Alaska Department of Transportation and Public Facilities

Southeast Region 2009 Traffic and Safety Report

Prepared February 2012

Alaska Department of Transportation and Public Facilities Southeast Region

2009 Traffic and Safety Report

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Introduction

The Traffic and Safety Section conducts studies of traffic characteristics and investigates the operation and management of roadway facilities in order to provide for the safe, convenient and efficient movement of people and goods. These studies help to determine ways to meet the transportation needs of Southeast Alaska Communities.

Traffic and safety data was collected and analyzed for those roadways that provide a key community link and had significant amounts of vehicular volume. The State of Alaska maintains the majority of these roads and highways. Although this report is for 2008, data from other years is included where appropriate. Traffic and safety information is provided in four sections:

I. SAFETY

A. Intersection Crash Rate Ranking
B. Rural Highway Crash Rate Ranking

II. QUALITY OF OPERATION

A. Quality of Operation at Signalized Intersections
B. Quality of Operation at Unsignalized Intersections
C. Quality of Operation at Roundabouts

III. VEHICLE CLASSIFICATION

IV. TRAFFIC VOLUME

A. Historical Population Growth Rates
B. Permanent Traffic Recorder Data
C. Annual Average Daily Traffic Maps

I. SAFETY SECTION

A. Intersection Crash Rate Ranking

The intersection crash rate ranking was derived from Highway Analysis System (HAS), the State of Alaska's computerized traffic crash database. This report covers crashes that occurred during a five-year period from January 1st, 2005 – December 31st, 2009. All crashes within 0.05 miles of the center of an intersection were counted as intersection crashes. Because there are over a thousand intersections in the Southeast Region, this report only analyzes intersections with ten or more crashes in a five year period or five or more crashes if one was a fatal crash.

When highway improvements are being considered on the basis of crash history, it is prudent to verify and supplement computer generated data, such as the tables contained in this section, with copies of the actual crash reports.

In addition, two types of crash rates were computed, weighted and unweighted. Weighted rates are calculated using crash severity. The weighted rates are used to identify locations with more serious crashes. However, these locations are more likely to change from one year to the next because they can be heavily influenced by random severe crashes, especially on low volume roads typical of this region. Unweighted rates fluctuate less and provide a better indication of crash patterns.

To compute weighted rates, crash weights are taken from the statewide Highway Safety Improvement Program (HSIP). The following weights were assigned to each crash type:

Property damage only (PDO):	**1**
Minor (non-disabling) injury:	**10**
Major (disabling) injury:	**50**
Fatality:	**100**

Crash rates are computed by crashes (weighted or unweighted) per million vehicles entering an intersection. The formulas used to compute the intersection crash rates are as follows:

Unweighted rate: $\frac{\text{(Total crashes in five years)}}{\text{[(ADT Leg 1 + ADT Leg 2 ..... ADT Leg 4) x five years)]/ MV}}$

Weighted rate: $\frac{\text{(Weighted crash number for five years)}}{\text{[(ADT Leg 1 + ADT Leg 2 ..... ADT Leg 4) x five years)]/ MV}}$

Where:
ADT = average daily traffic
MV = million vehicles
Weighted crash number =[(the number of PDO crashes)x**1**]+[(the number of minor crashes)x**10**]+[(the number of major crashes)x**50**]+[(the number of fatal crashes)x**100**]

The basis for determining the crash rate is as follows. Individual ADT's from each leg (either three or four legs) of that intersection is totaled and then divided by two. This accounts for counting each vehicle twice: once when entering the intersection and again when leaving. The entering ADT is then multiplied by one year (365 days) times the reporting period (five years). Crashes are rare events and the calculated crash rate is usually a very small fraction. Therefore, for ease in writing, the rate is multipied by one million and expressed as crashes per million vehicles.

Unreported crashes are the final factor in crash rate analysis. Policing agencies usually only investigate injury crashes or property damage crashes above a certain dollar amount. Many minor "fender bender" crashes go unreported. Also, many drivers do not want agencies to discover that a crash has occurred for fear that they will lose their license or have their insurance rates increased. Furthermore, when the reportable property damage amount is raised, the apparent effect is a reduction in traffic crashes rather than a change in reporting procedures. Therefore, one should be cautious about the differences between crash rates for different years.

Five tables follow; each ranked by different criteria. **Table 1** ranks the crashes by total number of crashes without regard to traffic volumes. **Tables 2 and 3** rank intersections by an unweighted and a weighted rate. **Tables 4 and 5** are sorted by city, then ranked by an unweighted and a weighted rate.

Table 1: Southeast Region Intersection Crashes

Ranked by 5-Year Total Number of Crashes (2005-2009)

(not including intersections with fewer than 10 crashes or 1 fatality in 5 years)

Rank	City	Major Street (CDS #)	Intersection	Vehicle Crashes				
				PDO	Minor Injuries	Major Injuries	Fatality	Total
1	Juneau	296000	Egan - Loop	39	25	1	0	65
2	Juneau	296000	Egan - 10th St	33	16	0	0	49
3	Juneau	296000	Egan - Salmon Creek	27	22	0	0	49
4	Juneau	296229	Egan - Vanderbilt	25	21	2	0	48
5	Juneau	296000	Egan - McNugget	31	13	0	0	44
6	Juneau	296331	Glacier - Old Dairy -Trout	20	11	0	0	31
7	Juneau	296500	Riverside - Vintage	22	7	0	0	29
8	Juneau	296000	Egan - Yandukin	11	12	2	0	25
9	Juneau	296400	Loop - Mendenhall - Valley	17	7	1	0	25
10	Juneau	296000	Egan- Highland	17	6	0	0	23
11	Ketchikan	291415	Jefferson - 3rd Ave	13	7	1	0	21
12	Sitka	295500	Sawmill Ck Rd - Halibut Pt - Lake	17	4	0	0	21
13	Juneau	296400	Loop - Stephen Richards	12	7	1	0	20
14	Juneau	296000	Egan - Back Loop	8	9	0	0	17
15	Juneau	296331	Glacier - Jordan	11	5	1	0	17
16	Juneau	296229	Glacier - Anka	13	4	0	0	17
17	Sitka	295505	Lake - Lincoln	14	2	0	0	16
18	Juneau	296331	Glacir - Shell Simmons	8	7	0	0	15
19	Juneau	296000	Egan - Willoughby	10	3	2	0	15
20	Ketchikan	291400	S Tongass - Washington	6	9	0	0	15
21	Sitka	295400	Halibut Pt Rd - Peterson	9	6	0	0	15
22	Juneau	296016	Glacier - 10th St	10	4	0	0	14
23	Juneau	296000	Egan - Sunny Point	7	6	1	0	14
24	Juneau	296110	Douglas Hwy - Cordova	9	4	0	0	13
25	Juneau	296000	Egan - Riverside	11	2	0	0	13
26	Ketchikan	291400	S Tongass - Second/Water	6	7	0	0	13
27	Sitka	295460	Harbor Dr - Maksoutoff	7	5	0	0	12
28	Juneau	296000	Egan - Fritz Cove Rd	8	3	0	0	11
29	Juneau	296000	Egan - 12th	6	4	1	0	11
30	Sitka	295500	Sawmill - Jarvis	11	0	0	0	11
31	Juneau	296000	Egan - Glacier North	5	4	1	0	10
32	Ketchikan	291500	N Tongass - Heckman	4	6	0	0	10
33	Ketchikan	291400	S Tongass - Grant	7	3	0	0	10

Table 2: Southeast Region Intersection Crash Rate Ranking

Ranked by 5-Year Weighted Crash Rate (2005-2009)

(not including intersections with fewer than 10 crashes or at least 1 fatality in 5 years)

Rank	City	Major Street (CDS #)	Intersection	Vehicle Crashes					Average No. of Crashes	AADT	5 Yr Unwtd Crash Rate	**5 Yr Wtd Crash Rate**
				PDO	Minor Injuries	Major Injuries	Fatality	Total				
1	Ketchikan	291415	Jefferson - 3rd Ave	13	7	1	0	21	4.2	8899	1.29	8.19
2	Juneau	296400	Loop - Mendenhall - Valley	17	7	1	0	25	5	9896	1.38	7.59
3	Juneau	296229	Egan - Vanderbilt	25	21	2	0	48	9.6	26664	0.99	6.88
4	Juneau	296000	Egan - Back Loop	8	9	0	0	17	3.4	7977	1.17	6.73
5	Juneau	296000	Egan - Willoughby	10	3	2	0	15	3	13582	0.61	5.65
6	Juneau	296000	Egan - Loop	39	25	1	0	65	13	33881	1.05	5.48
7	Juneau	296000	Egan - Salmon Creek	27	22	0	0	49	9.8	26178	1.03	5.17
8	Juneau	296331	Glacier - Jordan	11	5	1	0	17	3.4	12130	0.77	5.01
9	Juneau	296331	Glacier - Old Dairy -Trout	20	11	0	0	31	6.2	14341	1.18	4.97
10	Sitka	295460	Harbor Dr - Maksoutoff	7	5	0	0	12	2.4	6970	0.94	4.48
11	Juneau	296000	Egan - 10th St	33	16	0	0	49	9.8	24627	1.09	4.29
12	Juneau	296400	Loop - Stephen Richards	12	7	1	0	20	4	16895	0.65	4.28
13	Juneau	296000	Egan - Yandukin	11	12	2	0	25	5	30593	0.45	4.14
14	Juneau	296000	Egan - Glacier North	5	4	1	0	10	2	14328	0.38	3.63
15	Sitka	295400	Halibut Pt Rd - Peterson	9	6	0	0	15	3	11283	0.73	3.35
16	Ketchikan	291400	S Tongass - Washington	6	9	0	0	15	3	16054	0.51	3.28
17	Juneau	296331	Glacir - Shell Simmons	8	7	0	0	15	3	13295	0.62	3.21
18	Sitka	295500	Sawmill Ck Rd - Halibut Pt - Lake	17	4	0	0	21	4.2	10149	1.13	3.08
19	Juneau	296500	Riverside - Vintage	22	7	0	0	29	5.8	16915	0.94	2.98
20	Juneau	296000	Egan - McNugget	31	13	0	0	44	8.8	30138	0.80	2.93
21	Juneau	296000	Egan - Sunny Point	7	6	1	0	14	2.8	22285	0.34	2.88
22	Juneau	296000	Egan - 12th	6	4	1	0	11	2.2	18921	0.32	2.78
23	Juneau	296110	Douglas Hwy - Cordova	9	4	0	0	13	2.6	10662	0.67	2.52
24	Juneau	296016	Glacier - 10th St	10	4	0	0	14	2.8	11041	0.69	2.48
25	Ketchikan	291500	N Tongass - Heckman	4	6	0	0	10	2	14164	0.39	2.48
26	Ketchikan	291400	S Tongass - Second/Water	6	7	0	0	13	2.6	18450	0.39	2.26
27	Juneau	296000	Egan- Highland	17	6	0	0	23	4.6	19476	0.65	2.17
28	Juneau	296229	Glacier - Anka	13	4	0	0	17	3.4	13974	0.67	2.08
29	Juneau	296000	Egan - Fritz Cove Rd	8	3	0	0	11	2.2	10242	0.59	2.03
30	Sitka	295505	Lake - Lincoln	14	2	0	0	16	3.2	9826	0.89	1.90
31	Ketchikan	291400	S Tongass - Grant	7	3	0	0	10	2	17054	0.32	1.19
32	Juneau	296000	Egan - Riverside	11	2	0	0	13	2.6	19718	0.36	0.86
33	Sitka	295500	Sawmill - Jarvis	11	0	0	0	11	2.2	8239	0.73	0.73

Table 3: Southeast Region Intersection Crash Rate Ranking

Ranked by 5-Year Unweighted Crash Rate (2005-2009)

(not including intersections with fewer than 10 crashes or at least 1 fatality in 5 years)

Rank	City	Major Street (CDS #)	Intersection	Vehicle Crashes					Average No. of Crashes	AADT	**5 Yr Unwtd Crash Rate**	5 Yr Wtd Crash Rate
				PDO	Minor Injuries	Major Injuries	Fatality	Total				
1	Juneau	296400	Loop - Mendenhall - Valley	17	7	1	0	25	5	9896	1.38	7.59
2	Ketchikan	291415	Jefferson - 3rd Ave	13	7	1	0	21	4.2	8899	1.29	8.19
3	Juneau	296331	Glacier - Old Dairy -Trout	20	11	0	0	31	6.2	14341	1.18	4.97
4	Juneau	296000	Egan - Back Loop	8	9	0	0	17	3.4	7977	1.17	6.73
5	Sitka	295500	Sawmill Ck Rd - Halibut Pt - Lake	17	4	0	0	21	4.2	10149	1.13	3.08
6	Juneau	296000	Egan - 10th St	33	16	0	0	49	9.8	24627	1.09	4.29
7	Juneau	296000	Egan - Loop	39	25	1	0	65	13	33881	1.05	5.48
8	Juneau	296000	Egan - Salmon Creek	27	22	0	0	49	9.8	26178	1.03	5.17
9	Juneau	296229	Egan - Vanderbilt	25	21	2	0	48	9.6	26664	0.99	6.88
10	Sitka	295460	Harbor Dr - Maksoutoff	7	5	0	0	12	2.4	6970	0.94	4.48
11	Juneau	296500	Riverside - Vintage	22	7	0	0	29	5.8	16915	0.94	2.98
12	Sitka	295505	Lake - Lincoln	14	2	0	0	16	3.2	9826	0.89	1.90
13	Juneau	296000	Egan - McNugget	31	13	0	0	44	8.8	30138	0.80	2.93
14	Juneau	296331	Glacier - Jordan	11	5	1	0	17	3.4	12130	0.77	5.01
15	Sitka	295500	Sawmill - Jarvis	11	0	0	0	11	2.2	8239	0.73	0.73
16	Sitka	295400	Halibut Pt Rd - Peterson	9	6	0	0	15	3	11283	0.73	3.35
17	Juneau	296016	Glacier - 10th St	10	4	0	0	14	2.8	11041	0.69	2.48
18	Juneau	296110	Douglas Hwy - Cordova	9	4	0	0	13	2.6	10662	0.67	2.52
19	Juneau	296229	Glacier - Anka	13	4	0	0	17	3.4	13974	0.67	2.08
20	Juneau	296400	Loop - Stephen Richards	12	7	1	0	20	4	16895	0.65	4.28
21	Juneau	296000	Egan- Highland	17	6	0	0	23	4.6	19476	0.65	2.17
22	Juneau	296331	Glacir - Shell Simmons	8	7	0	0	15	3	13295	0.62	3.21
23	Juneau	296000	Egan - Willoughby	10	3	2	0	15	3	13582	0.61	5.65
24	Juneau	296000	Egan - Fritz Cove Rd	8	3	0	0	11	2.2	10242	0.59	2.03
25	Ketchikan	291400	S Tongass - Washington	6	9	0	0	15	3	16054	0.51	3.28
26	Juneau	296000	Egan - Yandukin	11	12	2	0	25	5	30593	0.45	4.14
27	Ketchikan	291500	N Tongass - Heckman	4	6	0	0	10	2	14164	0.39	2.48
28	Ketchikan	291400	S Tongass - Second/Water	6	7	0	0	13	2.6	18450	0.39	2.26
29	Juneau	296000	Egan - Glacier North	5	4	1	0	10	2	14328	0.38	3.63
30	Juneau	296000	Egan - Riverside	11	2	0	0	13	2.6	19718	0.36	0.86
31	Juneau	296000	Egan - Sunny Point	7	6	1	0	14	2.8	22285	0.34	2.88
32	Ketchikan	291400	S Tongass - Grant	7	3	0	0	10	2	17054	0.32	1.19
33	Juneau	296000	Egan - 12th	6	4	1	0	11	2.2	18921	0.32	2.78

Table 4: Southeast Region Intersection Crash Rate Ranking

Sorted by City: Ranked by 5-Year Weighted Crash Rate (2005-2009)

(not including intersections with fewer than 10 crashes or at least 1 fatality in 5 years)

Rank	City	Major Street (CDS #)	Intersection	Vehicle Crashes					Average No. of Crashes	AADT	5 Yr Unwtd Crash Rate	**5 Yr Wtd Crash Rate**
				PDO	Minor Injuries	Major Injuries	Fatality	Total				
1	Juneau	296400	Loop - Mendenhall - Valley	17	7	1	0	25	5	9896	1.38	7.59
2	Juneau	296229	Egan - Vanderbilt	25	21	2	0	48	9.6	26664	0.99	6.88
3	Juneau	296000	Egan - Back Loop	8	9	0	0	17	3.4	7977	1.17	6.73
4	Juneau	296000	Egan - Willoughby	10	3	2	0	15	3	13582	0.61	5.65
5	Juneau	296000	Egan - Loop	39	25	1	0	65	13	33881	1.05	5.48
6	Juneau	296000	Egan - Salmon Creek	27	22	0	0	49	9.8	26178	1.03	5.17
7	Juneau	296331	Glacier - Jordan	11	5	1	0	17	3.4	12130	0.77	5.01
8	Juneau	296331	Glacier - Old Dairy -Trout	20	11	0	0	31	6.2	14341	1.18	4.97
9	Juneau	296000	Egan - 10th St	33	16	0	0	49	9.8	24627	1.09	4.29
10	Juneau	296400	Loop - Stephen Richards	12	7	1	0	20	4	16895	0.65	4.28
11	Juneau	296000	Egan - Yandukin	11	12	2	0	25	5	30593	0.45	4.14
12	Juneau	296000	Egan - Glacier North	5	4	1	0	10	2	14328	0.38	3.63
13	Juneau	296331	Glacir - Shell Simmons	8	7	0	0	15	3	13295	0.62	3.21
14	Juneau	296500	Riverside - Vintage	22	7	0	0	29	5.8	16915	0.94	2.98
15	Juneau	296000	Egan - McNugget	31	13	0	0	44	8.8	30138	0.80	2.93
16	Juneau	296000	Egan - Sunny Point	7	6	1	0	14	2.8	22285	0.34	2.88
17	Juneau	296000	Egan - 12th	6	4	1	0	11	2.2	18921	0.32	2.78
18	Juneau	296110	Douglas Hwy - Cordova	9	4	0	0	13	2.6	10662	0.67	2.52
19	Juneau	296016	Glacier - 10th St	10	4	0	0	14	2.8	11041	0.69	2.48
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2	Ketchikan	291400	S Tongass - Washington	6	9	0	0	15	3	16054	0.51	3.28
3	Ketchikan	291500	N Tongass - Heckman	4	6	0	0	10	2	14164	0.39	2.48
4	Ketchikan	291400	S Tongass - Second/Water	6	7	0	0	13	2.6	18450	0.39	2.26
5	Ketchikan	291400	S Tongass - Grant	7	3	0	0	10	2	17054	0.32	1.19
1	Sitka	295460	Harbor Dr - Maksoutoff	7	5	0	0	12	2.4	6970	0.94	4.48
2	Sitka	295400	Halibut Pt Rd - Peterson	9	6	0	0	15	3	11283	0.73	3.35
3	Sitka	295500	Sawmill Ck Rd - Halibut Pt - Lake	17	4	0	0	21	4.2	10149	1.13	3.08
4	Sitka	295505	Lake - Lincoln	14	2	0	0	16	3.2	9826	0.89	1.90
5	Sitka	295500	Sawmill - Jarvis	11	0	0	0	11	2.2	8239	0.73	0.73

Table 5: Southeast Region Intersection Crash Rate Ranking

Sorted by City: Ranked by 5-Year Unweighted Crash Rate (2005-2009)

(not including intersections with fewer than 10 crashes or at least 1 fatality in 5 years)

Rank	City	Major Street (CDS #)	Intersection	Vehicle Crashes					Average No. of Crashes	AADT	**5 Yr Unwtd Crash Rate**	5 Yr Wtd Crash Rate
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3	Ketchikan	291500	N Tongass - Heckman	4	6	0	0	10	2	14164	0.39	2.48
4	Ketchikan	291400	S Tongass - Second/Water	6	7	0	0	13	2.6	18450	0.39	2.26
5	Ketchikan	291400	S Tongass - Grant	7	3	0	0	10	2	17054	0.32	1.19
1	Sitka	295500	Sawmill Ck Rd - Halibut Pt - Lake	17	4	0	0	21	4.2	10149	1.13	3.08
2	Sitka	295460	Harbor Dr - Maksoutoff	7	5	0	0	12	2.4	6970	0.94	4.48
3	Sitka	295505	Lake - Lincoln	14	2	0	0	16	3.2	9826	0.89	1.90
4	Sitka	295500	Sawmill - Jarvis	11	0	0	0	11	2.2	8239	0.73	0.73
5	Sitka	295400	Halibut Pt Rd - Peterson	9	6	0	0	15	3	11283	0.73	3.35

B. Rural Highway Crash Rate Ranking

Rural highway crash rates reflect the frequency of non-intersection and non-urban highway crashes. Accordingly, only highway segments with few intersections were analyzed. Weighted and unweighted rates were computed for a five-year time period (January 1st 2005 through December 31st 2009).

Rates are given in crashes per million vehicle miles. Table 6 is ranked by an unweighted rate, and Table 7 is ranked by a weighted rate. The crash weighting factors are the same ones used to compute intersection crash rates.

The formulas used to compute the crash rates are as follows:

Unweighted rate: $\frac{\text{(Total crashes in five years)}}{\text{[(ADT x miles in highway segment x five years)]/MVM}}$

Weighted rate: $\frac{\text{(Weighted crash number for five years)}}{\text{[(ADT x miles in highway segment x five years)]/MVM}}$

Where:
ADT = average daily traffic
MVM = million vehicle miles
Weighted crash number =[(the number of PDO crashes)x**1**]+[(the number of minor crashes)x**10**]+[(the number of major crashes)x**50**]+[(the number of fatal crashes)x**100**]

The same words of caution described in the previous section, *Intersection Crash Rate Ranking*, are also appropriate here. Computer generated data such as these tables should be verified and supplemented by reviewing the actual police crash reports when analyzing specific locations. When researching crashes, one should be cautious about differences between crash rates for different years.

