

Intersection of Circle Blvd and OR 99W; Benton County, OR

Basic site characteristics:

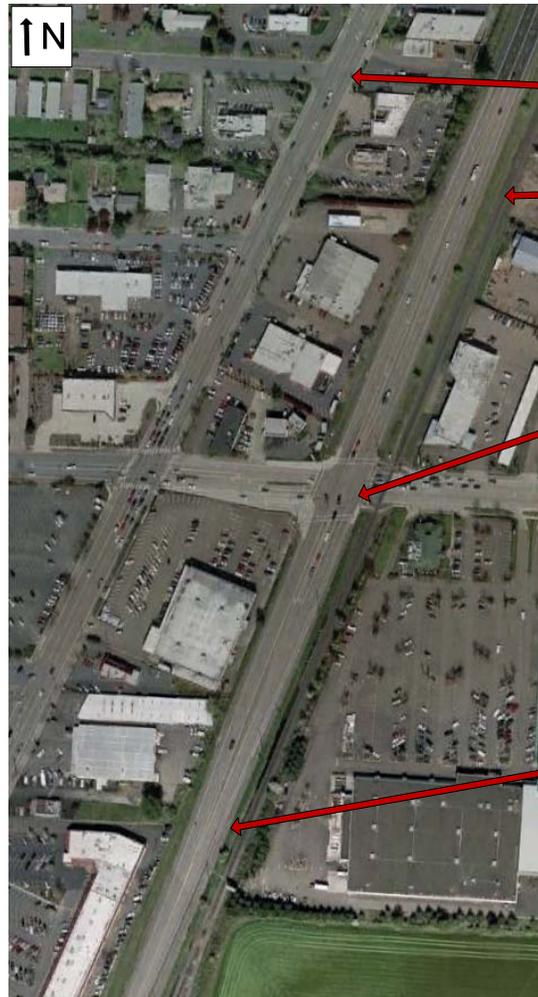
- Posted speed of 50 mph on major approach
- 2 lanes of traffic in each major direction (N/S). 2 lanes in each minor direction (E/W)
- Exclusive left turn lanes
- Intersection has slight skew (70 degrees)
- No sight distance restrictions
- Northbound approach is isolated
- Signal Ahead Sign on northbound approach



9th Street parallels OR 99W on the west.
The railroad tracks parallel OR 99W on the east.

Unknown site characteristics:

- Signal phasing
- Actual travel speeds
- Turning Volumes



Signalized intersection located ~1800 ft to the north

9th Street



Traffic signal has good visibility



SAS located 700 ft before stop bar

TITLE	Circle and 99W Intersection	DATE	11/2009	PREPARED BY	OSU Research Team
DESCRIPTION	Site Characteristics	FILE	VISIODOCUMENT		

