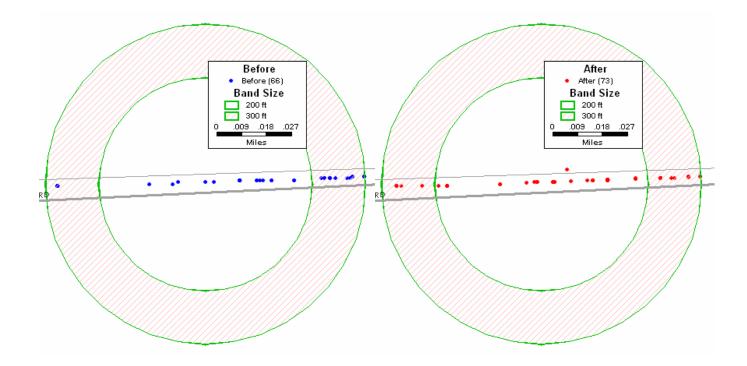
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	2.2
B-Injury	2	2.8	0	0.0
C-Injury	12	16.9	9	19.6
O-Injury	57	80.3	36	78.3
Total	71	100.0	46	100.0

Day of Week	Before	%	After	%
Sunday	8	11.3	4	8.7
Monday	9	12.7	5	10.9
Tuesday	10	14.1	3	6.5
Wednesday	6	8.5	10	21.7
Thursday	11	15.5	6	13.0
Friday	11	15.5	10	21.7
Saturday	16	22.5	8	17.4
Total	71	100.0	46	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	8.5	4	8.7
10am - 3:59pm	35	49.3	27	58.7
4pm - 7:59pm	15	21.1	11	23.9
8pm - 5:59am	11	15.5	4	8.7
Unknown	4	5.6	0	0.0
Total	71	100.0	46	100.0

Crash Type	Before	%	After	%
Single vehicle	1	1.4	0	0.0
Head-on	0	0.0	0	0.0
Angle	13	18.3	6	13.0
Rear-end	44	62.0	33	71.7
Sideswipe	12	16.9	6	13.0
Other/unknown	1	1.4	1	2.2
Total	71	100.0	46	100.0

M59 (Hall Road) Eastbound and Crossover West of Schoenherr Road



Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.5	0	0.0
B-Injury	1	1.5	1	1.4
C-Injury	15	22.7	15	20.5
O-Injury	49	74.2	57	78.1
Total	66	100.0	73	100.0

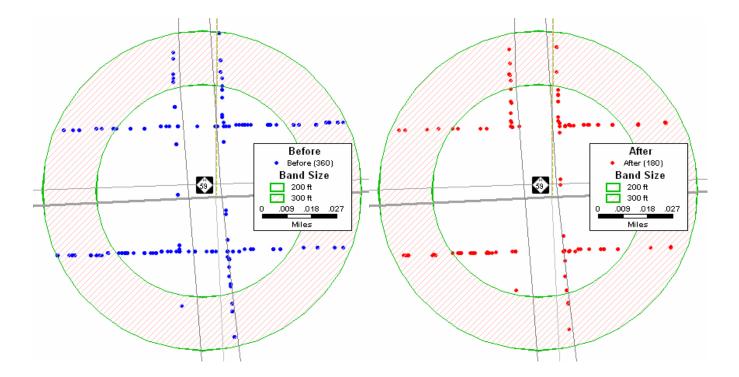
Day of Week	Before	%	After	%
Sunday	5	7.6	7	9.6
Monday	10	15.2	12	16.4
Tuesday	11	16.7	6	8.2
Wednesday	8	12.1	13	17.8
Thursday	11	16.7	10	13.7
Friday	6	9.1	9	12.3
Saturday	15	22.7	16	21.9
Total	66	100.0	73	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	6.1	6	8.2
10am - 3:59pm	36	54.5	37	50.7
4pm - 7:59pm	11	16.7	26	35.6
8pm - 5:59am	6	9.1	4	5.5
Unknown	9	13.6	0	0.0
Total	66	100.0	73	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	7	10.6	6	8.2
Rear-end	52	78.8	61	83.6
Sideswipe	7	10.6	6	8.2
Other/unknown	0	0.0	0	0.0
Total	66	100.0	73	100.0

M59 (Hall Road) and Schoenherr Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	1	0.3	0	0.0
A-Injury	1	0.3	1	0.6
B-Injury	8	2.2	4	2.2
C-Injury	60	16.7	22	12.2
O-Injury	290	80.6	153	85.0
Total	360	100.0	180	100.0

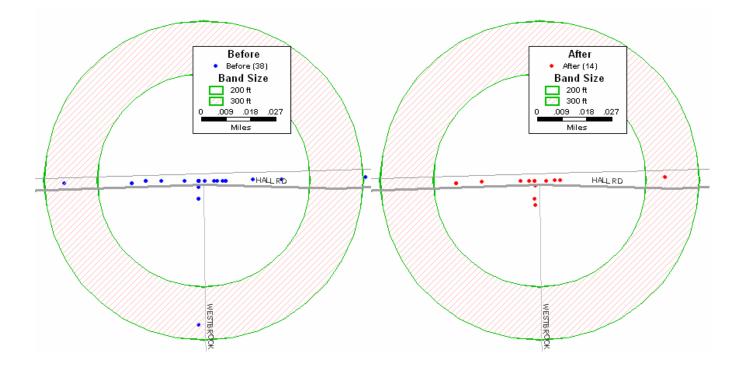
Day of Week	Before	%	After	%
Sunday	47	13.1	23	12.8
Monday	49	13.6	25	13.9
Tuesday	48	13.3	23	12.8
Wednesday	40	11.1	30	16.7
Thursday	37	10.3	22	12.2
Friday	65	18.1	28	15.6
Saturday	74	20.6	29	16.1
Total	360	100.0	180	100.0

Time of Day	Before	%	After	%
6am - 9:59am	16	4.4	13	7.2
10am - 3:59pm	146	40.6	91	50.6
4pm - 7:59pm	113	31.4	48	26.7
8pm - 5:59am	51	14.2	26	14.4
Unknown	34	9.4	2	1.1
Total	360	100.0	180	100.0

Crash Type	Before	%	After	%
Single vehicle	6	1.7	3	1.7
Head-on	1	0.3	0	0.0
Angle	52	14.4	21	11.7
Rear-end	232	64.4	117	65.0
Sideswipe	54	15.0	35	19.4
Other/unknown	15	4.2	4	2.2
Total	360	100.0	180	100.0

M59 (Hall Road) Eastbound and Westbrook Drive

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	2	5.3	0	0.0
O-Injury	36	94.7	14	100.0
Total	38	100.0	14	100.0

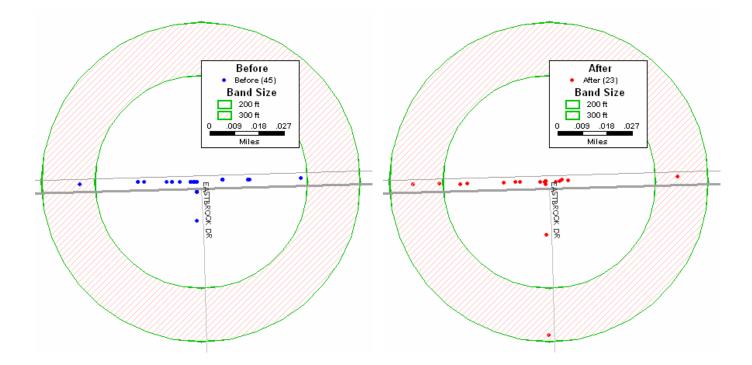
Day of Week	Before	%	After	%
Sunday	4	10.5	0	0.0
Monday	1	2.6	4	28.6
Tuesday	2	5.3	3	21.4
Wednesday	8	21.1	2	14.3
Thursday	6	15.8	1	7.1
Friday	10	26.3	1	7.1
Saturday	7	18.4	3	21.4
Total	38	100.0	14	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	2.6	1	7.1
10am - 3:59pm	12	31.6	5	35.7
4pm - 7:59pm	11	28.9	4	28.6
8pm - 5:59am	9	23.7	4	28.6
Unknown	5	13.2	0	0.0
Total	38	100.0	14	100.0

Crash Type	Before	%	After	%
Single vehicle	2	5.3	1	7.1
Head-on	0	0.0	0	0.0
Angle	9	23.7	3	21.4
Rear-end	18	47.4	7	50.0
Sideswipe	8	21.1	3	21.4
Other/unknown	1	2.6	0	0.0
Total	38	100.0	14	100.0

M59 (Hall Road) Eastbound and Crossover at Eastbrook Drive

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.2	1	4.3
B-Injury	1	2.2	2	8.7
C-Injury	7	15.6	2	8.7
O-Injury	36	80.0	18	78.3
Total	45	100.0	23	100.0

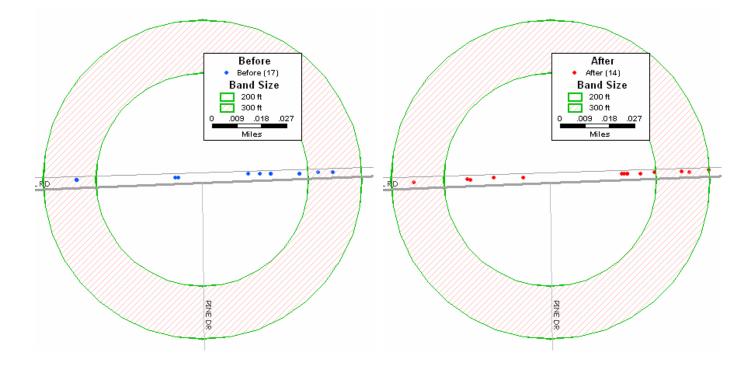
Day of Week	Before	%	After	%
Sunday	7	15.6	1	4.3
Monday	6	13.3	6	26.1
Tuesday	7	15.6	1	4.3
Wednesday	6	13.3	2	8.7
Thursday	7	15.6	1	4.3
Friday	7	15.6	9	39.1
Saturday	5	11.1	3	13.0
Total	45	100.0	23	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	2.2	4	17.4
10am - 3:59pm	19	42.2	11	47.8
4pm - 7:59pm	14	31.1	6	26.1
8pm - 5:59am	9	20.0	2	8.7
Unknown	2	4.4	0	0.0
Total	45	100.0	23	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	9	20.0	6	26.1
Rear-end	26	57.8	10	43.5
Sideswipe	9	20.0	7	30.4
Other/unknown	1	2.2	0	0.0
Total	45	100.0	23	100.0

M59 (Hall Road) Eastbound and Crossover West of Hayes Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	5.9	1	7.1
C-Injury	3	17.6	2	14.3
O-Injury	13	76.5	11	78.6
Total	17	100.0	14	100.0

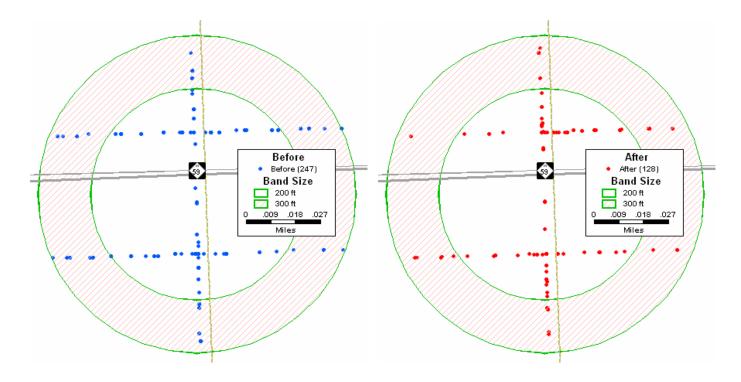
Day of Week	Before	%	After	%
Sunday	3	17.6	2	14.3
Monday	4	23.5	1	7.1
Tuesday	3	17.6	6	42.9
Wednesday	2	11.8	4	28.6
Thursday	1	5.9	0	0.0
Friday	4	23.5	0	0.0
Saturday	0	0.0	1	7.1
Total	17	100.0	14	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	5.9	0	0.0
10am - 3:59pm	4	23.5	2	14.3
4pm - 7:59pm	4	23.5	7	50.0
8pm - 5:59am	6	35.3	5	35.7
Unknown	2	11.8	0	0.0
Total	17	100.0	14	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	4	23.5	2	14.3
Rear-end	10	58.8	12	85.7
Sideswipe	3	17.6	0	0.0
Other/unknown	0	0.0	0	0.0
Total	17	100.0	14	100.0

M59 (Hall Road) and Hayes Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	0.8	2	1.6
B-Injury	7	2.8	6	4.7
C-Injury	43	17.4	24	18.8
O-Injury	195	78.9	96	75.0
Total	247	100.0	128	100.0

Day of Week	Before	%	After	%
Sunday	34	13.8	8	6.3
Monday	40	16.2	17	13.3
Tuesday	26	10.5	17	13.3
Wednesday	29	11.7	18	14.1
Thursday	33	13.4	21	16.4
Friday	42	17.0	25	19.5
Saturday	43	17.4	22	17.2
Total	247	100.0	128	100.0

Time of Day Before % After % 6am - 9:59am 19 7.7 18 14.1 10am - 3:59pm 47.4 48.4 117 62 4pm - 7:59pm 25.0 54 21.9 32 8pm - 5:59am 37 15.0 16 12.5 Unknown 20 8.1 0 0.0 247 100.0 128 100.0 Total

Crash Type	Before	%	After	%
Single vehicle	2	0.8	3	2.3
Head-on	0	0.0	0	0.0
Angle	50	20.2	26	20.3
Rear-end	145	58.7	85	66.4
Sideswipe	38	15.4	10	7.8
Other/unknown	12	4.9	4	3.1
Total	247	100.0	128	100.0

M59 (Hall Road) Eastbound and Crossover West of Tilch Road

Before After Before (14) Band Size After (8) Band Size 200 ft 200 ft ٦ 200 ft 2 300 ft .009 .018 .027 300 ft .009 .018 .027 Ó n Miles Miles • .

Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	5	35.7	2	25.0
O-Injury	9	64.3	6	75.0
Total	14	100.0	8	100.0

Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	4	28.6	2	25.0
Tuesday	2	14.3	0	0.0
Wednesday	2	14.3	2	25.0
Thursday	1	7.1	1	12.5
Friday	0	0.0	2	25.0
Saturday	5	35.7	1	12.5
Total	14	100.0	8	100.0

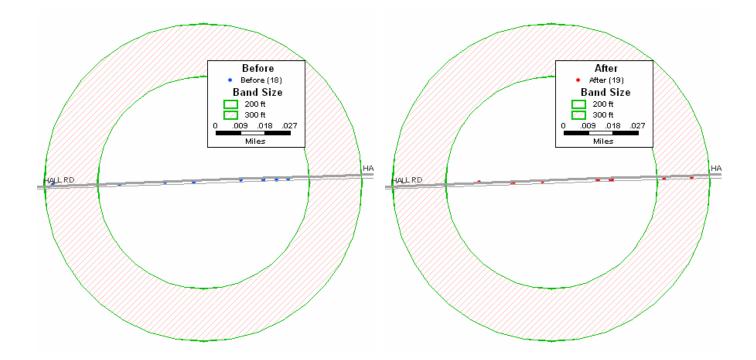
Time of Day	Before	%	After	%
6am - 9:59am	3	21.4	1	12.5
10am - 3:59pm	5	35.7	3	37.5
4pm - 7:59pm	4	28.6	4	50.0
8pm - 5:59am	1	7.1	0	0.0
Unknown	1	7.1	0	0.0
Total	14	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	2	14.3	0	0.0
Rear-end	10	71.4	4	50.0
Sideswipe	0	0.0	4	50.0
Other/unknown	2	14.3	0	0.0
Total	14	100.0	8	100.0

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M59 (Hall Road) Eastbound and Crossover West of Garfield Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	5.6	0	0.0
C-Injury	3	16.7	6	31.6
O-Injury	14	77.8	13	68.4
Total	18	100.0	19	100.0

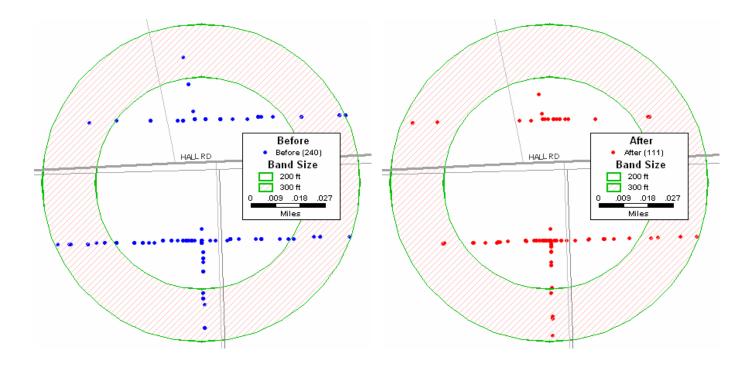
Day of Week	Before	%	After	%
Sunday	3	16.7	2	10.5
Monday	2	11.1	2	10.5
Tuesday	1	5.6	2	10.5
Wednesday	2	11.1	5	26.3
Thursday	7	38.9	3	15.8
Friday	2	11.1	3	15.8
Saturday	1	5.6	2	10.5
Total	18	100.0	19	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	4	21.1
10am - 3:59pm	9	50.0	7	36.8
4pm - 7:59pm	5	27.8	7	36.8
8pm - 5:59am	3	16.7	1	5.3
Unknown	1	5.6	0	0.0
Total	18	100.0	19	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.6	1	5.3
Head-on	0	0.0	1	5.3
Angle	3	16.7	3	15.8
Rear-end	10	55.6	13	68.4
Sideswipe	4	22.2	0	0.0
Other/unknown	0	0.0	1	5.3
Total	18	100.0	19	100.0

