

USH 41: STH 114 TO BREEZEWOOD LN/BELL ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	427	0.0	3000	427	0	0.36	0	70.2	54.0	49.7
1-2 AM	245	0.0	3000	245	0	0.36	0	70.2	54.0	49.7
2-3 AM	243	0.0	3000	243	0	0.36	0	70.2	54.0	49.7
3-4 AM	280	0.0	3000	280	0	0.36	0	70.2	54.0	49.7
4-5 AM	461	0.0	3000	461	0	0.36	0	70.2	54.0	49.7
5-6 AM	1019	0.0	3000	1019	0	0.35	0	69.5	53.8	49.7
6-7 AM	2008	0.0	3000	2008	0	0.33	0	68.2	53.7	49.7
7-8 AM	2715	0.0	3000	2715	0	0.54	0	67.4	46.9	42.2
8-9 AM	2325	0.0	3000	2325	0	0.33	0	67.8	53.6	49.7
9-10 AM	2232	0.0	3000	2232	0	0.33	0	67.9	53.6	49.7
10-11 AM	2383	0.0	3000	2383	0	0.33	0	67.8	53.5	49.7
11AM-NOON	2553	0.0	3000	2553	0	0.44	0	67.6	50.0	45.6
NOON-1PM	2727	0.0	2999	2727	0	0.55	0	67.3	46.7	41.9
1-2 PM	2962	0.0	2999	2962	0	0.75	3	67.1	41.9	38.1
2-3 PM	3248	0.0	3000	3248	0	2.72	125	66.7	22.0	37.3
3-4 PM	3347	0.0	3000	3347	0	8.27	425	66.6	12.4	37.3
4-5 PM	3530	0.0	3000	3294	236	15.76+	834	66.3	9.6	37.3
5-6 PM	3019	0.0	3000	2924	95	16.87+	889	67.0	9.3	37.3
6-7 PM	2089	0.0	2999	2089	0	5.51	419	68.1	17.1	43.8
7-8 PM	1515	0.0	3000	1515	0	0.34	0	68.9	53.7	49.7
8-9 PM	1285	0.0	3000	1285	0	0.35	0	69.1	53.8	49.7
9-10 PM	1231	0.0	3000	1231	0	0.35	0	69.2	53.8	49.7
10-11 PM	1020	0.0	3000	1020	0	0.35	0	69.5	53.8	49.7
11PM-MID	616	0.0	3000	616	0	0.36	0	70.0	53.9	49.7

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

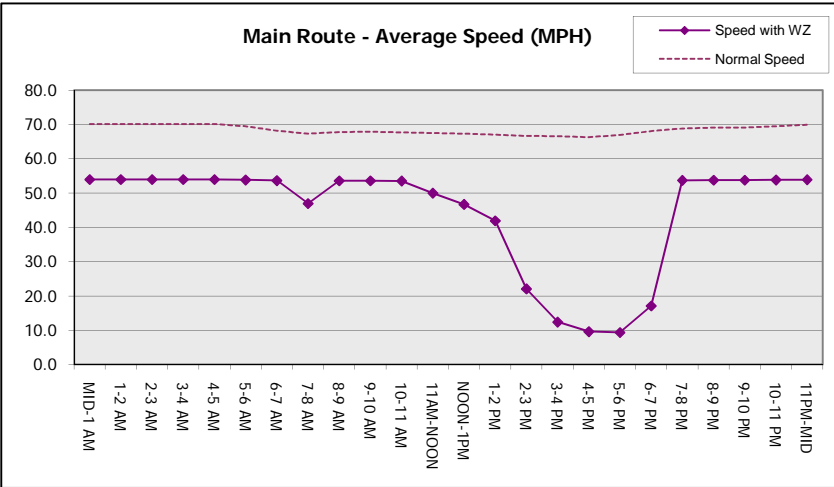
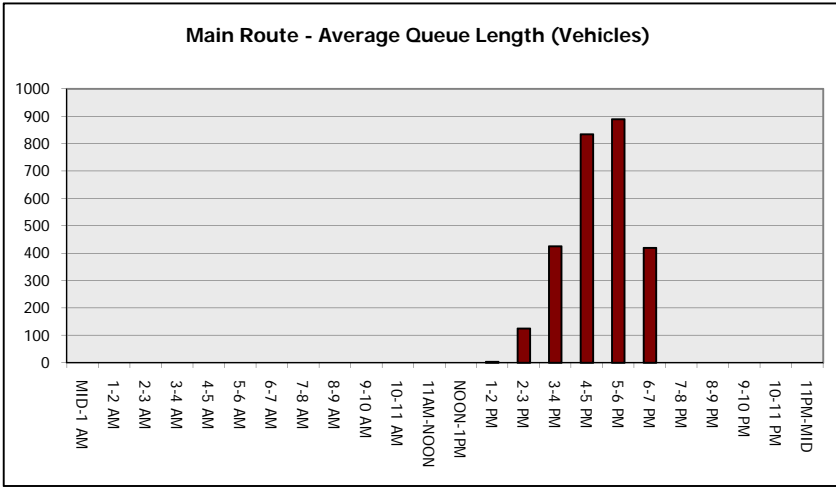
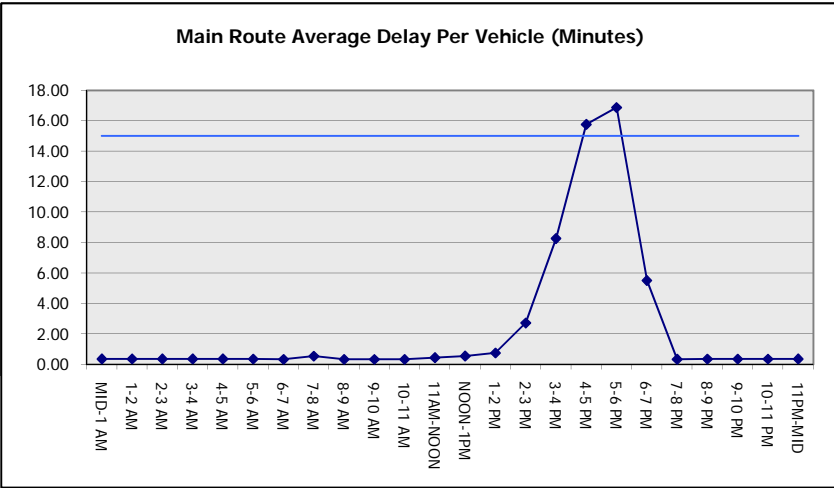
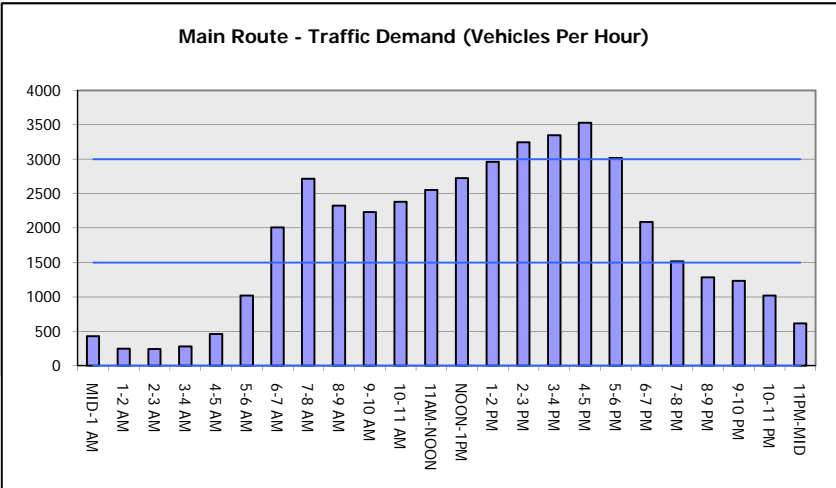
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0097
MAIN ROUTE WITH WORKS	0.0068
'DIVERSION'	0.0002
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,280
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH		
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	373	0.0	3000	373	0	0.36	0	70.2	54.0	49.7
1-2 AM	251	0.0	3000	251	0	0.36	0	70.2	54.0	49.7
2-3 AM	237	0.0	3000	237	0	0.36	0	70.2	54.0	49.7
3-4 AM	227	0.0	3000	227	0	0.36	0	70.2	54.0	49.7
4-5 AM	407	0.0	3000	407	0	0.36	0	70.2	54.0	49.7
5-6 AM	1031	0.0	3000	1031	0	0.35	0	69.4	53.8	49.7
6-7 AM	1852	0.0	3000	1852	0	0.34	0	68.4	53.7	49.7
7-8 AM	2831	0.0	3000	2831	0	0.62	0	67.2	45.0	40.0
8-9 AM	2269	0.0	3000	2269	0	0.33	0	67.9	53.6	49.7
9-10 AM	2292	0.0	3000	2292	0	0.33	0	67.9	53.6	49.7
10-11 AM	2544	0.0	3000	2544	0	0.43	0	67.6	50.2	45.8
11AM-NOON	2735	0.0	3000	2735	0	0.56	0	67.3	46.6	41.8
NOON-1PM	2874	0.0	2999	2874	0	0.65	0	67.2	44.3	39.2
1-2 PM	3000	0.0	2999	3000	0	0.83	7	67.0	40.3	37.7
2-3 PM	3334	0.0	3000	3334	0	3.54	175	66.6	19.1	37.3
3-4 PM	3633	0.0	3000	3633	0	12.37+	662	66.0	10.5	37.3
4-5 PM	3878	0.0	2999	2946	932	17.45+	927	64.3	9.2	37.3
5-6 PM	3702	0.0	2999	2988	714	17.37+	920	65.6	9.3	37.3
6-7 PM	2954	0.0	3000	2884	71	16.90+	891	67.1	9.3	37.3
7-8 PM	2291	0.0	2999	2291	0	8.79+	497	67.9	12.5	41.2
8-9 PM	1714	0.0	3000	1714	0	0.39	4	68.6	52.0	49.7
9-10 PM	1412	0.0	3000	1412	0	0.34	0	69.0	53.8	49.7
10-11 PM	1069	0.0	3000	1069	0	0.35	0	69.4	53.8	49.7
11PM-MID	848	0.0	3000	848	0	0.35	0	69.7	53.9	49.7

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0106
MAIN ROUTE WITH WORKS	0.0072
'DIVERSION'	0.0009

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$62,516
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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