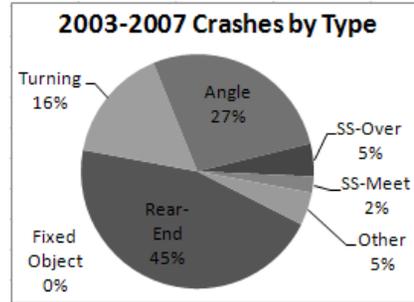


Sample Traffic Volume from Field Visit

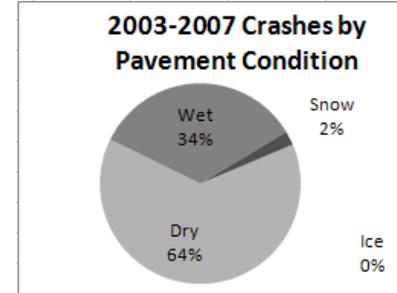
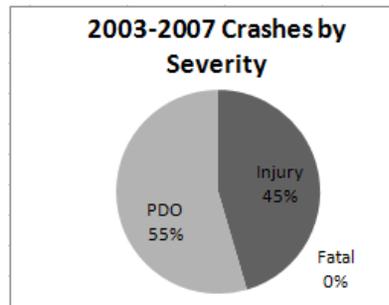
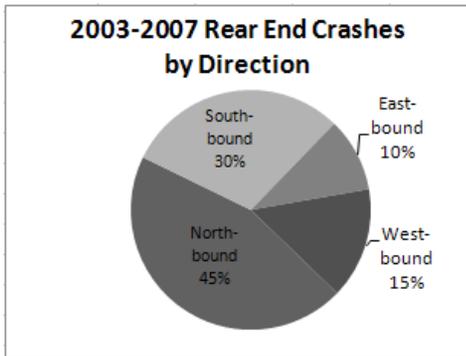
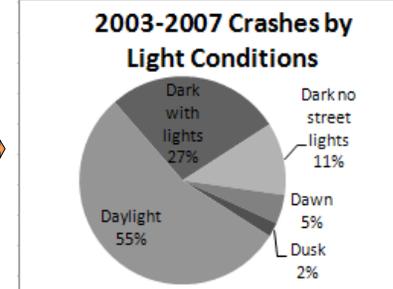
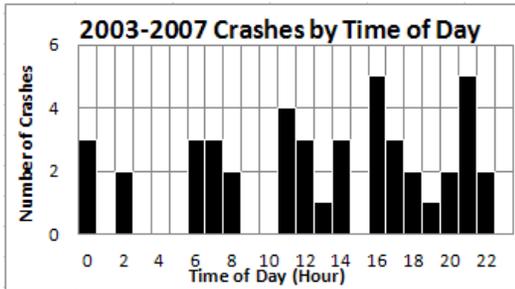
9/14/2009	From North				From East				From South				From West			
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
3:00	2	46	8	0	13	45	13	1	11	35	13	0	12	49	6	1
3:05	7	36	4	1	4	29	6	0	11	44	16	2	16	41	1	0
3:10	3	24	1	0	3	30	10	0	9	43	13	0	15	40	8	1
3:15	6	49	10	0	3	38	10	0	10	38	8	0	17	41	8	1
3:20	5	38	10	0	8	48	3	0	9	38	19	0	11	33	4	0
3:25	5	43	7	0	6	22	2	1	11	34	16	0	18	40	14	1
30 minute	28	236	40	1	37	212	44	2	61	232	85	2	89	244	41	4
Total		304				293				378				374		

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2003-2007 Crashes	
20	Rear-End
7	Turning
12	Angle
2	Sideswipe-Overtaking
1	Sideswipe-Meeting
0	Fixed Object
2	Other
44	Total



2003-2007 Rear End Crashes	
9	Northbound
6	Southbound
2	Eastbound
3	Westbound



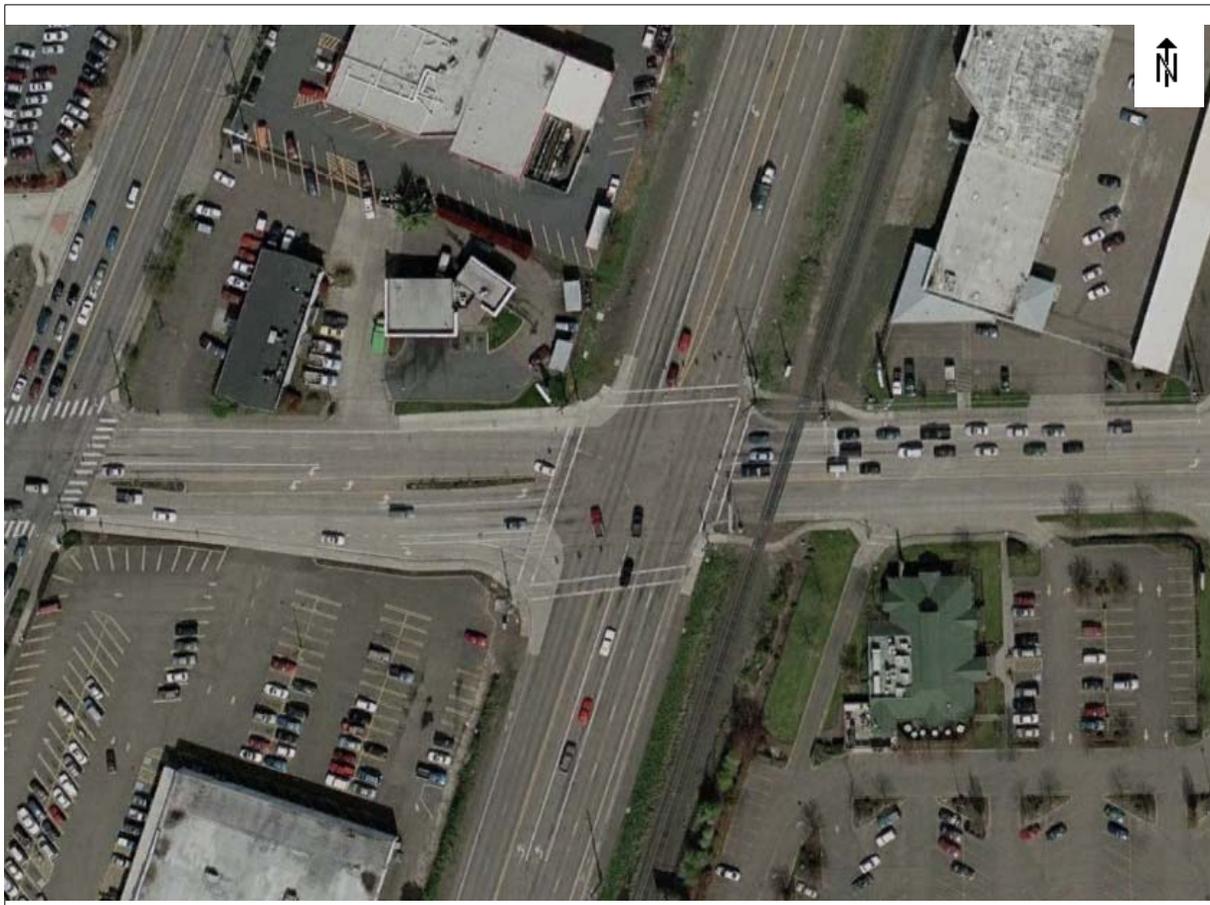
TITLE	Circle and 99W Intersection	DATE	11/2009	PREPARED BY	OSU Research Team
DESCRIPTION	Crash data available	FILE	VISIODOCUMENT		