M59 (Hall Road) and Garfield Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	7	2.9	1	0.9
B-Injury	10	4.2	4	3.6
C-Injury	46	19.2	16	14.4
O-Injury	177	73.8	90	81.1
Total	240	100.0	111	100.0

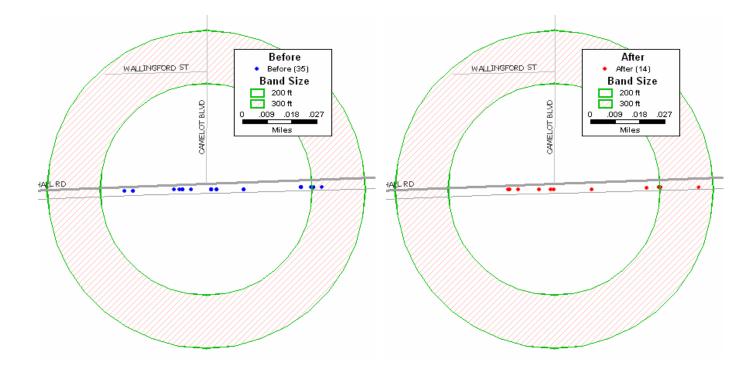
Day of Week	Before	%	After	%
Sunday	15	6.3	7	6.3
Monday	43	17.9	14	12.6
Tuesday	44	18.3	17	15.3
Wednesday	32	13.3	27	24.3
Thursday	34	14.2	11	9.9
Friday	42	17.5	21	18.9
Saturday	30	12.5	14	12.6
Total	240	100.0	111	100.0

Time of Day	Before	%	After	%
6am - 9:59am	32	13.3	9	8.1
10am - 3:59pm	88	36.7	54	48.6
4pm - 7:59pm	65	27.1	35	31.5
8pm - 5:59am	35	14.6	13	11.7
Unknown	20	8.3	0	0.0
Total	240	100.0	111	100.0

Crash Type	Before	%	After	%
Single vehicle	9	3.8	3	2.7
Head-on	0	0.0	1	0.9
Angle	35	14.6	17	15.3
Rear-end	159	66.3	74	66.7
Sideswipe	31	12.9	14	12.6
Other/unknown	6	2.5	2	1.8
Total	240	100.0	111	100.0

M59 (Hall Road) Westbound and Crossover East of Garfield Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	2	14.3
B-Injury	3	8.6	0	0.0
C-Injury	9	25.7	2	14.3
O-Injury	23	65.7	10	71.4
Total	35	100.0	14	100.0

Day of Week	Before	%	After	%
Sunday	2	5.7	3	21.4
Monday	3	8.6	1	7.1
Tuesday	6	17.1	1	7.1
Wednesday	6	17.1	5	35.7
Thursday	6	17.1	2	14.3
Friday	9	25.7	1	7.1
Saturday	3	8.6	1	7.1
Total	35	100.0	14	100.0

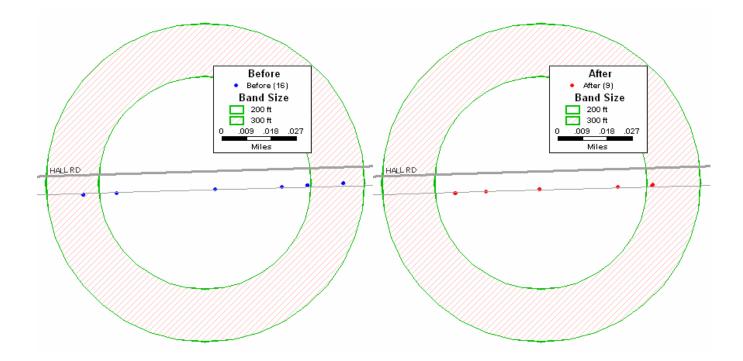
Time of Day	Before	%	After	%
6am - 9:59am	6	17.1	3	21.4
10am - 3:59pm	18	51.4	6	42.9
4pm - 7:59pm	7	20.0	4	28.6
8pm - 5:59am	2	5.7	1	7.1
Unknown	2	5.7	0	0.0
Total	35	100.0	14	100.0

Crash Type	Before	%	After	%
Single vehicle	1	2.9	0	0.0
Head-on	1	2.9	0	0.0
Angle	2	5.7	1	7.1
Rear-end	28	80.0	12	85.7
Sideswipe	3	8.6	0	0.0
Other/unknown	0	0.0	1	7.1
Total	35	100.0	14	100.0

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M59 (Hall Road) Eastbound and Crossover West of Romeo Plank Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	12.5	0	0.0
C-Injury	1	6.3	4	44.4
O-Injury	13	81.3	5	55.6
Total	16	100.0	9	100.0

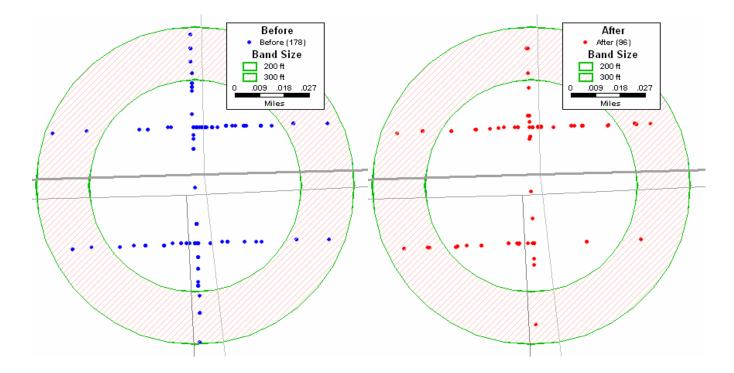
Day of Week	Before	%	After	%
Sunday	1	6.3	1	11.1
Monday	1	6.3	0	0.0
Tuesday	4	25.0	1	11.1
Wednesday	4	25.0	3	33.3
Thursday	0	0.0	1	11.1
Friday	3	18.8	1	11.1
Saturday	3	18.8	2	22.2
Total	16	100.0	9	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	18.8	0	0.0
10am - 3:59pm	7	43.8	6	66.7
4pm - 7:59pm	3	18.8	3	33.3
8pm - 5:59am	3	18.8	0	0.0
Unknown	0	0.0	0	0.0
Total	16	100.0	9	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	1	6.3	1	11.1
Rear-end	13	81.3	8	88.9
Sideswipe	2	12.5	0	0.0
Other/unknown	0	0.0	0	0.0
Total	16	100.0	9	100.0

M59 (Hall Road) Romeo Plank Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.6	0	0.0
B-Injury	7	3.9	3	3.1
C-Injury	25	14.0	15	15.6
O-Injury	145	81.5	78	81.3
Total	178	100.0	96	100.0

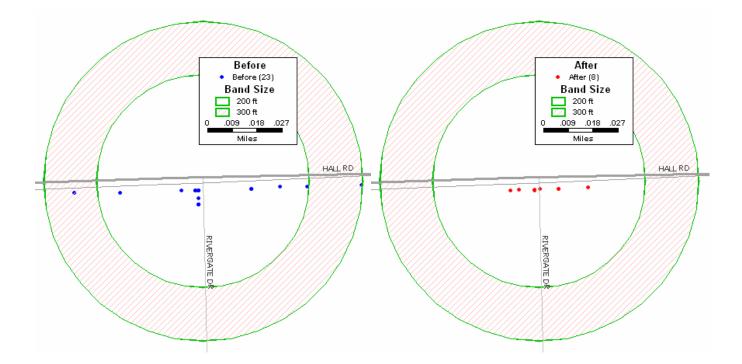
Day of Week	Before	%	After	%
Sunday	19	10.7	9	9.4
Monday	22	12.4	21	21.9
Tuesday	37	20.8	11	11.5
Wednesday	22	12.4	15	15.6
Thursday	21	11.8	14	14.6
Friday	32	18.0	13	13.5
Saturday	25	14.0	13	13.5
Total	178	100.0	96	100.0

Time of Day	Before	%	After	%
6am - 9:59am	27	15.2	23	24.0
10am - 3:59pm	63	35.4	40	41.7
4pm - 7:59pm	49	27.5	25	26.0
8pm - 5:59am	27	15.2	8	8.3
Unknown	12	6.7	0	0.0
Total	178	100.0	96	100.0

Crash Type	Before	%	After	%
Single vehicle	7	3.9	3	3.1
Head-on	5	2.8	1	1.0
Angle	36	20.2	17	17.7
Rear-end	102	57.3	69	71.9
Sideswipe	20	11.2	6	6.3
Other/unknown	8	4.5	0	0.0
Total	178	100.0	96	100.0

M59 (Hall Road) Eastbound and Rivergate Drive

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	2	8.7	0	0.0
O-Injury	21	91.3	8	100.0
Total	23	100.0	8	100.0

Day of Week	Before	%	After	%
Sunday	1	4.3	0	0.0
Monday	1	4.3	2	25.0
Tuesday	7	30.4	0	0.0
Wednesday	3	13.0	3	37.5
Thursday	3	13.0	2	25.0
Friday	4	17.4	0	0.0
Saturday	4	17.4	1	12.5
Total	23	100.0	8	100.0

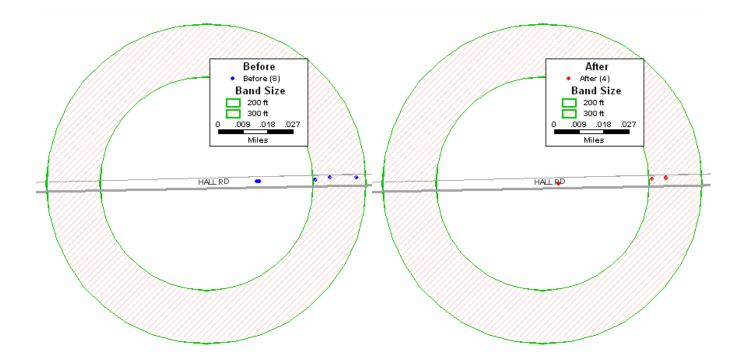
Time of Day	Before	%	After	%
6am - 9:59am	8	34.8	2	25.0
10am - 3:59pm	6	26.1	2	25.0
4pm - 7:59pm	2	8.7	1	12.5
8pm - 5:59am	5	21.7	2	25.0
Unknown	2	8.7	1	12.5
Total	23	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	3	13.0	1	12.5
Head-on	0	0.0	0	0.0
Angle	3	13.0	1	12.5
Rear-end	15	65.2	3	37.5
Sideswipe	2	8.7	3	37.5
Other/unknown	0	0.0	0	0.0
Total	23	100.0	8	100.0

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M59 (Hall Road) Eastbound and Crossover West of Heydenrich Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	1	25.0
C-Injury	3	37.5	0	0.0
O-Injury	5	62.5	3	75.0
Total	8	100.0	4	100.0

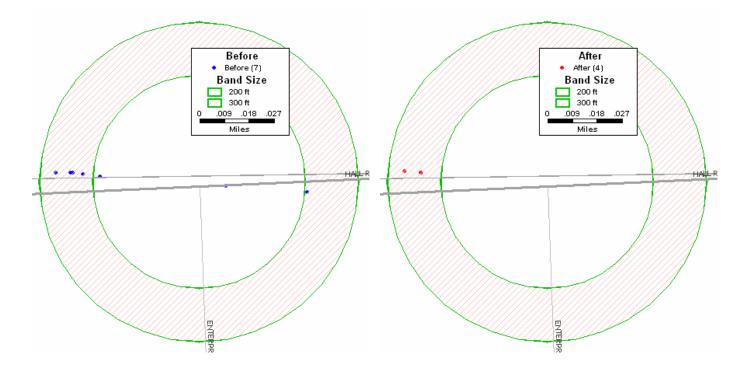
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	2	25.0	1	25.0
Tuesday	5	62.5	0	0.0
Wednesday	0	0.0	1	25.0
Thursday	1	12.5	0	0.0
Friday	0	0.0	2	50.0
Saturday	0	0.0	0	0.0
Total	8	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	12.5	2	50.0
10am - 3:59pm	4	50.0	2	50.0
4pm - 7:59pm	2	25.0	0	0.0
8pm - 5:59am	0	0.0	0	0.0
Unknown	1	12.5	0	0.0
Total	8	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	50.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	0	0.0
Rear-end	5	62.5	1	25.0
Sideswipe	3	37.5	1	25.0
Other/unknown	0	0.0	0	0.0
Total	8	100.0	4	100.0

M59 (Hall Road) Eastbound and Crossover West of Chateau Thierry Blvd

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	0	0.0	0	0.0
O-Injury	7	100.0	4	100.0
Total	7	100.0	4	100.0

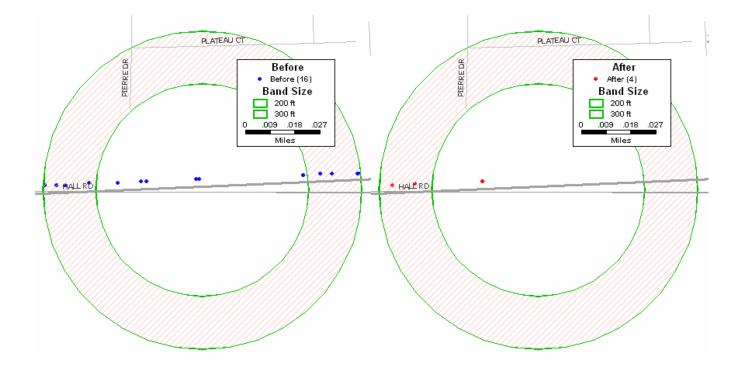
Day of Week	Before	%	After	%
Sunday	1	14.3	0	0.0
Monday	0	0.0	1	25.0
Tuesday	1	14.3	0	0.0
Wednesday	3	42.9	0	0.0
Thursday	0	0.0	2	50.0
Friday	2	28.6	1	25.0
Saturday	0	0.0	0	0.0
Total	7	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	28.6	0	0.0
10am - 3:59pm	0	0.0	1	25.0
4pm - 7:59pm	4	57.1	3	75.0
8pm - 5:59am	1	14.3	0	0.0
Unknown	0	0.0	0	0.0
Total	7	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	2	28.6	0	0.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	1	25.0
Rear-end	3	42.9	3	75.0
Sideswipe	1	14.3	0	0.0
Other/unknown	1	14.3	0	0.0
Total	7	100.0	4	100.0

M59 (Hall Road) Westbound and Crossover East of Chateau Thierry Blvd

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	1	6.3	2	50.0
O-Injury	15	93.8	2	50.0
Total	16	100.0	4	100.0

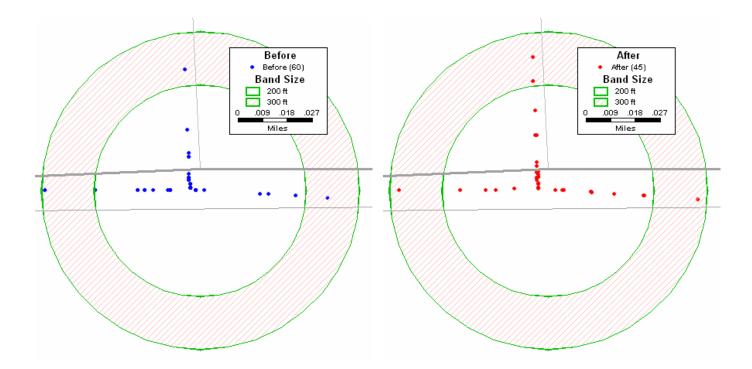
Day of Week	Before	%	After	%
Sunday	2	12.5	0	0.0
Monday	3	18.8	1	25.0
Tuesday	0	0.0	0	0.0
Wednesday	3	18.8	1	25.0
Thursday	2	12.5	1	25.0
Friday	4	25.0	0	0.0
Saturday	2	12.5	1	25.0
Total	16	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	25.0	1	25.0
10am - 3:59pm	6	37.5	3	75.0
4pm - 7:59pm	3	18.8	0	0.0
8pm - 5:59am	1	6.3	0	0.0
Unknown	2	12.5	0	0.0
Total	16	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	1	6.3	0	0.0
Angle	1	6.3	0	0.0
Rear-end	12	75.0	4	100.0
Sideswipe	1	6.3	0	0.0
Other/unknown	1	6.3	0	0.0
Total	16	100.0	4	100.0

M59 (Hall Road) Westbound and Card Road

Date of Signal Optimization: May 17, 2004



1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	3	6.7
B-Injury	0	0.0	1	2.2
C-Injury	10	16.7	3	6.7
O-Injury	50	83.3	38	84.4
Total	60	100.0	45	100.0