Table 6: Rural Road Vehicle Crash Rate Ranking

2005-2009

(Ranked by Unweighted Vehicle Crash Rate)

RANK	Community	Road Name and Segment Description	Total Crashes	Weighted Crash Number	Average ADT	Length in miles	**Unweighted Crash Rate ***	Weighted Crash Rate **
1	Haines	Main St: Beginning - 2nd Ave	1	1	1363	0.06	6.70	6.70
2	Ketchikan	North Tongass: North Point Higgins - End	24	328	465	4.45	6.35	86.84
3	Haines	Piedad Rd: All	1	1	252	0.38	5.72	5.72
4	Gustavus	Wilson Rd: All	1	10	65	2.09	4.04	40.43
5	Petersburg	Nordic Dr: Excel St - Haugen Dr	1	10	3101	0.05	3.53	35.34
6	Petersburg	Papkes Landing Rd: All	1	10	369	0.51	2.91	29.12
7	Ketchikan	Revilla Rd: All	14	108	285	9.63	2.80	21.57
8	Juneau	Fish Creek Rd: All	13	76	511	5.89	2.37	13.83
9	Petersburg	Wrangell Ave: All	1	1	437	0.58	2.16	2.16
10	Prince of Wales	Hydaburg Hwy: All	10	127	115	22.50	2.12	26.89
11	Juneau	North Douglas Hwy: All	67	587	1540	12.00	1.99	17.41
12	Juneau	Glacier Hwy: Back Loop - End	87	855	949	27.39	1.83	18.02
13	Sitka	Sawmill Creek Rd: Jarvis - end	23	274	1149	6.03	1.82	21.68
14	Skagway	Dyea Rd: All	7	34	266	8.42	1.71	8.32
15	Prince of Wales	South Whale Pass Rd: All	1	1	39	8.34	1.68	1.68
16	Petersburg	Nordic Dr: Haugen Dr - End	13	148	5885	0.78	1.55	17.62
17	Juneau	Fritz Cove Rd: All	7	16	996	2.51	1.53	3.51
18	Haines	2nd Ave: Beginning - Lutak Rd	1	1	888	0.41	1.51	1.51
19	Ketchikan	South Tongass: Forest Park - End	51	449	1673	11.33	1.47	12.99
20	Haines	3rd Ave: Beginning - Haines Hwy	2	11	1486	0.52	1.43	7.86
21	Skagway	Broadway: All	4	13	1651	0.94	1.42	4.60
22	Haines	Small Tracts: All	2	2	468	1.78	1.32	1.32
23	Wrangell	Bennett St: All	1	1	1224	0.36	1.26	1.26
24	Prince of Wales	Coffman Cove Rd: All	3	52	64	20.59	1.25	21.62
25	Petersburg	Sandy Beach Rd: All	2	20	545	1.64	1.22	12.23
26	Haines	Haines Hwy: 3rd - End	42	168	478	39.60	1.22	4.86
27	Wrangell	Spear Rd: All	1	10	258	1.82	1.17	11.67
28	Prince of Wales	Thorne Bay Rd: All	10	104	304	17.48	1.03	10.73
29	Prince of Wales	Craig/Klawock/Hollis: Big Salt Lake - End	16	141	397	23.28	0.95	8.36
~~30~~	~~Haines~~	~~Mud Bay Rd: All~~	~~7~~	~~65~~	~~528~~	~~7.88~~	~~0.92~~	~~8.56~~
31	Wrangell	Zimovia Hwy: All	17	80	761	13.58	0.90	4.24
32	Juneau	Thane Rd: Ferry Way - End	14	184	1768	5.521	0.78	10.33
33	Haines	Haines Hwy/Lutak Rd: 2nd - End	5	63	805	4.34	0.78	9.88
34	Petersburg	Mitkof Hwy: All	22	67	514	32.21	0.72	2.22
35	Angoon	Kootznahoo Rd: All	2	2	591	2.78	0.66	0.67
36	Wrangell	Evergreen: All	1	10	907	1.04	0.58	5.81
37	Yakutat	Airport Rd: All	3	21	835	3.48	0.56	3.96
38	Haines	Lutak: All	3	30	541	5.47	0.55	5.55

39	Skagway	Klondike: All	7	25	565	13.17	0.51	1.84
40	Gustavus	Mountain View Rd.	2	11	617	3.5	0.50	2.79
41	Prince of Wales	Craig/Klawock/Hollis: Start - Big Salt Lake	10	202	1911	7.28	0.39	7.96
42	Prince of Wales	Big Salt Lake Rd: All	5	131	409	17.055	0.39	10.29
43	Petersburg	Haugen Dr: 6th St - End	1	50	1305	1.347	0.31	15.59
44	Kake	Keku Rd: All	4	4	1038	15.42	0.13	0.14
45	Hyder	Salmon River Rd: All	1	10	429	11.95	0.10	1.07
46	Prince of Wales	North Prince of Wales: All	1	1	227	79.96	0.03	0.03

* Crashes / Million Vehicle Miles

** Weighted Crash Number / Million Vehicle Miles

Table 7: Rural Road Vehicle Crash Rate Ranking

2005-2009

(Ranked by Weighted Vehicle Crash Rate)

RANK	Community	Road Name and Segment Description	Total Crashes	Weighted Crash Number	Average ADT	Length in miles	Unweighted Crash Rate *	**Weighted Crash Rate ****
1	Ketchikan	North Tongass: North Point Higgins - End	24	328	465	4.45	6.35	86.84
2	Gustavus	Wilson Rd: All	1	10	65	2.09	4.04	40.43
3	Petersburg	Nordic Dr: Excel St - Haugen Dr	1	10	3101	0.05	3.53	35.34
4	Petersburg	Papkes Landing Rd: All	1	10	369	0.51	2.91	29.12
5	Prince of Wales	Hydaburg Hwy: All	10	127	115	22.50	2.12	26.89
6	Sitka	Sawmill Creek Rd: Jarvis - end	23	274	1149	6.03	1.82	21.68
7	Prince of Wales	Coffman Cove Rd: All	3	52	64	20.59	1.25	21.62
8	Ketchikan	Revilla Rd: All	14	108	285	9.63	2.80	21.57
9	Juneau	Glacier Hwy: Back Loop - End	87	855	949	27.39	1.83	18.02
10	Petersburg	Nordic Dr: Haugen Dr - End	13	148	5885	0.78	1.55	17.62
11	Juneau	North Douglas Hwy: All	67	587	1540	12.00	1.99	17.41
12	Petersburg	Haugen Dr: 6th St - End	1	50	1305	1.347	0.31	15.59
13	Juneau	Fish Creek Rd: All	13	76	511	5.89	2.37	13.83
14	Ketchikan	South Tongass: Forest Park - End	51	449	1673	11.33	1.47	12.99
15	Petersburg	Sandy Beach Rd: All	2	20	545	1.64	1.22	12.23
16	Wrangell	Spear Rd: All	1	10	258	1.82	1.17	11.67
17	Prince of Wales	Thorne Bay Rd: All	10	104	304	17.48	1.03	10.73
18	Juneau	Thane Rd: Ferry Way - End	14	184	1768	5.521	0.78	10.33
19	Prince of Wales	Big Salt Lake Rd: All	5	131	409	17.055	0.39	10.29
20	Haines	Haines Hwy/Lutak Rd: 2nd - End	5	63	805	4.34	0.78	9.88
21	Haines	Mud Bay Rd: All	7	65	528	7.88	0.92	8.56
22	Prince of Wales	Craig/Klawock/Hollis: Big Salt Lake - End	16	141	397	23.28	0.95	8.36
23	Skagway	Dyea Rd: All	7	34	266	8.42	1.71	8.32
24	Prince of Wales	Craig/Klawock/Hollis: Start - Big Salt Lake	10	202	1911	7.28	0.39	7.96
25	Haines	3rd Ave: Beginning - Haines Hwy	2	11	1486	0.52	1.43	7.86
26	Haines	Main St: Beginning - 2nd Ave	1	1	1363	0.06	6.70	6.70
27	Wrangell	Evergreen: All	1	10	907	1.04	0.58	5.81
28	Haines	Piedad Rd: All	1	1	252	0.38	5.72	5.72
29	Haines	Lutak: All	3	30	541	5.47	0.55	5.55
~~30~~	~~Haines~~	~~Haines Hwy: 3rd - End~~	~~42~~	~~168~~	~~478~~	~~39.60~~	~~1.22~~	~~4.86~~
31	Skagway	Broadway: All	4	13	1651	0.94	1.42	4.60
32	Wrangell	Zimovia Hwy: All	17	80	761	13.58	0.90	4.24
33	Yakutat	Airport Rd: All	3	21	835	3.48	0.56	3.96
34	Juneau	Fritz Cove Rd: All	7	16	996	2.51	1.53	3.51
35	Gustavus	Mountain View Rd.	2	11	617	3.5	0.50	2.79
36	Petersburg	Mitkof Hwy: All	22	67	514	32.21	0.72	2.22
37	Petersburg	Wrangell Ave: All	1	1	437	0.58	2.16	2.16
38	Skagway	Klondike: All	7	25	565	13.17	0.51	1.84

39	Prince of Wales	South Whale Pass Rd: All	1	1	39	8.34	1.68	1.68
40	Haines	2nd Ave: Beginning - Lutak Rd	1	1	888	0.41	1.51	1.51
41	Haines	Small Tracts: All	2	2	468	1.78	1.32	1.32
42	Wrangell	Bennett St: All	1	1	1224	0.36	1.26	1.26
43	Hyder	Salmon River Rd: All	1	10	429	11.95	0.10	1.07
44	Angoon	Kootznahoo Rd: All	2	2	591	2.78	0.66	0.67
45	Kake	Keku Rd: All	4	4	1038	15.42	0.13	0.14
46	Prince of Wales	North Prince of Wales: All	1	1	227	79.96	0.03	0.03

* Crashes / Million Vehicle Miles

** Weighted Crash Number / Million Vehicle Miles

II. QUALITY OF OPERATION SECTION

A. Quality of Operation at Signalized Intersections

Although it is desirable to analyze the quality of operation of all several hundred intersections within the region, DOT is unable to due to limited resources. Traffic signals generally control the busiest intersections. Therefore, monitoring signalized intersections provides a good measure of the effectiveness of the most important nodes in the region's highway network.

The quality of operation at signalized intersections is measured by determining the Level of Service (LOS) at each intersection. LOS is determined by counting the number of vehicles at an intersection during peak traffic hours and estimating delay using the signalized intersection analysis process as described in the 2000 federal standard, "*Highway Capacity Manual*" (*a publication of the Transportation Research Board).*

Six LOS are defined and are given letter designations, from A to F, with LOS A representing the best and LOS F the worst.

LOS is defined in terms of delay, which is a measure of driver discomfort and frustration, fuel consumption, and lost travel time. LOS ratings are defined as follows for signalized intersections:

Level of Service (LOS)	***Average stopped delay per vehicle (seconds)***	***Effect***
A	<=10.0	Most vehicles aren't stopped
B	10.1 to 20.0	Low delay
C	20.1 to 35.0	Significant number of stopped vehicles
D	35.1 to 55.0	Noticeable congestion - occasional cycle failure
E	55.1 to 80.0	Limit of acceptable delay - frequent cycle failure
F	> 80.0	Unacceptable delay

Table 8: Quality of Operation at Signalized Intersections

City	Intersection	Date of most recent count	Intersection						Comments
			AM Peak			PM Peak			
			Traffic Volume	Level of Service	Delay (Sec.)	Traffic Volume	Level of Service	Delay (Sec.)	
Juneau	Egan Drive/10th St	9/26/2006	2415	E	57.6	2948	D	49.4	
	Egan Drive/Loop Rd	8/1/2005	2808	D	55.0	3967	E	64.5	
	Egan Drive/Main St	11/13/2006	926	A	9.1	1263	B	12.2	
	Egan Drive/McNugget	8/14/2008	2644	C	21.8	3927	C	32.1	
	Egan Drive/Riverside	7/2/2009	2554	C	24.8	3975	F	*	
	Egan Drive/Salmon Ck	7/1/2009	1856	B	19.3	5305	F	*	
	Egan Drive/Vanderbilt	11/2/2007	2387	B	16.3	2543	C	23.4	
	Egan Drive/Whittier	8/5/2009	2378	B	12.1	3040	C	29.6	
	Glacier Hwy/Jordan	7/25/2005	934	A	5.1	1241	A	9.5	
	Glacier Hwy/Shell Simmons	7/25/2005	914	A	6.1	1428	B	12.6	
	Lemon Rd/Anka	4/16/2008	1124	B	10.4	1669	B	13.4	
	Lemon Rd/Walmart	10/7/2008	814	B	15.4	1171	B	15.4	
	Loop Rd/Atlin	5/27/2004	1913	B	15.1	2540	C	23.3	
	Loop Rd/Mendenhall Blvd	7/19/2005	989	B	17.8	1446	B	16.2	
	Loop Rd/Stephen Richards	10/22/2008	1546	C	28.8	1894	C	22.2	
	Riverside Dr/Vintage	7/1/2009	2362	D	40.8	3172	D	53.5	
	Riverside Dr/Riverwood	10/16/2008	881	B	11.4	974	A	7.3	
Ketchikan	Carlanna Lake Rd./Tongass	6/18/2008	1163	B	14.5	1709	C	23.3	
	Front St/Dock	6/11/2003	979	A	6.6	1341	B	15.7	
	Tongass/Jefferson St	5/17/2007	1269	B	17.6	1732	C	22.8	
	Tongass/Walmart	5/20/2004	762	A	7.4	971	B	10.5	
	Tongass/Washington St	5/17/2007	1102	A	9.1	1546	B	12.8	
Sitka	Halibut Pt. Road/Katlian	6/19/2003	954	B	11.9	1436	C	20.7	
	Lake/Lincoln	6/7/2006	822	B	17.1	1092	B	14.5	

* Denotes a delay greater than 100 seconds.

Note: Delay and Level of Service (LOS) were determined according to the 2000 Highway Capacity Manual.

B. Quality Of Operation at Unsignalized Intersections

There are different ways to measure quality of operation at unsignalized intersections, including direct delay measurement, capacity analysis, and signal warrant analysis. Signal warrant analysis has been used in this report because the data is readily available and it bears directly on the most common question asked about busy unsignalized intersections, "would that intersection work better with a signal?" The extent to which an intersection meets signal warrants is also indicative of its Level of Service. This section analyzes the region's busiest unsignalized and other selected principle intersections. This section includes stop and yield controlled intersections but does not include intersections with roundabouts, which is covered in Section C.

Determining whether intersections should be signalized is a two step process according to the *Manual on Uniform Traffic Control Devices* (MUTCD) published by the Federal Highway Administration. Intersections are first analyzed to see whether they meet any of the eight signal warrants defined in the MUTCD. If one of more of the warrants are met, an engineering study is performed to determine whether signalization will improve the overall intersection safety and/or operation. The MUTCD allows signals to be installed only if both steps yield positive results. Just because an intersection meets warrants does not mean it is the best treatment for an intersection.

Step one calculates signal warrants that are based on traffic volume, pedestrian volume, school crossings, crashes, signal coordination, or a combination of these warrants. Step one, determining whether warrants are met, is almost entirely a numerical process.

<u>Step two</u> is less determinate. Signals have both good and bad effects - as a general rule, they:

- Decrease peak hour side street delay
- Make peak hour entry from the side street less stressful
- Increase delay for main street traffic all day long
- Increase off-peak side street delay
- Facilitate pedestrian movement
- May have either a positive or negative effect on the number of crashes

The magnitude of these impacts depends to a large extent on traffic volume. The benefits of signalization are greater at higher traffic volumes while negative impacts are magnified at lower volumes. External factors such as spacing between adjacent intersections are also important to consider. All of these factors are weighed in determining whether a signal will improve intersection safety and operation.

This analysis is based on either two-hour or twelve hour volume counts. Warrants 1a, 1b, & 2 are analyzed with twelve hour data while warrant 3, the **peak hour** volume warrant, is analyzed with two hour data. The signal warrants analyzed in this report are those that are most commonly met. If other warrants are pertinent at a particular intersection, relevant information is included in the comments column.

The 8 signal warrants relate to the following issues:

Warrant 1:	Eight hour vehicular volume
Warrant 2:	Four hour vehicular volume
Warrant 3:	Peak hour volume
Warrant 4:	Pedestrian volume
Warrant 5:	School crossing
Warrant 6:	Coordinated signal system
Warrant 7:	Crash experience
Warrant 8:	Roadway Network (intersections of two or more major routes)

Of all the information in this report, signal warrant data is the easiest to misinterpret. It is important not to take the results of step one at face value without considering the practical questions raised by step two.

Table 9: Quality of Operation at Unsignalized Intersections

Intersection	Most recent count	Total Entering Volume Pk. Hour	MUTCD Signal Warrants (% of attainment) W1A	W1B	W2	W3	Comments
Juneau							
Back Loop/Montana Creek Rd PM	5/10/2008	489				27%	
Douglas/Cordova PM	4/16/2004	1056				38%	Poor signal location due to proximity to roundabout
Egan/12th (12 hr)	7/16/2002	2180		63%	25%	113%	Poor signal location, also entrance to Harris Harbor
Egan/8th Ave. PM	5/1/2008	1804				106%	Poor signal location due to alignment
Egan/9th Ave. PM	4/30/2008	1615				4%	
Egan/Aurora Harbor Entrance AM	8/19/2003	2186				21%	
Egan/Glacier Ave. Spur PM	10/2/2008	1581				39%	
Egan/Harbor Masters Entrance (12 hr)	4/4/2002	2369		13%		27%	Also entrance to the UAS Marine Tech Bldg.
Egan/Highland Dr. PM	10/9/2008	2412				62%	
Glacier/ Sunny Drive Access							New interchange. Need Count
Egan/Vintage PM	4/29/2008	1920				204%	Poor signal location due to alignment
Egan/Whittier PM	10/31/2007	1420				64%	Signal to be installed
Egan/Willoughby PM	11/8/2006	1261				208%	Poor signal location due to alignment
Egan/Yandukin PM	9/28/2000	3426				449%	Operation okay without signal. Traffic not delayed.
Glacier Ave/10th Ave PM	7/3/2003	1024				36%	
Glacier Ave/12th AM	10/1/2008	731				55%	
Glacier Ave/Highland AM	5/28/2002	680				33%	
Glacier Ave/Whittier PM	4/4/2002	528				18%	
Glacier/Fritz Cove PM	7/20/2005	1168				27%	
Glacier/Glacier Hwy. North PM	8/12/2003	1169				64%	
Glacier/Industrial PM	7/21/2005	1593				389%	Operation okay without signal.
Glacier/Hospital PM	10/17/2001	611				69%	
Glacier/Old Dairy/Trout Noon	7/2/2008	1653				91%	Poor signal location
Lemon Rd. (Glacier) Concrete PM	4/15/2008	1244				54%	
Lemon Rd. (Glacier)/Davis PM	8/2/2005	1213				37%	
Lemon Rd. (Glacier)/Lemon Spur PM	12/18/2001	1016				59%	Road behind Fred Meyer
Lemon Rd. (Glacier)/Renninger AM	4/14/2008	1018				62%	Access road to DZ School
Lemon Rd. (Glacier)/Sunny Dr.							New construction. Need count.
Loop/Back Loop PM	4/21/2004	772				55%	Good roundabout location
Loop/Cinema PM	4/26/2004	1897				39%	
Loop/Dudley PM	5/25/2004	1550				15%	
Loop/Floyd Dryden AM	5/28/2003	1127				51%	Controlled by x-ing guards. HAWK installed.
Loop/Floyd Dryden 3PM	9/27/2005	1054				36%	Controlled by x-ing guards. HAWK installed.
Loop/Grant AM	4/22/2004	508				24%	
Loop/James AM	7/21/2004	1475				40%	
Loop/Kimberly AM	11/18/2004	612				13%	
Loop/McGinnus PM	4/26/2004	1453				38%	

Intersection	Most recent count	Total Entering Volume Pk. Hour	MUTCD Signal Warrants (% of attainment)				Comments
			W1A	W1B	W2	W3	
Juneau (cont.)							
Loop/Nancy AM	5/26/2004	1613				84%	Operation okay without signal, poor alignment
Loop/Nancy PM	5/26/2004	2071				24%	Operation okay without signal, poor alignment
Loop/Taku AM	4/23/2004	673				46%	
Loop/Thunder Mtn. AM	11/19/2004	839				20%	
Loop/Tongass PM	4/28/2004	1465				20%	
Riverside/Stephan Richards PM	10/21/2008	1004				59%	
Yandukin/Crest PM	12/20/2001	220				0%	
Yandukin/Old Dairy PM	12/21/2001	317				0%	
Ketchikan							
Front/Mission (12 hr)	6/10/2003	1298				0%	W4 (Pedestrian) met in summer
Mill (S. Tong.)/Bawden PM	6/5/2003	973				42%	
Mill (S. Tong.)/Main PM	6/13/2003	1076				62%	W4 (Pedestrian) met in summer
N. Tongass/Bryant+FT PM	6/12/2003	1403				37%	Includes AMHS Ferry Terminal traffic
N. Tongass/Post Office PM	6/2/2003	1428				65%	
Tongass/3rd Ave. PM	5/13/2002	1584				25%	
Tongass/Deermount PM	6/3/2003	885				40%	
Tongass/Schoenbar PM	6/3/2003	1831				77%	
Tongass/Totem Row AM	5/2/2006	416				10%	
Petersburg							
Main/Haugen Drive (12 hr)	6/6/2002	760	63%			49%	
Nordic / Gjoa	6/5/2002	674				25%	
Sitka							
HPR/Cascade/Seamart PM	6/19/2003	872				21%	
Lake/Sawmill/HPR PM	7/19/2001	1479				113%	Roundabout completed.
Sawmill Crk Rd/Indian River PM	7/18/2001	927				18%	

The quality of operation at unsignalized intersections can also be measured by determining the Level of Service (LOS) at each intersection. LOS is determined by counting the number of vehicles at an intersection during peak traffic hours and estimating delay using the unsignalized intersection analysis process as described in the 2000 *Highway Capacity Manual*.

Unlike signalized intersections, average delay at unsignalized intersections is not indicative of the overall intersection operation. The major street never has to stop for through or right movements, and often only briefly for left turns. Therefore the LOS from the side street critical movement is used to determine the quality of operation for the intersection.

The LOS also deteriorates faster as delay increases for unsignalized intersections than for signalized intersections. This is because a driver at a signalized intersection inherently knows that he or she will eventually get a green light. A motorist at a stop controlled intersection must find an acceptable gap in traffic and is more likely to become nervous or frustrated after a long wait.

LOS is defined in terms of delay, which is a measure of driver discomfort and frustration, fuel consumption, and lost travel time. LOS ratings are defined as follows for unsignalized intersections:

Level of Service (LOS)	***Average stopped delay per vehicle (seconds)***	***Effect***
A	<=10.0	Most vehicles aren't stopped
B	10.1 to 15.0	Low delay
C	15.1 to 25.0	Significant number of stopped vehicles
D	25.1 to 35.0	Noticeable congestion
E	35.1 to 50.0	Limit of acceptable delay
F	> 50.0	Unacceptable delay

Level of Service F is the point where traffic breaks down with more vehicles arriving than departing. Once an intersection reaches LOS F, delay is difficult to accurately calculate and depends on the traffic patterns before and after the analysis. For this reason, delay calculated above 100 seconds will be denoted with an asterisk (*).