Intersection of Circle and OR 99W , Benton County (Page 1)

	Northbound	Southbound	Eastbound	Westbound
Speed Limit	50 mph	50 mph	35 mph	35 mph
Isolated Major Approach (>1mile Isolation)	Yes	No	No	No
Advanced Intersection Warning*	SAS	--	--	--
Other	--	--	--	--

*SAS = Signal Ahead Sign
 CFSSA = Continuous Flashing Symbolic Signal Ahead
 PTSWF = Prepare to Stop when Flashing



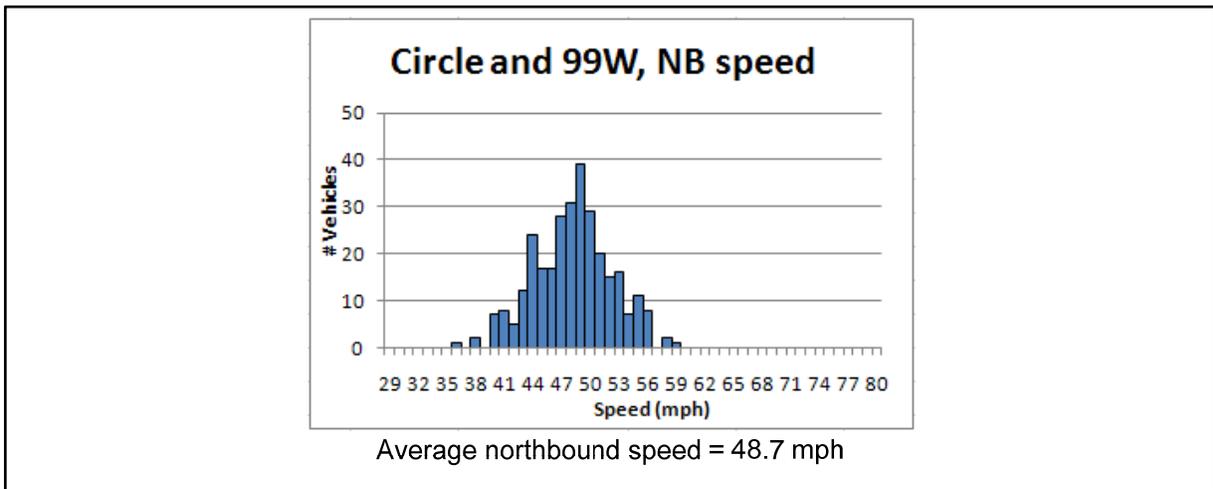
Aerial photograph or diagram indicating intersection geometry and lane configurations

Intersection of Circle and OR 99W , Benton County (Page 2)



Image shows northbound approach.

