

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

MAY
Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT
MON-THUR 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	33	0.0	6	0.0	1500	33	0	6	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	27	0.0	5	0.0	1500	27	0	5	0.50	0	63.8	59.3	41.9	24.8	24.8
3-4 AM	44	0.0	9	0.0	1500	44	0	9	0.50	0	63.8	59.3	41.9	24.8	24.8
4-5 AM	86	0.0	17	0.0	1500	86	0	17	0.51	0	63.7	59.2	41.7	24.7	24.7
5-6 AM	176	0.0	36	0.0	1500	176	0	36	0.52	0	63.6	59.0	41.4	24.6	24.6
6-7 AM	294	0.0	58	0.0	1500	294	0	58	0.53	0	63.3	58.7	41.0	24.4	24.4
7-8 AM	411	0.0	81	0.0	1500	411	0	81	0.54	0	63.2	58.4	40.6	24.2	24.2
8-9 AM	310	0.0	62	0.0	1500	310	0	62	0.53	0	63.3	58.6	40.9	24.3	24.3
9-10 AM	302	0.0	59	0.0	1500	302	0	59	0.53	0	63.3	58.7	40.9	24.4	24.4
10-11 AM	312	0.0	62	0.0	1500	312	0	62	0.53	0	63.3	58.6	40.9	24.3	24.3
11A-NOON	330	0.0	65	0.0	1500	330	0	65	0.53	0	63.3	58.6	40.9	24.3	24.3
NOON-1PM	341	0.0	67	0.0	1500	341	0	67	0.53	0	63.3	58.6	40.8	24.3	24.3
1-2 PM	386	0.0	76	0.0	1500	386	0	76	0.54	0	63.2	58.5	40.7	24.3	24.3
2-3 PM	417	0.0	82	0.0	1500	417	0	82	0.54	0	63.1	58.4	40.6	24.2	24.2
3-4 PM	434	0.0	85	0.0	1500	434	0	85	0.54	0	63.1	58.4	40.5	24.2	24.2
4-5 PM	478	0.0	94	0.0	1500	478	0	94	0.54	0	63.0	58.2	40.4	24.1	24.1
5-6 PM	421	0.0	83	0.0	1500	421	0	83	0.54	0	63.1	58.4	40.6	24.2	24.2
6-7 PM	314	0.0	62	0.0	1500	314	0	62	0.53	0	63.3	58.6	40.9	24.3	24.3
7-8 PM	236	0.0	47	0.0	1500	236	0	47	0.52	0	63.5	58.8	41.2	24.5	24.5
8-9 PM	177	0.0	35	0.0	1500	177	0	35	0.52	0	63.6	59.0	41.4	24.6	24.6
9-10 PM	130	0.0	26	0.0	1500	130	0	26	0.51	0	63.7	59.1	41.5	24.7	24.7
10-11 PM	89	0.0	17	0.0	1500	89	0	17	0.51	0	63.7	59.2	41.7	24.7	24.7
11PM-MID	47	0.0	10	0.0	1500	47	0	10	0.50	0	63.8	59.3	41.9	24.8	24.8

----- 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	0.0067
MAIN ROUTE WITH WORKS	0.0073
DIVERSION	0.0134