Table 9A: Level of Service (LOS) at Unsignalized Intersections

(Unless otherwise noted, information refers to the PM peak hour)

City	Intersection	Date of most recent count	Intersection						Comments
			AM Peak			PM Peak			
			Traffic Volume	Level of Service	Delay (Sec.)	Traffic Volume	Level of Service	Delay (Sec.)	
Juneau	Back Loop/Montana Creek Rd	05/10/2008	320	B	10.7	489	B	11.9	
	Douglas/Cordova	04/16/2004	826	C	22.5	1056	D	26.6	
	Egan/12th Ave.	08/11/2009	3585	B	4.9	4569	E	33.1	10th / Egan provides main access
	Egan/8th Ave.	05/01/2008	1520	D	34.1	1804	F	97.9	
	Egan/9th Ave.	04/30/2008	1527	C	16.1	1615	B	10.0	
	Egan/Aurora Harbor Entrance	08/19/2003	2186	E	40.9	2710	D	33.0	
	Egan/Glacier Ave. Spur	10/02/2008	1301	A	9.5	1581	C	15.6	
	Egan/Harbor Master's Entrance	04/04/2002	2210	D	29.4	2369	F	63.8	
	Egan/Highland Dr	10/09/2008	2198	B	12.9	2412	D	26.9	
	Egan/Vintage	04/29/2008	1330	F	71.0	1920	F	*	Operation OK w/ Rt Turns Only
	Egan/Whittier	10/31/2007	1096	D	31.5	1420	F	50.1	Signal to be installed.
	Egan/Willoughby	11/08/2006	1034	D	26.9	1261	C	22.3	
	Egan/Yandukin	09/28/2000	2589	D	32.6	3426	E	39.8	Lt turns delay listed only, Rt turns yield to Egan thru traffic
	Glacier Ave/10th	07/03/2003	576	C	16.4	1024	F	69.8	
	Glacier Ave/12th	10/01/2008	731	B	13.6	690	B	10.1	4 way stop, average intersection delay listed
	Glacier Ave/Highland	05/28/2002	680	C	20.1				PM counts unavailable
	Glacier Ave/Whittier	04/04/2002	430	B	10.9	528	C	16.4	
	Glacier/Fritz Cove	07/20/2005	805	C	18.0	1168	E	38.7	
	Glacier/Glacier Hwy N.	08/12/2003	713	D	27.1	1169	C	16.2	
	Glacier/Hospital Dr	10/17/2007	611	C	19.0	669	C	18.9	
	Glacier/Industrial	07/21/2005	1194	E	49.8	1593	F	*	Major delay is for vehicles turning left from trail parking lot. Vehicles can turn Rt, turn around at Job Ctr & turn Rt again.
	Glacier/Old Dairy/Trout	07/22/2005	1128	F	*	1664	F	*	
	Lemon Rd. (Glacier)/Concrete Way	04/15/2008	1025	C	23.2	1244	D	32.9	
	Lemon Rd. (Glacier)/Davis	08/02/2005	791	D	25.2	1213	D	31.9	
	Lemon Rd. (Glacier)/Lemon Spur	12/18/2001	507	B	12.4	1016	E	36.5	
	Lemon Rd. (Glacier)/Renninger	04/14/2008	1018	D	27.4	1091	C	24.5	Dzantik'i Heeni Entrance
	Lemon Rd. (Glacier)/Sunny Dr.								Sunny Point interchange complete. Need count.
	Loop/Back Loop	04/21/2004	528	B	11.3	772	C	16.9	
	Loop/Cinema	04/26/2004	1436	D	26.7	1897	E	39.5	
	Loop/Dudley	05/25/2004	1144	B	13.9	1550	D	27.1	
	Loop/Floyd Dryden	05/28/2003	1315	F	*	1054	D	31.5	X-ing Guards help move traffic. HAWK installed.
	Loop/Grant	04/22/2004	508	B	12.7	713	B	13.8	
	Loop/James	07/21/2004	1475	C	20.3	2221	C	22.2	
	Loop/Kimberly	11/18/2004	612	B	12.9	769	B	12.1	
	Loop/McGinnis	04/26/2004	1143	C	18.1	1453	C	18.7	
	Loop/Nancy	05/26/2004	1613	E	38.2	2071	D	27.4	Lane configuration helps facilitate Lt turns from Nancy
	Loop/Taku	04/23/2004	673	B	13.9	732	B	13.5	

City	Intersection	Date of most recent count	Intersection						Comments
			AM Peak			PM Peak			
			Traffic Volume	Level of Service	Delay (Sec.)	Traffic Volume	Level of Service	Delay (Sec.)	
Juneau (Cont)	Loop/Thunder Mtn.	11/19/2004	551	B	12.1	839	C	16.4	
	Loop/Tongass	04/28/2004	1139	B	11.8	1465	C	24.1	
	Riverside/Stephen Richards	10/21/2008	831	C	18.5	1004	C	20.1	4 way stop, average intersection delay listed
	Yandukin / Crest	12/20/2001	191	A	9.8	220	A	9.9	
	Yandukin / Old Dairy	12/21/2001	181	A	9.8	256	B	10.2	
Ketchikan	Front / Mission	06/10/2003	912, 66 peds	A	5.9	1040, 307 peds	A	5.0	
	Mill / Bawden	06/13/2003	674, 59 peds	C	18.2	937, 60 peds	E	50.0	
	Main / Mill	06/05/2003	739, 312 peds	F	*	1076, 78 peds	E	49.5	Major delay occurs during summer. LOS D with low #s of Peds.
	Main / Mill	05/25/2001	908, 1093 peds	F	*				Mid-Day Count
	N. Tongass / Bryant / FT	06/12/2003	1116	E	44.2	1403	F	66.7	
	N. Tongass / Post Office	06/02/2003	975	C	17.0	1428	F	71.8	
	Tongass / 3rd Ave	05/13/2002	1394	C	19.3	1584	D	31.1	
	Tongass / Deermount	06/03/2003	624	B	14.6	885	C	17.3	
	Tongass / Schoenbar	06/03/2003	1208	F	*	1831	F	*	Monitoring situation. Will make changes as deemed feasible.
	S. Tongass / Totem Row	05/02/2006	416	B	10.6	424	A	9.8	
Petersburg	Nordic / Haugen Dr.	06/05/2002	553	B	12.4	760	C	17.8	
	Nordic / Gjoa	06/06/2002				674	B	12.7	AM counts unavailable
Sitka	HPR / Cascade / Seamart	06/19/2003	535	C	17.8	872	D	26.2	
	Lake / Sawmill / HPR	07/23/2001	1040	C	16.9	1479	F	70.1	Roundabout complete.
	Sawmill Crk / Indian River	07/18/2001	638	B	11.9	927	B	12.8	

Note: Delay and Level of Service (LOS) were determined according to the 2000 Highway Capacity Manual.

* denotes a delay greater than 100 seconds for the critical movement

C. Quality Of Operation at Roundabouts

For congested intersections, roundabouts are an alternative form of traffic control to signals and stop signs. Roundabouts are able to accommodate moderate to large traffic volumes with minimal delay. Furthermore, traffic operates much more efficiently than traffic signals at off-peak hours because traffic is not unnecessarily delayed while waiting for a red light to change. As of 12/31/09, there are roundabouts in Southeast Alaska, the facility in Sitka having been commissioned in September of 2009.

The quality of operation at roundabout intersections is measured by determining the Level of Service (LOS) at each intersection. LOS is determined by counting the number of vehicles at an intersection during peak traffic hours and estimating delay using the signalized intersection analysis process as described in the *NCHRP Report 572, "Roundabouts in the United States"*, (2008).

Six LOS are defined and are given letter designations, from A to F, with LOS A representing the best and LOS F the worst.

LOS is defined in terms of delay, which is a measure of driver discomfort and frustration, fuel consumption, and lost travel time. Delay times relate to Level of Service similar to stop controlled intersections. LOS ratings are defined as follows for intersections with roundabouts:

Level of Service (LOS)	***Average control delay per vehicle (seconds)***	***Effect***
A	<=10.0	Most vehicles do not have to wait
B	10.1 to 15.0	Low delay
C	15.1 to 25.0	Significant wait before entering roundabout
D	25.1 to 35.0	Noticeable congestion
E	35.1 to 50.0	Limit of acceptable delay
F	> 50.0	Unacceptable delay

Table 10: Quality of Operation at Roundabouts

City	Intersection	Date of most recent count	Intersection						Comments
			AM Peak			PM Peak			
			Traffic Volume	Level of Service	Delay (Sec.)	Traffic Volume	Level of Service	Delay (Sec.)	
Juneau	Douglas Hwy/N. Douglas	10/14/2008	1246	B	12.1	1482	C	19.7	

III. Vehicle Classification Section

Vehicle classification is the process by which the mix of traffic (percentage of trucks, cars, and other vehicles) is determined. There are 13 federal vehicle classifications, of which nine deal with trucks exclusively. For the purpose of this report, only the four most common classes (motorcycles, cars, pickups, and trucks) are listed in Table 11. Written descriptions of the Federal Highway Administration (FHWA) vehicle classifications and a graphical drawing are also included in this section.

Although familiar class names such as a car or pickup readily recall familiar vehicle types to one's mind, the reader should be aware that vehicle classification is based on the number of axles and the spacing between axles, not vehicle appearance. Consequently, class names sometimes do not match all vehicles included in the class. For example, errors occur when long, full-size cars are classified as pickups and short pickups are classified as compact cars. However, axle-based classification provides the information most important to highway designers and is the agreed upon standard.

Several one-week classification studies are conducted annually in this region. The studies are made with electronic counting equipment connected to rubber road tubes fastened across the roadway. Every year the FHWA directs the Traffic Section to conduct class studies at specific locations, usually on major thoroughfares. Many classification sites may be counted once, then not recounted because FHWA chooses a preferable or more representative class count location.

Seasonal fluctuations in traffic volumes can be substantial in Alaska and are an important factor in vehicle classification. Due to snowplowing operations and cold winter temperatures, the Traffic Section does not conduct rubber road tube classifications during the winter months. Typically the vehicle classification studies are done between May and October. Therefore, class counts reflect peak traffic and tourist volumes during the spring to fall conditions only. To correct for seasonal fluctuations, one needs to review permanent traffic recorder data. See the *Permanent Traffic Recorder Data* section.

2008 classification counts showed a substantial increase in truck traffic across Southeast Alaska. This is largely due to the recent increase in pickup and SUV size. Vehicles such as the Chevy Suburban and the Ford F350 (sometimes even an F250) register as a heavy truck, as opposed to a regular pickup.

FHWA VEHICLE TYPES

The vehicle types of interest to FHWA are described below. The classification scheme is separated into categories depending on whether the vehicle carries passengers or commodities. Non-passenger vehicles are further subdivided by number of axles and number of units including both power and trailer units.

A. FHWA VEHICLE CLASS DEFINITIONS

Type Name and Description:

1. **Motorcycles** (Optional) - All two-or three-wheeled motorized vehicles. Typical vehicles in this category have saddle type seats and are steered by handlebars rather than wheels. This category includes motorcycles, motor scooters, mopeds, motor-powered bicycles, and three-wheel motorcycles. This vehicle type may be reported at the option of the State.

2. **Passenger Cars** - All sedans, coupes, and station wagons manufactured primarily for the purpose of
carrying passengers and including those passenger cars pulling recreational or other light trailers.

3. **Other Two-Axle, Four-Tire Single Unit Vehicles** - All two-axel, four-tire vehicles, other than passenger cars. Included in this classification are pickups, panels, vans, and other vehicles such as campers, motor homes, ambulances, hearses, and carryalls. Other two-axle, four-tire single unit vehicles pulling recreational or other light trailers are included in this classification.

4. **Buses** - All vehicles manufactured as traditional passenger-carrying buses with two axles and six tires or three or more axles. This category includes only traditional buses (including school buses) functioning as passenger-carrying vehicles. Modified buses should be considered as trucks and be appropriately classified.

NOTE: In reporting information on trucks the following criteria should be used:

a. Truck tractor units traveling without a trailer will be considered single unit trucks.
b. A truck tractor unit pulling other such units in a "saddle mount" configuration will be considered as a one single unit truck and will be defined only by the axles on the pulling unit.
c. ~~Vehicles shall be defined by the number of axles in contact with the roadway.~~ Therefore, "floating" axles are counted only when in the down position.
d. The term "trailer" includes both semi-and full trailers.

5. **Two-Axle, Six-Tire, Single Unit Trucks** - All vehicles on a single frame, including trucks, camping and recreational vehicles, motor homes, etc., having two axles and dual rear wheels

6. **Three-Axle Single Unit Trucks** - All vehicles on a single frame, including trucks, camping and recreational vehicles, motor homes etc., having three axles.

7. **Four or More Axle Single Unit Trucks** - All trucks on a single frame with four or more axles.

8. **Four or Less Axle Single Trailer Trucks** - All vehicles with four or less axles consisting of two units, one of which is a tractor or straight truck power unit.

9. **Five-Axle Single Trailer Trucks** - All five-axle vehicles consisting of two units, one of which is a tractor or straight truck power unit.

10. **Six or More Axle Single Trailer Trucks** - All vehicles with six or more axles consisting of two units, one of which is a tractor or straight truck power unit.

11. **Five or Less Axle Multitrailer Trucks** - All vehicles with five or less axles consisting of three or more units, one of which is a tractor or straight truck power unit.

12. **Six-Axle Multitrailer Trucks** - All six-axle vehicles consisting of three or more units, one of which is a tractor or straight truck power unit.

13. **Seven or More Axle Multitrailer Trucks** - All vehicles with seven or more axles consisting of three or more units, one of which is a tractor or straight truck power unit.

Table 11: Vehicle Classification 1999 - 2009

City	Road Name	Study Date	Mile	Location	Motor-cycles	Cars	Pick-ups	Trucks
Angoon	Kootzanhoo Inlet Rd	2008	2.344	Seaplane Access - End	0.0%	66.8%	24.5%	8.7%
Haines	Haines Hwy.	2007	0.92	Mud Bay Rd - Sawmill Rd	2.0%	52.5%	31.3%	14.2%
Haines	Haines Hwy.	2009	1.315	Sawmill Rd - Airport	1.3%	50.1%	33.5%	15.1%
Haines	Haines Hwy.	2007	15.199	Milepost 12 - Kluckwan	0.5%	56.9%	27.8%	14.7%
Haines	Haines Hwy.	2003	23.343	Kluckwan - Misquito Lake Rd.	0.1%	54.6%	36.8%	8.5%
Haines	Haines Hwy.	2005	28.324	Mosquito Lake - Big Boulder Cr	0.9%	56.1%	36.5%	6.5%
Haines	Haines Lutak Rd	2007	4.016	Ferry - Front St.	2.4%	43.7%	29.2%	24.8%
Haines	Old Haines Hwy.	2003	0.238	Haines Hwy - Beach Rd.	1.0%	58.1%	32.8%	8.1%
Hoonah	Hoonah Airport Rd	2007	0.25	Ferry - Seaplane Float	1.0%	42.1%	36.1%	20.8%
Hyder	Salmon River Rd	2008	0.1	Hyder - Canadian Customs	2.0%	42.2%	2.6%	53.3%
Hyder	Salmon River Rd	2007	10.68	North City Limits	3.9%	41.0%	26.1%	29.1%
Juneau	Back Loop Rd.	2007	0.037	Glacier Spur - Tournere	0.4%	73.3%	18.9%	7.4%
Juneau	Egan Drive	2001	2.579	3 Mile Egan Drive	0.3%	77.2%	17.9%	4.6%
Juneau	Egan Drive	2003	5.87	Sunny Pt - Vanderbilt	0.3%	75.4%	20.1%	4.2%
Juneau	Egan Drive	2004	6.527	Sunny Pt - Yandukin	0.4%	73.9%	20.0%	5.7%
Juneau	Egan Drive	2004	7.961	McNugget - Yandukin	0.0%	77.1%	19.2%	3.7%
Juneau	Glacier Highway - Egan	2007	9.256	Engineers Cutoff - Glacier Hwy North	0.4%	64.2%	23.1%	12.3%
Juneau	Glacier Highway - Egan	2007	10.977	Fritz Cove Rd. - Back Loop Rd.	0.5%	75.2%	18.7%	5.7%
Juneau	Glacier Highway - Egan	2007	11.672	Waydelich Cr Br - N Jct Mend. Loop	0.6%	61.8%	25.9%	11.7%
Juneau	Glacier Highway - Egan	2008	19.633	Shrine of St Therese - Pt. Stephens	1.3%	64.8%	23.3%	10.6%
Juneau	Glacier Highway - Egan	2007	21.781	Dotson's Landing - .1 Mi. N. of Shrine	0.2%	68.1%	23.2%	8.5%
Juneau	Glacier Highway - Will	1999	1.256	Ross Way - Highland Dr	1.4%	77.9%	14.2%	6.6%
Juneau	Industrial Blvd.	2007	0.063	Glacier Hwy - Bentwood	0.4%	49.7%	28.3%	21.6%
Juneau	Lemon Road (Glacier)	2007	1.179	Lemon Spur - DOT Access	0.6%	69.3%	16.5%	13.6%
Juneau	Lemon Road (Glacier)	2007	1.334	DOT - Sunny Dr	0.1%	69.8%	14.3%	15.8%
Juneau	Lemon Road (Glacier)	2007	1.509	Sunny Dr - Walmart	1.2%	68.2%	20.4%	10.2%
Juneau	Lemon Road (Glacier)	2007	1.88	Walmart - Davis Ave.	0.3%	66.2%	21.5%	12.0%
Juneau	Lemon Road (Glacier)	2007	2.305	Davis St. - Twin Lakes Dr.	0.3%	72.0%	19.0%	8.6%
Juneau	Lemon Road (Glacier)	2007	3.311	Twin Lakes Dr. - Egan	0.2%	67.3%	23.0%	9.5%
Juneau	Mendenhall Blvd.	2007	0.365	Mendenhall Loop - End	0.4%	71.0%	19.5%	9.1%
Juneau	Mendenhall Loop Rd.	2007	0.648	James - Stephen Richards	0.2%	70.7%	21.0%	8.0%
Juneau	Mendenhall Loop Rd.	2002	1.397	S Richards - Floyd Dryden	0.4%	74.6%	20.2%	4.8%
Juneau	Montana Creek Rd.	2007	0.196	Mendenhall Loop - Skaters Cabin	0.3%	67.7%	23.0%	9.0%
Juneau	N. Douglas Hwy	2007	0.014	J/D Bridge - M.P. 2	0.9%	68.0%	20.6%	10.6%
Juneau	N. Douglas Hwy	2007	2.104	Eaglecrest - Heliport	0.7%	70.3%	20.4%	8.6%
Juneau	N. Douglas Hwy	2007	8.034	Fish Creek Bridge - Boat Ramp	1.4%	63.0%	16.3%	19.2%
Juneau	Old Dairy Rd.	2002	0.337	Crest - Yandukin	0.2%	68.4%	24.1%	7.3%
Juneau	Riverside Dr.	2007	0.286	Vintage - James	1.0%	70.8%	20.9%	7.3%
Juneau	Twin Lakes Dr.	2007	0.779	Craig - Blackerby	6.3%	68.3%	18.0%	7.4%
Kake	Kake - Keku Rd	2007	1.19	Little Gunnuk Creek - Big Gunnuk Creek	1.1%	54.0%	39.0%	5.9%
Ketchikan	N. Tongass Hwy	2008	0.405	Carlanna Creek Br - Shorline Drive	0.6%	63.1%	25.1%	11.2%
Ketchikan	N. Tongass Hwy	2009	1.334	Rose's Caboose	0.1%	65.1%	29.3%	5.5%
Ketchikan	N. Tongass Hwy	2000	1.734	North Shorline Dr - South Shoreline Dr	0.2%	66.5%	25.7%	7.6%
Ketchikan	N. Tongass Hwy	2004	4.625	Ward Lake Rd - Mill Entrance	0.8%	64.1%	27.9%	7.3%
Ketchikan	N. Tongass Hwy	2007	8.985	Beechwood Dr. - Pond Reef Rd.	1.4%	58.5%	27.0%	13.1%
Ketchikan	N. Tongass Hwy	2007	11.271	N. Point Higgins - Big Turnout	2.6%	59.4%	28.5%	9.5%
Ketchikan	N. Tongass Hwy	2007	14.403	1st waterfall Cr. - End	4.5%	57.5%	18.6%	19.3%
Ketchikan	Revillla Rd.	2007	7.478	White River Spur - Harriet Hunt Lake	2.2%	53.4%	30.0%	14.5%
Ketchikan	Roosevelt Dr.	2007	1.2	Franklin - Jct. w/ S. Tongass	0.9%	49.5%	22.0%	27.6%
Ketchikan	S. Tongass Hwy	2001	1.651	Shoenbar - Water St	0.4%	72.5%	21.9%	5.1%
Ketchikan	S. Tongass Hwy	1999	2.023	Grant St. - Mission St.	0.5%	72.1%	20.9%	6.6%
Ketchikan	S. Tongass Hwy	2002	2.371	Barney Way - Deermont	0.4%	69.2%	23.7%	6.7%
Ketchikan	S. Tongass Hwy	2008	3.649	USCG - Gunner St.	0.9%	61.9%	23.8%	13.4%
Ketchikan	S. Tongass Hwy	2002	4.44	Gunner St. - Totem P. Row	0.1%	71.1%	22.6%	6.2%
Ketchikan	S. Tongass Hwy	2008	9.586	Roosevelt - Power House Spur	1.2%	60.8%	24.5%	13.5%
Ketchikan	Schoenbar	2007	0.02	Park Ave. - Forest	1.1%	69.0%	21.6%	8.4%

