

**USH 45: USH 10 TO STH 116 (WINNEBAGO COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 116 - CTH M - CTH II**

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	49	0.0	10	0.0	1500	49	0	10	0.50	0	63.8	59.3	41.9	24.8	24.8
1-2 AM	26	0.0	5	0.0	1500	26	0	5	0.50	0	63.8	59.3	41.9	24.8	24.8
2-3 AM	28	0.0	5	0.0	1500	28	0	5	0.50	0	63.8	59.3	41.9	24.8	24.8
3-4 AM	30	0.0	5	0.0	1500	30	0	5	0.50	0	63.8	59.3	41.9	24.8	24.8
4-5 AM	44	0.0	9	0.0	1500	44	0	9	0.50	0	63.8	59.3	41.9	24.8	24.8
5-6 AM	66	0.0	13	0.0	1500	66	0	13	0.50	0	63.8	59.2	41.8	24.7	24.7
6-7 AM	122	0.0	24	0.0	1500	122	0	24	0.51	0	63.7	59.1	41.5	24.7	24.7
7-8 AM	202	0.0	40	0.0	1500	202	0	40	0.52	0	63.5	58.9	41.3	24.5	24.5
8-9 AM	284	0.0	56	0.0	1500	284	0	56	0.53	0	63.3	58.7	41.0	24.4	24.4
9-10 AM	358	0.0	71	0.0	1500	358	0	71	0.53	0	63.2	58.6	40.7	24.3	24.3
10-11 AM	403	0.0	80	0.0	1500	403	0	80	0.54	0	63.2	58.4	40.6	24.2	24.2
11A-NOON	394	0.0	78	0.0	1500	394	0	78	0.54	0	63.2	58.4	40.6	24.2	24.2
NOON-1PM	394	0.0	78	0.0	1500	394	0	78	0.54	0	63.2	58.4	40.6	24.2	24.2
1-2 PM	384	0.0	76	0.0	1500	384	0	76	0.54	0	63.2	58.5	40.7	24.3	24.3
2-3 PM	344	0.0	68	0.0	1500	344	0	68	0.53	0	63.3	58.6	40.8	24.3	24.3
3-4 PM	385	0.0	77	0.0	1500	385	0	77	0.54	0	63.2	58.5	40.7	24.3	24.3
4-5 PM	397	0.0	79	0.0	1500	397	0	79	0.54	0	63.2	58.4	40.6	24.2	24.2
5-6 PM	392	0.0	78	0.0	1500	392	0	78	0.54	0	63.2	58.4	40.7	24.2	24.2
6-7 PM	341	0.0	68	0.0	1500	341	0	68	0.53	0	63.3	58.6	40.8	24.3	24.3
7-8 PM	293	0.0	58	0.0	1500	293	0	58	0.53	0	63.3	58.7	41.0	24.4	24.4
8-9 PM	240	0.0	48	0.0	1500	240	0	48	0.52	0	63.5	58.8	41.2	24.5	24.5
9-10 PM	169	0.0	34	0.0	1500	169	0	34	0.51	0	63.6	59.0	41.4	24.6	24.6
10-11 PM	119	0.0	24	0.0	1500	119	0	24	0.51	0	63.7	59.1	41.6	24.7	24.7
11PM-MID	76	0.0	15	0.0	1500	76	0	15	0.51	0	63.8	59.2	41.7	24.7	24.7

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0064
MAIN ROUTE WITH WORKS	0.0070
DIVERSION	0.0128