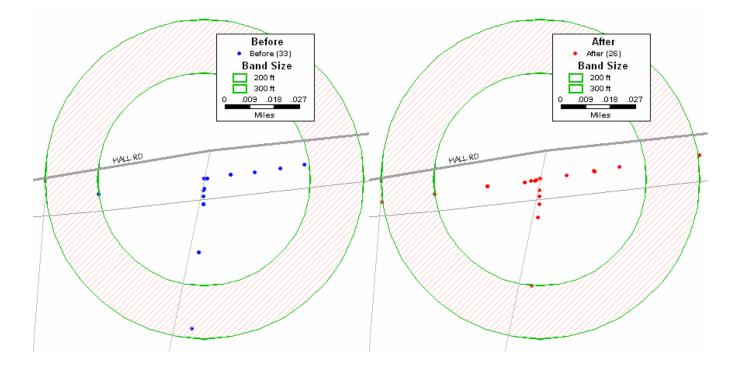
Day of Week	Before	%	After	%
Sunday	3	5.0	2	4.4
Monday	10	16.7	8	17.8
Tuesday	13	21.7	3	6.7
Wednesday	7	11.7	11	24.4
Thursday	11	18.3	10	22.2
Friday	11	18.3	6	13.3
Saturday	5	8.3	5	11.1
Total	60	100.0	45	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	18.3	8	17.8
10am - 3:59pm	22	36.7	19	42.2
4pm - 7:59pm	19	31.7	13	28.9
8pm - 5:59am	7	11.7	4	8.9
Unknown	1	1.7	1	2.2
Total	60	100.0	45	100.0

Crash Type	Before	%	After	%
Single vehicle	3	5.0	3	6.7
Head-on	0	0.0	1	2.2
Angle	4	6.7	3	6.7
Rear-end	42	70.0	35	77.8
Sideswipe	11	18.3	3	6.7
Other/unknown	0	0.0	0	0.0
Total	60	100.0	45	100.0

M59 (Hall Road) Eastbound and Elizabeth Street

Date of Signal Optimization: May 17, 2004



1,233 days before

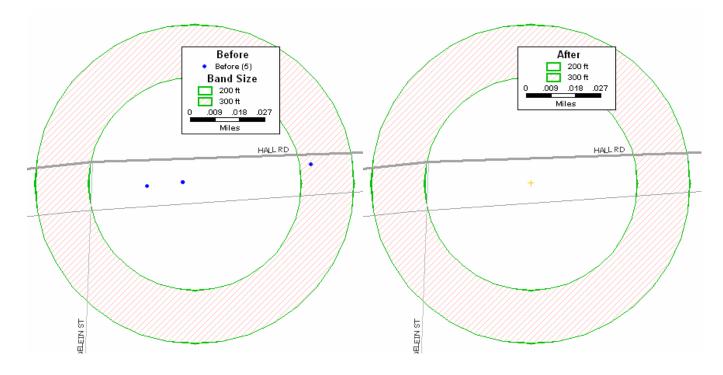
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	6.1	0	0.0
B-Injury	1	3.0	0	0.0
C-Injury	3	9.1	2	7.7
O-Injury	27	81.8	24	92.3
Total	33	100.0	26	100.0

Day of Week	Before	%	After	%
Sunday	3	9.1	4	15.4
Monday	6	18.2	1	3.8
Tuesday	5	15.2	6	23.1
Wednesday	5	15.2	6	23.1
Thursday	4	12.1	3	11.5
Friday	6	18.2	5	19.2
Saturday	4	12.1	1	3.8
Total	33	100.0	26	100.0

Time of Day	Before	%	After	%
6am - 9:59am	9	27.3	9	34.6
10am - 3:59pm	7	21.2	8	30.8
4pm - 7:59pm	9	27.3	6	23.1
8pm - 5:59am	7	21.2	3	11.5
Unknown	1	3.0	0	0.0
Total	33	100.0	26	100.0

Crash Type	Before	%	After	%
Single vehicle	3	9.1	1	3.8
Head-on	1	3.0	0	0.0
Angle	6	18.2	2	7.7
Rear-end	20	60.6	21	80.8
Sideswipe	2	6.1	2	7.7
Other/unknown	1	3.0	0	0.0
Total	33	100.0	26	100.0

M59 (Hall Road) Westbound and Crossover East of Elizabeth Street



Date of Signal Optimization: May 17, 2004

1,233 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	0	0.0	0	0.0
O-Injury	5	100.0	0	0.0
Total	5	100.0	0	0.0

Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	0	0.0	0	0.0
Tuesday	0	0.0	0	0.0
Wednesday	1	20.0	0	0.0
Thursday	1	20.0	0	0.0
Friday	1	20.0	0	0.0
Saturday	2	40.0	0	0.0
Total	5	100.0	0	0.0

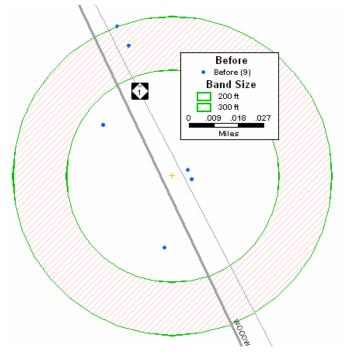
Time of Day	Before	%	After	%
6am - 9:59am	1	20.0	0	0.0
10am - 3:59pm	3	60.0	0	0.0
4pm - 7:59pm	1	20.0	0	0.0
8pm - 5:59am	0	0.0	0	0.0
Unknown	0	0.0	0	0.0
Total	5	100.0	0	0.0

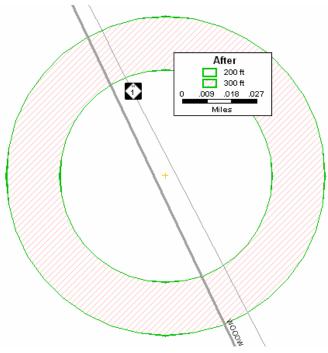
Crash Type	Before	%	After	%
Single vehicle	1	20.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	0	0.0
Rear-end	3	60.0	0	0.0
Sideswipe	1	20.0	0	0.0
Other/unknown	0	0.0	0	0.0
Total	5	100.0	0	0.0

Woodward Avenue (M1)

M1 (Woodward Avenue) and State Fair Entry Gate 5

Date of Signal Optimization: September 17, 2004





1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	33.3	0	0.0
C-Injury	3	33.3	0	0.0
O-Injury	3	33.3	0	0.0
Total	9	100.0	0	0.0

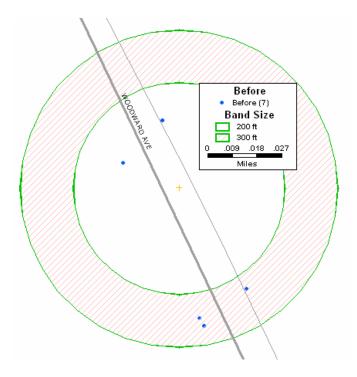
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	1	11.1	0	0.0
Tuesday	1	11.1	0	0.0
Wednesday	3	33.3	0	0.0
Thursday	0	0.0	0	0.0
Friday	2	22.2	0	0.0
Saturday	2	22.2	0	0.0
Total	9	100.0	0	0.0

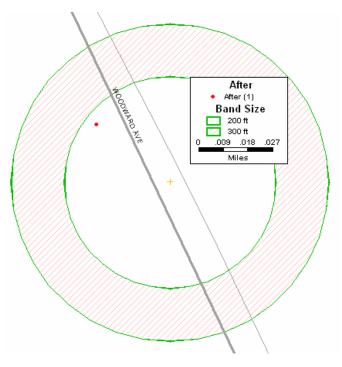
Time of Day	Before	%	After	%
6am - 9:59am	3	33.3	0	0.0
10am - 3:59pm	3	33.3	0	0.0
4pm - 7:59pm	3	33.3	0	0.0
8pm - 5:59am	0	0.0	0	0.0
Unknown	0	0.0	0	0.0
Total	9	100.0	0	0.0

Crash Type	Before	%	After	%
Single vehicle	1	11.1	0	0.0
Head-on	0	0.0	0	0.0
Angle	0	0.0	0	0.0
Rear-end	5	55.6	0	0.0
Sideswipe	1	11.1	0	0.0
Other/unknown	2	22.2	0	0.0
Total	9	100.0	0	0.0

M1 (Woodward Avenue) and State Fair Bus Loop

Date of Signal Optimization: September 17, 2004





1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	100.0
B-Injury	0	0.0	0	0.0
C-Injury	3	42.9	0	0.0
O-Injury	4	57.1	0	0.0
Total	7	100.0	1	100.0

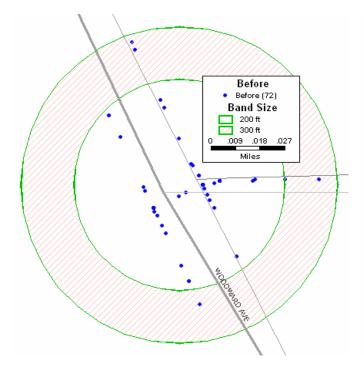
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	1	14.3	0	0.0
Tuesday	1	14.3	0	0.0
Wednesday	2	28.6	0	0.0
Thursday	0	0.0	0	0.0
Friday	2	28.6	0	0.0
Saturday	1	14.3	1	100.0
Total	7	100.0	1	100.0

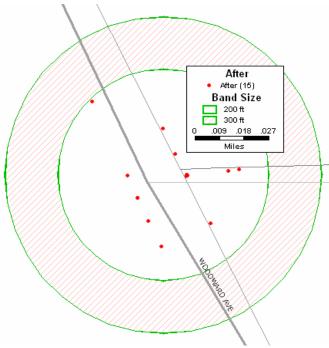
Time of Day Before After % % 6am - 9:59am 0 0.0 0 0.0 10am - 3:59pm 5 71.4 100.0 1 4pm - 7:59pm 0 1 14.3 0.0 8pm - 5:59am 1 14.3 0 0.0 Unknown 0.0 0 0.0 0 100.0 100.0 Total 7 1

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	1	14.3	0	0.0
Rear-end	4	57.1	1	100.0
Sideswipe	1	14.3	0	0.0
Other/unknown	1	14.3	0	0.0
Total	7	100.0	1	100.0

M1 (Woodward Avenue) and State Fair Avenue

Date of Signal Optimization: September 17, 2004





1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	4.2	0	0.0
B-Injury	4	5.6	0	0.0
C-Injury	9	12.5	4	26.7
O-Injury	56	77.8	11	73.3
Total	72	100.0	15	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	8.3	3	20.0
10am - 3:59pm	30	41.7	6	40.0
4pm - 7:59pm	19	26.4	5	33.3
8pm - 5:59am	14	19.4	0	0.0
Unknown	3	4.2	1	6.7
Total	72	100.0	15	100.0

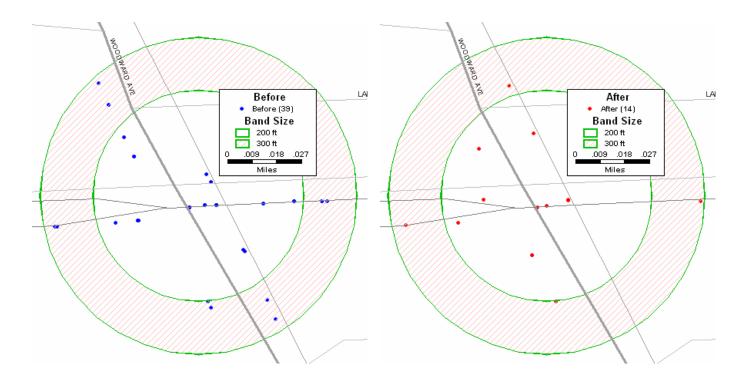
Day of Week	Before	%	After	%
Sunday	13	18.1	1	6.7
Monday	11	15.3	6	40.0
Tuesday	7	9.7	2	13.3
Wednesday	12	16.7	2	13.3
Thursday	8	11.1	0	0.0
Friday	12	16.7	3	20.0
Saturday	9	12.5	1	6.7
Total	72	100.0	15	100.0

Crash Type	Before	%	After	%
Single vehicle	4	5.6	1	6.7
Head-on	0	0.0	0	0.0
Angle	13	18.1	3	20.0
Rear-end	35	48.6	8	53.3
Sideswipe	12	16.7	2	13.3
Other/unknown	8	11.1	1	6.7
Total	72	100.0	15	100.0

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M1 (Woodward Avenue) and 7 Mile Road

Date of Signal Optimization: September 17, 2004



1,356 days before

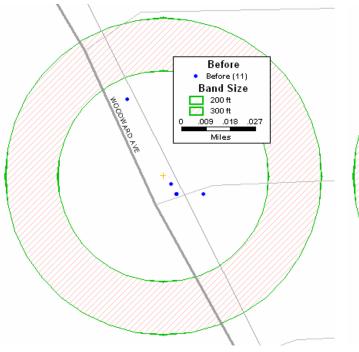
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	7.7	0	0.0
C-Injury	7	17.9	4	28.6
O-Injury	29	74.4	10	71.4
Total	39	100.0	14	100.0

Day of Week	Before	%	After	%
Sunday	7	17.9	1	7.1
Monday	4	10.3	1	7.1
Tuesday	5	12.8	2	14.3
Wednesday	4	10.3	2	14.3
Thursday	11	28.2	4	28.6
Friday	2	5.1	0	0.0
Saturday	6	15.4	4	28.6
Total	39	100.0	14	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	15.4	3	21.4
10am - 3:59pm	15	38.5	2	14.3
4pm - 7:59pm	7	17.9	1	7.1
8pm - 5:59am	10	25.6	7	50.0
Unknown	1	2.6	1	7.1
Total	39	100.0	14	100.0

Crash Type	Before	%	After	%
Single vehicle	4	10.3	1	7.1
Head-on	2	5.1	1	7.1
Angle	3	7.7	0	0.0
Rear-end	10	25.6	5	35.7
Sideswipe	14	35.9	5	35.7
Other/unknown	6	15.4	2	14.3
Total	39	100.0	14	100.0

M1 (Woodward Avenue) and NB Crossover South of 7 Mile Road



Date of Signal Optimization: September 17, 2004

After • After (1) Band Size 200 ft 0 009 0.18 0.27 Miles

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	1	9.1	0	0.0
O-Injury	10	90.9	1	100.0
Total	11	100.0	1	100.0

Day of Week	Before	%	After	%
Sunday	2	18.2	0	0.0
Monday	1	9.1	1	100.0
Tuesday	1	9.1	0	0.0
Wednesday	2	18.2	0	0.0
Thursday	3	27.3	0	0.0
Friday	1	9.1	0	0.0
Saturday	1	9.1	0	0.0
Total	11	100.0	1	100.0

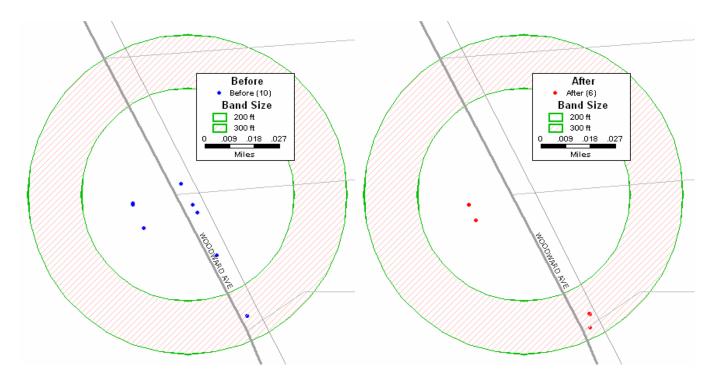
Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	0	0.0
10am - 3:59pm	5	45.5	0	0.0
4pm - 7:59pm	4	36.4	1	100.0
8pm - 5:59am	2	18.2	0	0.0
Unknown	0	0.0	0	0.0
Total	11	100.0	1	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	1	9.1	0	0.0
Angle	6	54.5	0	0.0
Rear-end	3	27.3	1	100.0
Sideswipe	0	0.0	0	0.0
Other/unknown	1	9.1	0	0.0
Total	11	100.0	1	100.0

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M1 (Woodward Avenue) and Grixdale

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	1	10.0	2	33.3
O-Injury	9	90.0	4	66.7
Total	10	100.0	6	100.0

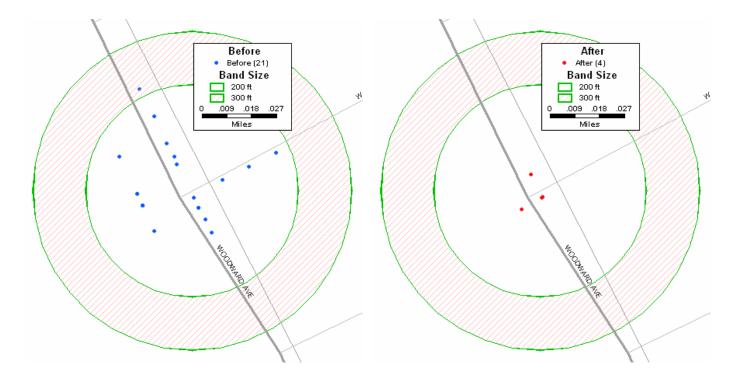
Day of Week	Before	%	After	%
Sunday	2	20.0	0	0.0
Monday	2	20.0	1	16.7
Tuesday	0	0.0	1	16.7
Wednesday	3	30.0	1	16.7
Thursday	0	0.0	1	16.7
Friday	2	20.0	1	16.7
Saturday	1	10.0	1	16.7
Total	10	100.0	6	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	10.0	1	16.7
10am - 3:59pm	3	30.0	4	66.7
4pm - 7:59pm	1	10.0	0	0.0
8pm - 5:59am	4	40.0	1	16.7
Unknown	1	10.0	0	0.0
Total	10	100.0	6	100.0

Crash Type	Before	%	After	%
Single vehicle	1	10.0	3	50.0
Head-on	0	0.0	0	0.0
Angle	1	10.0	1	16.7
Rear-end	5	50.0	1	16.7
Sideswipe	2	20.0	0	0.0
Other/unknown	1	10.0	1	16.7
Total	10	100.0	6	100.0

