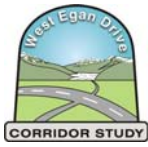


Section 7

Final Report Chapter 4 Appendix





Section 7: Final Report Chapter 4 Appendix

Appendix A - Level of Service Tables

Appendix B - Employment and Population Data

Section 7 Final Report Chapter 4 Appendix

Appendix A: Level of Service Tables





TABLE 1 EXISTING AM AND PM PEAK HOUR INTERSECTION OPERATIONS

Intersection	LOS ¹	V/C ¹	Control delay (sec/veh) ¹	Crit. Mov't	LOS ¹	V/C ¹	Control delay (sec/veh) ¹	Crit. Mov't
	AM Peak Hour				PM Peak Hour			
Glacier Hwy / Wildmeadow Ln	B	0.01	14.7	SB LT/RT	C	0.02	22.9	SB LT/RT
Glacier Hwy / Industrial Blvd	E	0.08	42.4	SB LTR	F	0.46	>50	SB LTR
Egan Dr / Vintage Blvd / Glacier Hwy (North)	D	0.39	28.1	NB LT/RT	F	>1.0	>50	NB LT/RT
Egan Dr / Riverside Dr	C	0.39	22.8	--	C	0.70	24.8	--
Egan Dr / Mendenhall Loop Rd	E	0.89	57.9	--	E	0.99	59.9	--
Egan Dr / Glacier Hwy (McNugget)	B	0.74	16.2	--	C	0.9	26.8	--
Egan Dr / Yandukin Dr	C	0.23	19.1	WB LT	F	>1.0	>50	EB LT
Mendenhall Mall Rd / Vintage Blvd / Riverside Dr	C	0.50	25.7	--	C	0.56	31.4	--
James Blvd. / Riverside Dr	C	0.14	18.8	WB LT/RT	D	0.18	27.8	WB LT/RT
James Blvd / Mendenhall Loop Rd	C	0.31	20.2	EB LT/RT	C	0.18	15.8	EB LT/RT
Mendenhall Mall Rd / Mendenhall Loop Rd	B	0.61	17.4	--	C	0.76	27.7	--
Glacier Hwy (North) / Sunset Dr	A	0.01	9.2	SB LT/RT	B	0.01	10.1	SB LT/RT
Glacier Hwy (North)/Mendenhall Loop Rd Ext	C	0.05	18.8	WB LTR	F	0.34	>50	WB LTR
Glacier Hwy (Airport) / Berners Ave.	C	0.05	19.8	NB LT	F	0.14	>50	NB LT
Glacier Hwy (Airport)/ Shell Simmons Dr. Existing - TWSC Planned - signalized	C B	0.24 0.45	24.5 10.6	SB LT --	F B	>1.0 0.68	>50 16.2	NB LT --
Glacier Hwy (Airport) / Jordan Ave. Existing - TWSC Planned - signalized	C B	0.05 0.42	20.3 11.4	NB LT --	F B	>1.0 0.62 ²	>50 16.6	SB LT --
Glacier Hwy (Airport) / Old Dairy Rd./Trout St. Existing - full access Planned - restricted EW-LT during PM Pk.	F F	0.85 0.85	>50 >50	EB LT EB LT	F D	>1.0 0.62	>50 25.3	EB LT WB T/RT
Old Dairy Rd / Crest St	A	0.05	9.3	NB LT/RT	B	0.15	10.7	NB LT/RT
Yandukin Dr / Old Dairy Rd	B	0.12	10.4	SB LTR	B	0.19	12.2	SB LTR
Yandukin Dr / Crest Street	A	0.01	9.8	NB LTR	B	0.18	11.3	SB LTR
Glacier Hwy (Fred Meyer)/ Glacier Hwy (Lemon Rd)	B	0.02	10.8	EB TH/RT	D	0.52	26.8	EB TH/RT

¹ Averaged over all movements at signalized intersections; for critical movement only at unsignalized intersections)

² Includes left-turns rerouted from Trout Street and Old Dairy to Jordan Avenue.