PIA: Personal Injury Accidents

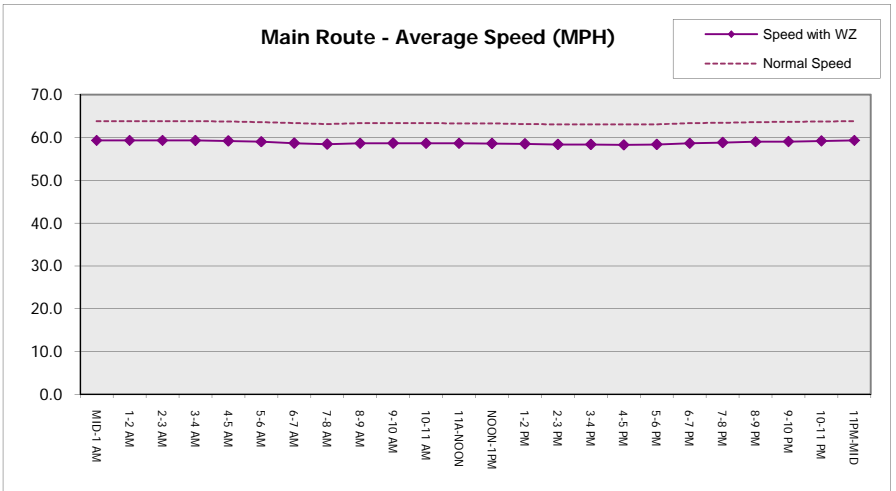
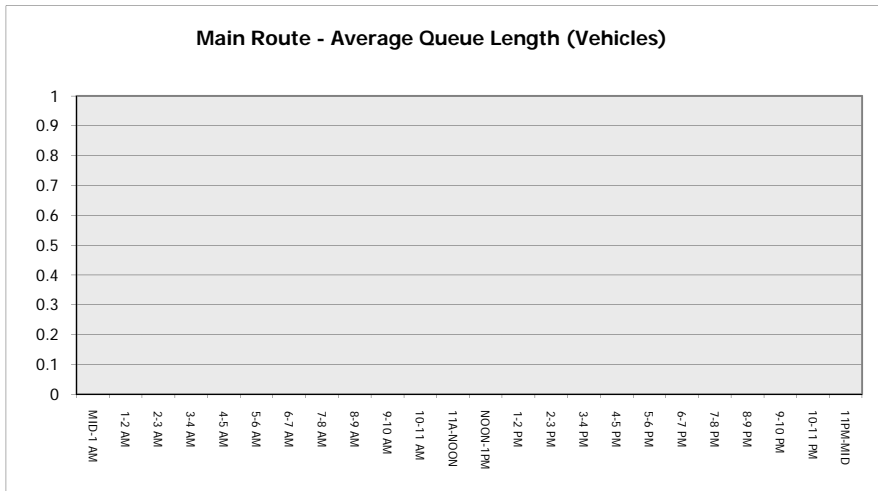
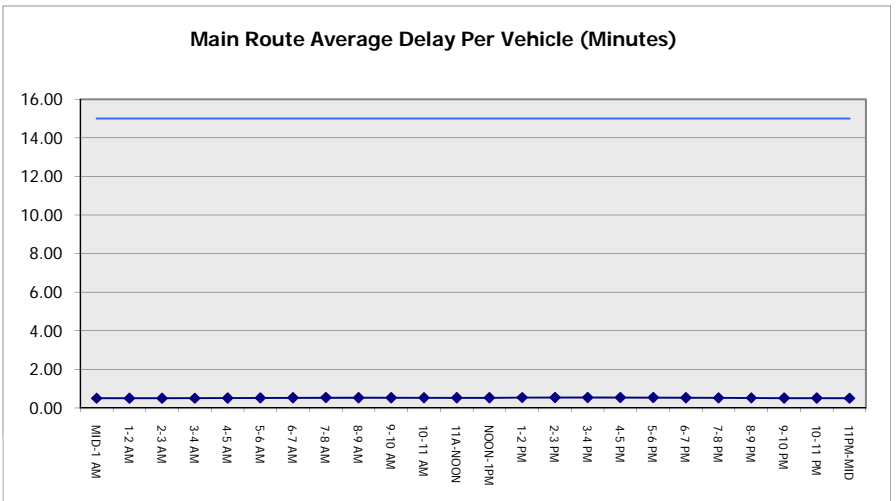
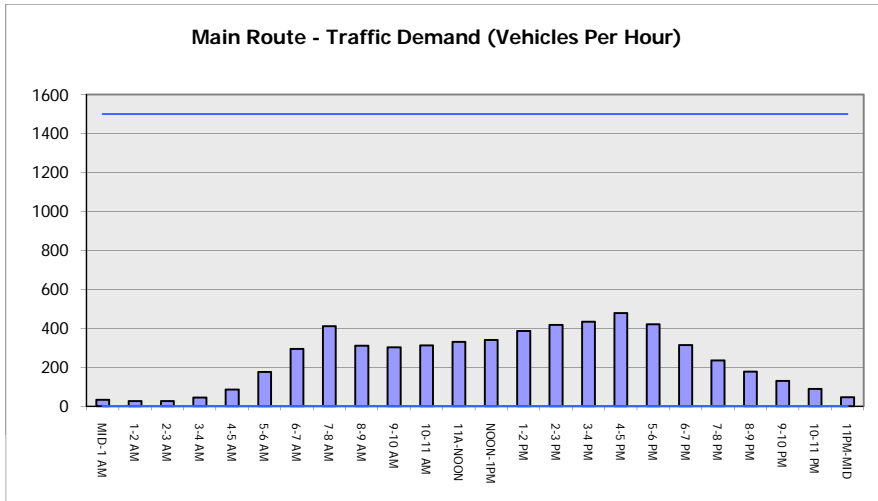
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$622
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	32	0.0	6	0.0	1500	32	0	6	0.50	0	63.8	59.3	41.9	24.8	24.8
1-2 AM	25	0.0	4	0.0	1500	25	0	4	0.50	0	63.8	59.3	41.9	24.8	24.8
2-3 AM	31	0.0	6	0.0	1500	31	0	6	0.50	0	63.8	59.3	41.9	24.8	24.8
3-4 AM	37	0.0	8	0.0	1500	37	0	8	0.50	0	63.8	59.3	41.9	24.8	24.8
4-5 AM	56	0.0	11	0.0	1500	56	0	11	0.50	0	63.8	59.2	41.8	24.8	24.8
5-6 AM	143	0.0	28	0.0	1500	143	0	28	0.51	0	63.7	59.1	41.5	24.7	24.7
6-7 AM	248	0.0	50	0.0	1500	248	0	50	0.52	0	63.5	58.8	41.1	24.5	24.5
7-8 AM	337	0.0	67	0.0	1500	337	0	67	0.53	0	63.3	58.6	40.9	24.3	24.3
8-9 AM	301	0.0	59	0.0	1500	301	0	59	0.53	0	63.3	58.7	41.0	24.4	24.4
9-10 AM	284	0.0	56	0.0	1500	284	0	56	0.53	0	63.3	58.7	41.0	24.4	24.4
10-11 AM	294	0.0	58	0.0	1500	294	0	58	0.53	0	63.3	58.7	41.0	24.4	24.4
11A-NOON	290	0.0	57	0.0	1500	290	0	57	0.53	0	63.3	58.7	41.0	24.4	24.4