M1 (Woodward Avenue) and Nevada

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	9.5	0	0.0
C-Injury	6	28.6	2	50.0
O-Injury	13	61.9	2	50.0
Total	21	100.0	4	100.0

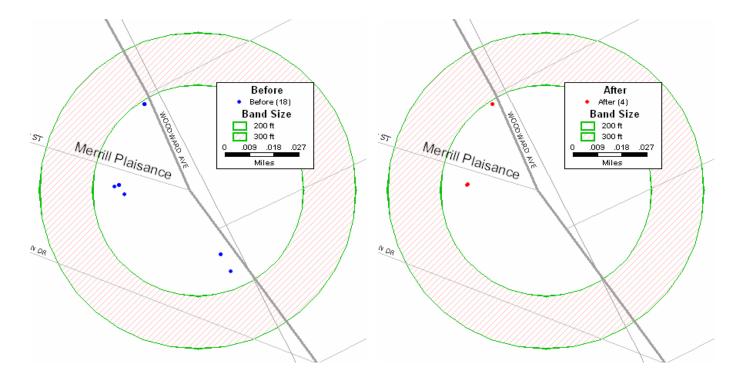
Day of Week	Before	%	After	%
Sunday	4	19.0	0	0.0
Monday	3	14.3	1	25.0
Tuesday	2	9.5	1	25.0
Wednesday	2	9.5	0	0.0
Thursday	5	23.8	1	25.0
Friday	2	9.5	0	0.0
Saturday	3	14.3	1	25.0
Total	21	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	1	25.0
10am - 3:59pm	11	52.4	1	25.0
4pm - 7:59pm	3	14.3	0	0.0
8pm - 5:59am	5	23.8	1	25.0
Unknown	2	9.5	1	25.0
Total	21	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	3	14.3	0	0.0
Head-on	1	4.8	0	0.0
Angle	2	9.5	1	25.0
Rear-end	8	38.1	0	0.0
Sideswipe	4	19.0	2	50.0
Other/unknown	3	14.3	1	25.0
Total	21	100.0	4	100.0

M1 (Woodward Avenue) and Merrill Plaisance

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	5.6	0	0.0
B-Injury	1	5.6	0	0.0
C-Injury	1	5.6	0	0.0
O-Injury	15	83.3	4	100.0
Total	18	100.0	4	100.0

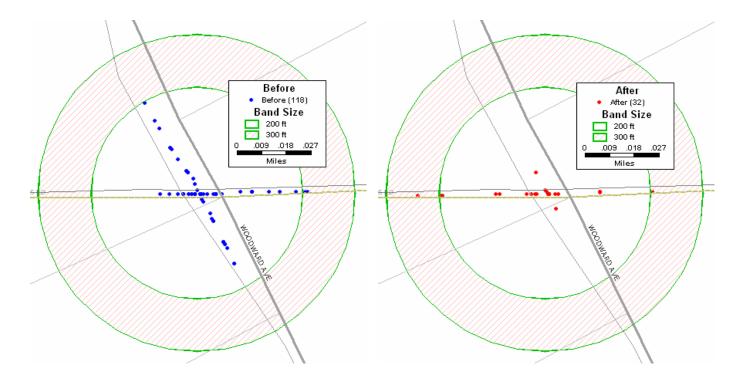
Day of Week	Before	%	After	%
Sunday	5	27.8	2	50.0
Monday	4	22.2	0	0.0
Tuesday	0	0.0	0	0.0
Wednesday	1	5.6	2	50.0
Thursday	3	16.7	0	0.0
Friday	1	5.6	0	0.0
Saturday	4	22.2	0	0.0
Total	18	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	5.6	0	0.0
10am - 3:59pm	5	27.8	1	25.0
4pm - 7:59pm	5	27.8	2	50.0
8pm - 5:59am	5	27.8	1	25.0
Unknown	2	11.1	0	0.0
Total	18	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	3	16.7	0	0.0
Head-on	1	5.6	0	0.0
Angle	3	16.7	1	25.0
Rear-end	7	38.9	1	25.0
Sideswipe	4	22.2	2	50.0
Other/unknown	0	0.0	0	0.0
Total	18	100.0	4	100.0

M1 (Woodward Avenue) and 6 Mile Road

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	1	0.8	0	0.0
A-Injury	5	4.2	1	3.1
B-Injury	3	2.5	1	3.1
C-Injury	16	13.6	3	9.4
O-Injury	93	78.8	27	84.4
Total	118	100.0	32	100.0

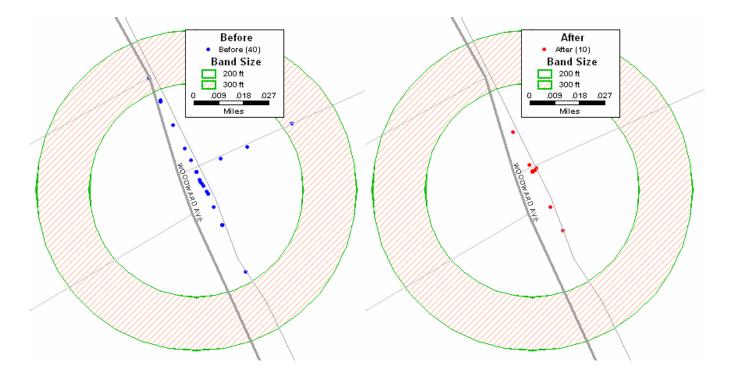
Day of Week	Before	%	After	%
Sunday	23	19.5	2	6.3
Monday	14	11.9	5	15.6
Tuesday	10	8.5	4	12.5
Wednesday	16	13.6	7	21.9
Thursday	17	14.4	4	12.5
Friday	29	24.6	6	18.8
Saturday	9	7.6	4	12.5
Total	118	100.0	32	100.0

Time of Day	Before	%	After	%
6am - 9:59am	14	11.9	9	28.1
10am - 3:59pm	29	24.6	9	28.1
4pm - 7:59pm	28	23.7	7	21.9
8pm - 5:59am	42	35.6	7	21.9
Unknown	5	4.2	0	0.0
Total	118	100.0	32	100.0

Crash Type	Before	%	After	%
Single vehicle	8	6.8	3	9.4
Head-on	3	2.5	1	3.1
Angle	22	18.6	9	28.1
Rear-end	46	39.0	11	34.4
Sideswipe	29	24.6	7	21.9
Other/unknown	10	8.5	1	3.1
Total	118	100.0	32	100.0

M1 (Woodward Avenue) and Pilgrim (Ferris)

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	5.0	0	0.0
B-Injury	0	0.0	1	10.0
C-Injury	5	12.5	1	10.0
O-Injury	33	82.5	8	80.0
Total	40	100.0	10	100.0

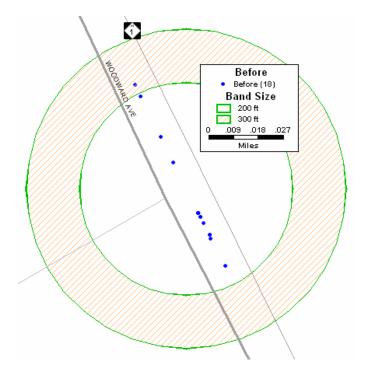
Day of Week	Before	%	After	%
Sunday	2	5.0	3	30.0
Monday	6	15.0	0	0.0
Tuesday	8	20.0	1	10.0
Wednesday	6	15.0	1	10.0
Thursday	7	17.5	4	40.0
Friday	9	22.5	1	10.0
Saturday	2	5.0	0	0.0
Total	40	100.0	10	100.0

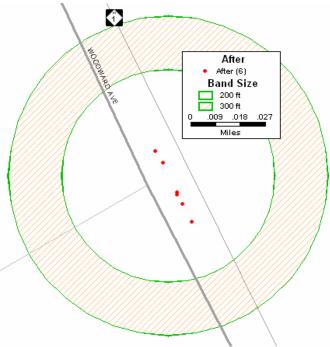
Time of Day	Before	%	After	%
6am - 9:59am	13	32.5	1	10.0
10am - 3:59pm	11	27.5	7	70.0
4pm - 7:59pm	11	27.5	2	20.0
8pm - 5:59am	4	10.0	0	0.0
Unknown	1	2.5	0	0.0
Total	40	100.0	10	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	20.0
Head-on	4	10.0	0	0.0
Angle	10	25.0	1	10.0
Rear-end	13	32.5	5	50.0
Sideswipe	10	25.0	2	20.0
Other/unknown	3	7.5	0	0.0
Total	40	100.0	10	100.0

M1 (Woodward Avenue) and Sears and Ford Drive

Date of Signal Optimization: September 17, 2004





1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	11.1	0	0.0
B-Injury	1	5.6	0	0.0
C-Injury	1	5.6	0	0.0
O-Injury	14	77.8	6	100.0
Total	18	100.0	6	100.0

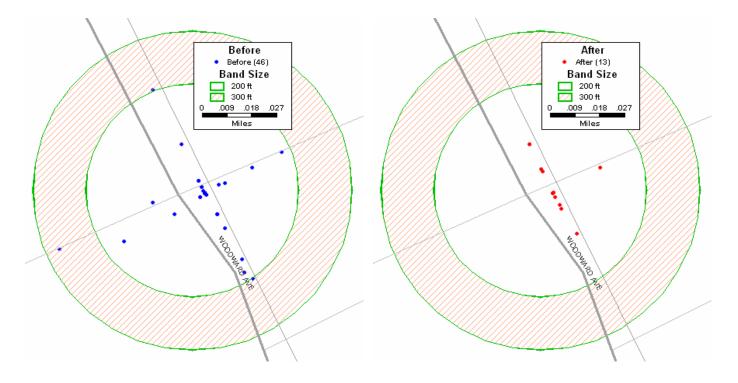
Day of Week	Before	%	After	%
Sunday	1	5.6	0	0.0
Monday	4	22.2	2	33.3
Tuesday	0	0.0	2	33.3
Wednesday	3	16.7	0	0.0
Thursday	5	27.8	0	0.0
Friday	2	11.1	1	16.7
Saturday	3	16.7	1	16.7
Total	18	100.0	6	100.0

Time of Day Before After % % 6am - 9:59am 2 11.1 2 33.3 10am - 3:59pm 33.3 8 44.4 2 4pm - 7:59pm 33.3 6 1 16.7 8pm - 5:59am 2 11.1 1 16.7 Unknown 0.0 0 0.0 0 100.0 Total 18 100.0 6

Crash Type	Before	%	After	%
Single vehicle	2	11.1	0	0.0
Head-on	1	5.6	0	0.0
Angle	2	11.1	0	0.0
Rear-end	8	44.4	4	66.7
Sideswipe	4	22.2	1	16.7
Other/unknown	1	5.6	1	16.7
Total	18	100.0	6	100.0

M1 (Woodward Avenue) and Manchester

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.2	0	0.0
B-Injury	4	8.7	2	15.4
C-Injury	11	23.9	3	23.1
O-Injury	30	65.2	8	61.5
Total	46	100.0	13	100.0

	11	23.9	3	23.1	8pm - 5:59an
	30	65.2	8	61.5	Unknown
	46	100.0	13	100.0	Total
	Before	%	After	%	
	6	13.0	2	15.4	Crash Type
1					

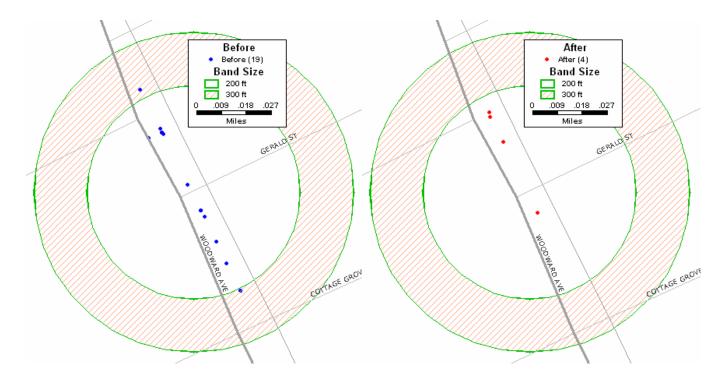
Day of Week	Before	%	After	%
Sunday	6	13.0	2	15.4
Monday	4	8.7	1	7.7
Tuesday	10	21.7	1	7.7
Wednesday	9	19.6	2	15.4
Thursday	4	8.7	0	0.0
Friday	9	19.6	2	15.4
Saturday	4	8.7	5	38.5
Total	46	100.0	13	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	10.9	1	7.7
10am - 3:59pm	15	32.6	5	38.5
4pm - 7:59pm	13	28.3	5	38.5
8pm - 5:59am	11	23.9	2	15.4
Unknown	2	4.3	0	0.0
Total	46	100.0	13	100.0

Crash Type	Before	%	After	%
Single vehicle	4	8.7	2	15.4
Head-on	7	15.2	1	7.7
Angle	9	19.6	7	53.8
Rear-end	14	30.4	2	15.4
Sideswipe	6	13.0	1	7.7
Other/unknown	6	13.0	0	0.0
Total	46	100.0	13	100.0

M1 (Woodward Avenue) and Gerald Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	5.3	0	0.0
B-Injury	2	10.5	0	0.0
C-Injury	2	10.5	0	0.0
O-Injury	14	73.7	4	100.0
Total	19	100.0	4	100.0

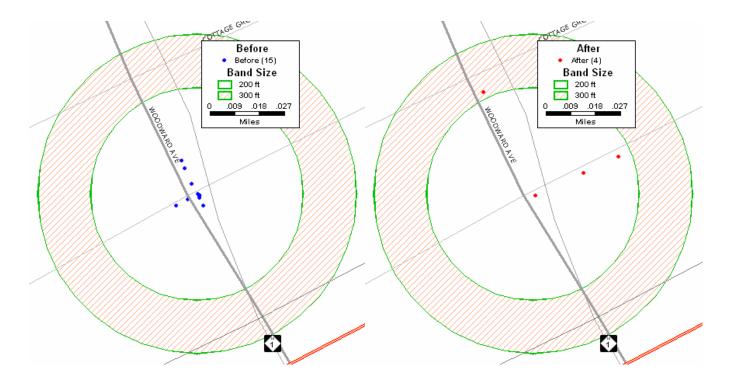
Day of Week	Before	%	After	%
Sunday	2	10.5	0	0.0
Monday	4	21.1	1	25.0
Tuesday	2	10.5	1	25.0
Wednesday	1	5.3	0	0.0
Thursday	4	21.1	1	25.0
Friday	1	5.3	0	0.0
Saturday	5	26.3	1	25.0
Total	19	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	10.5	0	0.0
10am - 3:59pm	4	21.1	2	50.0
4pm - 7:59pm	4	21.1	0	0.0
8pm - 5:59am	7	36.8	2	50.0
Unknown	2	10.5	0	0.0
Total	19	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.3	1	25.0
Head-on	3	15.8	0	0.0
Angle	3	15.8	0	0.0
Rear-end	7	36.8	3	75.0
Sideswipe	3	15.8	0	0.0
Other/unknown	2	10.5	0	0.0
Total	19	100.0	4	100.0

M1 (Woodward Avenue) and Grand

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	2	13.3	1	25.0
O-Injury	13	86.7	3	75.0
Total	15	100.0	4	100.0

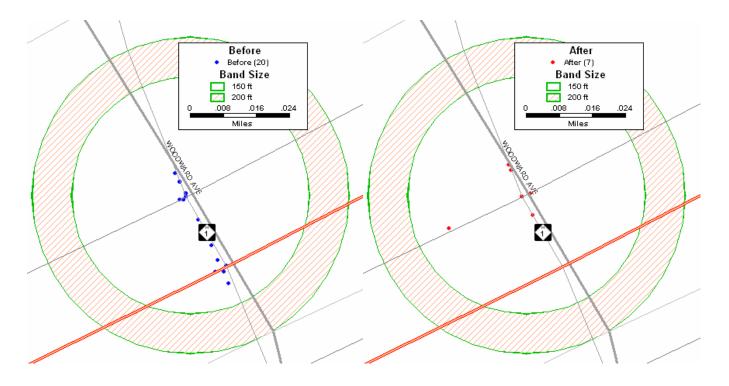
Day of Week	Before	%	After	%
Sunday	2	13.3	0	0.0
Monday	3	20.0	0	0.0
Tuesday	1	6.7	1	25.0
Wednesday	2	13.3	0	0.0
Thursday	1	6.7	1	25.0
Friday	1	6.7	0	0.0
Saturday	5	33.3	2	50.0
Total	15	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	6.7	0	0.0
10am - 3:59pm	8	53.3	1	25.0
4pm - 7:59pm	5	33.3	1	25.0
8pm - 5:59am	1	6.7	2	50.0
Unknown	0	0.0	0	0.0
Total	15	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	1	6.7	0	0.0
Head-on	3	20.0	0	0.0
Angle	2	13.3	1	25.0
Rear-end	5	33.3	2	50.0
Sideswipe	3	20.0	1	25.0
Other/unknown	1	6.7	0	0.0
Total	15	100.0	4	100.0

M1 (Woodward Avenue) and WB Davison (M8)

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	10.0	1	14.3
B-Injury	0	0.0	0	0.0
C-Injury	3	15.0	1	14.3
O-Injury	15	75.0	5	71.4
Total	20	100.0	7	100.0