Table 11: Vehicle Classification 1999 - 2009

City	Road Name	Study Date	Mile	Location	Motor-cycles	Cars	Pick-ups	Trucks
P.O.W.	Big Salt Lake Road	2001	0.002	Craig/Klawock Hwy - Bennet Creek Br	0.5%	48.9%	37.8%	12.7%
P.O.W.	Big Salt Lake Road	1999	3.324	Airport Rd - Duke Creek Bridge	0.2%	36.4%	46.2%	17.2%
P.O.W.	Craig to Hollis Hwy	2005	0.698	Craig City Limits - MP 6 Klawock	0.7%	57.3%	32.4%	9.5%
P.O.W.	Craig to Hollis Hwy	2004	8.931	Hatchery - Hydaburg Rd	0.1%	48.2%	31.3%	20.4%
Petersburg	Haugen Dr.	2007	0.003	Mitkof Hwy - 6th Street	2.0%	63.6%	23.2%	11.1%
Petersburg	Haugen Dr.	2007	0.395	6th St - Hammer	0.6%	60.0%	31.6%	7.9%
Petersburg	Haugen Dr.	2007	1.378	Airport - Sandy Beach	1.1%	59.5%	23.9%	15.5%
Petersburg	Mitkof Hwy.	2007	8.866	Twin Creek Trailer Park - Falls Creek Br.	0.3%	45.6%	37.3%	16.7%
Petersburg	Mitkof Hwy.	2007	15.446	Swan Observatory - Crystal Lake Hatch	2.4%	47.4%	31.9%	18.3%
Petersburg	Nordic Dr.	2007	0.28	Middleton - Harder Street	0.4%	58.1%	30.6%	10.9%
Petersburg	Nordic Dr.	2007	1.194	Sing Lee Alley - Ferry Term	1.5%	64.7%	18.7%	15.1%
Sitka	Halibut Pt. Road	2007	2.022	Harbor Mt. Rd - Cascade Cr. Rd.	0.7%	60.3%	25.7%	13.3%
Sitka	Halibut Pt. Road	2003	4.251	Granite Creek. - Harbor Mountain Rd	0.3%	60.5%	31.2%	8.0%
Sitka	Kaltian Ave.	2007	0.074	H.P.R. - Thompson Harbor	1.5%	64.1%	25.3%	9.1%
Sitka	Katlian Ave.	2003	0.247	Thompson Harbor - Cold Storage	1.1%	68.7%	25.2%	5.0%
Sitka	Lake St.	2004	0.371	Lake Street	1.1%	66.3%	28.6%	4.0%
Sitka	Rodman Bay Rd.	2002	6.646	At Starrigavan Creek Bridge	1.2%	69.4%	25.0%	4.4%
Sitka	Sawmill Ck. Road	2007	0.166	Lake - Jeff Davis	1.0%	61.4%	25.9%	11.8%
Sitka	Sawmill Ck. Road	2008	1.21	USPS - Rookies Night Club	0.6%	65.1%	28.9%	5.5%
Sitka	Sawmill Ck. Road	2007	4.276	Thimbleberry Creek - Mill	3.3%	59.6%	27.8%	9.3%
Skagway	Dyea Road	2008	5.576	Observation Pt - Taiya River Bridge	1.7%	44.0%	29.0%	25.3%
Skagway	Klondike Hwy	2008	0.996	8th - 12th St	2.6%	43.9%	27.7%	25.9%
Skagway	Klondike Hwy	2004	1.696	22nd - Dyea Rd.	0.9%	46.7%	29.9%	22.4%
Skagway	Klondike Hwy	2009	2.584	Dyea Rd. - Sanitarium Rd.	0.9%	42.0%	33.2%	23.9%
Skagway	Klondike Hwy	2008	11.669	Sanitorium Rd. - U.S. Customs	2.3%	47.2%	17.1%	33.4%
Wrangell	Airport Rd.	2007	0.71	East Rd. - Airport	0.4%	57.4%	32.5%	9.7%
Wrangell	Bennet	2007	0.003	Zimovia - East Rd	1.1%	56.2%	33.0%	9.7%
Wrangell	Spear (Wrangel East)	2007	0.911	Near Shooting Range	2.2%	54.2%	32.1%	11.5%
Wrangell	Stikine / Evergreen	2007	0.24	Ferry Terminal - Landfill	1.1%	61.0%	32.6%	5.4%
Wrangell	Zimovia Hwy.	2007	1.294	Case Ave - MP 2	0.8%	57.4%	32.4%	9.4%
Wrangell	Zimovia Hwy.	2007	2.231	MP 2 - Wrangel Inst.	0.7%	58.1%	32.0%	9.3%
Wrangell	Zimovia Hwy.	2007	4.524	Wrangell Institute - Shoemaker Rd.	0.5%	57.0%	26.2%	16.4%
Wrangell	Zimovia Hwy.	2007	10.195	Pat Creek - End	0.0%	20.3%	21.9%	57.8%

Notes: 1) 2006 vehicle classification counts were not included because collected data was corrupt.

IV. TRAFFIC VOLUME SECTION

A. Historical Population Growth Rates

This section shows historic population growth rates. Table 12 includes population estimates from 1980 through 2008 that were calculated by the Alaska Department of Labor, Research and Analysis Section, Demographics Unit.

One of the most important factors in planning future road systems is determining the annual rate of traffic volume, or ADT, growth. Although historical population growth does not necessarily predict future trips, it is a simple indicator of the combined effect of the many complex state, local, societal, and economic factors which impact traffic volume growth. It is important to note that there is no direct relationship between population changes and traffic volume changes. Even so, population change is an important indicator of changing traffic volumes. Where no actual traffic counts have been done it is often the only means of projecting future traffic volumes. Where counts have been done it helps to verify volumes which might otherwise be in question.

Table 12 contains some known weaknesses. Several of the smaller cities had data gaps. Also there are several years with missing data (1981, 1987, & 1989). For those years we performed a straight-line interpolation. For the most recent years (1991-2008), however, the data is complete. The table gives a good overview of long term trends of these southeast communities.

Table 12: Southeast Region Population Estimates

2000-2009											%*
Area Name	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**Change**
Haines Borough	2,392	2,368	2,357	2,319	2,245	2,207	2,241	2,257	2,322	2,286	-0.45%
Juneau/ City and Borough	30,711	30,371	30,899	31,656	31,142	31,193	30,650	30,305	30,405	30,661	-0.02%
Ketchikan Gateway Borough	14,059	13,742	13,676	13,533	13,030	13,125	13,174	13,160	12,980	12,984	-0.79%
Prince of Wales Borough	6,157	5,814	5,680	5,594	5,548	5,497	5,477	5,328	5,358	5,392	-1.32%
Sitka City/Borough	8,835	8,724	8,799	8,897	8,805	8,947	8,833	8,640	8,641	8,627	-0.24%
City Name	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**Change**
Angoon	572	559	544	507	481	497	482	478	429	442	-2.55%
Gustavus	429	418	421	438	473	459	441	442	446	451	0.50%
Hoonah	860	875	877	850	841	861	829	852	819	764	-1.18%
Kake	710	697	701	683	663	598	536	535	519	497	-3.50%
Metlakatla	1,447	1,416	1,418	1,397	1,302	1,397	1,377	1,335	1,370	1,385	-0.44%
Petersburg	3,224	3,218	3,148	3,079	3,123	3,155	3,129	3,071	3,010	2,973	-0.81%
Skagway	862	837	843	844	870	834	854	845	846	865	0.03%
Wrangell	2,308	2,220	2,175	2,123	2,023	1,974	1,911	1,947	1,939	1,892	-1.97%
Yakutat	680	641	664	635	619	618	609	596	592	628	-0.79%

1990-1999											%**
Area Name	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**	**1998**	**1999**	**Change**
Haines Borough	2,117	2,242	2,230	2,293	2,331	2,280	2,352	2,404	2,461	2,475	1.23%
Juneau/ City and Borough	26,751	27,579	28,253	28,448	28,454	28,700	29,230	29,713	30,021	30,189	1.39%
Ketchikan Gateway Borough	13,828	14,255	14,636	14,716	14,751	14,764	14,654	14,500	14,143	13,961	0.17%
Prince of Wales Borough	6,278	6,551	6,608	6,797	6,774	6,734	6,996	6,873	6,830	6,589	-0.19%
Sitka City/Borough	8,588	8,878	9,059	9,083	8,941	8,868	8,650	8,708	8,722	8,681	0.28%
City Name	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**	**1998**	**1999**	**Change**
Angoon	638	665	636	636	610	601	605	570	586	576	-1.09%
Gustavus	258	256	279	288	314	319	344	340	371	377	5.22%
Hoonah	795	796	843	871	885	877	902	890	892	877	0.79%
Kake	700	711	727	725	695	703	727	756	775	745	0.14%
Metlakatla	1,407	1,489	1,531	1,518	1,520	1,522	1,563	1,523	1,502	1,472	0.28%
Petersburg	3,207	3,282	3,314	3,307	3,261	3,310	3,388	3,410	3,399	3,415	0.05%
Skagway	692	726	758	786	798	775	778	815	811	825	2.22%
Wrangell	2,479	2,590	2,716	2,691	2,754	2,698	2,618	2,541	2,560	2,549	-0.71%
Yakutat	705	722	680	707	727	770	799	822	775	729	-0.36%

1980-1989											%***
Area Name	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**Change**
Haines Borough	1,680	1,803	1,886	1,950	2,051	2,034	2,036	1,971	1,956	2,058	2.34%
Juneau/ City and Borough	19,528	21,329	22,451	24,007	25,268	26,037	25,998	24,966	24,655	25,100	3.20%
Ketchikan Gateway Borough	11,316	12,042	12,268	12,459	12,438	12,623	12,729	12,793	12,594	13,259	2.03%
Prince of Wales Borough	3,822	4,204	4,439	4,822	4,993	5,143	5,225	5,392	5,770	5,876	5.09%
Sitka City/Borough	7,803	8,116	7,947	8,028	7,956	8,110	8,128	8,252	8,294	8,283	0.96%
City Name	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**Change**
Angoon	465	514	562	512	574	588	597	605	624	645	3.21%
Gustavus	98	128	158	188	218	217	214	211	219	238	10.16%
Hoonah	680	772	864	865	894	917	906	895	894	845	1.57%
Kake	555	593	631	674	635	634	650	665	678	695	2.35%
Metlakatla	1,056	1,098	1,141	1,183	1,225	1,270	1,318	1,365	1,386	1,438	2.91%
Petersburg	2,821	2,931	3,040	3,046	3,112	3,145	3,182	3,180	3,178	3,230	1.29%
Skagway	814	802	790	782	652	610	662	714	704	715	-1.61%
Wrangell	2,184	2,280	2,376	2,468	2,336	2,387	2,402	2,409	2,416	2,503	1.28%
Yakutat	449	456	462	469	470	456	466	476	527	625	4.62%

*** Compounded rate of growth 2000-2009**
**** Compounded rate of growth 1990-2000**
***** Compounded rate of growth 1980-1990**

B. Permanent Traffic Recorder Data

Permanent Traffic Recorders (PTRs) consist of electronic counting devices connected to inductive loops buried in the roadway. As vehicles pass over the loops, a cumulative total is compiled for selected periods of time and reported to a mainframe database for analysis. PTRs are installed to collect the number of vehicles that travel over a particular road classification. PTRs are located on select roadways that are representative for a community. There are twelve PTRs in the region, and the oldest one has been in operation since 1959. The twelve PTRs and their locations are as follows:

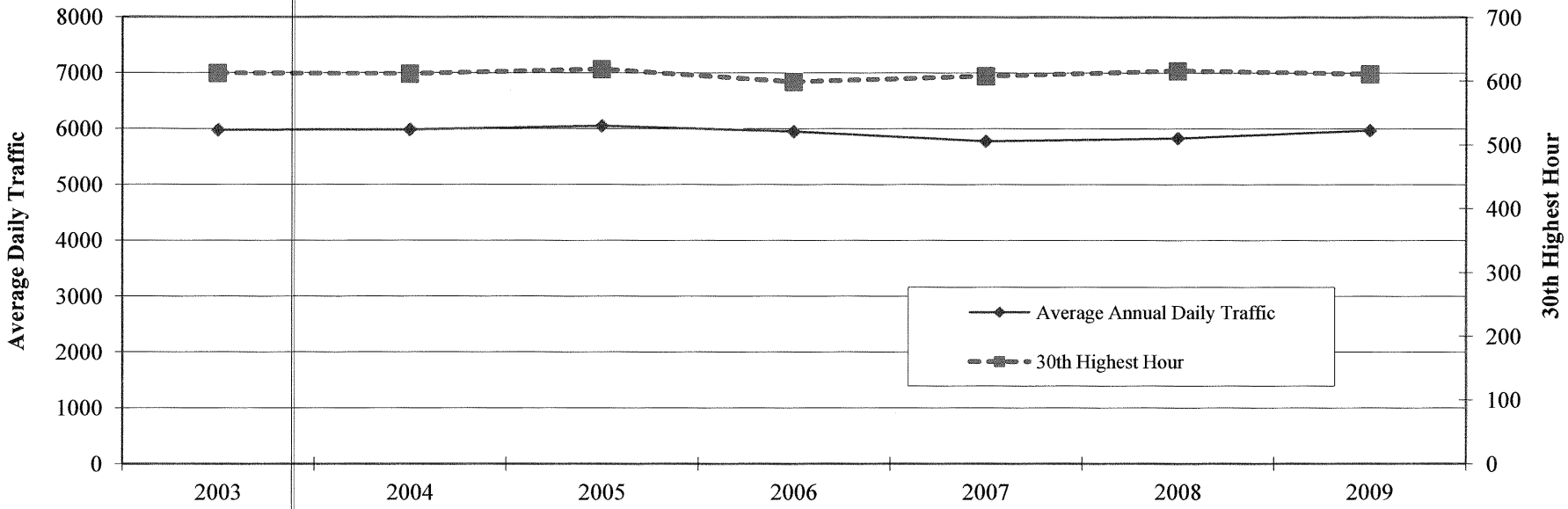
1. Ketchikan – North Tongass Highway (CDS Mile Pt 1.33)
2. Ketchikan – South Tongass Highway (CDS Mile Pt. 3.07)
3. Sitka – Sawmill Creek Road (CDS Mile Pt. 0.73)
4. Sitka – Halibut Point Road (CDS Mile Pt. 0.53)
5. Prince of Wales – Craig / Klawock / Hollis Highway (CDS Mile Pt. 6.71)
6. Wrangell – Zimovia Highway (CDS Mile Pt. 0.71)
7. Petersburg – Mitkof Highway (CDS Mile Pt. 2.55)
8. Juneau – Egan Drive (CDS Mile Pt. 2.58)
9. Juneau – Riverside Drive (CDS Mile Pt. 1.47)
10. Juneau – Glacier Highway (CDS Mile Pt. 14.07)
11. Haines – Haines Highway (CDS Mile Pt. 1.29)
12. Skagway – Klondike Highway (CDS Mile Pt. 2.55)

PTR data is presented in several different ways. The graphs depict annual average daily traffic (AADT) and 30th highest hour volumes for each year the PTRs have been in operation as well as AADT for each day of the week, and the annual average hourly traffic for weekdays (weekends and holidays excluded) for 2006. The numerical matrices provide the most detailed and comprehensive data.

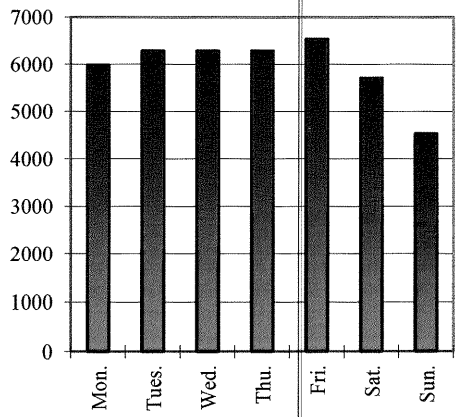
The 30th highest hour volumes, also called the Design Hourly Volume (DHV), are shown because highway projects are usually designed to accommodate this volume in the design year.

PTR data is very important to traffic engineers because they record hourly traffic volumes in both directions 24 hours per day, 365 days per year. Unlike rubber road tube counts, the PTRs collect traffic volumes year round and show seasonally adjusted traffic volumes. These seasonal factors can then be used to adjust other traffic volume counts taken by road tubes.

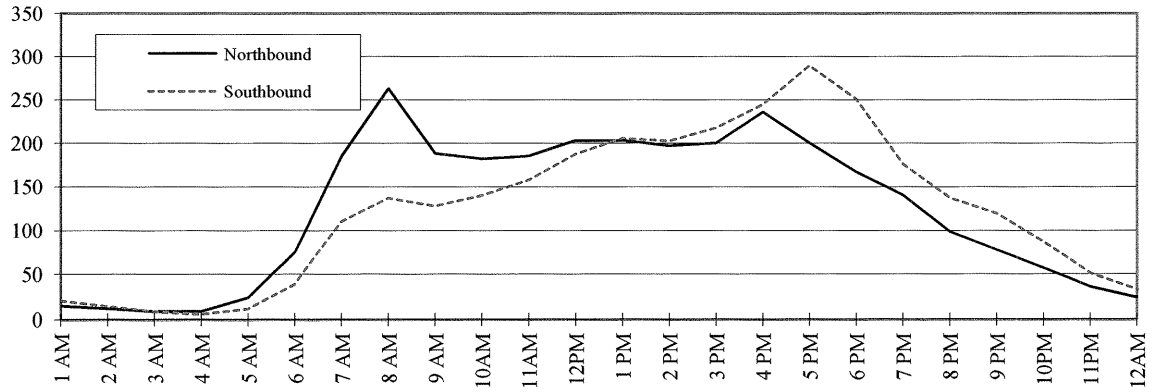
Permanent Traffic Recorder At South Tongass Hwy (CDS Mi 3.07)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60025100 9

SOUTH TONGASS @ CEMETERY ROAD TO USCG BASE - TOTAL PTR ON 291400 AT MILEPOINT 3.070

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	4714	78.9	94.3	5.7	102.4	110.4	110.6	101.5	112.5	107.5	92.6	69.9
FEB	5336	89.3	94.6	5.4	102.5	106.1	106.9	106.1	111.9	106.7	92.0	74.6
MAR	5277	88.3	91.5	8.5	105.6	107.1	103.8	104.1	113.6	106.8	90.7	75.1
APR	6105	102.2	94.4	5.6	103.5	105.8	107.2	108.3	106.6	106.3	94.0	74.5
MAY	6795	113.8	94.0	6.0	98.9	104.4	102.6	105.2	111.1	104.4	98.6	79.1
JUN	7242	121.2	93.1	6.9	103.2	103.8	105.5	104.8	108.6	105.2	94.2	79.9
JUL	7137	119.5	92.6	7.4	104.0	101.6	104.9	104.9	108.4	104.8	92.2	84.0
AUG	6789	113.7	93.4	6.6	102.9	103.9	106.1	104.8	108.6	105.3	92.9	80.8
SEP	6331	106.0	94.1	5.9	98.1	104.1	105.0	105.2	111.5	104.8	96.8	79.4
OCT	5660	94.8	93.8	6.2	102.2	105.8	104.9	106.3	109.0	105.6	97.4	74.3
NOV	5311	88.9	91.2	8.8	105.5	105.5	100.6	104.6	109.4	105.1	98.0	76.2
DEC	4983	83.4			73.8	105.4	105.4	108.6	102.7	99.2	108.1	95.9
ANN	5973		93.4	6.6	100.2	105.3	105.3	105.4	109.5	105.1	95.6	78.6

HISTORICAL DATA

2009	5973
2008	5831
2007	5798
2006	5955
2005	6057
2004	5992
2003	5985
2002	5968

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG

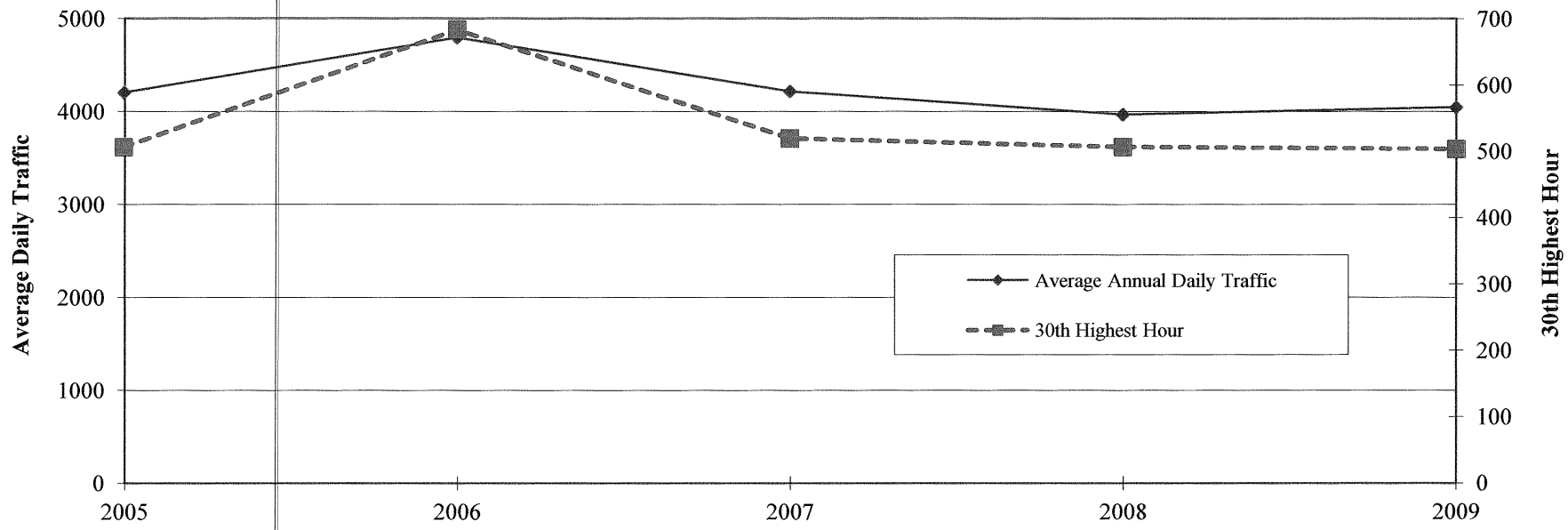
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG

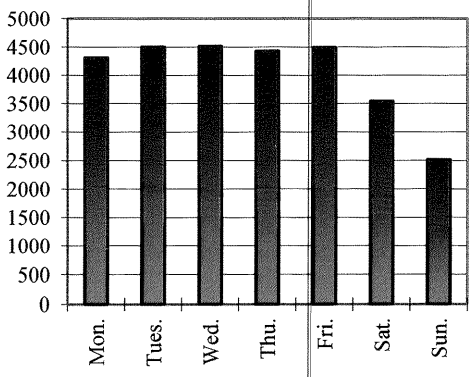
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12

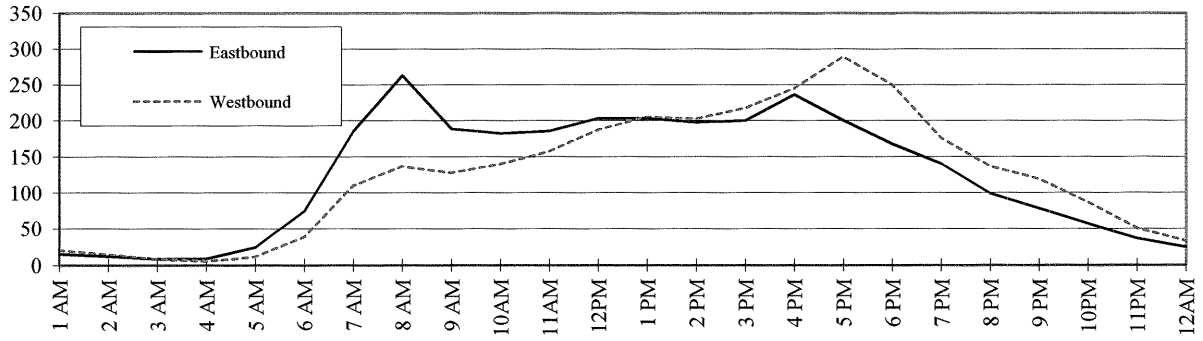
Permanent Traffic Recorder At 3rd Avenue (CDS Mi 0.508)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60012500 0