Picture showing typical arrangement and number of signal heads

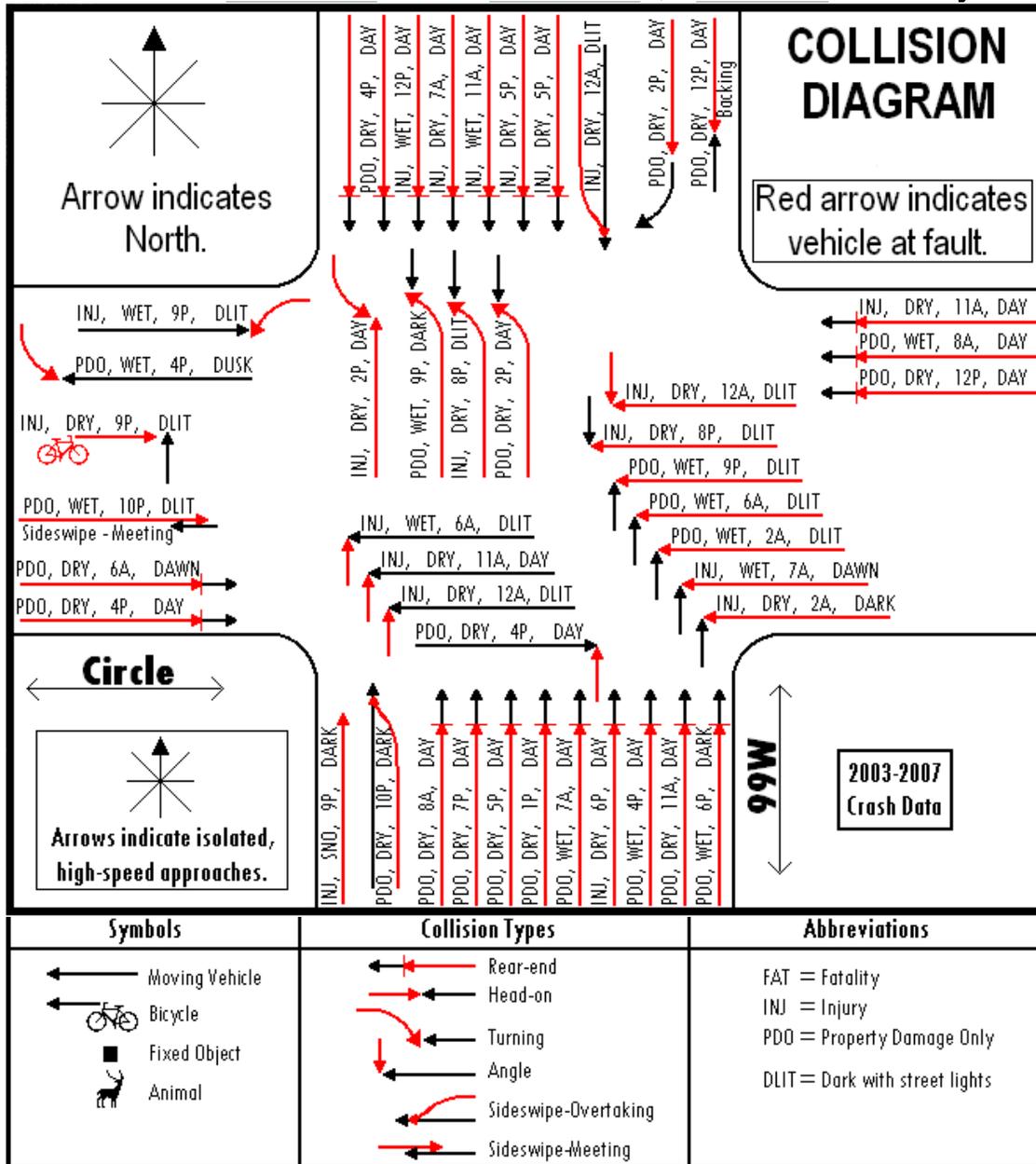


Graphs of speed data for high-speed approaches

		Volumes between 3:00pm and 3:30pm on 9/14/09 Su M T W R F Sa			
Direction	AADT	% left turns	% right turns	% total turns	Total # of Vehicles
Northbound	18,200	22.5	16.1	38.6	378
Southbound	14,500	13.2	9.2	22.4	304
Eastbound	unknown	11.0	23.8	34.8	374
Westbound	unknown	15.0	12.6	27.6	293

Other notes: Stop bar for westbound traffic is ~30 ft past railroad tracks. Stop bar for eastbound traffic is ~400 ft past signalized intersection of Circle and 9th. Northbound approach changes from 1 to 2 lanes ~700 ft before stop bar.

Intersection of Circle and OR 99W , Benton County (Page 3)



Collision Diagram showing five years of crash data. Include severity, pavement conditions, time of day, and light conditions. Indicate vehicle at fault with red arrow. Include description of symbols/abbreviations.

Feedback from users familiar with intersection:
