

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

AUGUST
Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT
FRIDAY 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	39	0.0	8	0.0	1500	39	0	8	0.50	0	63.8	59.3	41.9	24.8	24.8
1-2 AM	32	0.0	6	0.0	1500	32	0	6	0.50	0	63.8	59.3	41.9	24.8	24.8
2-3 AM	21	0.0	4	0.0	1500	21	0	4	0.50	0	63.8	59.4	41.9	24.8	24.8
3-4 AM	54	0.0	11	0.0	1500	54	0	11	0.50	0	63.8	59.2	41.8	24.8	24.8
4-5 AM	84	0.0	17	0.0	1500	84	0	17	0.51	0	63.7	59.2	41.7	24.7	24.7
5-6 AM	159	0.0	31	0.0	1500	159	0	31	0.51	0	63.6	59.0	41.4	24.6	24.6
6-7 AM	277	0.0	55	0.0	1500	277	0	55	0.52	0	63.4	58.7	41.0	24.4	24.4
7-8 AM	327	0.0	65	0.0	1500	327	0	65	0.53	0	63.3	58.6	40.9	24.3	24.3
8-9 AM	303	0.0	61	0.0	1500	303	0	61	0.53	0	63.3	58.7	40.9	24.4	24.4
9-10 AM	325	0.0	65	0.0	1500	325	0	65	0.53	0	63.3	58.6	40.9	24.3	24.3
10-11 AM	386	0.0	77	0.0	1500	386	0	77	0.54	0	63.2	58.5	40.7	24.3	24.3
11A-NOON	380	0.0	76	0.0	1500	380	0	76	0.53	0	63.2	58.5	40.7	24.3	24.3
NOON-1PM	422	0.0	84	0.0	1500	422	0	84	0.54	0	63.1	58.4	40.6	24.2	24.2
1-2 PM	486	0.0	96	0.0	1500	486	0	96	0.54	0	63.0	58.2	40.4	24.1	24.1
2-3 PM	508	0.0	102	0.0	1500	508	0	102	0.55	0	63.0	58.2	40.2	24.0	24.0
3-4 PM	485	0.0	96	0.0	1500	485	0	96	0.54	0	63.0	58.2	40.4	24.1	24.1
4-5 PM	520	0.0	103	0.0	1500	520	0	103	0.55	0	62.9	58.1	40.2	24.0	24.0
5-6 PM	487	0.0	96	0.0	1500	487	0	96	0.54	0	63.0	58.2	40.4	24.1	24.1
6-7 PM	393	0.0	78	0.0	1500	393	0	78	0.54	0	63.2	58.4	40.7	24.2	24.2
7-8 PM	276	0.0	55	0.0	1500	276	0	55	0.52	0	63.4	58.7	41.0	24.4	24.4
8-9 PM	231	0.0	45	0.0	1500	231	0	45	0.52	0	63.5	58.9	41.2	24.5	24.5
9-10 PM	176	0.0	35	0.0	1500	176	0	35	0.52	0	63.6	59.0	41.4	24.6	24.6
10-11 PM	125	0.0	25	0.0	1500	125	0	25	0.51	0	63.7	59.1	41.5	24.7	24.7
11PM-MID	71	0.0	14	0.0	1500	71	0	14	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	0.0076
MAIN ROUTE WITH WORKS	0.0083
DIVERSION	0.0152