THIRD AVENUE EXTENSION - KETCHIKAN ***PTR*** TOTAL ON 291433 AT MILEPOINT 0.508

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	3112	76.9	94.6	5.4	101.9	115.1	117.0	106.5	113.9	110.9	87.3	58.3
FEB	3776	93.3	95.0	5.0	107.4	111.1	111.3	112.5	115.5	111.6	83.1	59.0
MAR	3657	90.3	93.6	6.4	111.3	110.0	107.4	108.8	115.8	110.7	86.6	60.2
APR	4103	101.4	94.8	5.2	106.2	111.8	113.1	113.4	111.5	111.2	86.7	57.3
MAY	4579	113.1	94.5	5.5	97.3	113.1	111.3	113.9	114.2	110.0	87.7	62.6
JUN	4473	110.5	93.9	6.1	107.0	108.1	112.2	110.3	111.9	109.9	86.9	63.7
JUL	4268	105.4	92.9	7.1	107.9	108.2	111.5	105.2	105.8	107.7	92.8	68.5
AUG	4321	106.7	94.1	5.9	109.3	109.0	111.1	110.3	108.0	109.5	86.5	65.8
SEP	4537	112.1	95.0	5.0	98.8	114.9	113.7	111.6	113.9	110.6	85.1	61.9
OCT	4238	104.7	94.9	5.1	106.7	112.1	111.8	113.0	110.9	110.9	87.5	57.9
NOV	3868	95.6	94.6	5.4	113.6	114.9	110.4	98.8	106.5	108.8	93.5	62.3
DEC	3641	89.9	94.4	5.6	111.4	108.1	108.8	110.0	104.8	108.6	87.6	69.4
ANN	4048		94.4	5.6	106.6	111.4	111.6	109.5	111.1	110.0	87.6	62.2

HISTORICAL DATA

2009	4048
2008	3969
2007	4251
2006	4800
2005	4208
2004	

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
5708	5670	5535	5450	5408	5405	5380	5346	5335	5318	5456
06/05	05/29	06/03	09/08	06/01	06/02	06/04	05/22	05/19	09/01	
141.0	140.1	136.7	134.6	133.6	133.5	132.9	132.1	131.8	131.4	134.8

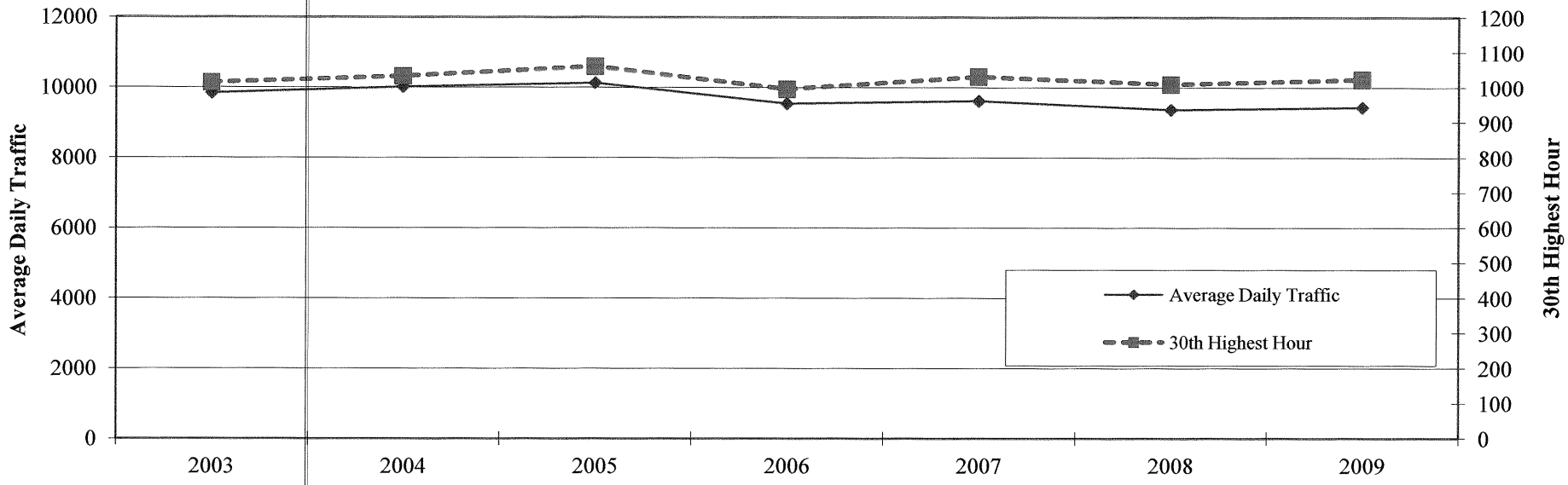
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
608	604	581	556	548	539	535	533	533	532	512	504	495	488	557
17	12	11	18	8	8	8	8	8	8	18	8	8	8	
09/30	07/04	07/04	09/30	06/01	05/27	09/10	08/27	05/26	08/31	09/16	09/04	09/21	05/22	
15.0	14.9	14.4	13.7	13.5	13.3	13.2	13.2	13.2	13.1	12.6	12.5	12.2	12.1	13.8

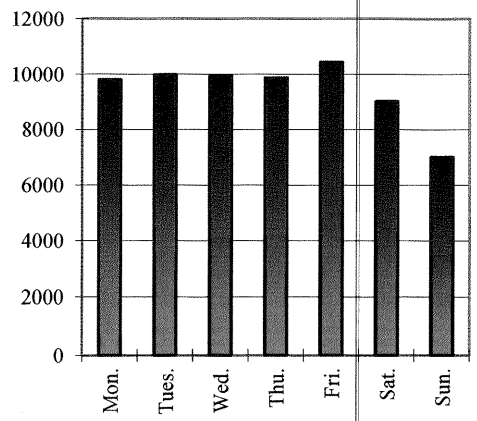
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.6	0.4	0.3	0.3	0.4	1.2	3.2	7.2	5.2	5.1	5.3	6.3	7.5	7.0	7.6	8.1	8.1	7.7	5.6	4.3	3.5	2.6	1.6	1.0

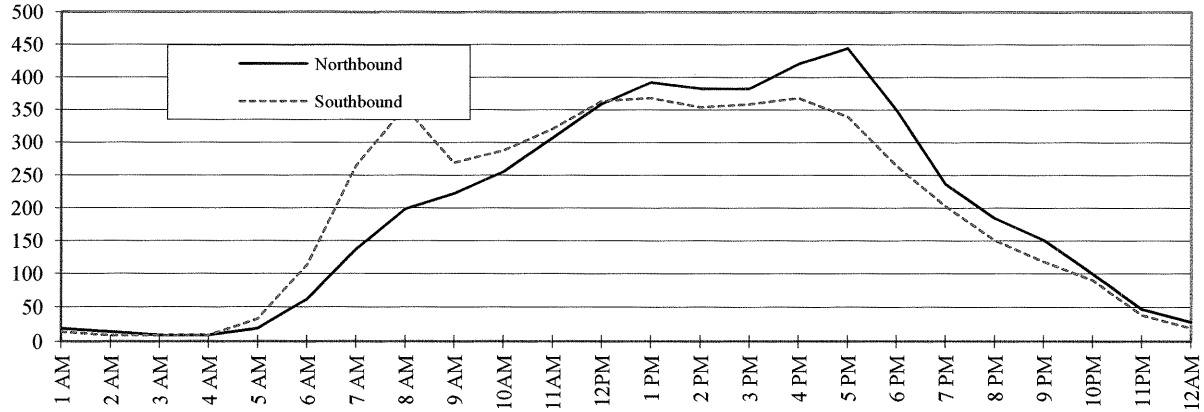
Permanent Traffic Recorder At N. Tongass Hwy (CDS Mi 1.33)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60087100 9

NORTH TONGASS PTR @ ROSES CABOOSE TOTAL ON 291500 AT MILEPOINT 1.334

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	7530	79.8	95.7	4.3	103.5	110.1	108.9	101.8	112.8	107.4	94.6	68.3
FEB	8468	89.7	96.0	4.0	105.5	101.6	104.8	107.4	113.8	106.6	93.5	73.5
MAR	8471	89.7	93.4	6.6	105.6	103.2	101.8	106.5	114.9	106.4	95.8	72.2
APR	9593	101.6	95.7	4.3	105.3	106.7	105.4	107.7	108.2	106.7	95.7	71.0
MAY	10501	111.2	95.7	4.3	96.7	105.3	104.6	106.0	112.3	105.0	97.6	77.6
JUN	10965	116.1	94.9	5.1	103.8	104.2	104.7	105.5	110.4	105.7	95.4	75.9
JUL	10969	116.2	94.6	5.4	104.5	105.3	104.5	104.4	110.0	105.7	91.3	79.9
AUG	10548	111.7	95.3	4.7	102.6	105.4	107.1	105.4	107.4	105.6	94.1	78.1
SEP	9804	103.8	95.5	4.5	98.7	108.0	104.9	103.7	112.0	105.5	96.8	75.9
OCT	9204	97.5	95.2	4.8	102.4	106.5	103.3	106.8	111.4	106.1	98.3	71.4
NOV	8469	89.7	95.4	4.6	108.9	106.5	105.6	93.9	116.9	106.4	96.0	72.2
DEC	8784	93.0	95.8	4.2	108.0	107.0	107.7	106.3	96.7	105.1	98.2	76.1
ANN	9442		95.3	4.7	103.8	105.8	105.3	104.6	110.6	106.0	95.6	74.3

HISTORICAL DATA

2009	9442
2008	9372
2007	9651
2006	9545
2005	10135
2004	10018
2003	9847
2002	9883

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
13398	12500	12481	12420	12335	12307	12295	12227	12202	12178	12434
06/05	07/31	06/01	07/02	06/04	06/02	07/03	05/01	07/10	06/03	
141.9	132.4	132.2	131.5	130.6	130.3	130.2	129.5	129.2	129.0	131.7

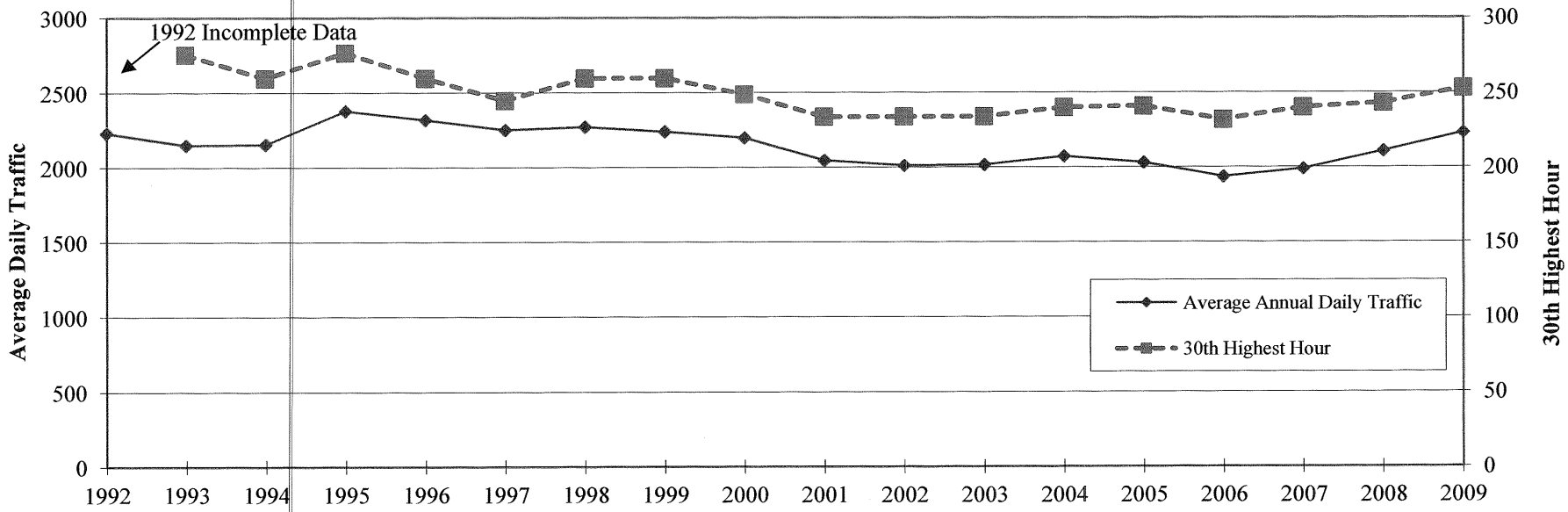
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
1101	1093	1080	1078	1064	1064	1061	1060	1059	1057	1032	1015	1010	1000	1072
17	16	17	17	17	17	17	17	17	17	17	17	16	17	
08/05	06/05	06/01	06/10	07/28	06/05	06/04	07/02	05/01	07/31	07/30	09/22	06/04	10/01	
11.7	11.6	11.4	11.4	11.3	11.3	11.2	11.2	11.2	11.2	10.9	10.7	10.7	10.6	11.4

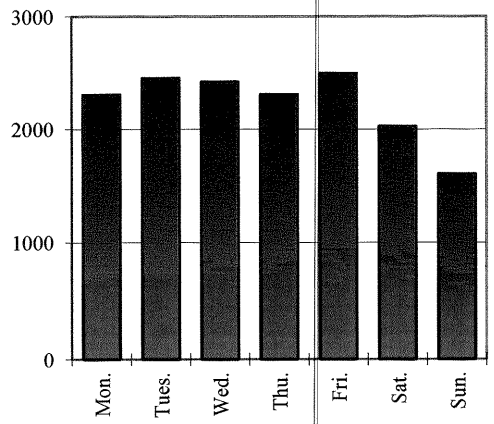
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.4	0.2	0.2	0.2	0.5	1.8	4.3	5.8	5.2	5.8	6.6	7.6	8.1	7.8	7.8	8.3	8.3	6.5	4.6	3.5	2.8	2.0	0.9	0.5

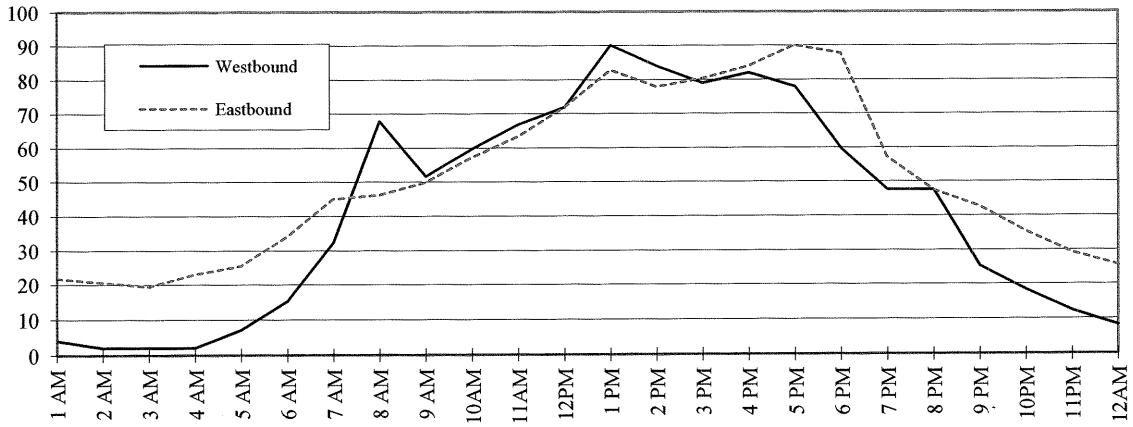
Permanent Traffic Recorder At Craig/Klawock/Hollis Hwy (CDS Mi 6.71)



2009Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60148000 0

CRAIG/KLAWOCK/HOLLIS BTW KLAWOCK R. BR. & BAYVIEW, KLAW ON 292000 AT MILEPOINT 6.709

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	1901	85.2	88.3	11.7	100.6	116.5	116.1	98.4	114.0	109.1	90.2	64.4
FEB	2158	96.7	89.8	10.2	102.9	110.5	108.4	107.9	113.9	108.7	86.7	69.3
MAR	2149	96.3	88.8	11.2	103.3	110.8	103.9	104.9	117.9	108.2	93.1	66.3
APR	2437	109.2	88.1	11.9	102.8	105.7	105.6	104.5	114.2	106.6	96.2	70.8
MAY	2297	103.0	92.1	7.9	98.0	107.8	110.2	105.3	116.5	107.6	94.9	67.3
JUN	2448	109.7	91.1	8.9	104.1	109.0	108.1	105.3	113.0	107.9	92.9	67.5
JUL	2560	114.7	89.4	10.6	106.9	104.2	110.5	107.4	113.1	108.4	87.8	69.9
AUG	2611	117.0	90.8	9.2	108.5	108.4	106.4	106.7	112.3	108.5	86.5	71.3
SEP	2313	103.7	89.0	11.0	95.2	110.0	107.4	104.9	118.9	107.3	89.6	74.2
OCT	1974	88.5	86.0	14.0	103.5	115.7	110.1	104.7	101.2	107.0	88.3	76.1
NOV	1966	88.1	84.3	15.7	104.5	114.6	111.1	90.7	111.0	106.4	87.5	80.5
DEC	1960	87.9	85.0	15.0	110.4	106.3	103.9	100.7	96.5	103.6	96.7	85.2
ANN	2231		88.6	11.4	103.4	110.0	108.5	103.5	111.9	107.4	90.9	71.9

HISTORICAL DATA

2009	2231
2008	2108
2007	1996
2006	1937
2005	2031
2004	2073
2003	2017
2002	2012
2001	2047
2000	2199
1999	2241
1998	2273
1997	2253
1996	2320
1995	2380
1994	2157
1993	2152

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
3155	3128	3110	3080	3031	3005	2984	2968	2964	2945	3037
08/13	07/03	08/21	08/25	07/02	08/07	07/01	09/04	07/22	09/01	
141.4	140.2	139.4	138.1	135.9	134.7	133.8	133.0	132.9	132.0	136.1

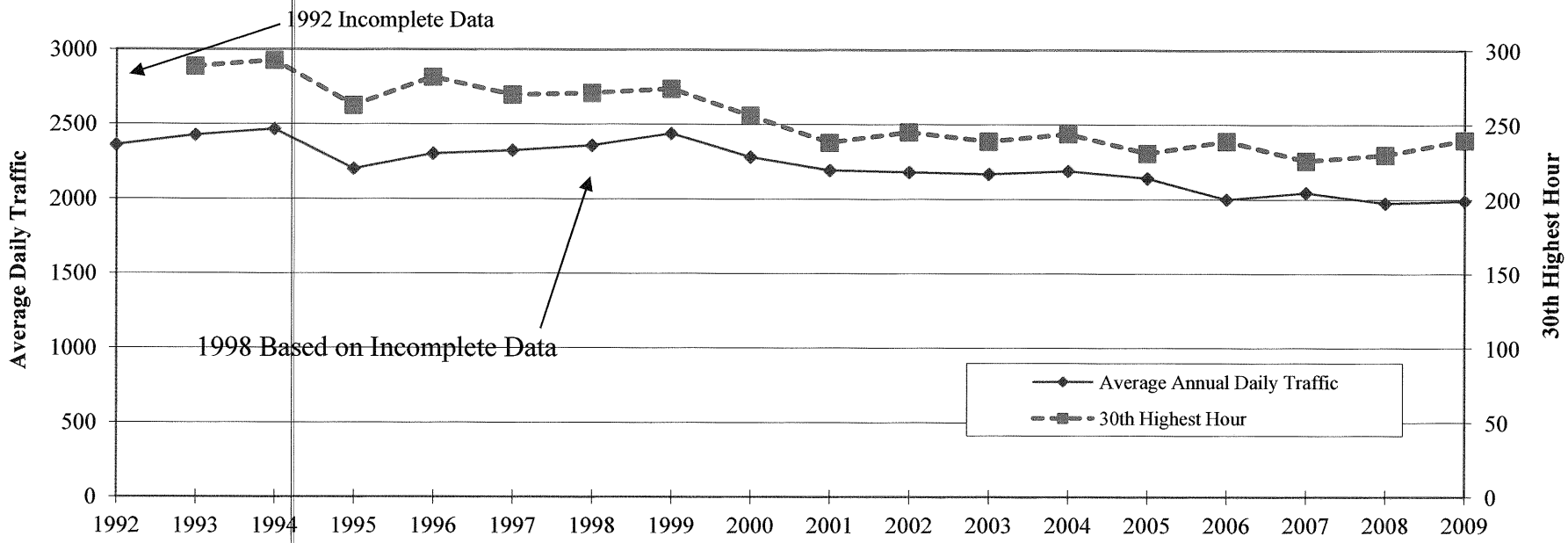
HIGHEST HOURS

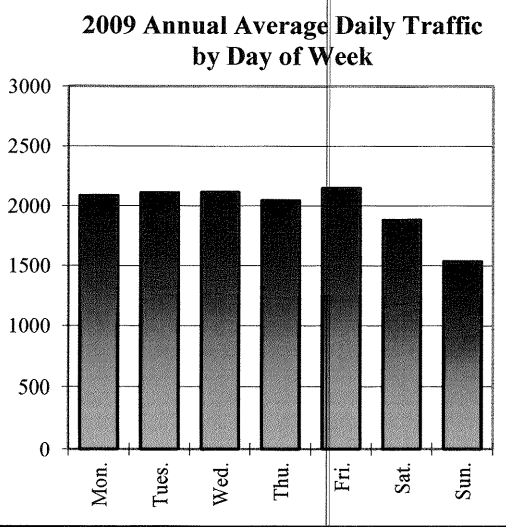
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
297	286	285	282	281	281	280	272	270	267	258	253	249	245	280
13	13	17	18	17	17	17	17	13	14	17	16	17	15	
08/07	05/07	08/17	08/25	09/01	08/13	07/17	05/15	07/29	08/21	08/03	07/02	08/12	08/17	
13.3	12.8	12.8	12.6	12.6	12.6	12.6	12.2	12.1	12.0	11.6	11.3	11.2	11.0	12.6