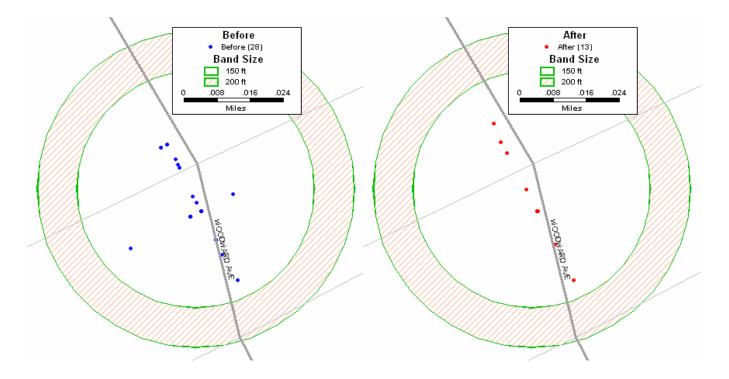
Day of Week	Before	%	After	%
Sunday	2	10.0	0	0.0
Monday	5	25.0	0	0.0
Tuesday	1	5.0	3	42.9
Wednesday	5	25.0	1	14.3
Thursday	2	10.0	2	28.6
Friday	2	10.0	0	0.0
Saturday	3	15.0	1	14.3
Total	20	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	10.0	2	28.6
10am - 3:59pm	7	35.0	2	28.6
4pm - 7:59pm	4	20.0	1	14.3
8pm - 5:59am	6	30.0	2	28.6
Unknown	1	5.0	0	0.0
Total	20	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	3	15.0	1	14.3
Head-on	0	0.0	0	0.0
Angle	3	15.0	3	42.9
Rear-end	7	35.0	1	14.3
Sideswipe	6	30.0	2	28.6
Other/unknown	1	5.0	0	0.0
Total	20	100.0	7	100.0

M1 (Woodward Avenue) and EB Davison (M8)

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	10.7	1	7.7
B-Injury	0	0.0	1	7.7
C-Injury	1	3.6	3	23.1
O-Injury	24	85.7	8	61.5
Total	28	100.0	13	100.0

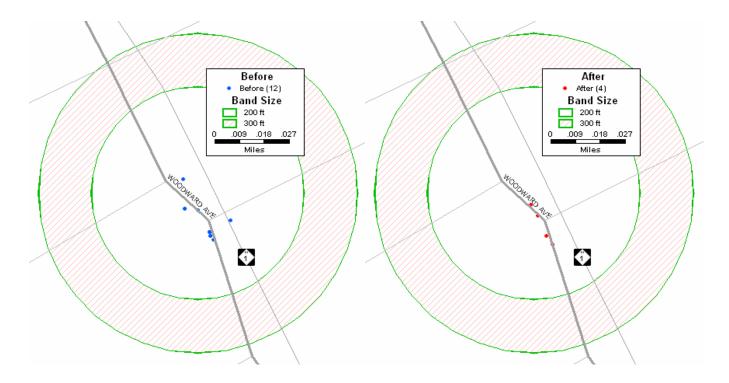
Day of Week	Before	%	After	%
Sunday	2	7.1	3	23.1
Monday	3	10.7	2	15.4
Tuesday	1	3.6	2	15.4
Wednesday	6	21.4	1	7.7
Thursday	4	14.3	1	7.7
Friday	5	17.9	0	0.0
Saturday	7	25.0	4	30.8
Total	28	100.0	13	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	1	7.7
10am - 3:59pm	7	25.0	3	23.1
4pm - 7:59pm	9	32.1	5	38.5
8pm - 5:59am	9	32.1	4	30.8
Unknown	3	10.7	0	0.0
Total	28	100.0	13	100.0

Crash Type	Before	%	After	%
Single vehicle	3	10.7	1	7.7
Head-on	3	10.7	0	0.0
Angle	3	10.7	6	46.2
Rear-end	12	42.9	3	23.1
Sideswipe	3	10.7	3	23.1
Other/unknown	4	14.3	0	0.0
Total	28	100.0	13	100.0

M1 (Woodward Avenue) and Buena Vista

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	1	8.3	1	25.0
O-Injury	11	91.7	3	75.0
Total	12	100.0	4	100.0

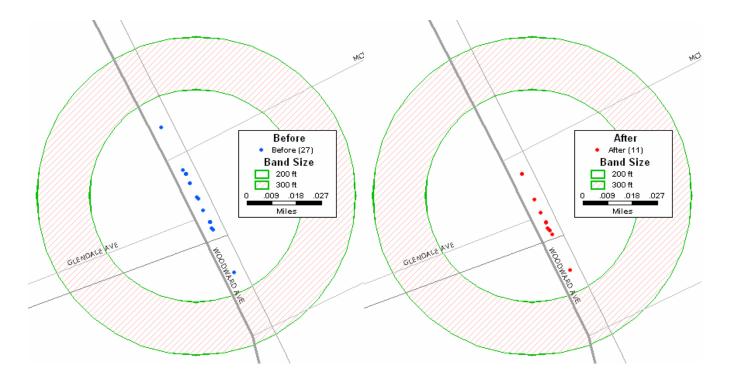
Day of Week	Before	%	After	%
Sunday	0	0.0	0	0.0
Monday	3	25.0	1	25.0
Tuesday	4	33.3	1	25.0
Wednesday	2	16.7	1	25.0
Thursday	1	8.3	0	0.0
Friday	1	8.3	0	0.0
Saturday	1	8.3	1	25.0
Total	12	100.0	4	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	8.3	2	50.0
10am - 3:59pm	6	50.0	1	25.0
4pm - 7:59pm	3	25.0	1	25.0
8pm - 5:59am	2	16.7	0	0.0
Unknown	0	0.0	0	0.0
Total	12	100.0	4	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	3	25.0	1	25.0
Rear-end	5	41.7	3	75.0
Sideswipe	2	16.7	0	0.0
Other/unknown	2	16.7	0	0.0
Total	12	100.0	4	100.0

M1 (Woodward Avenue) and Glendale and Mclean Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	9.1
B-Injury	4	14.8	1	9.1
C-Injury	2	7.4	3	27.3
O-Injury	21	77.8	6	54.5
Total	27	100.0	11	100.0

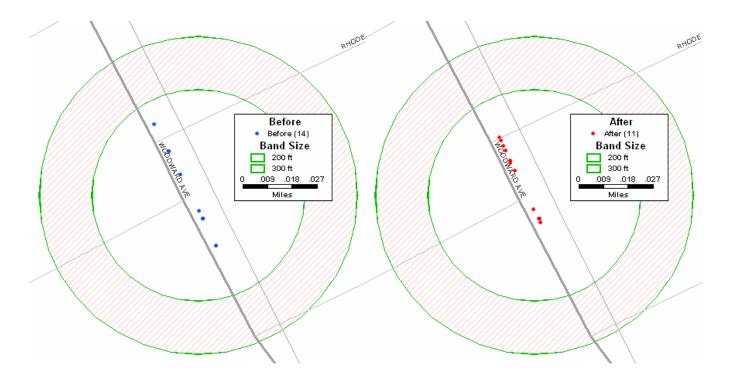
Day of Week	Before	%	After	%
Sunday	3	11.1	1	9.1
Monday	3	11.1	0	0.0
Tuesday	6	22.2	1	9.1
Wednesday	5	18.5	1	9.1
Thursday	0	0.0	2	18.2
Friday	7	25.9	5	45.5
Saturday	3	11.1	1	9.1
Total	27	100.0	11	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	11.1	1	9.1
10am - 3:59pm	5	18.5	3	27.3
4pm - 7:59pm	12	44.4	2	18.2
8pm - 5:59am	7	25.9	4	36.4
Unknown	0	0.0	1	9.1
Total	27	100.0	11	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.7	1	9.1
Head-on	6	22.2	4	36.4
Angle	8	29.6	3	27.3
Rear-end	10	37.0	2	18.2
Sideswipe	2	7.4	1	9.1
Other/unknown	0	0.0	0	0.0
Total	27	100.0	11	100.0

M1 (Woodward Avenue) and Cortland Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	2	18.2
B-Injury	0	0.0	0	0.0
C-Injury	1	7.1	0	0.0
O-Injury	13	92.9	9	81.8
Total	14	100.0	11	100.0

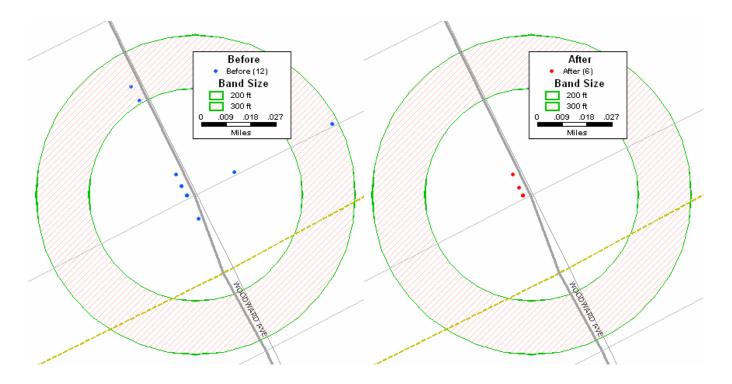
Day of Week	Before	%	After	%
Sunday	2	14.3	0	0.0
Monday	1	7.1	2	18.2
Tuesday	3	21.4	2	18.2
Wednesday	2	14.3	3	27.3
Thursday	3	21.4	2	18.2
Friday	2	14.3	1	9.1
Saturday	1	7.1	1	9.1
Total	14	100.0	11	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	7.1	1	9.1
10am - 3:59pm	5	35.7	5	45.5
4pm - 7:59pm	6	42.9	5	45.5
8pm - 5:59am	1	7.1	0	0.0
Unknown	1	7.1	0	0.0
Total	14	100.0	11	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	18.2
Head-on	2	14.3	3	27.3
Angle	3	21.4	0	0.0
Rear-end	5	35.7	3	27.3
Sideswipe	1	7.1	3	27.3
Other/unknown	3	21.4	0	0.0
Total	14	100.0	11	100.0

M1 (Woodward Avenue) and Tuxedo and Tennyson Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	16.7	1	16.7
B-Injury	1	8.3	1	16.7
C-Injury	2	16.7	1	16.7
O-Injury	7	58.3	3	50.0
Total	12	100.0	6	100.0

Day of Week	Before	%	After	%
Sunday	2	16.7	1	16.7
Monday	0	0.0	1	16.7
Tuesday	5	41.7	1	16.7
Wednesday	3	25.0	1	16.7
Thursday	0	0.0	0	0.0
Friday	1	8.3	1	16.7
Saturday	1	8.3	1	16.7
Total	12	100.0	6	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	3	50.0
10am - 3:59pm	4	33.3	1	16.7
4pm - 7:59pm	5	41.7	1	16.7
8pm - 5:59am	3	25.0	1	16.7
Unknown	0	0.0	0	0.0
Total	12	100.0	6	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	1	8.3	0	0.0
Angle	3	25.0	1	16.7
Rear-end	4	33.3	3	50.0
Sideswipe	4	33.3	1	16.7
Other/unknown	0	0.0	1	16.7
Total	12	100.0	6	100.0

M1 (Woodward Avenue) and Calvert and Trowbridge Street

Before Before Data Size Data S

Date of Signal Optimization: September 17, 2004

1,356 days before

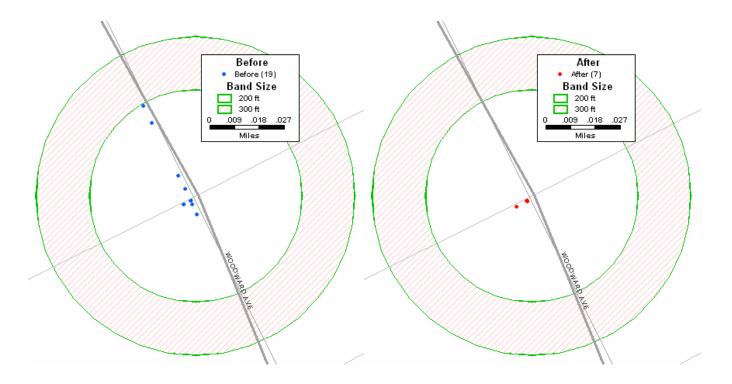
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	4.0	1	20.0
B-Injury	0	0.0	0	0.0
C-Injury	4	16.0	0	0.0
O-Injury	20	80.0	4	80.0
Total	25	100.0	5	100.0

Day of Week	Before	%	After	%
Sunday	3	12.0	0	0.0
Monday	4	16.0	1	20.0
Tuesday	7	28.0	1	20.0
Wednesday	3	12.0	0	0.0
Thursday	3	12.0	1	20.0
Friday	3	12.0	2	40.0
Saturday	2	8.0	0	0.0
Total	25	100.0	5	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	12.0	1	20.0
10am - 3:59pm	7	28.0	3	60.0
4pm - 7:59pm	6	24.0	0	0.0
8pm - 5:59am	5	20.0	1	20.0
Unknown	4	16.0	0	0.0
Total	25	100.0	5	100.0

Crash Type	Before	%	After	%
Single vehicle	1	4.0	1	20.0
Head-on	1	4.0	0	0.0
Angle	3	12.0	1	20.0
Rear-end	11	44.0	1	20.0
Sideswipe	6	24.0	1	20.0
Other/unknown	3	12.0	1	20.0
Total	25	100.0	5	100.0

M1 (Woodward Avenue) and Chicago Blvd and Arden Park Blvd



Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	1	14.3
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	1	14.3
C-Injury	3	15.8	2	28.6
O-Injury	16	84.2	3	42.9
Total	19	100.0	7	100.0

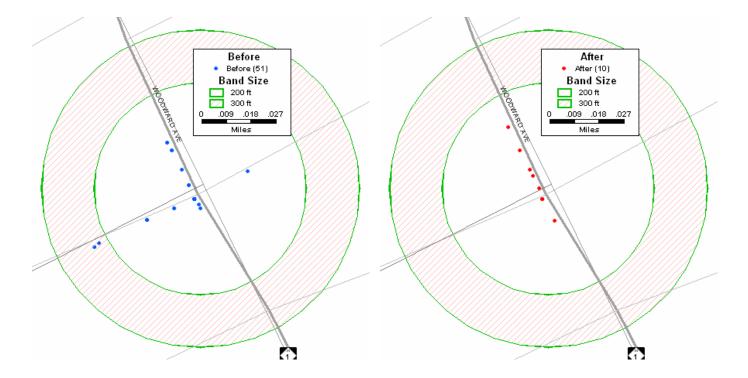
Day of Week	Before	%	After	%
Sunday	1	5.3	0	0.0
Monday	4	21.1	0	0.0
Tuesday	2	10.5	1	14.3
Wednesday	3	15.8	0	0.0
Thursday	3	15.8	0	0.0
Friday	3	15.8	5	71.4
Saturday	3	15.8	1	14.3
Total	19	100.0	7	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	21.1	1	14.3
10am - 3:59pm	8	42.1	4	57.1
4pm - 7:59pm	2	10.5	0	0.0
8pm - 5:59am	4	21.1	2	28.6
Unknown	1	5.3	0	0.0
Total	19	100.0	7	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.3	1	14.3
Head-on	1	5.3	1	14.3
Angle	3	15.8	2	28.6
Rear-end	11	57.9	1	14.3
Sideswipe	1	5.3	2	28.6
Other/unknown	2	10.5	0	0.0
Total	19	100.0	7	100.0

M1 (Woodward Avenue) and Clairmount and Owen Street

Date of Signal Optimization: September 17, 2004



1,356 days before

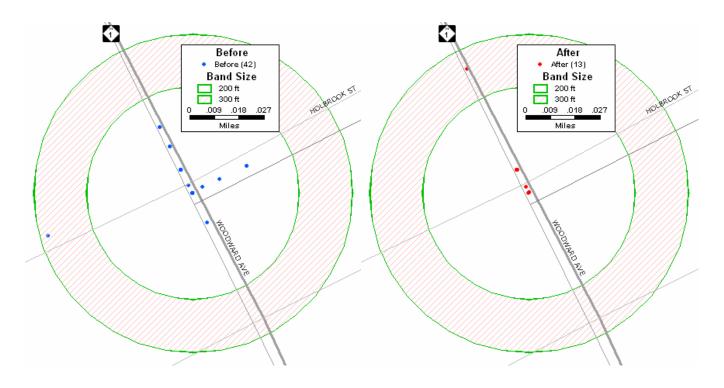
Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	3	5.9	0	0.0
B-Injury	2	3.9	1	10.0
C-Injury	7	13.7	3	30.0
O-Injury	39	76.5	6	60.0
Total	51	100.0	10	100.0

Day of Week	Before	%	After	%
Sunday	5	9.8	1	10.0
Monday	8	15.7	2	20.0
Tuesday	4	7.8	3	30.0
Wednesday	8	15.7	1	10.0
Thursday	8	15.7	1	10.0
Friday	9	17.6	0	0.0
Saturday	9	17.6	2	20.0
Total	51	100.0	10	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	7.8	1	10.0
10am - 3:59pm	16	31.4	4	40.0
4pm - 7:59pm	15	29.4	3	30.0
8pm - 5:59am	13	25.5	2	20.0
Unknown	3	5.9	0	0.0
Total	51	100.0	10	100.0

Crash Type	Before	%	After	%
Single vehicle	3	5.9	1	10.0
Head-on	4	7.8	0	0.0
Angle	18	35.3	4	40.0
Rear-end	8	15.7	2	20.0
Sideswipe	15	29.4	3	30.0
Other/unknown	3	5.9	0	0.0
Total	51	100.0	10	100.0

M1 (Woodward Avenue) and Hazelwood and Holbrook Street



Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.4	1	7.7
B-Injury	3	7.1	1	7.7
C-Injury	10	23.8	1	7.7
O-Injury	28	66.7	10	76.9
Total	42	100.0	13	100.0

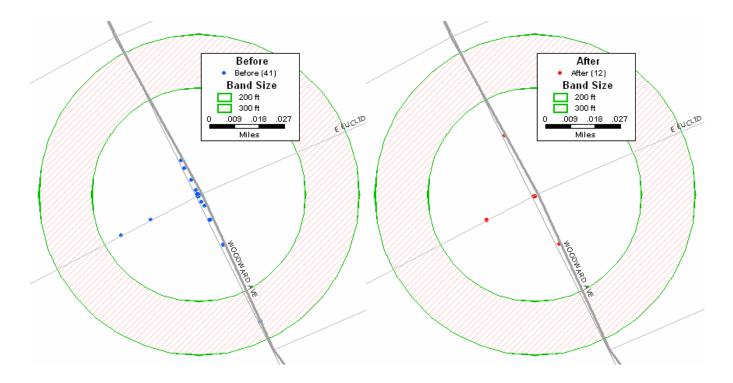
Day of Week	Before	%	After	%
Sunday	6	14.3	0	0.0
Monday	3	7.1	2	15.4
Tuesday	11	26.2	2	15.4
Wednesday	3	7.1	3	23.1
Thursday	4	9.5	1	7.7
Friday	8	19.0	3	23.1
Saturday	7	16.7	2	15.4
Total	42	100.0	13	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	9.5	4	30.8
10am - 3:59pm	14	33.3	4	30.8
4pm - 7:59pm	13	31.0	2	15.4
8pm - 5:59am	10	23.8	2	15.4
Unknown	1	2.4	1	7.7
Total	42	100.0	13	100.0

Crash Type	Before	%	After	%
Single vehicle	3	7.1	0	0.0
Head-on	3	7.1	3	23.1
Angle	8	19.0	3	23.1
Rear-end	19	45.2	3	23.1
Sideswipe	5	11.9	3	23.1
Other/unknown	4	9.5	1	7.7
Total	42	100.0	13	100.0

M1 (Woodward Avenue) and Euclid Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	1	2.4	0	0.0
A-Injury	2	4.9	0	0.0
B-Injury	2	4.9	1	8.3
C-Injury	3	7.3	2	16.7
O-Injury	33	80.5	9	75.0
Total	41	100.0	12	100.0

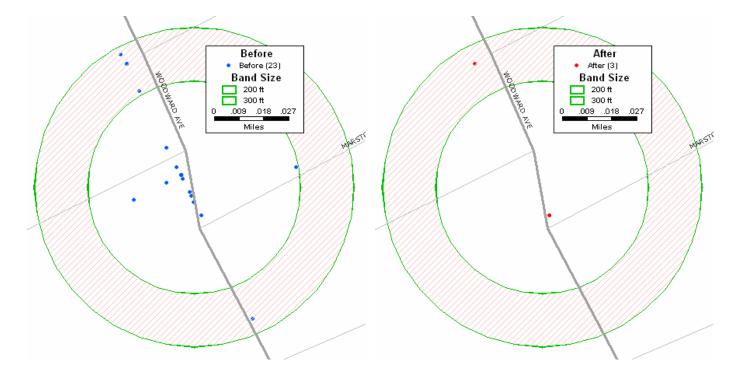
Day of Week	Before	%	After	%
Sunday	4	9.8	0	0.0
Monday	5	12.2	1	8.3
Tuesday	4	9.8	2	16.7
Wednesday	7	17.1	2	16.7
Thursday	5	12.2	2	16.7
Friday	8	19.5	5	41.7
Saturday	8	19.5	0	0.0
Total	41	100.0	12	100.0

Time of Day	Before	%	After	%
6am - 9:59am	8	19.5	1	8.3
10am - 3:59pm	11	26.8	4	33.3
4pm - 7:59pm	8	19.5	4	33.3
8pm - 5:59am	11	26.8	2	16.7
Unknown	3	7.3	1	8.3
Total	41	100.0	12	100.0

Crash Type	Before	%	After	%
Single vehicle	2	4.9	1	8.3
Head-on	2	4.9	0	0.0
Angle	12	29.3	2	16.7
Rear-end	14	34.1	5	41.7
Sideswipe	8	19.5	3	25.0
Other/unknown	3	7.3	1	8.3
Total	41	100.0	12	100.0

M1 (Woodward Avenue) and Seward and Marston Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	8.7	0	0.0
B-Injury	4	17.4	0	0.0
C-Injury	2	8.7	0	0.0
O-Injury	15	65.2	3	100.0
Total	23	100.0	3	100.0

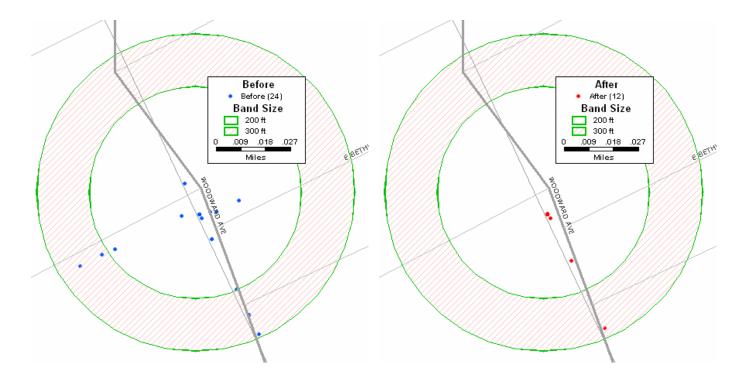
Day of Week	Before	%	After	%
Sunday	5	21.7	0	0.0
Monday	3	13.0	0	0.0
Tuesday	4	17.4	1	33.3
Wednesday	3	13.0	0	0.0
Thursday	3	13.0	0	0.0
Friday	3	13.0	2	66.7
Saturday	2	8.7	0	0.0
Total	23	100.0	3	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	8.7	0	0.0
10am - 3:59pm	8	34.8	1	33.3
4pm - 7:59pm	5	21.7	2	66.7
8pm - 5:59am	8	34.8	0	0.0
Unknown	0	0.0	0	0.0
Total	23	100.0	3	100.0

Crash Type	Before	%	After	%
Single vehicle	1	4.3	0	0.0
Head-on	4	17.4	0	0.0
Angle	2	8.7	1	33.3
Rear-end	7	30.4	1	33.3
Sideswipe	7	30.4	1	33.3
Other/unknown	2	8.7	0	0.0
Total	23	100.0	3	100.0

M1 (Woodward Avenue) and Bethune Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	4.2	0	0.0
C-Injury	6	25.0	5	41.7
O-Injury	17	70.8	7	58.3
Total	24	100.0	12	100.0

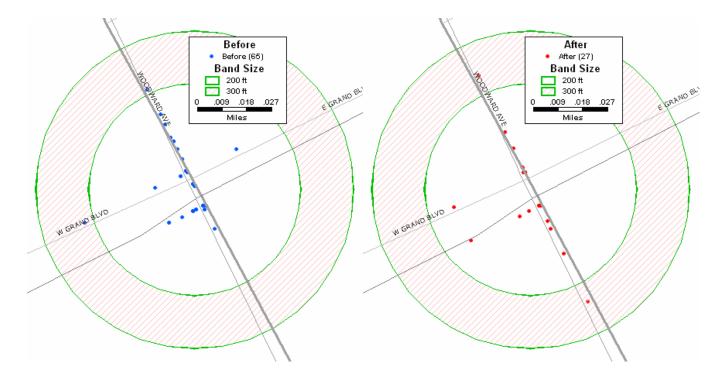
Day of Week	Before	%	After	%
Sunday	1	4.2	3	25.0
Monday	6	25.0	3	25.0
Tuesday	2	8.3	0	0.0
Wednesday	5	20.8	0	0.0
Thursday	5	20.8	3	25.0
Friday	3	12.5	1	8.3
Saturday	2	8.3	2	16.7
Total	24	100.0	12	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	25.0	2	16.7
10am - 3:59pm	10	41.7	5	41.7
4pm - 7:59pm	3	12.5	3	25.0
8pm - 5:59am	3	12.5	2	16.7
Unknown	2	8.3	0	0.0
Total	24	100.0	12	100.0

Crash Type	Before	%	After	%
Single vehicle	4	16.7	0	0.0
Head-on	2	8.3	1	8.3
Angle	5	20.8	3	25.0
Rear-end	7	29.2	6	50.0
Sideswipe	4	16.7	2	16.7
Other/unknown	2	8.3	0	0.0
Total	24	100.0	12	100.0

M1 (Woodward Avenue) and Grand Blvd

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	1	1.5	0	0.0
A-Injury	4	6.2	1	3.7
B-Injury	1	1.5	0	0.0
C-Injury	6	9.2	9	33.3
O-Injury	53	81.5	17	63.0
Total	65	100.0	27	100.0

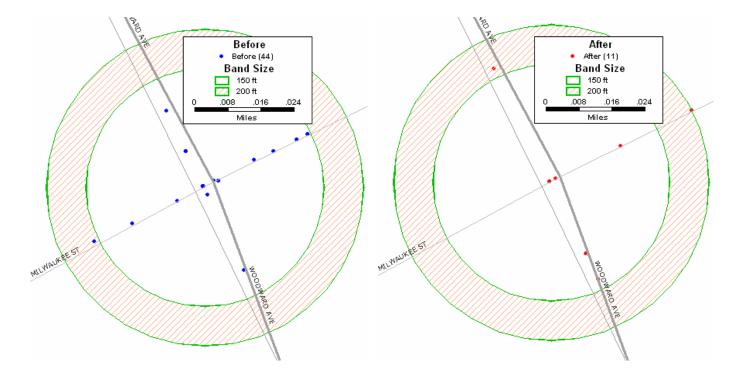
Day of Week	Before	%	After	%
Sunday	4	6.2	1	3.7
Monday	11	16.9	3	11.1
Tuesday	14	21.5	3	11.1
Wednesday	6	9.2	5	18.5
Thursday	14	21.5	6	22.2
Friday	11	16.9	3	11.1
Saturday	5	7.7	6	22.2
Total	65	100.0	27	100.0

Time of Day	Before	%	After	%
6am - 9:59am	9	13.8	4	14.8
10am - 3:59pm	26	40.0	11	40.7
4pm - 7:59pm	16	24.6	5	18.5
8pm - 5:59am	9	13.8	7	25.9
Unknown	5	7.7	0	0.0
Total	65	100.0	27	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	7.4
Head-on	4	6.2	3	11.1
Angle	19	29.2	5	18.5
Rear-end	21	32.3	5	18.5
Sideswipe	14	21.5	10	37.0
Other/unknown	7	10.8	2	7.4
Total	65	100.0	27	100.0

M1 (Woodward Avenue) and Milwaukee Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	2.3	0	0.0
C-Injury	5	11.4	1	9.1
O-Injury	38	86.4	10	90.9
Total	44	100.0	11	100.0

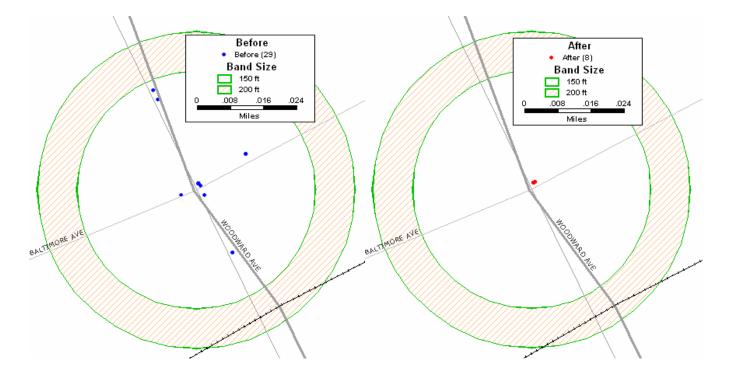
Day of Week	Before	%	After	%
Sunday	4	9.1	3	27.3
Monday	11	25.0	2	18.2
Tuesday	5	11.4	0	0.0
Wednesday	5	11.4	0	0.0
Thursday	3	6.8	2	18.2
Friday	10	22.7	1	9.1
Saturday	6	13.6	3	27.3
Total	44	100.0	11	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	4.5	1	9.1
10am - 3:59pm	19	43.2	4	36.4
4pm - 7:59pm	9	20.5	2	18.2
8pm - 5:59am	10	22.7	3	27.3
Unknown	4	9.1	1	9.1
Total	44	100.0	11	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	0	0.0
Head-on	0	0.0	0	0.0
Angle	12	27.3	0	0.0
Rear-end	6	13.6	2	18.2
Sideswipe	18	40.9	8	72.7
Other/unknown	8	18.2	1	9.1
Total	44	100.0	11	100.0

M1 (Woodward Avenue) and Baltimore Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	10.3	1	12.5
C-Injury	5	17.2	0	0.0
O-Injury	21	72.4	7	87.5
Total	29	100.0	8	100.0

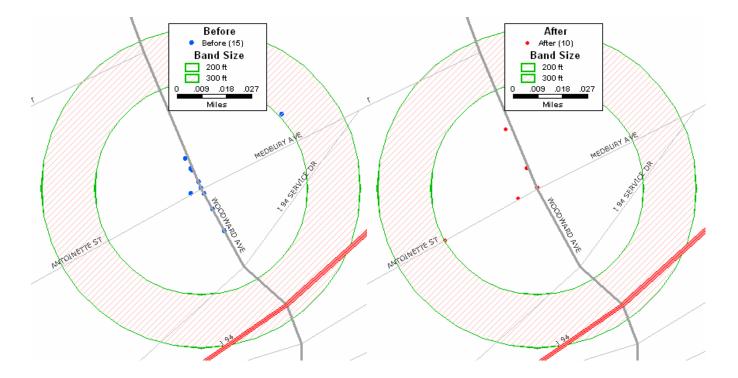
Day of Week	Before	%	After	%
Sunday	5	17.2	0	0.0
Monday	2	6.9	1	12.5
Tuesday	4	13.8	2	25.0
Wednesday	4	13.8	1	12.5
Thursday	5	17.2	0	0.0
Friday	5	17.2	2	25.0
Saturday	4	13.8	2	25.0
Total	29	100.0	8	100.0

Time of Day	Before	%	After	%
6am - 9:59am	3	10.3	0	0.0
10am - 3:59pm	6	20.7	5	62.5
4pm - 7:59pm	10	34.5	2	25.0
8pm - 5:59am	9	31.0	1	12.5
Unknown	1	3.4	0	0.0
Total	29	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.4	0	0.0
Head-on	3	10.3	0	0.0
Angle	4	13.8	5	62.5
Rear-end	14	48.3	1	12.5
Sideswipe	5	17.2	1	12.5
Other/unknown	2	6.9	1	12.5
Total	29	100.0	8	100.0

M1 (Woodward Avenue) and Antoinette Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	6.7	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	1	6.7	1	10.0
O-Injury	13	86.7	9	90.0
Total	15	100.0	10	100.0

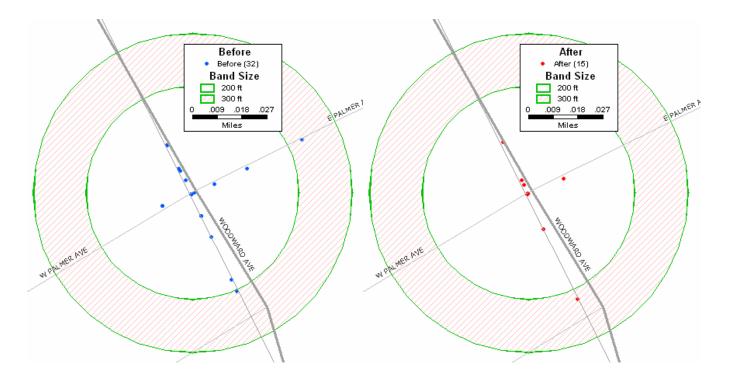
Day of Week	Before	%	After	%
Sunday	2	13.3	0	0.0
Monday	4	26.7	0	0.0
Tuesday	2	13.3	3	30.0
Wednesday	1	6.7	2	20.0
Thursday	4	26.7	2	20.0
Friday	2	13.3	2	20.0
Saturday	0	0.0	1	10.0
Total	15	100.0	10	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	13.3	2	20.0
10am - 3:59pm	5	33.3	6	60.0
4pm - 7:59pm	5	33.3	1	10.0
8pm - 5:59am	3	20.0	1	10.0
Unknown	0	0.0	0	0.0
Total	15	100.0	10	100.0

Crash Type	Before	%	After	%
Single vehicle	2	13.3	2	20.0
Head-on	3	20.0	0	0.0
Angle	4	26.7	2	20.0
Rear-end	2	13.3	2	20.0
Sideswipe	3	20.0	4	40.0
Other/unknown	1	6.7	0	0.0
Total	15	100.0	10	100.0

M1 (Woodward Avenue) and Palmer Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	3.1	0	0.0
C-Injury	3	9.4	1	6.7
O-Injury	28	87.5	14	93.3
Total	32	100.0	15	100.0