NOON-1PM	284	0.0	56	0.0	1500	284	0	56	0.53	0	63.3	58.7	41.0	24.4	24.4
1-2 PM	287	0.0	57	0.0	1500	287	0	57	0.53	0	63.3	58.7	41.0	24.4	24.4
2-3 PM	330	0.0	66	0.0	1500	330	0	66	0.53	0	63.3	58.6	40.9	24.3	24.3
3-4 PM	409	0.0	81	0.0	1500	409	0	81	0.54	0	63.2	58.4	40.6	24.2	24.2
4-5 PM	431	0.0	85	0.0	1500	431	0	85	0.54	0	63.1	58.4	40.5	24.2	24.2
5-6 PM	379	0.0	75	0.0	1500	379	0	75	0.53	0	63.2	58.5	40.7	24.3	24.3
6-7 PM	273	0.0	54	0.0	1500	273	0	54	0.52	0	63.4	58.7	41.0	24.4	24.4
7-8 PM	210	0.0	41	0.0	1500	210	0	41	0.52	0	63.5	58.9	41.3	24.5	24.5
8-9 PM	182	0.0	36	0.0	1500	182	0	36	0.52	0	63.6	58.9	41.4	24.6	24.6
9-10 PM	139	0.0	27	0.0	1500	139	0	27	0.51	0	63.7	59.1	41.5	24.7	24.7
10-11 PM	90	0.0	17	0.0	1500	90	0	17	0.51	0	63.7	59.2	41.7	24.7	24.7
11PM-MID	66	0.0	13	0.0	1500	66	0	13	0.50	0	63.8	59.2	41.8	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	0.0060
MAIN ROUTE WITH WORKS	0.0065
DIVERSION	0.0119

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$547
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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MON-THUR NORTHBOUND DIRECTION