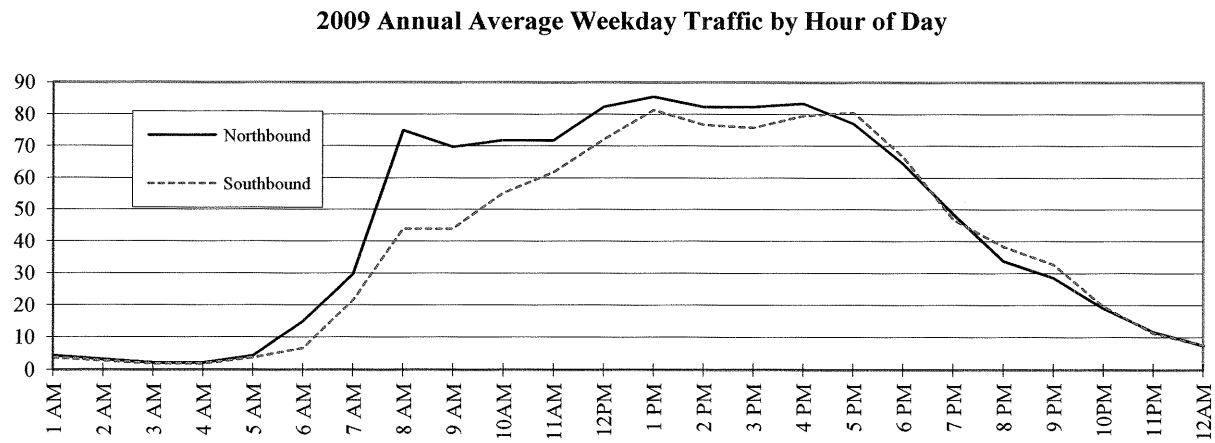
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1.2	1.0	1.0	1.1	1.4	2.2	3.5	5.1	4.5	5.2	5.9	6.4	7.8	7.3	7.1	7.4	7.5	6.6	4.7	4.3	3.1	2.4	1.9	1.5

Permanent Traffic Recorder At Zimovia Hwy (CDS Mi 0.71)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60169159 9

WRANGELL PTR: ZIMOVIA HWY BTW BENNET & CASE WRANGELL ON 293300 AT MILEPOINT 0.707

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	1504	75.5	95.6	4.4	105.1	108.7	111.9	99.8	109.0	106.9	91.0	74.4
FEB	1658	83.3	96.3	3.7	102.7	107.8	106.9	109.4	109.7	107.3	90.6	72.9
MAR	1710	85.9	95.3	4.7	106.7	105.9	101.1	101.2	109.0	104.8	99.2	76.7
APR	2089	104.9	96.8	3.2	107.0	104.8	108.5	104.9	105.5	106.1	91.8	77.5
MAY	2411	121.1	95.6	4.4	99.3	106.1	104.2	104.6	109.6	104.8	98.1	78.1
JUN	2535	127.3	95.3	4.7	103.0	103.3	107.1	103.1	109.6	105.2	94.6	79.3
JUL	2549	128.0	94.0	6.0	103.8	103.7	102.9	105.8	108.0	104.8	94.1	81.7
AUG	2199	110.4	95.1	4.9	104.6	102.4	110.3	102.5	108.1	105.6	94.2	78.0
SEP	2053	103.1	96.2	3.8	98.1	105.9	106.5	102.3	111.2	104.8	97.7	78.2
OCT	1839	92.4	95.9	4.1	107.0	109.1	103.3	102.9	109.0	106.3	94.6	74.0
NOV	1678	84.3	95.7	4.3	111.9	109.4	107.2	95.2	105.2	105.8	94.6	76.7
DEC	1667	83.7	95.2	4.8	108.6	106.4	105.7	102.0	102.3	105.0	94.4	80.2
ANN	1991		95.6	4.4	104.8	106.1	106.3	102.8	108.0	105.6	94.6	77.3

HISTORICAL DATA

2009	1991
2008	1976
2007	2048
2006	2000
2005	2142
2004	2190
2003	2170
2002	2182
2001	2194
2000	2283
1999	2439
1998	2359
1997	2326
1996	2306
1995	2204
1994	2468
1993	2428

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
3488	3206	3072	2871	2868	2859	2858	2832	2811	2807	2967
07/02	07/03	07/06	07/11	05/22	07/28	06/05	07/01	06/01	06/26	
175.2	161.0	154.3	144.2	144.0	143.6	143.5	142.2	141.2	141.0	149.0

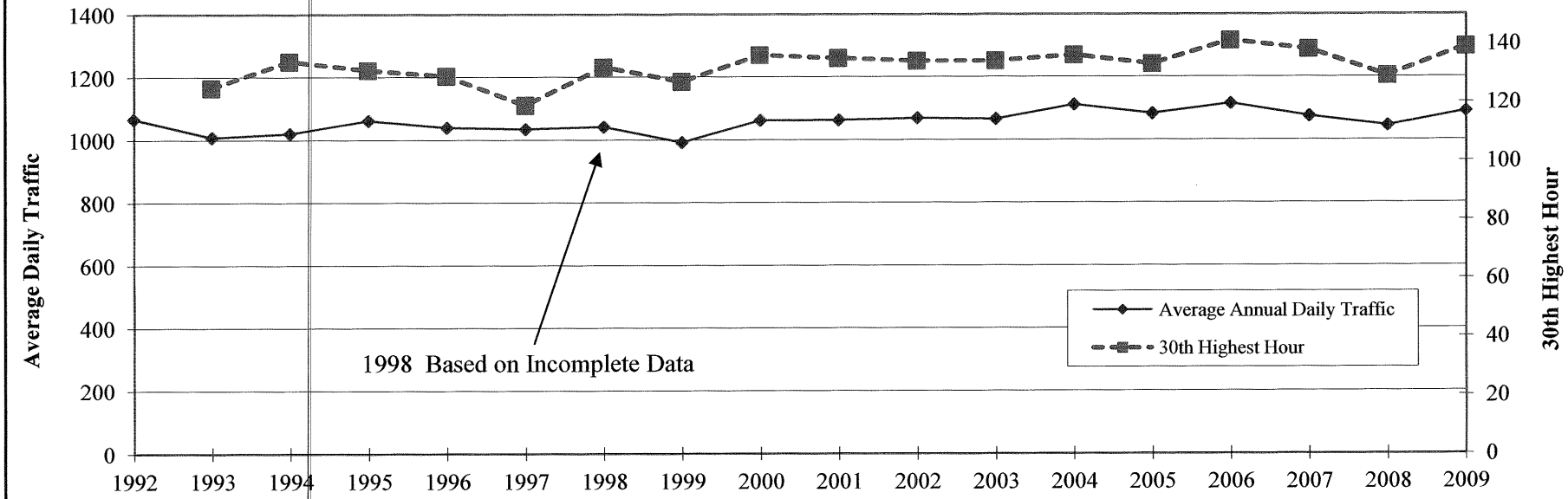
HIGHEST HOURS

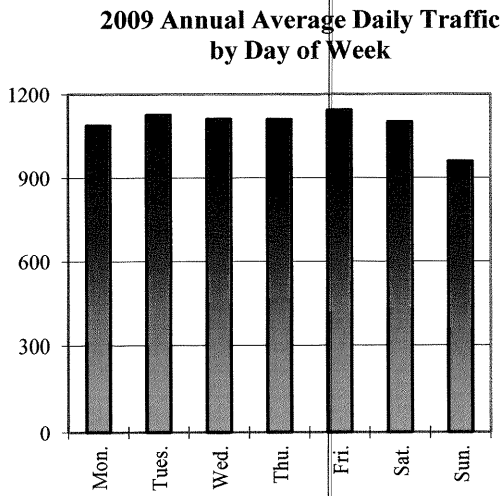
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
332	316	315	270	267	266	259	259	256	255	246	240	234	232	280
18	17	16	13	17	15	17	17	15	16	13	16	12	12	
07/02	07/02	07/02	07/11	05/08	07/02	05/22	05/13	07/03	05/22	05/19	05/04	05/12	07/06	
16.7	15.9	15.8	13.6	13.4	13.4	13.0	13.0	12.9	12.8	12.4	12.1	11.8	11.7	14.1

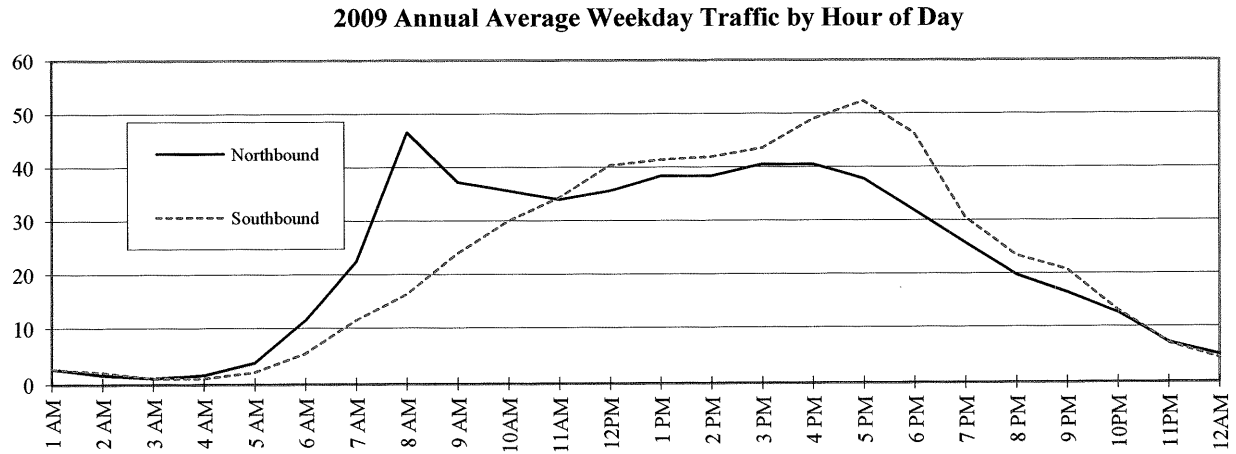
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.4	0.3	0.2	0.2	0.4	1.1	2.6	6.0	5.7	6.4	6.7	7.8	8.4	8.0	7.9	8.1	7.9	6.6	4.8	3.6	3.1	2.0	1.2	0.8

Permanent Traffic Recorder At Mitkof Hwy (CDS Mi 2.55)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60202000 9

MITKOF HWY, S JCT SCOW BAY LOOP - USFS WAREHOUSE, PETER ON 294000 AT MILEPOINT 2.550

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	723	66.3	94.3	5.7	98.6	98.7	103.5	104.1	103.5	101.7	103.4	87.9
FEB	820	75.2	95.4	4.6	101.4	107.4	98.6	101.9	103.0	102.5	101.8	86.0
MAR	833	76.4	93.8	6.2	103.8	104.4	97.1	96.2	101.4	100.6	103.8	93.4
APR	1072	98.3	94.9	5.1	98.5	103.5	100.0	99.4	99.6	100.2	103.3	95.9
MAY	1361	124.7	94.2	5.8	93.6	103.8	96.6	108.4	104.2	101.3	103.2	90.1
JUN	1429	131.0	93.6	6.4	95.5	99.9	105.4	103.5	113.6	103.6	100.2	81.9
JUL	1459	133.7	93.6	6.4	101.0	106.7	102.2	104.5	111.0	105.1	95.0	79.7
AUG	1481	135.7	93.9	6.1	95.8	98.3	113.3	104.7	108.0	104.0	95.4	84.7
SEP	1205	110.4	95.5	4.5	96.8	106.9	101.7	97.2	109.1	102.3	100.3	87.8
OCT	1035	94.9	95.3	4.7	101.1	102.4	101.6	102.8	103.7	102.3	103.5	85.1
NOV	832	76.3	95.6	4.4	104.0	103.4	103.3	98.1	107.0	103.2	98.6	85.6
DEC	845	77.5	95.2	4.8	105.9	102.7	98.4	99.6	93.9	100.1	102.2	97.5
ANN	1091		94.6	5.4	99.7	103.2	101.8	101.7	104.8	102.2	100.9	88.0

HISTORICAL DATA

2009	1091
2008	1045
2007	1077
2006	1115
2005	1083
2004	1111
2003	1066
2002	1069
2001	1063
2000	1062
1999	992
1998	1042
1997	1035
1996	1040
1995	1062
1994	1021
1993	1009

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
1879	1874	1873	1841	1722	1718	1716	1700	1689	1683	1770
08/21	06/05	08/01	08/26	08/13	07/03	08/19	06/06	09/01	06/10	
172.2	171.8	171.7	168.7	157.8	157.5	157.3	155.8	154.8	154.3	162.2

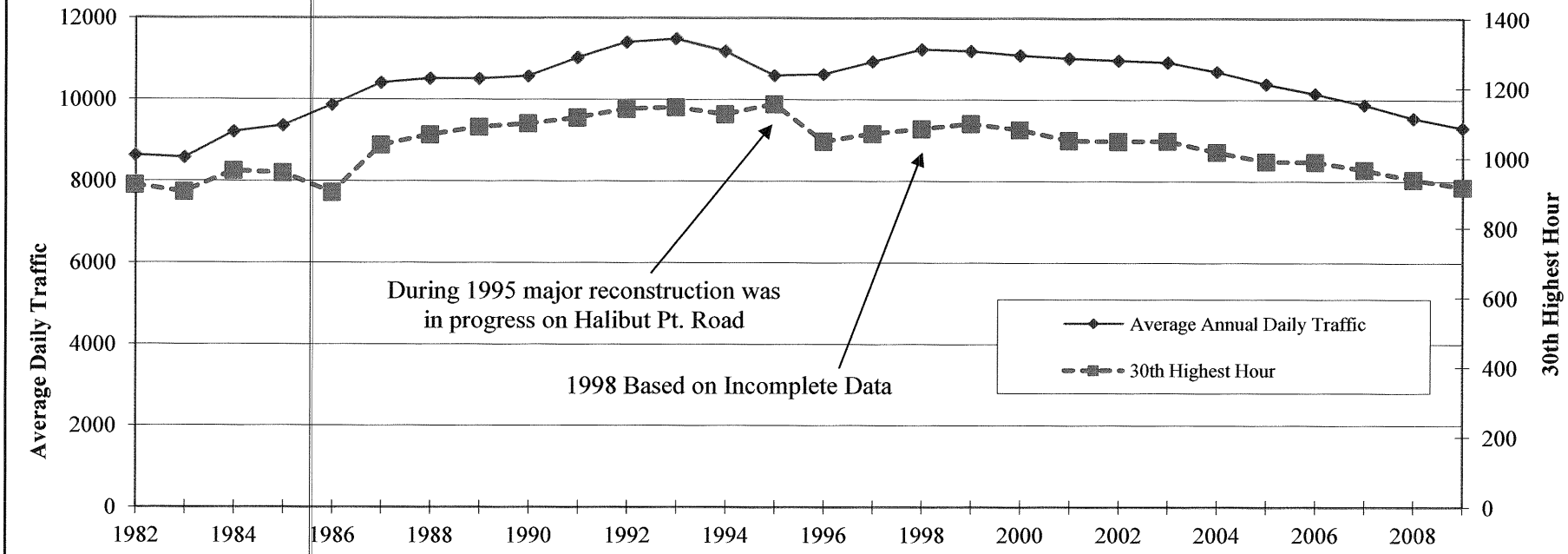
HIGHEST HOURS

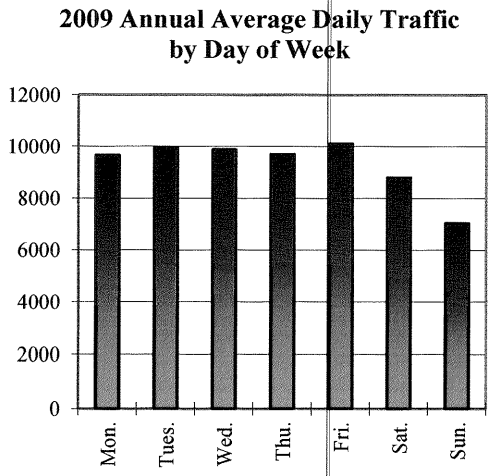
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
168	164	155	153	152	152	151	151	149	146	142	139	136	134	154
17	18	17	18	15	18	17	18	14	18	18	18	17	17	
08/21	08/21	06/04	05/29	07/10	07/09	07/07	06/10	08/30	08/26	06/02	08/05	07/21	08/01	
15.4	15.0	14.2	14.0	13.9	13.9	13.8	13.8	13.7	13.4	13.0	12.7	12.5	12.3	14.1

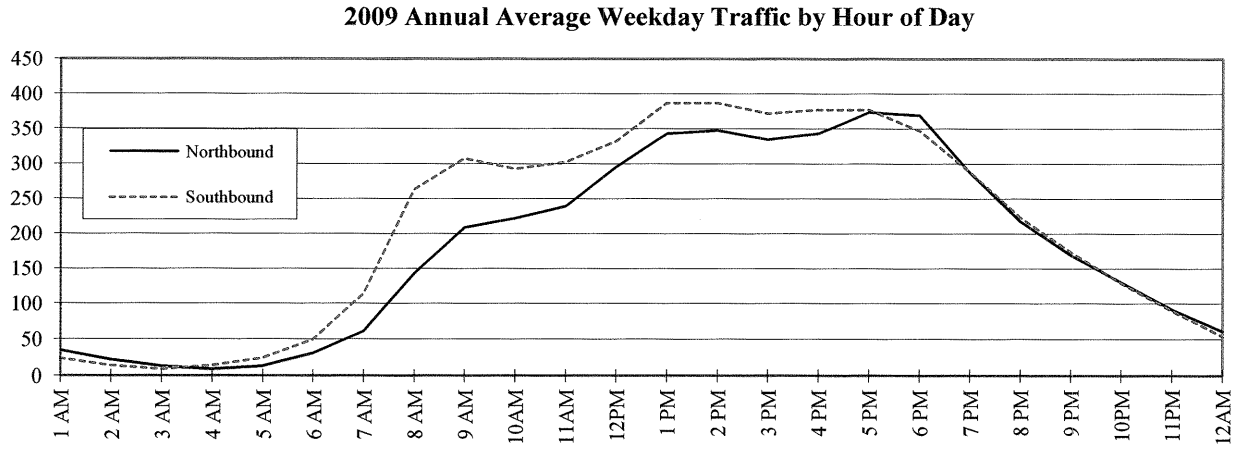
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.5	0.3	0.2	0.3	0.5	1.5	3.1	5.8	5.6	6.0	6.3	7.0	7.3	7.4	7.7	8.2	8.3	7.2	5.1	4.0	3.4	2.4	1.3	0.9

Permanent Traffic Recorder At 1 Mi. Halibut Pt. Road (CDS MP 0.53)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60561000 9

HALIBUT PT RD BTW KATLIAN & MARINE ST, SITKA ON 295400 AT MILEPOINT 0.533

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	8121	87.2	93.0	7.0	103.4	109.7	111.0	100.8	111.7	107.3	89.9	73.3
FEB	8742	93.9	93.6	6.4	103.2	107.0	106.7	106.7	111.0	106.9	93.0	72.3
MAR	9235	99.2	94.5	5.5	105.2	106.4	104.5	104.0	107.7	105.6	96.6	75.5
APR	10078	108.2	94.7	5.3	103.0	104.6	103.8	104.2	109.8	105.1	97.5	77.0
MAY	9451	101.5	94.4	5.6	98.8	104.1	103.7	103.2	111.7	104.3	99.3	79.2
JUN	9354	100.5	93.4	6.6	102.5	106.7	106.2	103.0	107.7	105.2	95.3	78.6
JUL	9540	102.5	93.4	6.6	109.4	106.5	103.7	103.0	106.8	105.9	90.5	80.1
AUG	10305	110.7	94.2	5.8	105.7	104.5	106.4	103.8	107.4	105.6	95.6	76.5
SEP	9810	105.4	95.1	4.9	97.9	108.4	104.3	105.9	114.0	106.1	96.2	73.4
OCT	9588	103.0	95.1	4.9	103.1	106.4	104.2	107.1	111.7	106.5	95.9	71.6
NOV	8781	94.3	93.7	6.3	106.7	111.5	109.5	97.4	107.1	106.4	93.3	74.4
DEC	8716	93.6	93.1	6.9	107.1	107.3	109.4	111.0	98.1	106.6	91.9	75.2
ANN	9310		94.0	6.0	103.8	106.9	106.1	104.2	108.7	106.0	94.6	75.6

HISTORICAL DATA	
2009	9310
2008	9547
2007	9901
2006	10156
2005	10391
2004	10700
2003	10933
2002	10977
2001	11029
2000	11103
1999	11205
1998	11241
1997	10946
1996	10629
1995	10599
1994	11200
1993	11502
1992	11418
1991	11043
1990	10581
1989	10516
1988	10520
1987	10418
1986	9870
1985	9365

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
11656	11639	11615	11584	11501	11477	11477	11432	11381	11356	11512
09/01	09/04	07/29	04/10	07/31	07/28	07/30	07/24	04/17	08/26	
125.2	125.0	124.8	124.4	123.5	123.3	123.3	122.8	122.2	122.0	123.7