PIA: Personal Injury Accidents

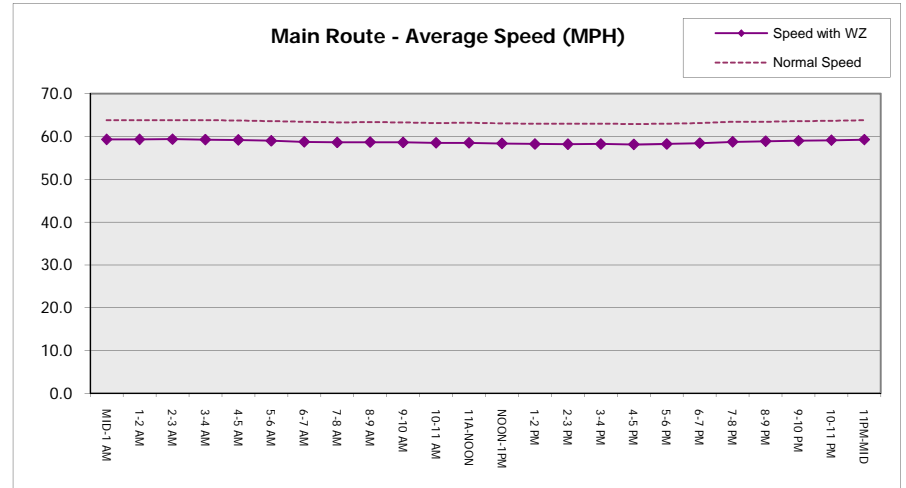
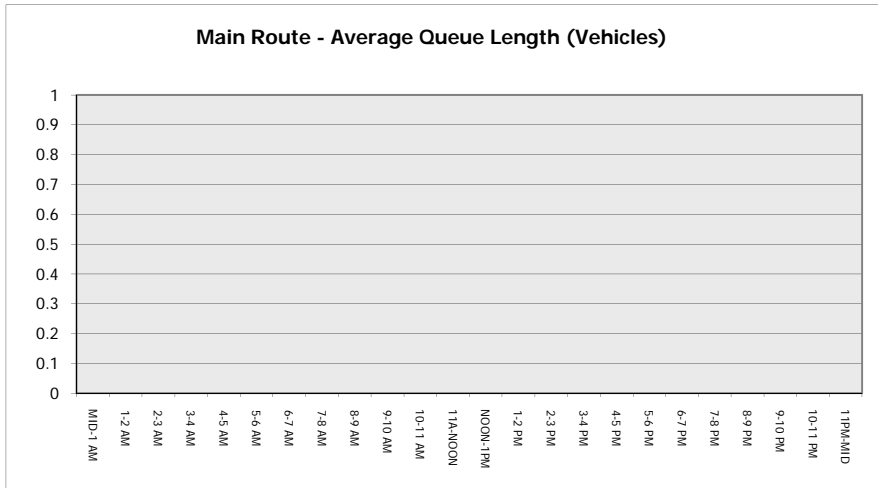
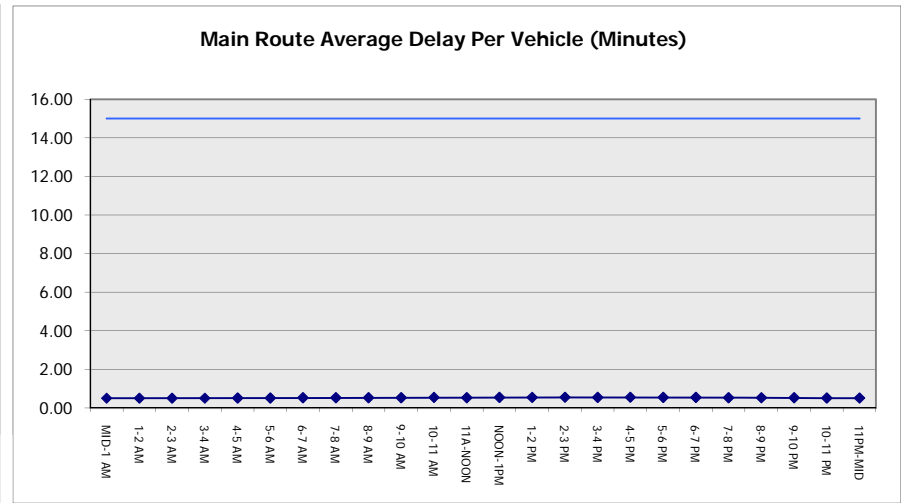
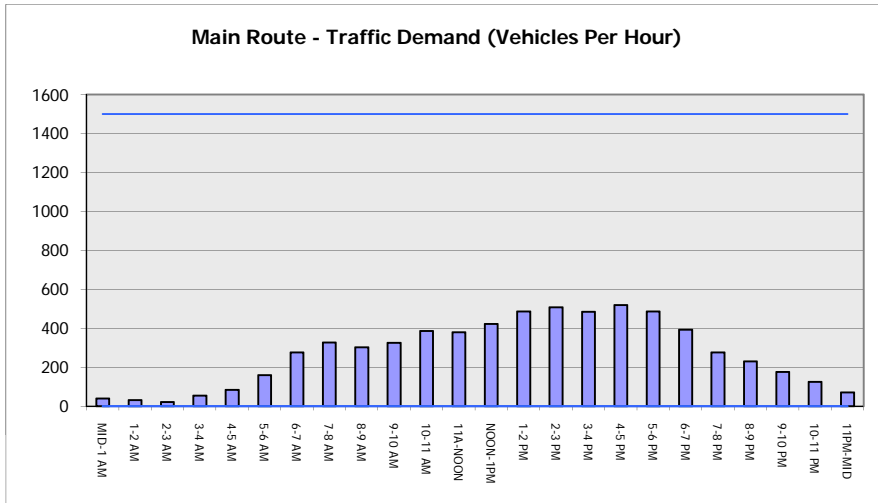
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$737
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	57	0.0	11	0.0	1500	57	0	11	0.50	0	63.8	59.2	41.8	24.8	24.8
1-2 AM	36	0.0	8	0.0	1500	36	0	8	0.50	0	63.8	59.3	41.9	24.8	24.8
2-3 AM	43	0.0	9	0.0	1500	43	0	9	0.50	0	63.8	59.3	41.9	24.8	24.8
3-4 AM	43	0.0	9	0.0	1500	43	0	9	0.50	0	63.8	59.3	41.9	24.8	24.8
4-5 AM	63	0.0	13	0.0	1500	63	0	13	0.50	0	63.8	59.2	41.8	24.7	24.7
5-6 AM	146	0.0	29	0.0	1500	146	0	29	0.51	0	63.7	59.1	41.5	24.6	24.6
6-7 AM	241	0.0	48	0.0	1500	241	0	48	0.52	0	63.5	58.8	41.2	24.5	24.5
7-8 AM	357	0.0	71	0.0	1500	357	0	71	0.53	0	63.2	58.6	40.7	24.3	24.3
8-9 AM	417	0.0	83	0.0	1500	417	0	83	0.54	0	63.1	58.4	40.6	24.2	24.2
9-10 AM	471	0.0	94	0.0	1500	471	0	94	0.54	0	63.0	58.2	40.4	24.1	24.1
10-11 AM	569	0.0	114	0.0	1500	569	0	114	0.55	0	62.8	58.1	40.1	24.0	24.0
11A-NOON	611	0.0	121	0.0	1500	611	0	121	0.56	0	62.8	57.9	39.9	23.9	23.9
NOON-1PM	642	0.0	128	0.0	1500	642	0	128	0.56	0	62.7	57.9	39.8	23.8	23.8