NB = northbound, SB = southbound, EB = eastbound, WB = westbound

LT = left, TH = through, RT = right; LTR = left/through/right

LOS = Level of Service, V/C= volume-to-capacity ratio

TWSC = Two-way stop-controlled



TABLE 2 YEAR 2025 AM AND PM PEAK HOUR INTERSECTION OPERATIONS

Intersection	LOS	V/C ¹	Control delay (sec/veh) ¹	Crit. Mov't	LOS	V/C ¹	Control delay (sec/veh) ¹	Crit. Mov't
	AM Peak Hour				PM Peak Hour			
Glacier Hwy / Wildmeadow Ln	C	0.01	18.2	SB LT/RT	D	0.05	30.6	SB LT/RT
Glacier Hwy / Industrial Blvd	F	>1.0	>50	NB LT	F	>1.0	>50	NB LT
Egan Dr / Vintage Blvd / Glacier Hwy (North)	F	0.85	>50	NB LT/RT	F	>1.0	>50	NB LT/RT
Egan Dr / Riverside Dr	C	0.49	21.9	--	E	>1.0	79.8	--
Egan Dr / Mendenhall Loop Rd	F	>1.0	>80	--	F	>1.0	>80	--
Egan Dr / Glacier Hwy (McNugget)	C	0.92	25.3	--	F	>1.0	>80	--
Egan Dr / Yandukin Dr	D	0.35	27.2	WB LT	F	>1.0	>50	EB LT
Mendenhall Mall Rd / Vintage Blvd / Riverside Dr	D	0.62	35.5	--	D	0.83	40.7	--
James Blvd. / Riverside Dr	D	0.22	25	WB LT/RT	F	0.56	>50	WB LT/RT
James Blvd / Mendenhall Loop Rd	F	>1.0	>50	EB LT/RT	C	0.29	24.3	EB LT/RT
Mendenhall Mall Rd / Mendenhall Loop Rd	B	0.72	15.3	--	D	0.93	36.4	--
Glacier Hwy (North) / Sunset Dr	B	0.01	10.2	SB LT/RT	B	0.02	11.6	SB LT/RT
Glacier Hwy (North)/Mendenhall Loop Rd Ext	E	0.12	42.6	WB LTR	F	>1.0	>50	WB LTR
Glacier Hwy (Airport) / Berners Ave.	D	0.14	33.4	NB LT	F	0.75	>50	NB LT
Glacier Hwy (Airport)/ Shell Simmons Dr. Planned – signalized	B	0.59	12.9	--	D	1.01	45.7	--
Glacier Hwy (Airport) / Jordan Ave. Planned – signalized	B	0.54	12.7	--	C	0.81	25.3	--
Glacier Hwy (Airport) / Old Dairy Rd./Trout St. Planned – restricted EW-LT during PM Pk.	F	>1.0	>50	EB LT	F	>1.0	>50	WB TH/RT
Old Dairy Rd / Crest St	A	0.07	9.5	NB LT/RT	B	0.29	13.3	NB LT/RT
Yandukin Dr / Old Dairy Rd	B	0.16	11.1	SB LTR	C	0.44	16.9	SB LTR
Yandukin Dr / Crest Street	B	0.02	10.2	NB LTR	B	0.29	14.3	SB LTR
Glacier Hwy (Fred Meyer)/ Glacier Hwy (Lemon Rd)	B	0.04	13.1	EB TH/RT	F	>1.0	>50	EB TH/RT

¹ Averaged over all movements at signalized intersections; for critical movement only at unsignalized intersections)

² Includes left-turns rerouted from Trout Street and Old Dairy to Jordan Avenue.

NB = northbound, SB = southbound, EB = eastbound, WB = westbound

LT = left, TH = through, RT = right; LTR = left/through/right

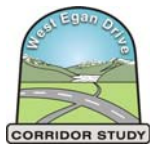
V/C= volume-to-capacity ratio

TWSC = Two-way stop-controlled

Section 7 Final Report Chapter 4 Appendix

Appendix B: Employment and Population Data





Employment Data and Projections
Provided by CBJ 12/2000

TAZ	Area	Employment		
		1998	2020	Annual Growth Rate
Area A				
9	Upper Valley	14	17	0.89%
10	Middle Valley	128	158	0.96%
1/2 of 20	Mendenhall Mall	150	185	0.96%
22	Mid-Central Valley	30	37	0.96%
23	Upper Central Valley	16	20	1.02%
24	Upper Tongass	56	69	0.95%
25	Lower Tongass	7	9	1.15%
27	Atlin Drive	3	4	1.32%
Total		404	499	
Average Annual Growth Rate				1.03%
Delta		95		

Area B				
11	Upper River	69	85	0.95%
12	West Valley	25	31	0.98%
1/2 of 18	Vintage Park	137.5	169.5	0.96%
1/2 of 20	Mendenhall Mall	150	185	0.96%
21	Mid Riverside	11	14	1.10%
26	Lower Tongass	385	474	0.95%
Total		777.5	958.5	
Average Annual Growth Rate				0.98%
Delta		181		

Area C				
1/2 of 18	Vintage Park	137.5	169.5	0.96%
Average Annual Growth Rate				0.96%
Delta		32		