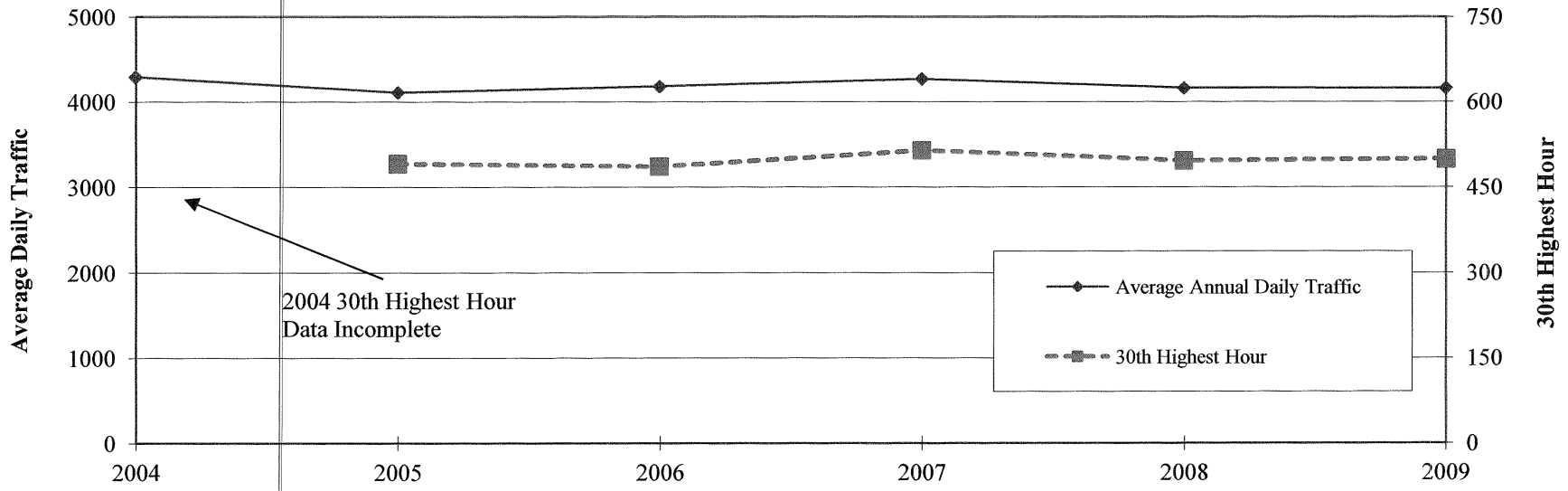
HIGHEST HOURS

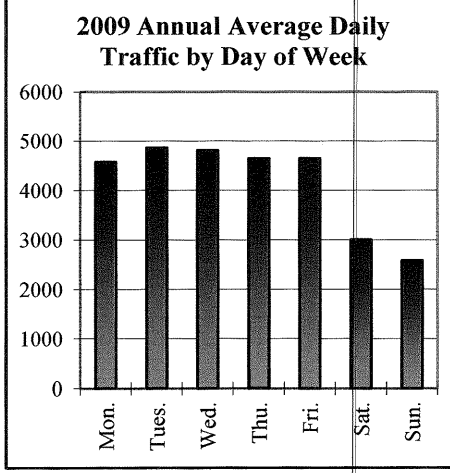
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
992	977	970	957	950	942	940	939	935	934	922	917	908	902	954
17	17	17	18	13	13	17	16	17	13	17	17	17	17	
09/01	09/08	04/14	07/28	08/21	08/07	10/01	03/31	10/20	07/28	07/28	11/25	08/11	07/31	
10.7	10.5	10.4	10.3	10.2	10.1	10.1	10.1	10.0	10.0	9.9	9.8	9.8	9.7	10.2

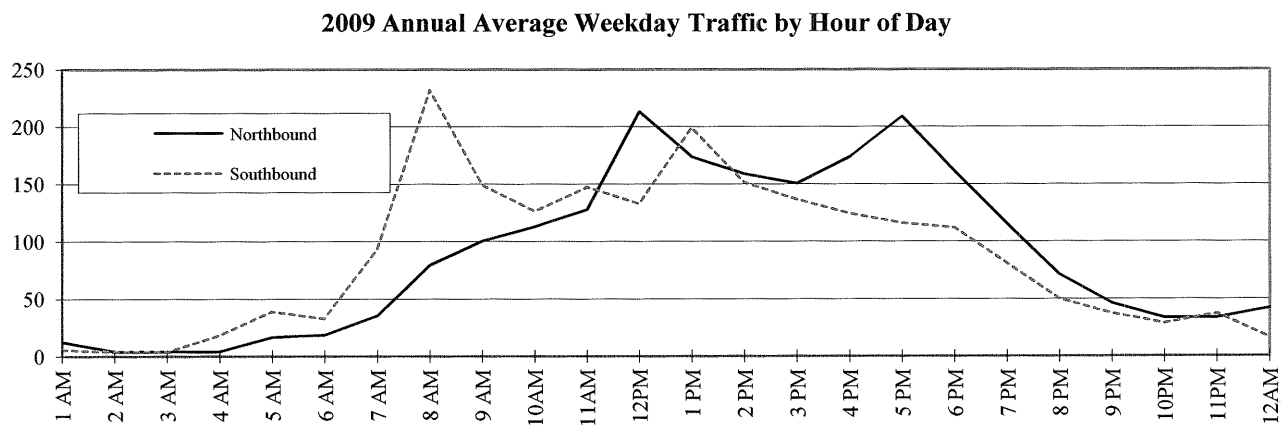
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.7	0.4	0.3	0.2	0.4	0.9	1.9	4.4	5.5	5.5	5.8	6.8	7.8	7.9	7.6	7.7	8.1	7.7	6.2	4.8	3.7	2.8	1.9	1.2

Permanent Traffic Recorder At Harbor Drive (CDS Mi 0.75)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60568000 9

HARBOR DRIVE BTW SEWARD AVE & TONGASS DR **PTR***TOTAL ON 295460 AT MILEPOINT 0.750

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	3508	84.2	93.0	7.0	116.1	120.5	117.9	105.3	114.9	114.9	67.6	57.7
FEB	3742	89.8	93.2	6.8	105.6	118.9	117.7	116.6	113.3	114.4	68.7	59.2
MAR	3935	94.5	93.3	6.7	115.4	115.7	113.7	113.3	109.5	113.5	73.1	59.3
APR	4324	103.8	93.5	6.5	112.6	112.8	111.0	114.3	112.8	112.7	74.1	62.5
MAY	4584	110.0	92.9	7.1	99.5	116.6	113.3	113.7	112.8	111.2	79.6	64.6
JUN	4928	118.3	92.5	7.5	108.8	111.5	112.9	110.0	112.3	111.1	77.0	67.4
JUL	4676	112.2	93.0	7.0	113.0	115.9	114.8	113.2	106.9	112.8	69.5	66.8
AUG	4696	112.7	93.0	7.0	112.0	112.8	114.2	113.2	111.5	112.7	73.3	63.1
SEP	4163	99.9	93.6	6.4	101.0	118.2	115.4	114.6	119.7	113.8	71.4	59.7
OCT	4057	97.4	92.6	7.4	101.8	116.3	116.2	116.9	115.1	113.3	73.8	60.0
NOV	3759	90.2	92.8	7.2	116.7	123.3	119.5	99.3	110.1	113.8	70.1	61.0
DEC	3622	86.9	92.8	7.2	117.5	119.5	120.4	112.7	100.8	114.2	66.9	62.1
ANN	4166		93.0	7.0	110.0	116.8	115.6	111.9	111.6	113.2	72.1	62.0

HISTORICAL DATA

2009	4166
2008	4167
2007	4279
2006	4187
2005	4114
2004	4301

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
5810	5809	5778	5747	5728	5679	5661	5635	5594	5590	5703
07/28	06/02	07/30	06/19	06/24	07/31	06/10	06/18	06/30	08/13	
139.5	139.4	138.7	138.0	137.5	136.3	135.9	135.3	134.3	134.2	136.9

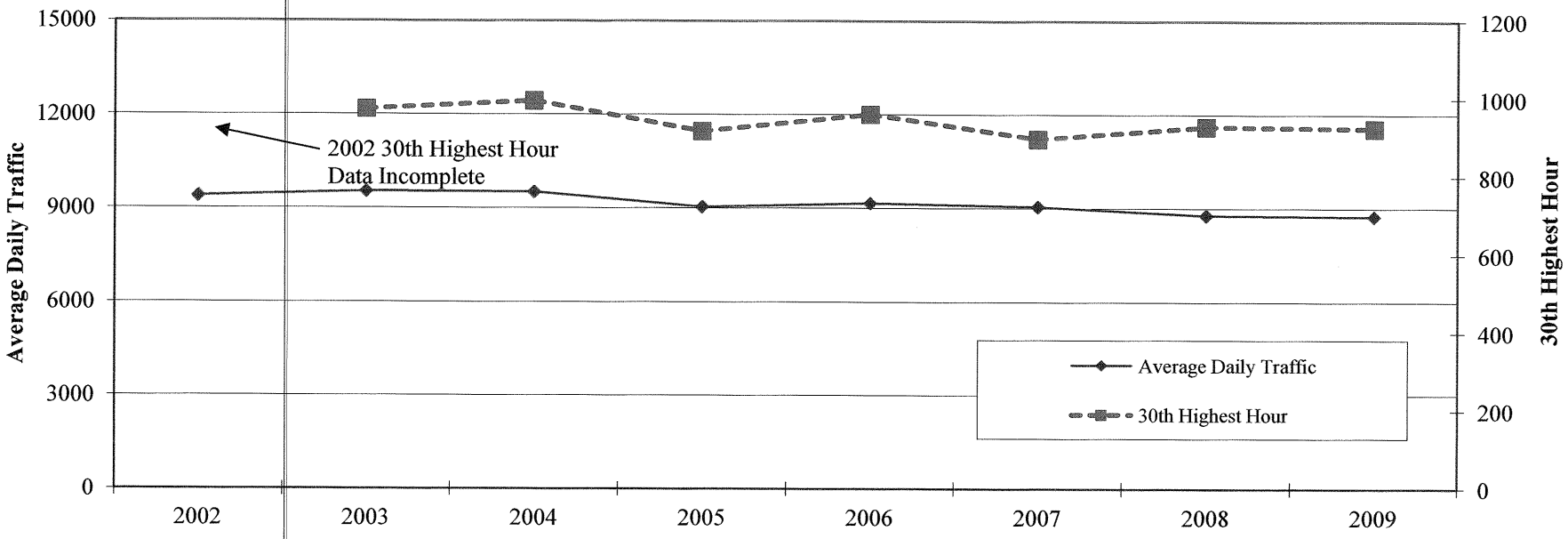
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
598	541	540	539	538	538	536	532	531	530	509	500	490	485	542
13	13	13	13	13	13	13	13	13	13	13	13	13	12	
08/17	08/21	06/17	08/13	07/13	06/19	06/24	07/28	05/21	07/30	06/18	06/03	08/06	07/28	
14.4	13.0	13.0	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.2	12.0	11.8	11.6	13.0

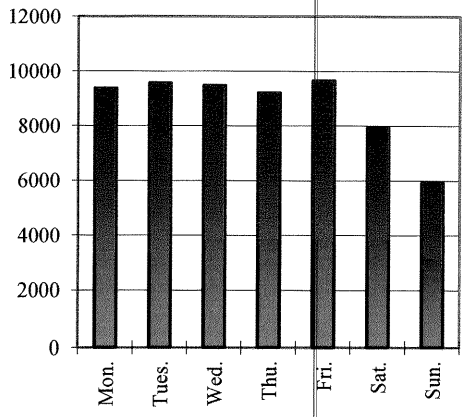
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.4	0.2	0.2	0.5	1.3	1.3	3.1	7.5	6.0	5.8	6.6	8.3	9.0	7.4	6.9	7.1	7.8	6.6	4.7	2.9	2.0	1.5	1.7	1.4

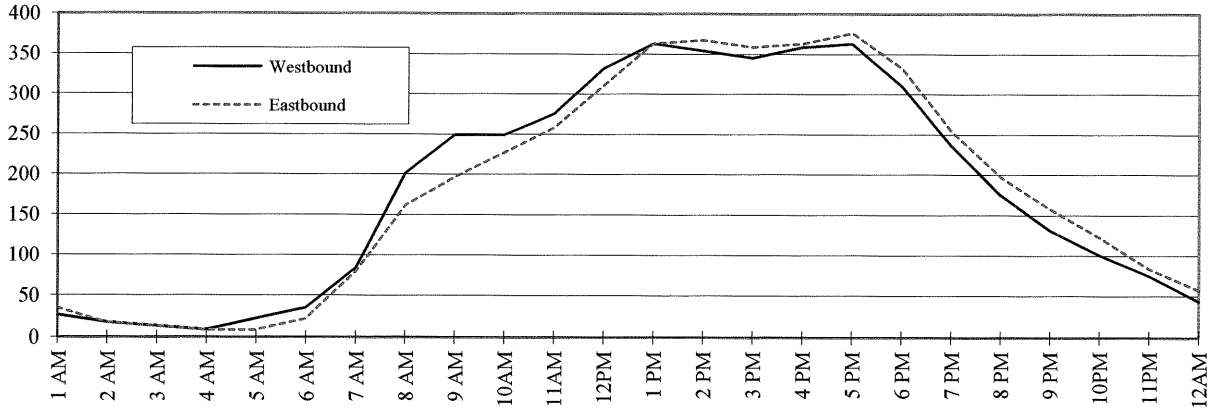
Permanent Traffic Recorder At Sawmill Creek Rd (CDS Mi 0.73)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60053100 0

SAWMILL CREEK RD @ INDIAN RIVER BRIDGE PTR - TOTAL SI ON 295500 AT MILEPOINT 0.730

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	7588	86.8	93.1	6.9	108.1	112.9	111.9	100.2	113.3	109.3	88.2	65.6
FEB	8150	93.2	93.7	6.3	105.9	108.4	108.7	106.8	112.5	108.5	91.7	66.0
MAR	8530	97.6	94.7	5.3	109.9	107.1	105.8	105.6	111.1	107.9	92.6	68.0
APR	9411	107.6	95.4	4.6	106.5	107.3	106.1	106.5	110.7	107.4	93.1	69.8
MAY	9571	109.5	95.0	5.0	100.0	111.5	108.8	106.6	111.7	107.7	92.8	68.6
JUN	9606	109.9	94.1	5.9	106.4	107.1	108.7	106.1	110.1	107.7	92.1	69.5
JUL	9410	107.6	93.7	6.3	110.1	109.0	107.7	107.0	109.7	108.7	84.5	72.0
AUG	9362	107.1	94.4	5.6	109.3	108.0	108.9	104.8	109.5	108.1	90.0	69.5
SEP	8784	100.5	95.5	4.5	99.6	111.6	107.1	107.1	114.4	108.0	92.1	68.1
OCT	8633	98.7	95.6	4.4	105.8	109.0	107.6	107.4	112.5	108.5	94.4	63.3
NOV	7880	90.1	94.1	5.9	112.9	111.1	110.1	97.8	109.8	108.3	90.6	67.7
DEC	8006	91.6	93.7	6.3	112.6	111.5	110.5	109.4	100.2	108.8	88.2	67.6
ANN	8744		94.4	5.6	107.3	109.5	108.5	105.4	110.5	108.2	90.9	68.0

HISTORICAL DATA

2009	8744
2008	8838
2007	9008
2006	9168
2005	9049
2004	9525
2003	9543
2002	9398

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
11329	10984	10938	10906	10888	10842	10806	10797	10796	10764	10905
05/22	07/31	06/19	07/28	05/05	06/01	05/26	05/01	05/04	05/18	
129.6	125.6	125.1	124.7	124.5	124.0	123.6	123.5	123.5	123.1	124.7

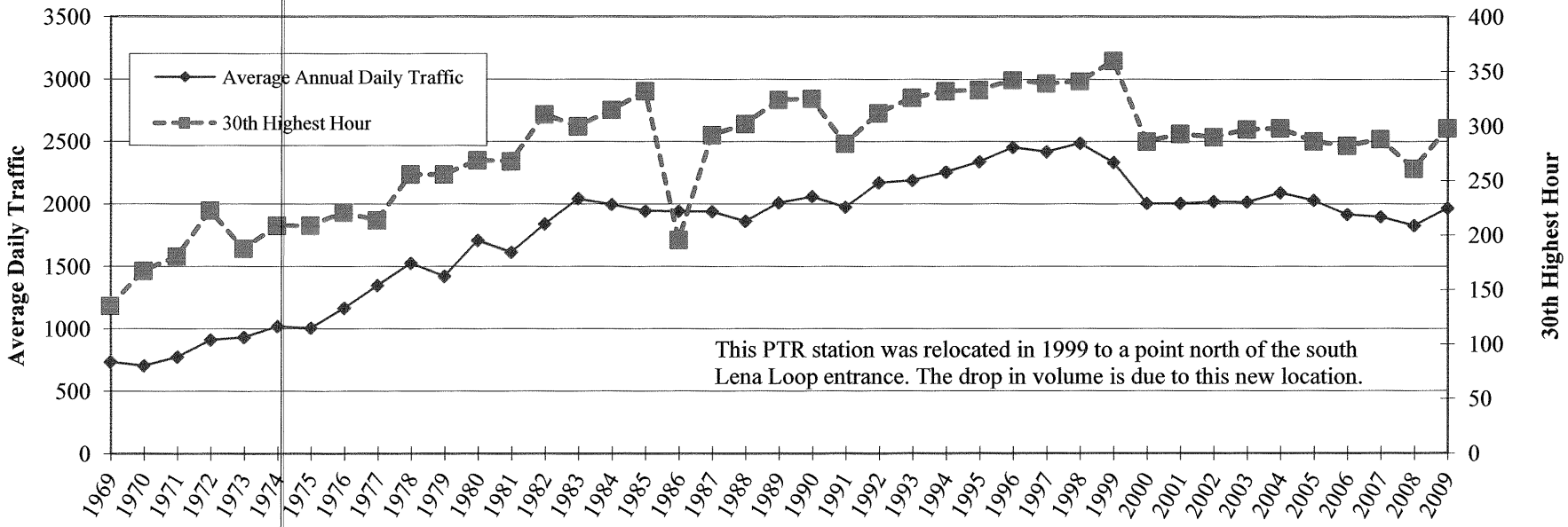
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
1009	982	977	970	969	964	955	953	953	951	936	925	918	910	968
17	17	17	17	17	17	17	17	17	17	17	17	17	16	
05/04	05/06	05/22	04/15	07/28	08/24	06/08	06/02	04/30	04/16	05/14	05/05	07/13	12/18	
11.5	11.2	11.2	11.1	11.1	11.0	10.9	10.9	10.9	10.9	10.7	10.6	10.5	10.4	11.1

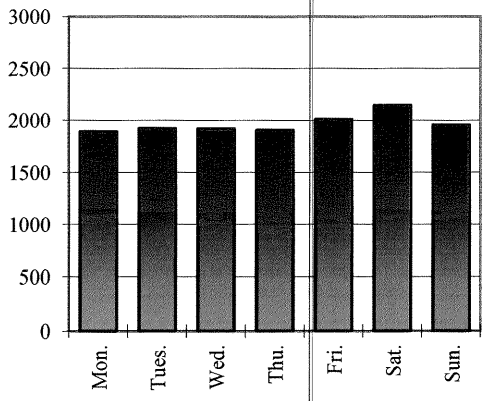
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.7	0.4	0.3	0.2	0.4	0.6	1.8	4.1	5.1	5.4	6.1	7.3	8.3	8.3	8.0	8.3	8.5	7.4	5.6	4.2	3.3	2.6	1.8	1.2

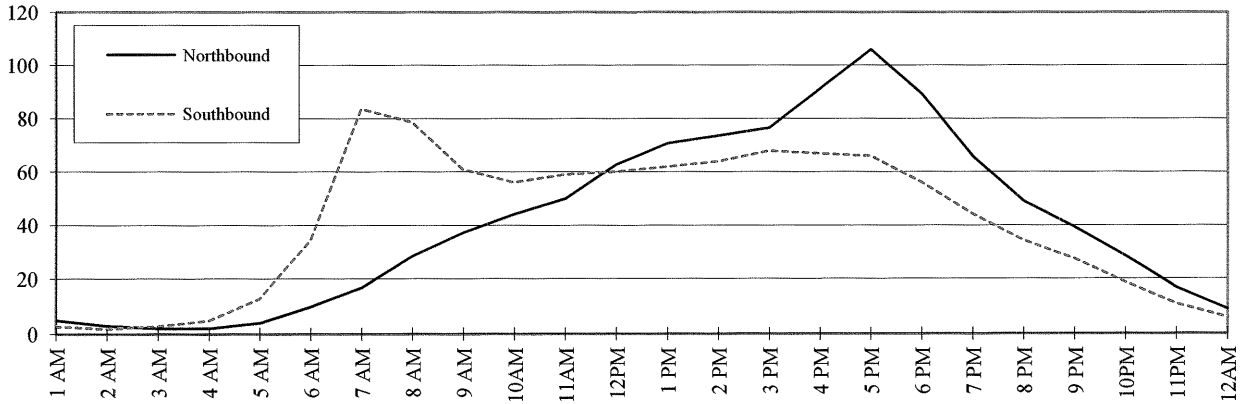
Permanent Traffic Recorder At 16 Mile Glacier Hwy. (CDS MP 14.07)



2009 Annual Average Daily Traffic by Day of Week



2009Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60311000 9

GLACIER HWY BTW N LENA LOOP & AUKE REC ROAD JUNEAU ON 296000 AT MILEPOINT 15.758

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	1374	69.9	93.8	6.2	95.9	99.3	102.5	101.0	102.1	100.2	101.1	98.4
FEB	1466	74.6	94.1	5.9	95.4	95.7	98.1	98.3	107.5	99.0	111.7	93.3
MAR	1506	76.6	93.1	6.9	94.9	97.2	96.7	93.2	98.7	96.1	117.8	101.3
APR	1982	100.9	93.6	6.4	96.3	94.6	100.0	99.2	97.8	97.6	99.4	112.7
MAY	2548	129.7	93.6	6.4	96.0	89.9	87.3	89.5	100.7	92.7	125.2	111.5
JUN	2553	129.9	93.0	7.0	86.6	90.0	101.6	96.6	102.2	95.4	115.7	107.2
JUL	2654	135.1	93.2	6.8	89.4	96.6	89.1	97.8	104.7	95.5	112.4	110.1
AUG	2315	117.8	93.3	6.7	94.4	95.2	101.5	97.8	98.9	97.6	110.4	101.6
SEP	2070	105.3	92.9	7.1	102.3	99.5	94.2	93.0	107.8	99.4	111.9	91.1
OCT	1882	95.8	93.1	6.9	99.4	104.9	98.5	98.7	104.8	101.3	106.8	86.9
NOV	1629	82.9	94.6	5.4	103.3	106.9	103.8	95.9	103.5	102.7	98.0	88.8
DEC	1605	81.7	93.8	6.2	101.5	104.7	99.4	102.6	99.5	101.5	99.7	92.7
ANN	1965		93.5	6.5	96.3	97.9	97.7	97.0	102.4	98.3	109.2	99.6

HISTORICAL DATA

2009	1965
2008	1825
2007	1899
2006	1914
2005	2028
2004	2089
2003	2015
2002	2019
2001	2005
2000	2005
1999	2333
1998	2487
1997	2419
1996	2454
1995	2339
1994	2256
1993	2190
1992	2171
1991	1975
1990	2060
1989	2010
1988	1862
1987	1939
1986	1942
1985	1944

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
3865	3673	3535	3499	3438	3420	3403	3338	3220	3206	3460
05/02	06/06	06/07	07/05	07/25	05/31	05/24	06/05	05/23	05/16	
196.7	186.9	179.9	178.1	175.0	174.0	173.2	169.9	163.9	163.2	176.1

