

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

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY WESTBOUND 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	68	0.0	36	0.0	1500	68	0	36	0.43	0	66.3	63.4	45.2	34.4	34.4
1-2 AM	39	0.0	21	0.0	1500	39	0	21	0.43	0	66.3	63.5	45.3	34.5	34.5
2-3 AM	36	0.0	20	0.0	1500	36	0	20	0.43	0	66.3	63.5	45.3	34.6	34.6
3-4 AM	19	0.0	10	0.0	1500	19	0	10	0.42	0	66.3	63.5	45.4	34.7	34.7
4-5 AM	32	0.0	18	0.0	1500	32	0	18	0.43	0	66.3	63.5	45.4	34.6	34.6
5-6 AM	72	0.0	39	0.0	1500	72	0	39	0.43	0	66.3	63.4	45.2	34.3	34.3
6-7 AM	89	0.0	48	0.0	1500	89	0	48	0.43	0	66.2	63.3	45.1	34.2	34.2
7-8 AM	123	0.0	66	0.0	1500	123	0	66	0.43	0	66.1	63.3	45.0	34.0	34.0
8-9 AM	181	0.0	97	0.0	1500	181	0	97	0.44	0	66.1	63.2	44.8	33.7	33.7
9-10 AM	266	0.0	143	0.0	1500	266	0	143	0.45	0	65.9	62.9	44.4	33.2	33.2
10-11 AM	356	0.0	192	0.0	1500	356	0	192	0.46	0	65.7	62.7	44.1	32.7	32.7
11A-NOON	402	0.0	215	0.0	1500	402	0	215	0.46	0	65.6	62.6	43.9	32.4	32.4
NOON-1PM	413	0.0	221	0.0	1500	413	0	221	0.46	0	65.6	62.6	43.8	32.4	32.4
1-2 PM	433	0.0	233	0.0	1500	433	0	233	0.46	0	65.6	62.5	43.8	32.2	32.2
2-3 PM	448	0.0	241	0.0	1500	448	0	241	0.47	0	65.6	62.5	43.7	32.1	32.1
3-4 PM	480	0.0	257	0.0	1500	480	0	257	0.47	0	65.5	62.5	43.6	32.0	32.0
4-5 PM	421	0.0	226	0.0	1500	421	0	226	0.46	0	65.6	62.6	43.8	32.3	32.3
5-6 PM	394	0.0	211	0.0	1500	394	0	211	0.46	0	65.6	62.7	43.9	32.5	32.5
6-7 PM	341	0.0	183	0.0	1500	341	0	183	0.46	0	65.8	62.8	44.2	32.8	32.8
7-8 PM	271	0.0	145	0.0	1500	271	0	145	0.45	0	65.9	62.9	44.4	33.2	33.2
8-9 PM	206	0.0	110	0.0	1500	206	0	110	0.44	0	66.0	63.1	44.6	33.6	33.6
9-10 PM	108	0.0	58	0.0	1500	108	0	58	0.43	0	66.2	63.3	45.1	34.2	34.2
10-11 PM	64	0.0	34	0.0	1500	64	0	34	0.43	0	66.3	63.4	45.2	34.4	34.4
11PM-MID	40	0.0	22	0.0	1500	40	0	22	0.43	0	66.3	63.5	45.3	34.5	34.5

----- 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	0.0089
MAIN ROUTE WITH WORKS	0.0085
DIVERSION	0.0391

PIA: Personal Injury Accidents

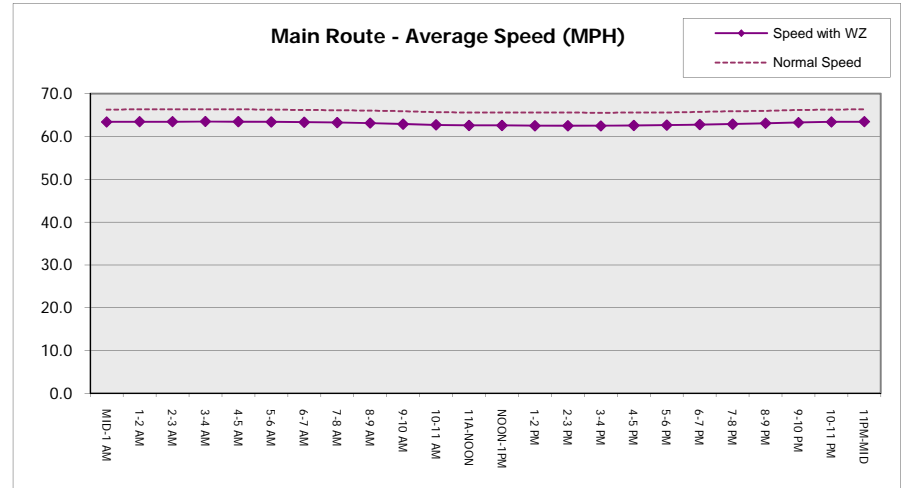
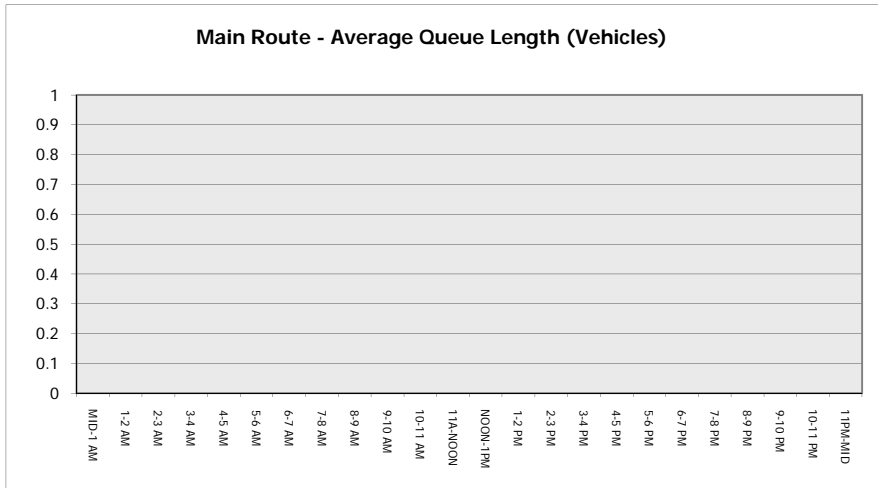
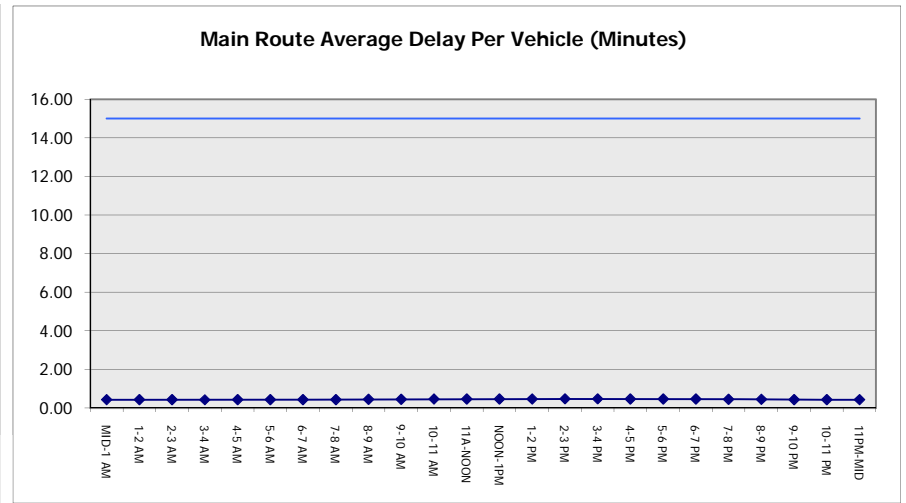
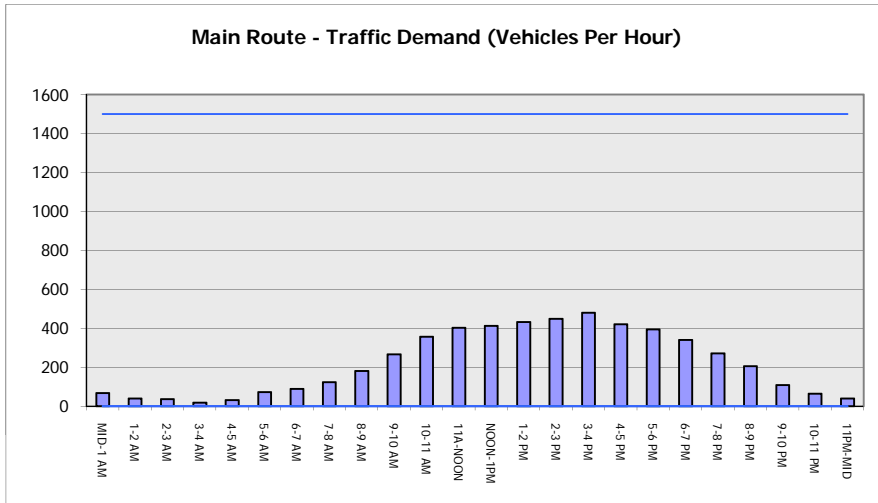
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$615
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: CTH CB - CTH II**

OCTOBER
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



USH 10: USH 45 TO CTH CB (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: CTH CB - CTH II	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY EASTBOUND 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	41	0.0	22	0.0	1500	41	0	22	0.43	0	66.3	63.5	45.3	34.5	34.5
1-2 AM	39	0.0	21	0.0	1500	39	0	21	0.43	0	66.3	63.5	45.3	34.5	34.5
2-3 AM	21	0.0	11	0.0	1500	21	0	11	0.42	0	66.3	63.5	45.4	34.7	34.7
3-4 AM	17	0.0	9	0.0	1500	17	0	9	0.42	0	66.3	63.5	45.5	34.7	34.7
4-5 AM	28	0.0	15	0.0	1500	28	0	15	0.43	0	66.3	63.5	45.4	34.6	34.6
5-6 AM	56	0.0	30	0.0	1500	56	0	30	0.43	0	66.3	63.4	45.3	34.5	34.5
6-7 AM	70	0.0	37	0.0	1500	70	0	37	0.43	0	66.3	63.4	45.2	34.3	34.3
7-8 AM	110	0.0	59	0.0	1500	110	0	59	0.43	0	66.2	63.3	45.0	34.2	34.2
8-9 AM	221	0.0	118	0.0	1500	221	0	118	0.44	0	66.0	63.0	44.6	33.5	33.5
9-10 AM	343	0.0	184	0.0	1500	343	0	184	0.46	0	65.8	62.8	44.1	32.7	32.7
10-11 AM	475	0.0	255	0.0	1500	475	0	255	0.47	0	65.5	62.5	43.6	32.0	32.0
11A-NOON	550	0.0	296	0.0	1500	550	0	296	0.48	0	65.4	62.3	43.3	31.5	31.5
NOON-1PM	549	0.0	295	0.0	1500	549	0	295	0.48	0	65.4	62.3	43.3	31.5	31.5
1-2 PM	544	0.0	292	0.0	1500	544	0	292	0.48	0	65.4	62.3	43.3	31.5	31.5
2-3 PM	560	0.0	301	0.0	1500	560	0	301	0.48	0	65.3	62.3	43.3	31.5	31.5
3-4 PM	583	0.0	313	0.0	1500	583	0	313	0.48	0	65.3	62.2	43.2	31.4	31.4
4-5 PM	510	0.0	274	0.0	1500	510	0	274	0.47	0	65.5	62.3	43.5	31.8	31.8
5-6 PM	501	0.0	269	0.0	1500	501	0	269	0.47	0	65.5	62.4	43.5	31.9	31.9
6-7 PM	442	0.0	237	0.0	1500	442	0	237	0.47	0	65.6	62.5	43.7	32.2	32.2
7-8 PM	406	0.0	218	0.0	1500	406	0	218	0.46	0	65.6	62.6	43.8	32.4	32.4
8-9 PM	243	0.0	131	0.0	1500	243	0	131	0.45	0	66.0	63.0	44.5	33.3	33.3
9-10 PM	166	0.0	90	0.0	1500	166	0	90	0.44	0	66.1	63.2	44.8	33.8	33.8
10-11 PM	100	0.0	54	0.0	1500	100	0	54	0.43	0	66.2	63.3	45.1	34.2	34.2
11PM-MID	59	0.0	32	0.0	1500	59	0	32	0.43	0	66.3	63.4	45.3	34.4	34.4

----- 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	0.0111
MAIN ROUTE WITH WORKS	0.0106
DIVERSION	0.0490

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$790
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
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SUNDAY EASTBOUND DIRECTION