Area D				
28	Hurlock Avenue	43	53	0.96%
29	Upper Radcliff	23	28	0.90%
1/2 of 30	Lower Radcliff	22	27	0.94%
1/2 of 31	Travel Lodge	155	191	0.95%
Total		243	299	
Average Annual Growth Rate				0.94%
Delta		56		

Population Data and Projections
Provided by CBJ 12/2000

TAZ	Area	Population		
		1998	2020	Annual Growth Rate
Area A				
9	Upper Valley	1029	1088	0.25%
10	Middle Valley	1186	1462	0.96%
1/2 of 20	Mendenhall Mall	0	0	0.00%
22	Mid-Central Valley	884	1018	0.64%
23	Upper Central Valley	2109	2193	0.18%
24	Upper Tongass	768	852	0.47%
25	Lower Tongass	706	870	0.95%
27	Atlin Drive	43	112	4.45%
Total		6725	7595	
Average Annual Growth Rate				0.99%
Delta		870		

Area B				
11	Upper River	2202	2311	0.22%
12	West Valley	898	1107	0.96%
1/2 of 18	Vintage Park	0	0	0.00%
1/2 of 20	Mendenhall Mall	0	0	0.00%
21	Mid Riverside	1026	1065	0.17%
26	James Blvd.	569	628	0.45%
Total		4695	5111	
Average Annual Growth Rate				0.30%
Delta		416		

Area C				
1/2 of 18	Vintage Park	0	0	0.00%
Average Annual Growth Rate				0.00%
Delta		0		

Area D				
28	Hurlock Avenue	97	120	0.97%
29	Upper Radcliff	390	419	0.33%
1/2 of 30	Lower Radcliff	241	271	0.54%
1/2 of 31	Travel Lodge	120.5	132.5	0.43%
Total		848.5	942.5	
Average Annual Growth Rate				0.57%
Delta		94		



Employment Data and Projections
 Provided by CBJ 12/2000

Area E				
1/2 of 30	Lower Radcliff	22	27	0.94%
1/2 of 31	Travel Lodge	155	191	0.95%
32	Airport Mall	317	391	0.96%
33	Nugget Jordan Mall	592	730	0.96%
34	Ka-See-An	101	124	0.94%
1/2 of 35	Crest Street	77.5	95.5	0.95%
1/2 of 36	Old Dairy	138.5	170.5	0.95%
	Total	1403	1729	
Average Annual Growth Rate				0.95%
Delta			326	

Area F				
7	Airport	352	434	0.96%
19	Glacier Fire Station	48	59	0.94%
1/2 of 35	Crest Street	77.5	95.5	0.95%
1/2 of 36	Old Dairy	138.5	170.5	0.95%
	Total	616	759	
Average Annual Growth Rate				0.95%
Delta			143	

Area G				
1/2 of 6	Fred Meyer	143	176	0.95%
Average Annual Growth Rate				0.95%
Delta			33	

Area H				
8	Engineers Cutoff	1	1	0.00%
13	Peterson Hill	395	487	0.96%
14	Fritz Cove	8	10	1.02%
15	University of Alaska	105	129	0.94%
16	Tee Harbor	465	573	0.95%
17	Industrial Boulevard	1096	1351	0.96%
	Total	2070	2551	
Average Annual Growth Rate				0.80%
Delta			481	

Population Data and Projections
 Provided by CBJ 12/2000

Area E: Glacier Highway East to Egan Drive				
1/2 of 30	Lower Radcliff	241	270	0.52%
1/2 of 31	Travel Lodge	120.5	132.5	0.43%
32	Airport Mall	60	77	1.14%
33	Nugget Jordan Mall	3	42	12.76%
34	Ka-See-An	225	249	0.46%
1/2 of 35	Crest Street	1	12	11.97%
1/2 of 36	Old Dairy	0	0	0.00%
	Total	650.5	782.5	
Average Annual Growth Rate				3.90%
Delta			132	

Area F				
7	Airport	0	0	0.00%
19	Glacier Fire Station	0	0	0.00%
1/2 of 35	Crest Street	1	12	11.97%
1/2 of 36	Old Dairy	0	0	0.00%
	Total	1	12	
Average Annual Growth Rate				2.99%
Delta			11	

Area G				
1/2 of 6	Fred Meyer	7.5	112	13.09%
Average Annual Growth Rate				13.09%
Delta			104.5	

Area H				
8	Engineers Cutoff	243	407	2.37%
13	Peterson Hill	677	1036	1.95%
14	Fritz Cove	646	705	0.40%
15	University of Alaska	449	961	3.52%
16	Tee Harbor	1942	2393	0.95%
17	Industrial Boulevard	87	696	9.92%
	Total	4044	6198	
Average Annual Growth Rate				3.19%
Delta			2154	