1-2 PM	688	0.0	136	0.0	1500	688	0	136	0.56	0	62.6	57.8	39.7	23.8	23.8
2-3 PM	832	0.0	165	0.0	1500	832	0	165	0.58	0	62.3	57.4	39.2	23.6	23.6
3-4 PM	882	0.0	175	0.0	1500	882	0	175	0.58	0	62.3	57.3	39.1	23.5	23.5
4-5 PM	935	0.0	186	0.0	1500	935	0	186	0.59	0	62.2	57.2	38.9	23.4	23.4
5-6 PM	970	0.0	192	0.0	1500	970	0	192	0.59	0	62.1	57.1	38.8	23.3	23.3
6-7 PM	908	0.0	181	0.0	1500	908	0	181	0.58	0	62.2	57.3	39.0	23.5	23.5
7-8 PM	760	0.0	151	0.0	1500	760	0	151	0.57	0	62.5	57.6	39.4	23.7	23.7
8-9 PM	500	0.0	99	0.0	1500	500	0	99	0.55	0	63.0	58.2	40.3	24.1	24.1
9-10 PM	330	0.0	66	0.0	1500	330	0	66	0.53	0	63.3	58.6	40.9	24.3	24.3
10-11 PM	230	0.0	45	0.0	1500	230	0	45	0.52	0	63.5	58.9	41.2	24.5	24.5
11PM-MID	175	0.0	35	0.0	1500	175	0	35	0.52	0	63.6	59.0	41.4	24.6	24.6

----- 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	0.0126
MAIN ROUTE WITH WORKS	0.0138
DIVERSION	0.0252

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,289
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: STH 116 - CTH M - CTH II**

AUGUST
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FRIDAY NORTHBOUND DIRECTION