PIA: Personal Injury Accidents

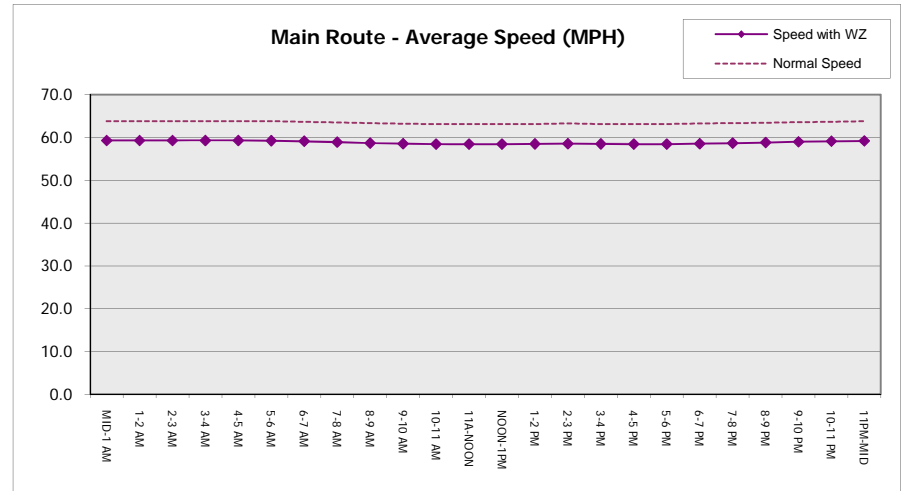
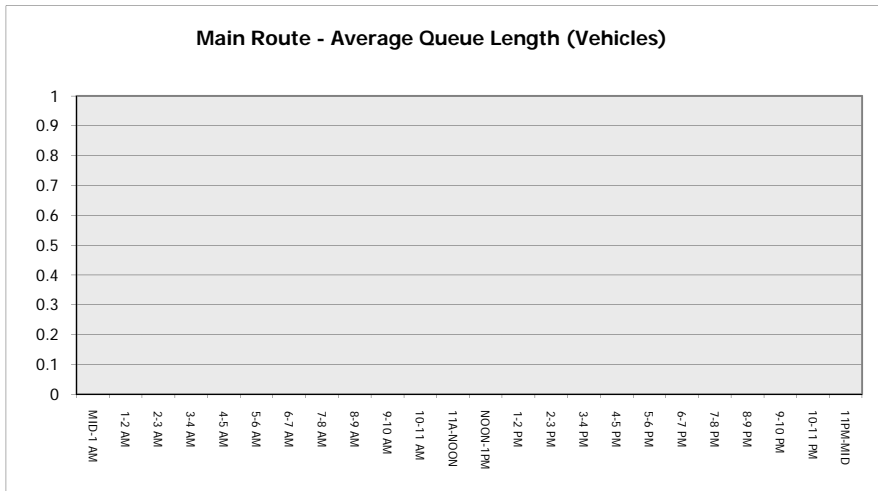
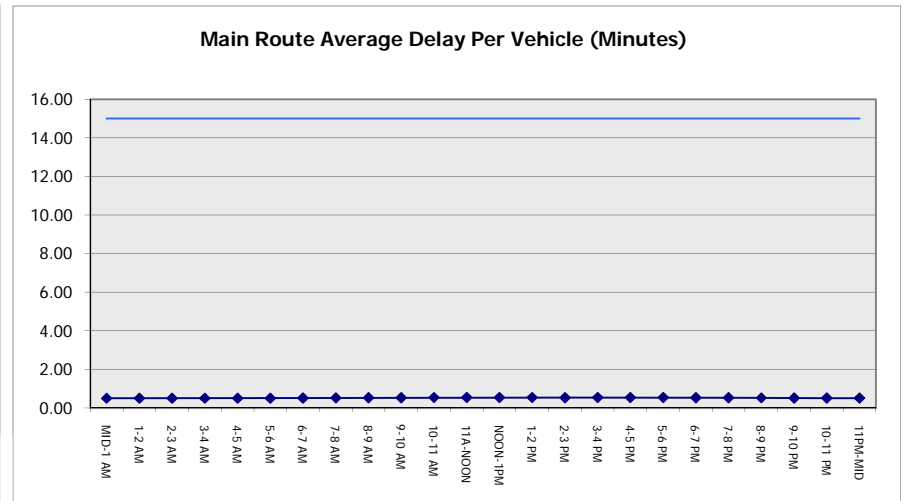
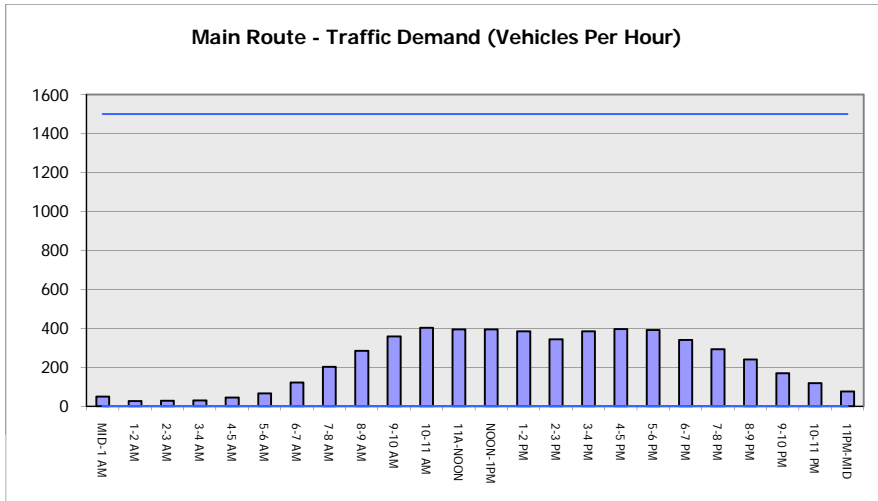
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$749
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: STH 116 - CTH M - CTH II**