				_
fter	%	Time of Day	Before	
0	0.0	6am - 9:59am	7	
0	0.0	10am - 3:59pm	10	
0	0.0	4pm - 7:59pm	9	
1	6.7	8pm - 5:59am	2	
14	93.3	Unknown	4	
15	100.0	Total	32	

Day of Week	Before	%	After	%
Sunday	0	0.0	1	6.7
Monday	4	12.5	3	20.0
Tuesday	3	9.4	1	6.7
Wednesday	14	43.8	4	26.7
Thursday	4	12.5	6	40.0
Friday	6	18.8	0	0.0
Saturday	1	3.1	0	0.0
Total	32	100.0	15	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	13.3
Head-on	2	6.3	1	6.7
Angle	9	28.1	5	33.3
Rear-end	8	25.0	2	13.3
Sideswipe	11	34.4	5	33.3
Other/unknown	2	6.3	0	0.0
Total	32	100.0	15	100.0

470 days after

%

21.9

31.3

28.1

100.0

6.3 12.5 After

2

6

2

5

0

15

%

13.3 40.0

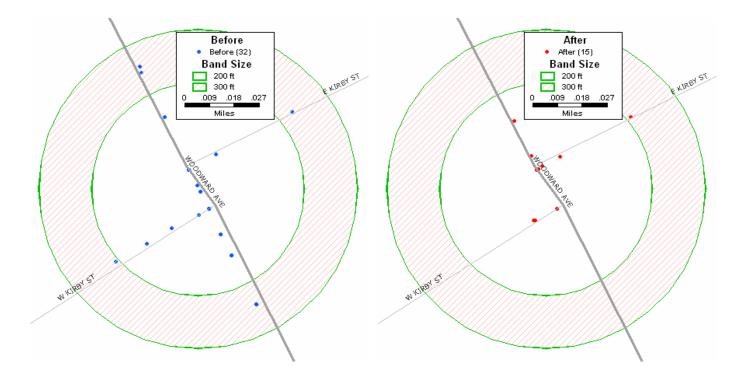
13.3

33.3

0.0

M1 (Woodward Avenue) and Kirby Street

Date of Signal Optimization: September 17, 2004



1,356 days before

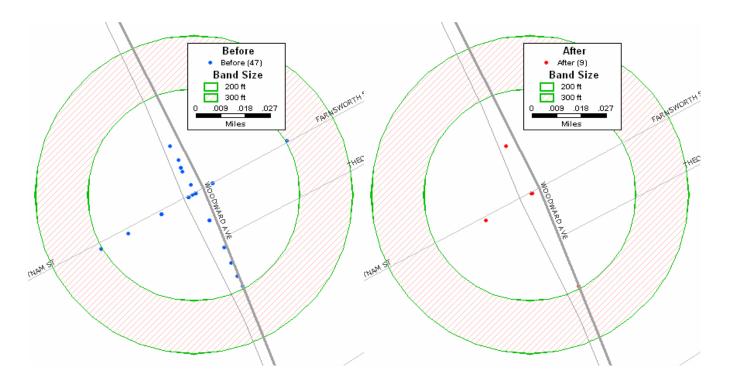
Injury Severity	Before	%	After	%
Fatal	1	3.1	0	0.0
A-Injury	0	0.0	1	6.7
B-Injury	1	3.1	0	0.0
C-Injury	2	6.3	1	6.7
O-Injury	28	87.5	13	86.7
Total	32	100.0	15	100.0

Day of Week	Before	%	After	%
Sunday	2	6.3	0	0.0
Monday	4	12.5	3	20.0
Tuesday	7	21.9	2	13.3
Wednesday	4	12.5	4	26.7
Thursday	6	18.8	2	13.3
Friday	7	21.9	4	26.7
Saturday	2	6.3	0	0.0
Total	32	100.0	15	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	6.3	1	6.7
10am - 3:59pm	15	46.9	10	66.7
4pm - 7:59pm	7	21.9	2	13.3
8pm - 5:59am	5	15.6	1	6.7
Unknown	3	9.4	1	6.7
Total	32	100.0	15	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.1	1	6.7
Head-on	0	0.0	0	0.0
Angle	5	15.6	3	20.0
Rear-end	8	25.0	3	20.0
Sideswipe	16	50.0	5	33.3
Other/unknown	2	6.3	3	20.0
Total	32	100.0	15	100.0

M1 (Woodward Avenue) and Putnam and Farnsworth Street



Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	2	4.3	1	11.1
C-Injury	4	8.5	2	22.2
O-Injury	41	87.2	6	66.7
Total	47	100.0	9	100.0

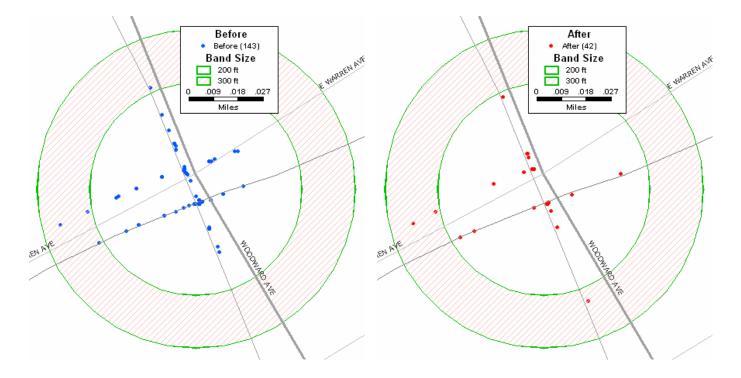
Day of Week	Before	%	After	%
Sunday	1	2.1	0	0.0
Monday	5	10.6	1	11.1
Tuesday	13	27.7	0	0.0
Wednesday	5	10.6	2	22.2
Thursday	10	21.3	0	0.0
Friday	9	19.1	6	66.7
Saturday	4	8.5	0	0.0
Total	47	100.0	9	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	2.1	2	22.2
10am - 3:59pm	24	51.1	5	55.6
4pm - 7:59pm	13	27.7	2	22.2
8pm - 5:59am	3	6.4	0	0.0
Unknown	6	12.8	0	0.0
Total	47	100.0	9	100.0

Crash Type	Before	%	After	%
Single vehicle	4	8.5	0	0.0
Head-on	2	4.3	0	0.0
Angle	5	10.6	3	33.3
Rear-end	5	10.6	2	22.2
Sideswipe	19	40.4	0	0.0
Other/unknown	12	25.5	4	44.4
Total	47	100.0	9	100.0

M1 (Woodward Avenue) and Warren Avenue

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	0.7	0	0.0
B-Injury	1	0.7	3	7.1
C-Injury	23	16.1	3	7.1
O-Injury	118	82.5	36	85.7
Total	143	100.0	42	100.0

470 days after

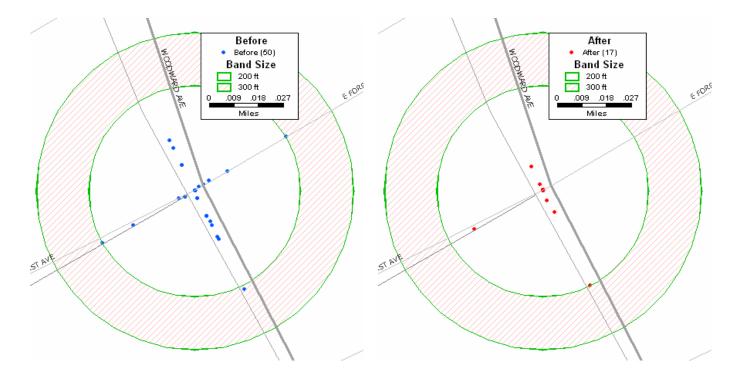
Time of Day	Before	%	After	%
6am - 9:59am	26	18.2	4	9.5
10am - 3:59pm	55	38.5	19	45.2
4pm - 7:59pm	42	29.4	16	38.1
8pm - 5:59am	13	9.1	3	7.1
Unknown	7	4.9	0	0.0
Total	143	100.0	42	100.0

Day of Week	Before	%	After	%
Sunday	8	5.6	1	2.4
Monday	20	14.0	6	14.3
Tuesday	21	14.7	8	19.0
Wednesday	28	19.6	10	23.8
Thursday	23	16.1	7	16.7
Friday	29	20.3	5	11.9
Saturday	14	9.8	5	11.9
Total	143	100.0	42	100.0

Crash Type	Before	%	After	%
Single vehicle	3	2.1	2	4.8
Head-on	11	7.7	4	9.5
Angle	32	22.4	13	31.0
Rear-end	31	21.7	9	21.4
Sideswipe	45	31.5	7	16.7
Other/unknown	21	14.7	7	16.7
Total	143	100.0	42	100.0

M1 (Woodward Avenue) and Forest Avenue

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	4.0	0	0.0
B-Injury	0	0.0	1	5.9
C-Injury	6	12.0	4	23.5
O-Injury	42	84.0	12	70.6
Total	50	100.0	17	100.0

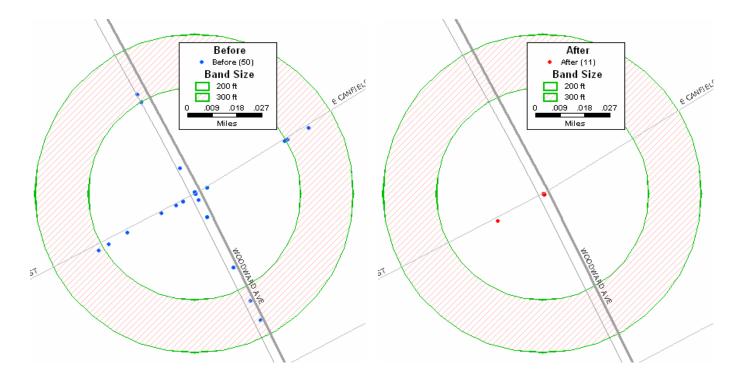
Day of Week	Before	%	After	%
Sunday	6	12.0	1	5.9
Monday	7	14.0	4	23.5
Tuesday	4	8.0	4	23.5
Wednesday	10	20.0	3	17.6
Thursday	4	8.0	1	5.9
Friday	11	22.0	2	11.8
Saturday	8	16.0	2	11.8
Total	50	100.0	17	100.0

Time of Day	Before	%	After	%
6am - 9:59am	9	18.0	4	23.5
10am - 3:59pm	23	46.0	5	29.4
4pm - 7:59pm	7	14.0	5	29.4
8pm - 5:59am	7	14.0	3	17.6
Unknown	4	8.0	0	0.0
Total	50	100.0	17	100.0

Crash Type	Before	%	After	%
Single vehicle	0	0.0	2	11.8
Head-on	1	2.0	0	0.0
Angle	13	26.0	6	35.3
Rear-end	14	28.0	4	23.5
Sideswipe	14	28.0	3	17.6
Other/unknown	8	16.0	2	11.8
Total	50	100.0	17	100.0

M1 (Woodward Avenue) and Canfield Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	2.0	0	0.0
C-Injury	5	10.0	1	9.1
O-Injury	44	88.0	10	90.9
Total	50	100.0	11	100.0

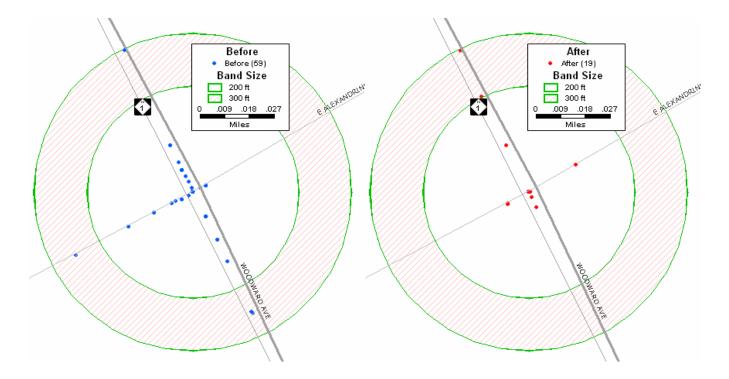
Day of Week	Before	%	After	%
Sunday	1	2.0	3	27.3
Monday	11	22.0	0	0.0
Tuesday	9	18.0	2	18.2
Wednesday	6	12.0	3	27.3
Thursday	9	18.0	2	18.2
Friday	6	12.0	1	9.1
Saturday	8	16.0	0	0.0
Total	50	100.0	11	100.0

Time of Day	Before	%	After	%
6am - 9:59am	7	14.0	3	27.3
10am - 3:59pm	20	40.0	6	54.5
4pm - 7:59pm	12	24.0	1	9.1
8pm - 5:59am	9	18.0	0	0.0
Unknown	2	4.0	1	9.1
Total	50	100.0	11	100.0

Crash Type	Before	%	After	%
Single vehicle	3	6.0	0	0.0
Head-on	2	4.0	1	9.1
Angle	14	28.0	2	18.2
Rear-end	10	20.0	4	36.4
Sideswipe	14	28.0	3	27.3
Other/unknown	7	14.0	1	9.1
Total	50	100.0	11	100.0

M1 (Woodward Avenue) and Alexandrine Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	3.4	1	5.3
B-Injury	4	6.8	0	0.0
C-Injury	8	13.6	4	21.1
O-Injury	45	76.3	14	73.7
Total	59	100.0	19	100.0

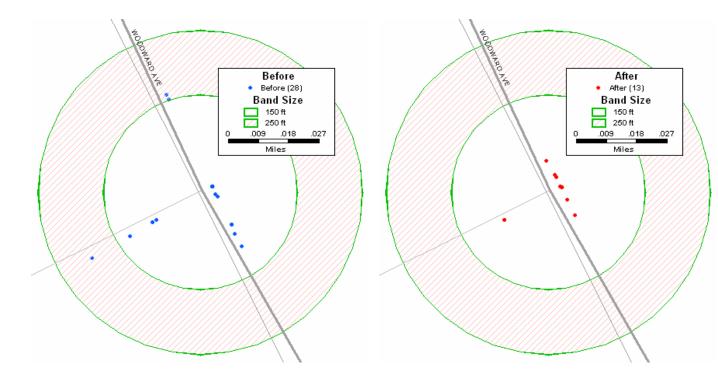
Day of Week	Before	%	After	%
Sunday	10	16.9	1	5.3
Monday	6	10.2	5	26.3
Tuesday	8	13.6	3	15.8
Wednesday	6	10.2	6	31.6
Thursday	11	18.6	0	0.0
Friday	11	18.6	3	15.8
Saturday	7	11.9	1	5.3
Total	59	100.0	19	100.0

Time of Day	Before	%	After	%
6am - 9:59am	7	11.9	1	5.3
10am - 3:59pm	16	27.1	10	52.6
4pm - 7:59pm	13	22.0	4	21.1
8pm - 5:59am	18	30.5	4	21.1
Unknown	5	8.5	0	0.0
Total	59	100.0	19	100.0

Crash Type	Before	%	After	%
Single vehicle	5	8.5	0	0.0
Head-on	3	5.1	1	5.3
Angle	17	28.8	6	31.6
Rear-end	11	18.6	8	42.1
Sideswipe	15	25.4	1	5.3
Other/unknown	8	13.6	3	15.8
Total	59	100.0	19	100.0

M1 (Woodward Avenue) and Parsons Street

Date of Signal Optimization: September 17, 2004



1,356 days before

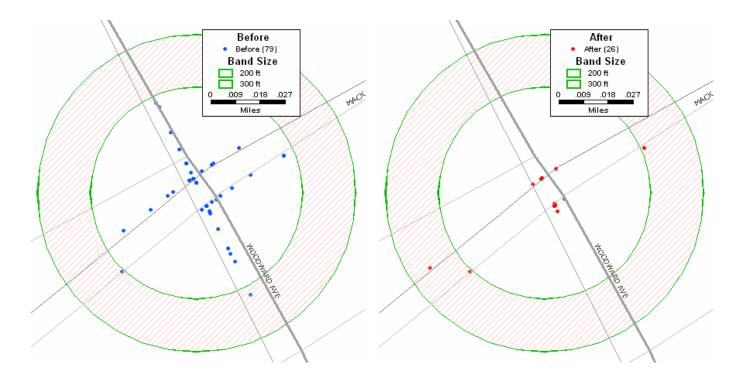
Injury Severity	Before	%	After	%
Fatal	1	3.6	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	3.6	0	0.0
C-Injury	4	14.3	2	15.4
O-Injury	22	78.6	11	84.6
Total	28	100.0	13	100.0

Day of Week	Before	%	After	%
Sunday	1	3.6	1	7.7
Monday	4	14.3	2	15.4
Tuesday	8	28.6	1	7.7
Wednesday	4	14.3	2	15.4
Thursday	2	7.1	3	23.1
Friday	5	17.9	3	23.1
Saturday	4	14.3	1	7.7
Total	28	100.0	13	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	17.9	0	0.0
10am - 3:59pm	10	35.7	7	53.8
4pm - 7:59pm	6	21.4	2	15.4
8pm - 5:59am	6	21.4	2	15.4
Unknown	1	3.6	2	15.4
Total	28	100.0	13	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.6	0	0.0
Head-on	0	0.0	2	15.4
Angle	6	21.4	1	7.7
Rear-end	9	32.1	1	7.7
Sideswipe	5	17.9	6	46.2
Other/unknown	7	25.0	3	23.1
Total	28	100.0	13	100.0

M1 (Woodward Avenue) and Martin Luther King Jr Blvd and Mack Ave



Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	1.3	0	0.0
B-Injury	2	2.5	0	0.0
C-Injury	14	17.7	5	19.2
O-Injury	62	78.5	21	80.8
Total	79	100.0	26	100.0

Day of Week	Before	%	After	%
Sunday	7	8.9	2	7.7
Monday	13	16.5	4	15.4
Tuesday	11	13.9	6	23.1
Wednesday	16	20.3	1	3.8
Thursday	9	11.4	3	11.5
Friday	16	20.3	8	30.8
Saturday	7	8.9	2	7.7
Total	79	100.0	26	100.0

Time of Day	Before	%	After	%
6am - 9:59am	11	13.9	6	23.1
10am - 3:59pm	27	34.2	11	42.3
4pm - 7:59pm	19	24.1	4	15.4
8pm - 5:59am	16	20.3	5	19.2
Unknown	6	7.6	0	0.0
Total	79	100.0	26	100.0

Crash Type	Before	%	After	%
Single vehicle	3	3.8	0	0.0
Head-on	8	10.1	9	34.6
Angle	23	29.1	9	34.6
Rear-end	20	25.3	5	19.2
Sideswipe	20	25.3	1	3.8
Other/unknown	5	6.3	2	7.7
Total	79	100.0	26	100.0

M1 (Woodward Avenue) and Peterboro and Erskine Street

ERSKINEST ERSKINEST After Before Before (24) After (9) ٠ Band Size Band Size 200 ft 200 ft ٦ 300 ft 300 ft .009 .018 .027 .009 .018 .027 0 o Miles Miles WOODHERD FAR Ϋ_{PO} • PETERBOR PETERBORDST 4

Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	1	11.1
B-Injury	1	4.2	0	0.0
C-Injury	3	12.5	1	11.1
O-Injury	20	83.3	7	77.8
Total	24	100.0	9	100.0

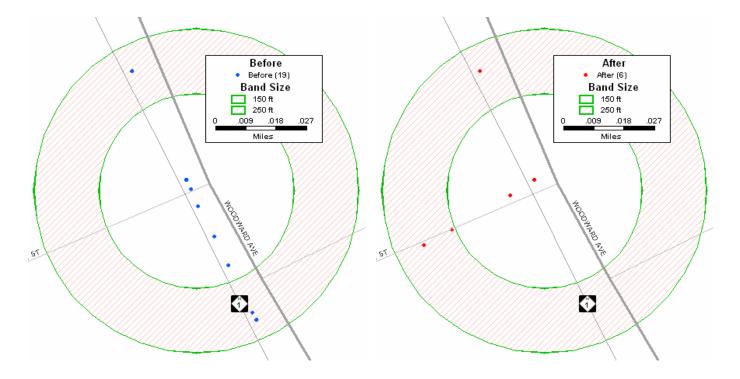
Day of Week	Before	%	After	%
Sunday	0	0.0	1	11.1
Monday	4	16.7	1	11.1
Tuesday	1	4.2	1	11.1
Wednesday	3	12.5	2	22.2
Thursday	8	33.3	2	22.2
Friday	6	25.0	1	11.1
Saturday	2	8.3	1	11.1
Total	24	100.0	9	100.0

Time of Day	Before	%	After	%
6am - 9:59am	4	16.7	3	33.3
10am - 3:59pm	9	37.5	4	44.4
4pm - 7:59pm	5	20.8	1	11.1
8pm - 5:59am	5	20.8	1	11.1
Unknown	1	4.2	0	0.0
Total	24	100.0	9	100.0

Crash Type	Before	%	After	%
Single vehicle	2	8.3	0	0.0
Head-on	1	4.2	0	0.0
Angle	3	12.5	2	22.2
Rear-end	5	20.8	2	22.2
Sideswipe	7	29.2	2	22.2
Other/unknown	6	25.0	3	33.3
Total	24	100.0	9	100.0

M1 (Woodward Avenue) and Charlotte Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	1	5.3	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	0	0.0	0	0.0
C-Injury	4	21.1	1	16.7
O-Injury	14	73.7	5	83.3
Total	19	100.0	6	100.0

Day of Week	Before	%	After	%
Sunday	2	10.5	0	0.0
Monday	1	5.3	0	0.0
Tuesday	1	5.3	2	33.3
Wednesday	4	21.1	1	16.7
Thursday	5	26.3	0	0.0
Friday	3	15.8	2	33.3
Saturday	3	15.8	1	16.7
Total	19	100.0	6	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	2	33.3
10am - 3:59pm	6	31.6	2	33.3
4pm - 7:59pm	4	21.1	1	16.7
8pm - 5:59am	7	36.8	1	16.7
Unknown	2	10.5	0	0.0
Total	19	100.0	6	100.0

Crash Type	Before	%	After	%
Single vehicle	3	15.8	0	0.0
Head-on	1	5.3	2	33.3
Angle	3	15.8	1	16.7
Rear-end	6	31.6	2	33.3
Sideswipe	4	21.1	1	16.7
Other/unknown	2	10.5	0	0.0
Total	19	100.0	6	100.0

M1 (Woodward Avenue) and Adelaide and Sibley Street

After • After (2) Band Size Before Before (12) MOOD MARDA ANEL 1 COUNTROOP Band Size 100 ft 100 ft 200 ft 72 .016 .024 .024 .008 .008 .016 o Miles Miles • . 6 5 5

Date of Signal Optimization: September 17, 2004

1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	25.0	0	0.0
C-Injury	1	8.3	0	0.0
O-Injury	8	66.7	2	100.0
Total	12	100.0	2	100.0

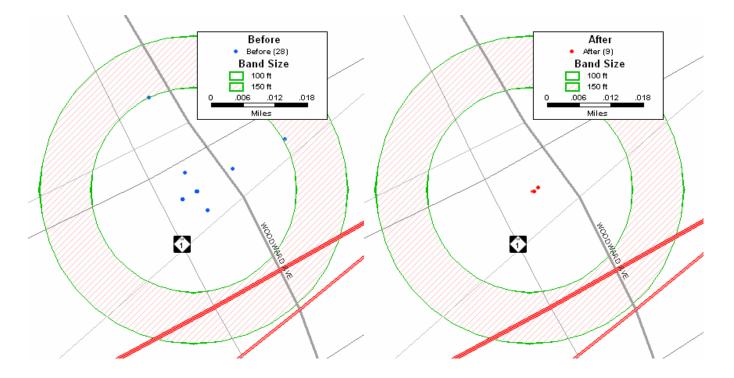
Day of Week	Before	%	After	%
Sunday	1	8.3	0	0.0
Monday	2	16.7	0	0.0
Tuesday	0	0.0	2	100.0
Wednesday	1	8.3	0	0.0
Thursday	1	8.3	0	0.0
Friday	3	25.0	0	0.0
Saturday	4	33.3	0	0.0
Total	12	100.0	2	100.0

Time of Day	Before	%	After	%
6am - 9:59am	0	0.0	0	0.0
10am - 3:59pm	5	41.7	1	50.0
4pm - 7:59pm	4	33.3	0	0.0
8pm - 5:59am	2	16.7	1	50.0
Unknown	1	8.3	0	0.0
Total	12	100.0	2	100.0

Crash Type	Before	%	After	%
Single vehicle	1	8.3	0	0.0
Head-on	2	16.7	1	50.0
Angle	4	33.3	0	0.0
Rear-end	3	25.0	1	50.0
Sideswipe	2	16.7	0	0.0
Other/unknown	0	0.0	0	0.0
Total	12	100.0	2	100.0

M1 (Woodward Avenue) and I75 Southbound

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	1	3.6	0	0.0
C-Injury	4	14.3	0	0.0
O-Injury	23	82.1	9	100.0
Total	28	100.0	9	100.0

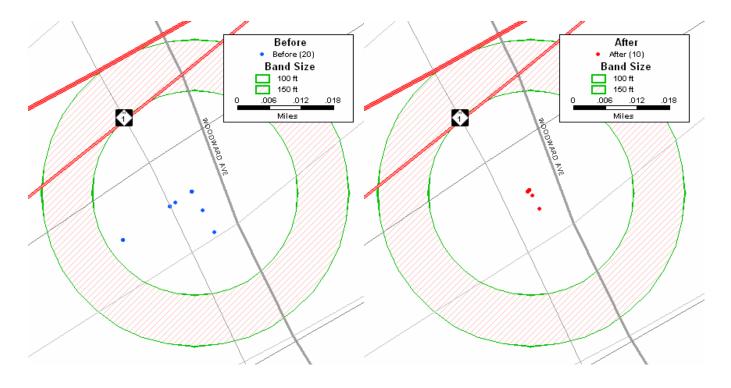
Day of Week	Before	%	After	%
Sunday	2	7.1	0	0.0
Monday	3	10.7	1	11.1
Tuesday	5	17.9	1	11.1
Wednesday	2	7.1	2	22.2
Thursday	7	25.0	0	0.0
Friday	5	17.9	2	22.2
Saturday	4	14.3	3	33.3
Total	28	100.0	9	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	21.4	1	11.1
10am - 3:59pm	7	25.0	1	11.1
4pm - 7:59pm	8	28.6	6	66.7
8pm - 5:59am	6	21.4	1	11.1
Unknown	1	3.6	0	0.0
Total	28	100.0	9	100.0

Crash Type	Before	%	After	%
Single vehicle	1	3.6	0	0.0
Head-on	0	0.0	0	0.0
Angle	11	39.3	4	44.4
Rear-end	7	25.0	2	22.2
Sideswipe	8	28.6	2	22.2
Other/unknown	1	3.6	1	11.1
Total	28	100.0	9	100.0

M1 (Woodward Avenue) and I75 Northbound

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	5	25.0	0	0.0
C-Injury	2	10.0	1	10.0
O-Injury	13	65.0	9	90.0
Total	20	100.0	10	100.0

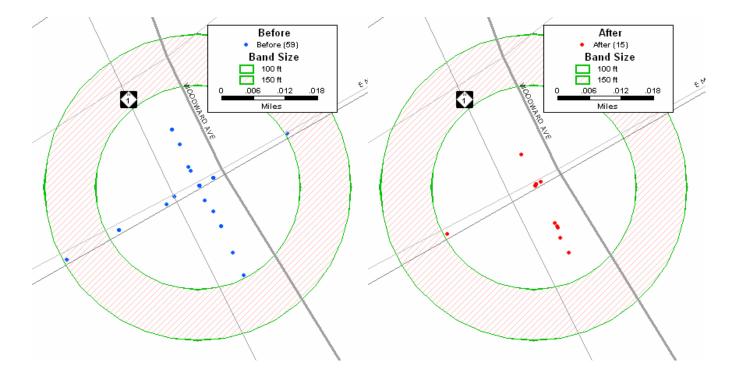
Day of Week	Before	%	After	%
Sunday	2	10.0	2	20.0
Monday	3	15.0	0	0.0
Tuesday	2	10.0	2	20.0
Wednesday	2	10.0	1	10.0
Thursday	4	20.0	1	10.0
Friday	4	20.0	3	30.0
Saturday	3	15.0	1	10.0
Total	20	100.0	10	100.0

Time of Day	Before	%	After	%
6am - 9:59am	1	5.0	2	20.0
10am - 3:59pm	10	50.0	2	20.0
4pm - 7:59pm	3	15.0	4	40.0
8pm - 5:59am	5	25.0	2	20.0
Unknown	1	5.0	0	0.0
Total	20	100.0	10	100.0

Crash Type	Before	%	After	%
Single vehicle	1	5.0	0	0.0
Head-on	0	0.0	1	10.0
Angle	4	20.0	2	20.0
Rear-end	8	40.0	5	50.0
Sideswipe	5	25.0	1	10.0
Other/unknown	2	10.0	1	10.0
Total	20	100.0	10	100.0

M1 (Woodward Avenue) and Montcalm Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	0	0.0	0	0.0
B-Injury	3	5.1	1	6.7
C-Injury	12	20.3	1	6.7
O-Injury	44	74.6	13	86.7
Total	59	100.0	15	100.0

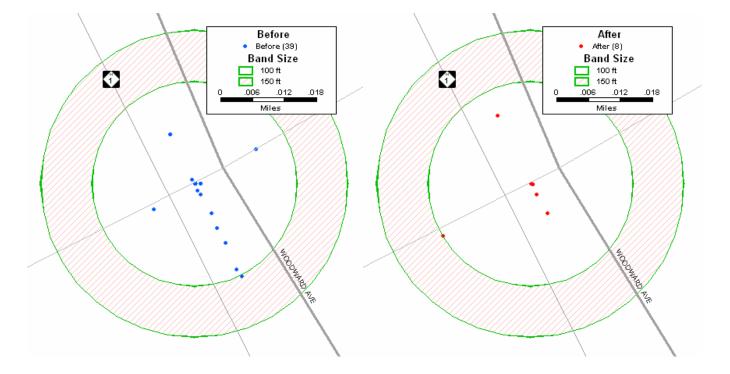
Day of Week	Before	%	After	%
Sunday	12	20.3	5	33.3
Monday	6	10.2	1	6.7
Tuesday	7	11.9	2	13.3
Wednesday	9	15.3	3	20.0
Thursday	6	10.2	1	6.7
Friday	6	10.2	2	13.3
Saturday	13	22.0	1	6.7
Total	59	100.0	15	100.0

Time of Day	Before	%	After	%
6am - 9:59am	6	10.2	0	0.0
10am - 3:59pm	17	28.8	4	26.7
4pm - 7:59pm	14	23.7	5	33.3
8pm - 5:59am	19	32.2	6	40.0
Unknown	3	5.1	0	0.0
Total	59	100.0	15	100.0

Crash Type	Before	%	After	%
Single vehicle	2	3.4	0	0.0
Head-on	2	3.4	0	0.0
Angle	7	11.9	1	6.7
Rear-end	27	45.8	9	60.0
Sideswipe	15	25.4	4	26.7
Other/unknown	6	10.2	1	6.7
Total	59	100.0	15	100.0

M1 (Woodward Avenue) and Elizabeth Street

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	1	2.6	0	0.0
B-Injury	3	7.7	0	0.0
C-Injury	6	15.4	0	0.0
O-Injury	29	74.4	8	100.0
Total	39	100.0	8	100.0

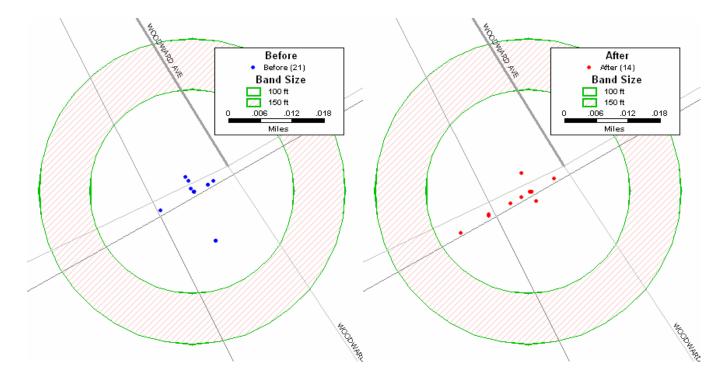
Day of Week	Before	%	After	%
Sunday	6	15.4	1	12.5
Monday	2	5.1	0	0.0
Tuesday	4	10.3	0	0.0
Wednesday	7	17.9	2	25.0
Thursday	5	12.8	2	25.0
Friday	14	35.9	2	25.0
Saturday	1	2.6	1	12.5
Total	39	100.0	8	100.0

Time of Day	Before	%	After	%
6am - 9:59am	5	12.8	1	12.5
10am - 3:59pm	12	30.8	3	37.5
4pm - 7:59pm	8	20.5	1	12.5
8pm - 5:59am	13	33.3	3	37.5
Unknown	1	2.6	0	0.0
Total	39	100.0	8	100.0

Crash Type	Before	%	After	%
Single vehicle	2	5.1	0	0.0
Head-on	1	2.6	0	0.0
Angle	7	17.9	2	25.0
Rear-end	18	46.2	4	50.0
Sideswipe	8	20.5	1	12.5
Other/unknown	3	7.7	1	12.5
Total	39	100.0	8	100.0

M1 (Woodward Avenue) and Adams Avenue

Date of Signal Optimization: September 17, 2004



1,356 days before

Injury Severity	Before	%	After	%
Fatal	0	0.0	0	0.0
A-Injury	2	9.5	0	0.0
B-Injury	3	14.3	0	0.0
C-Injury	5	23.8	3	21.4
O-Injury	11	52.4	11	78.6
Total	21	100.0	14	100.0

Day of Week	Before	%	After	%
Sunday	5	23.8	0	0.0
Monday	3	14.3	2	14.3
Tuesday	1	4.8	2	14.3
Wednesday	0	0.0	6	42.9
Thursday	3	14.3	2	14.3
Friday	7	33.3	0	0.0
Saturday	2	9.5	2	14.3
Total	21	100.0	14	100.0

Time of Day	Before	%	After	%
6am - 9:59am	2	9.5	0	0.0
10am - 3:59pm	7	33.3	2	14.3
4pm - 7:59pm	3	14.3	6	42.9
8pm - 5:59am	9	42.9	6	42.9
Unknown	0	0.0	0	0.0
Total	21	100.0	14	100.0

Crash Type	Before	%	After	%
Single vehicle	1	4.8	1	7.1
Head-on	2	9.5	0	0.0
Angle	2	9.5	2	14.3
Rear-end	8	38.1	2	14.3
Sideswipe	4	19.0	8	57.1
Other/unknown	4	19.0	1	7.1
Total	21	100.0	14	100.0