OCTOBER
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



USH 45: USH 10 TO STH 116 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 116 - CTH M - CTH II	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	80	0.0	16	0.0	1500	80	0	16	0.51	0	63.8	59.2	41.7	24.7	24.7
1-2 AM	42	0.0	9	0.0	1500	42	0	9	0.50	0	63.8	59.3	41.9	24.8	24.8
2-3 AM	40	0.0	8	0.0	1500	40	0	8	0.50	0	63.8	59.3	41.9	24.8	24.8
3-4 AM	36	0.0	8	0.0	1500	36	0	8	0.50	0	63.8	59.3	41.9	24.8	24.8
4-5 AM	59	0.0	12	0.0	1500	59	0	12	0.50	0	63.8	59.2	41.8	24.8	24.8
5-6 AM	135	0.0	27	0.0	1500	135	0	27	0.51	0	63.7	59.1	41.5	24.7	24.7
6-7 AM	164	0.0	32	0.0	1500	164	0	32	0.51	0	63.6	59.0	41.4	24.6	24.6
7-8 AM	262	0.0	52	0.0	1500	262	0	52	0.52	0	63.4	58.7	41.1	24.5	24.5
8-9 AM	373	0.0	75	0.0	1500	373	0	75	0.53	0	63.2	58.5	40.7	24.3	24.3
9-10 AM	460	0.0	92	0.0	1500	460	0	92	0.54	0	63.0	58.3	40.4	24.2	24.2
10-11 AM	533	0.0	106	0.0	1500	533	0	106	0.55	0	62.9	58.1	40.2	24.0	24.0
11A-NOON	483	0.0	96	0.0	1500	483	0	96	0.54	0	63.0	58.2	40.4	24.1	24.1
NOON-1PM	430	0.0	85	0.0	1500	430	0	85	0.54	0	63.1	58.4	40.6	24.2	24.2
1-2 PM	404	0.0	80	0.0	1500	404	0	80	0.54	0	63.2	58.4	40.6	24.2	24.2
2-3 PM	390	0.0	78	0.0	1500	390	0	78	0.54	0	63.2	58.4	40.7	24.2	24.2
3-4 PM	365	0.0	72	0.0	1500	365	0	72	0.53	0	63.2	58.5	40.7	24.3	24.3
4-5 PM	361	0.0	71	0.0	1500	361	0	71	0.53	0	63.2	58.6	40.7	24.3	24.3
5-6 PM	314	0.0	63	0.0	1500	314	0	63	0.53	0	63.3	58.6	40.9	24.3	24.3
6-7 PM	260	0.0	52	0.0	1500	260	0	52	0.52	0	63.4	58.7	41.1	24.5	24.5
7-8 PM	222	0.0	44	0.0	1500	222	0	44	0.52	0	63.5	58.9	41.2	24.5	24.5
8-9 PM	171	0.0	34	0.0	1500	171	0	34	0.51	0	63.6	59.0	41.4	24.6	24.6
9-10 PM	173	0.0	35	0.0	1500	173	0	35	0.52	0	63.6	59.0	41.4	24.6	24.6
10-11 PM	106	0.0	21	0.0	1500	106	0	21	0.51	0	63.7	59.1	41.6	24.7	24.7
11PM-MID	76	0.0	15	0.0	1500	76	0	15	0.51	0	63.8	59.2	41.7	24.7	24.7

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0069
MAIN ROUTE WITH WORKS	0.0075
DIVERSION	0.0137

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$802
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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SATURDAY NORTHBOUND DIRECTION