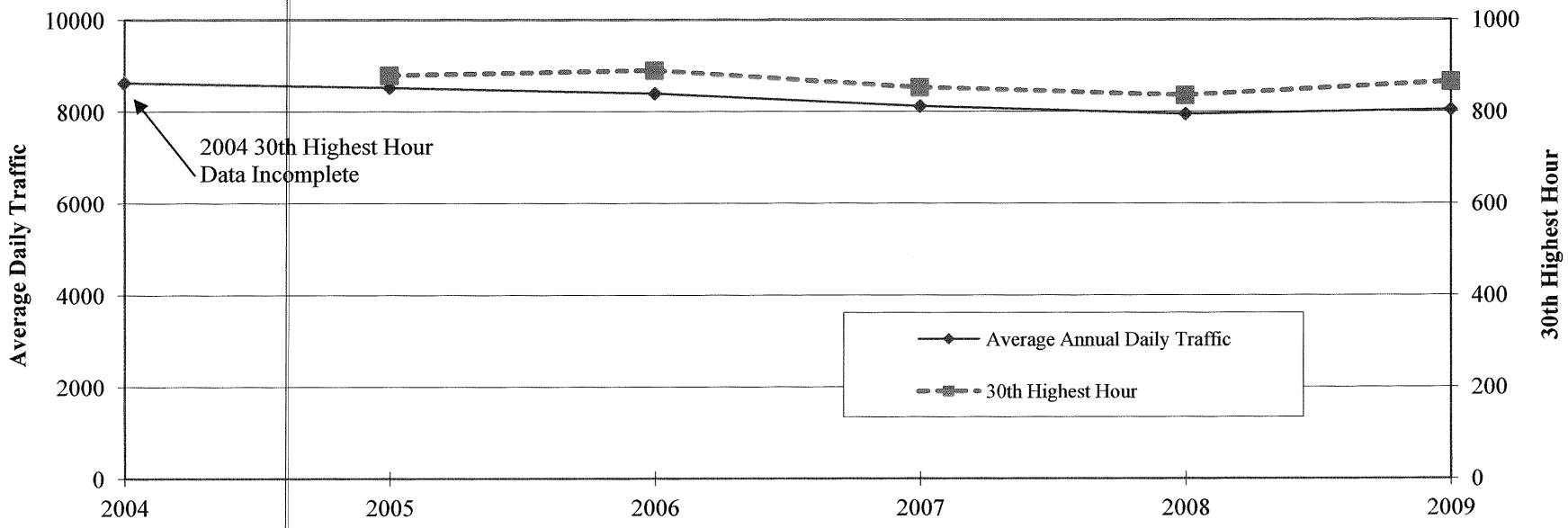
HIGHEST HOURS

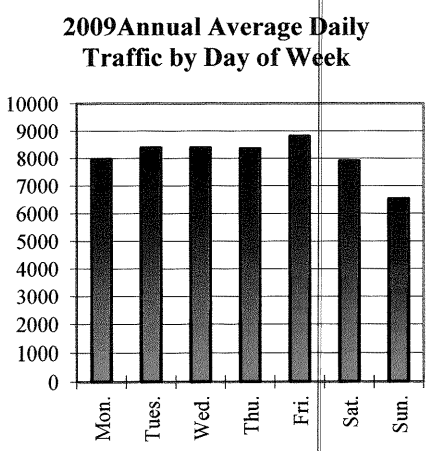
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
379	361	359	359	357	339	329	328	327	325	307	298	287	276	346
16	17	15	13	16	15	14	16	16	14	17	15	14	17	
06/06	05/02	07/05	05/24	05/02	05/02	05/31	07/25	06/07	07/25	06/05	06/06	05/24	07/30	
19.3	18.4	18.3	18.3	18.2	17.3	16.7	16.7	16.6	16.5	15.6	15.2	14.6	14.0	17.6

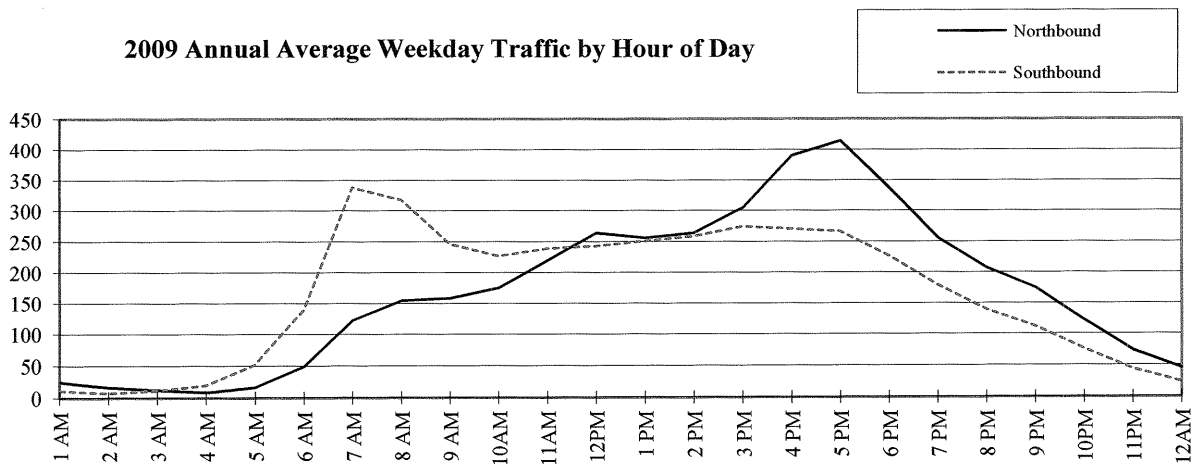
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.4	0.2	0.2	0.4	0.9	2.3	5.1	5.5	5.0	5.1	5.5	6.3	6.8	7.0	7.4	8.1	8.7	7.4	5.6	4.2	3.4	2.4	1.4	0.8

Permanent Traffic Recorder At Douglas Hwy (CDS Mi 1.04)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60348000 9

DOUGLAS HIGHWAY AT JOHN STREET **PTR***TOTAL*** ON 296110 AT MILEPOINT 1.058

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	7155	88.9	93.0	7.0	96.0	107.5	108.1	101.3	109.0	104.4	97.2	80.7
FEB	6995	87.0	93.4	6.6	96.4	104.7	104.3	104.1	108.0	103.5	100.4	82.0
MAR	7531	93.6	93.3	6.7	100.0	102.3	104.2	103.0	108.8	103.7	100.6	81.0
APR	8374	104.1	93.4	6.6	102.4	102.8	104.3	104.5	108.6	104.5	93.0	84.3
MAY	8768	109.0	93.1	6.9	96.3	103.6	101.9	105.3	111.9	103.8	97.4	83.6
JUN	9044	112.4	92.6	7.4	96.2	100.9	103.2	104.7	108.6	102.7	101.1	85.3
JUL	8835	109.8	92.2	7.8	98.0	101.8	101.2	104.7	110.3	103.2	102.8	81.2
AUG	8402	104.5	92.9	7.1	100.3	103.5	104.6	102.8	114.6	105.2	94.8	79.3
SEP	8154	101.4	93.1	6.9	97.5	105.7	104.1	104.9	112.1	104.9	97.2	78.5
OCT	8126	101.0	93.0	7.0	98.9	104.8	101.9	105.5	111.0	104.4	100.5	77.4
NOV	7574	94.2	93.3	6.7	104.2	108.8	103.3	97.9	107.9	104.4	97.5	80.4
DEC	7569	94.1	92.7	7.3	102.6	104.7	102.7	107.5	102.8	104.1	97.5	82.2
ANN	8044		93.0	7.0	99.1	104.3	103.7	103.9	109.5	104.1	98.3	81.3

HISTORICAL DATA

2009	8044
2008	7948
2007	8146
2006	8399
2005	8528
2004	8638

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
12346	11481	11246	11183	11051	10378	10270	10213	10178	10027	10837
07/04	06/27	08/21	07/03	06/05	06/03	06/02	07/02	05/22	06/04	
153.5	142.7	139.8	139.0	137.4	129.0	127.7	127.0	126.5	124.7	134.7

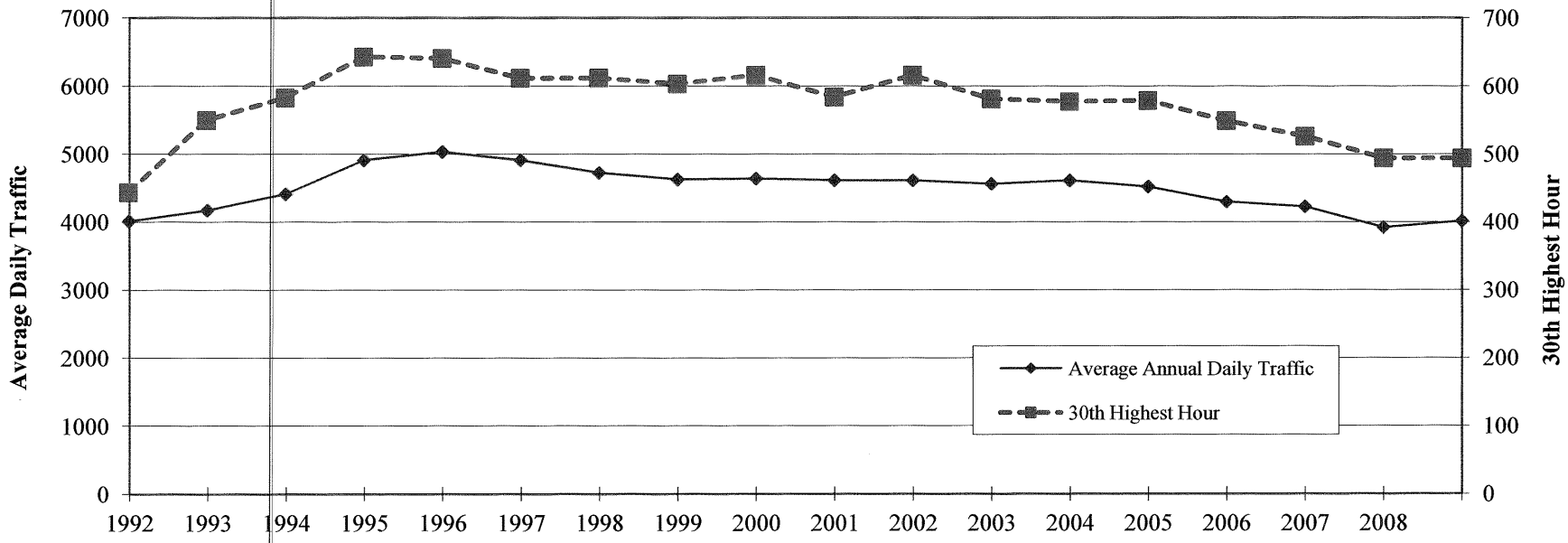
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
1493	1413	1159	1106	1067	1023	1023	1011	989	960	886	866	853	847	1124
17	16	17	18	18	16	14	12	13	15	17	14	16	16	
08/21	08/21	07/04	07/04	08/21	07/04	06/27	06/27	06/27	06/27	06/03	06/28	06/16	07/09	
18.6	17.6	14.4	13.7	13.3	12.7	12.7	12.6	12.3	11.9	11.0	10.8	10.6	10.5	14.0

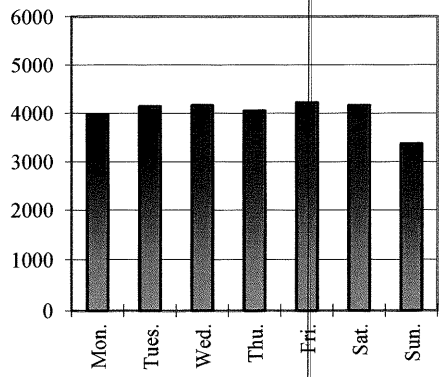
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.6	0.4	0.3	0.3	0.7	2.0	5.1	5.6	4.8	4.9	5.6	6.7	6.5	6.4	7.0	8.3	8.5	7.2	5.6	4.4	3.7	2.7	1.7	1.0

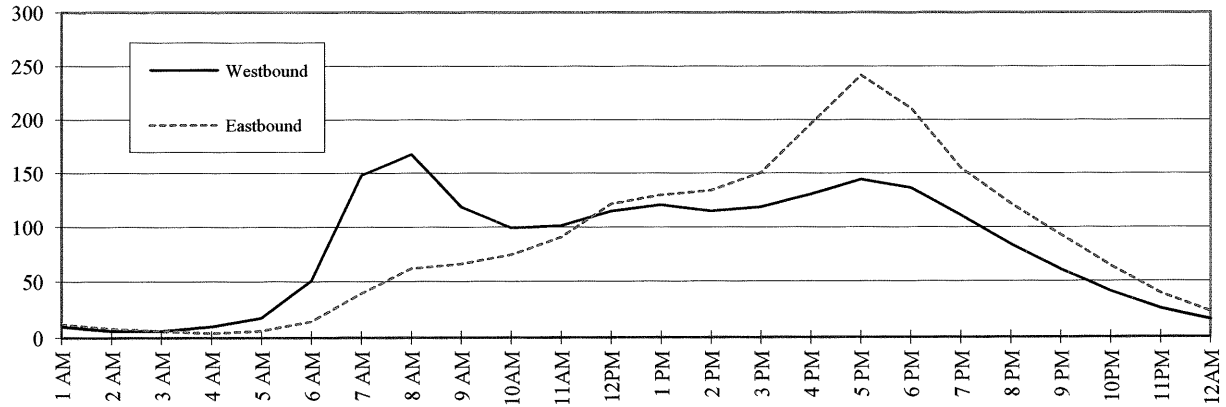
Permanent Traffic Recorder At Riverside Dr. (CDS Mi 1.47)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60500370 0

RIVERSIDE PTR CEMETARY ACCESS TO DIVISION JUNEAU ON 296500 AT MILEPOINT 1.471

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	3685	91.8	93.5	6.5	99.7	106.9	105.4	96.4	105.4	102.8	101.5	84.7
FEB	3819	95.2	94.0	6.0	99.1	102.9	105.3	100.4	109.6	103.5	100.3	82.3
MAR	3751	93.5	94.0	6.0	102.7	103.9	104.4	98.3	105.3	102.9	104.0	81.5
APR	4068	101.4	94.2	5.8	102.5	102.0	103.5	102.9	103.4	102.9	104.1	81.5
MAY	4474	111.5	94.4	5.6	96.8	100.3	100.0	98.7	106.1	100.4	114.7	83.5
JUN	4664	116.2	93.9	6.1	99.4	98.1	103.7	102.8	104.1	101.6	109.9	82.1
JUL	3986	99.3	92.4	7.6	83.7	101.6	104.3	103.8	102.6	99.2	97.9	106.0
AUG	4144	103.3	93.7	6.3	102.6	103.6	105.5	101.0	105.0	103.5	99.7	82.6
SEP	3996	99.6	94.0	6.0	96.9	103.5	102.8	103.3	111.2	103.5	103.4	78.8
OCT	3942	98.2	93.8	6.2	98.8	103.2	101.5	103.4	106.6	102.7	106.5	79.9
NOV	3765	93.8	93.8	6.2	103.4	107.2	104.4	94.1	106.0	103.0	103.2	81.6
DEC	3864	96.3	92.9	7.1	103.3	104.7	104.1	106.2	96.7	103.0	100.9	83.9
ANN	4013		93.7	6.3	99.1	103.2	103.7	100.9	105.2	102.4	103.8	84.0

HISTORICAL DATA

2009	4013
2008	3919
2007	4228
2006	4298
2005	4522
2004	4613
2003	4563
2002	4615
2001	4617
2000	4641
1999	4630
1998	4727
1997	4914
1996	5036
1995	4912
1994	4413
1993	4173
1992	4014

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
5404	5390	5127	5111	5086	5003	4968	4927	4855	4850	5072
05/02	05/09	06/06	05/30	05/16	05/01	05/22	06/03	06/05	06/01	
134.7	134.3	127.8	127.4	126.7	124.7	123.8	122.8	121.0	120.9	126.4

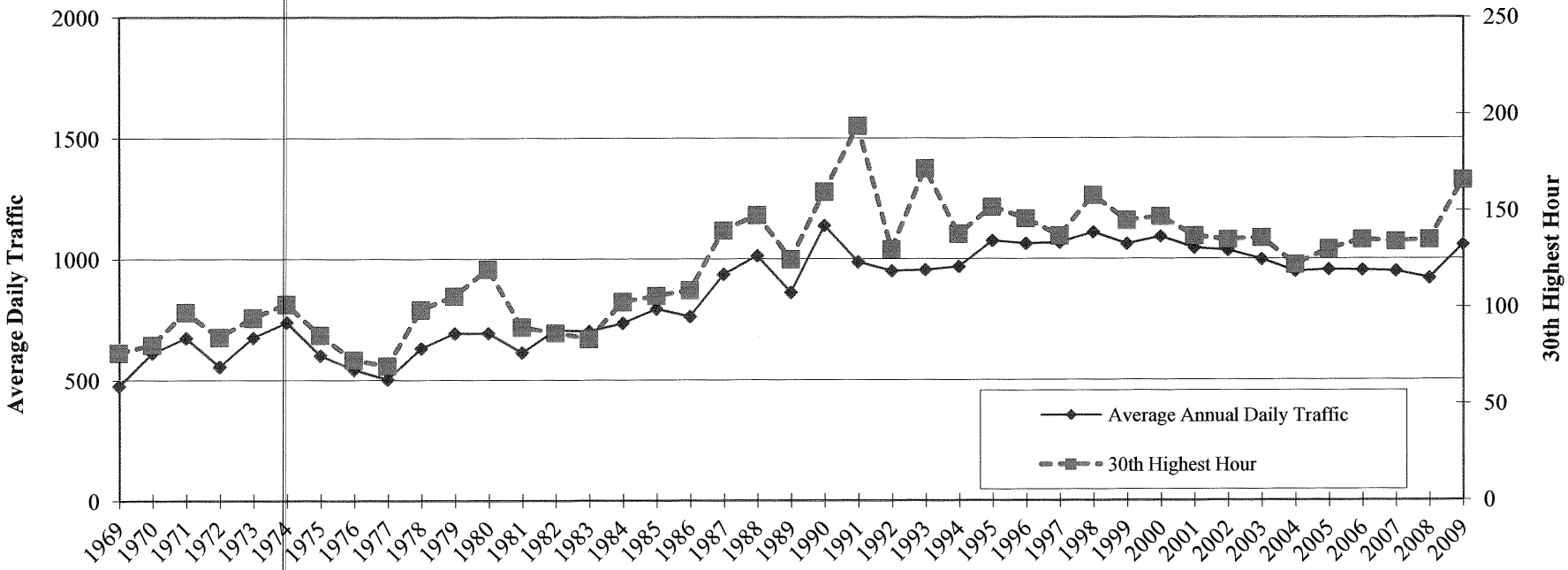
HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
539	539	531	527	526	521	520	519	517	517	501	494	486	474	526
17	18	17	17	17	17	17	17	17	17	17	17	17	17	
05/12	02/18	05/04	07/08	05/07	09/17	05/26	05/05	08/18	04/28	08/27	04/29	05/11	08/31	
13.4	13.4	13.2	13.1	13.1	13.0	13.0	12.9	12.9	12.9	12.5	12.3	12.1	11.8	13.1

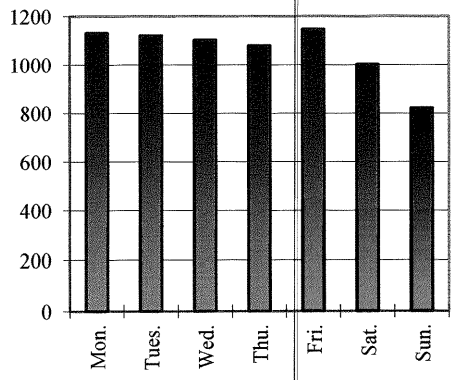
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.6	0.3	0.3	0.3	0.6	1.6	4.7	5.7	4.6	4.3	4.8	5.9	6.2	6.2	6.7	8.1	9.6	8.7	6.6	5.1	3.8	2.6	1.6	0.9

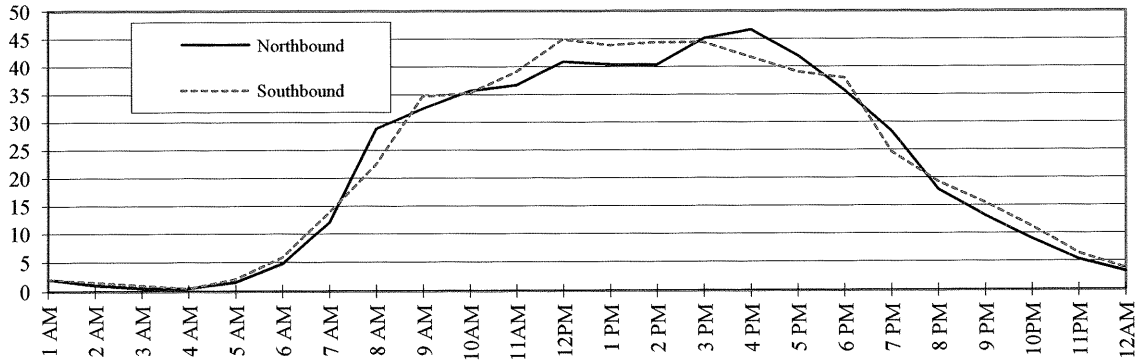
Permanent Traffic Recorder At 5 Mi. Haines Hwy. (CDS MP 1.29)



2009 Annual Average Daily Traffic by Day of Week



2009 Annual Average Weekday Traffic by Hour of Day



ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60621000 9

HAINES HWY BTW SAWMILL & AIRPORT RDS 1200 FT N OF PIEDA ON 298000 AT MILEPOINT 1.315

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	596	56.3	95.4	4.6	102.7	115.1	109.8	97.4	105.4	106.1	94.0	75.6
FEB	680	64.3	96.4	3.6	101.1	98.6	110.2	104.3	116.3	106.1	93.0	76.2
MAR	743	70.2	96.2	3.8	106.3	106.2	103.0	98.1	102.2	103.2	103.1	80.5
APR	975	92.2	96.2	3.8	107.5	97.2	107.0	107.6	111.6	106.2	88.5	80.6
MAY	1259	119.0	95.5	4.5	104.1	105.4	104.9	101.1	107.2	104.5	96.1	81.5
JUN	1460	138.0	95.2	4.8	106.7	104.1	98.7	98.6	105.8	102.8	102.7	83.4
JUL	1633	154.3	95.3	4.7	101.4	106.9	98.8	108.5	117.3	106.6	90.8	76.4
AUG	1427	134.9	95.7	4.3	115.3	97.1	105.4	103.7	106.0	105.5	94.1	78.3
SEP	1375	130.0	96.4	3.6	110.5	106.3	107.3	106.7	101.1	106.4	93.4	74.7
OCT	1127	106.5	97.2	2.8	108.7	103.9	100.7	100.2	110.8	104.9	94.0	81.8
NOV	750	70.9	96.9	3.1	112.8	117.0	105.2	97.6	113.1	109.1	86.3	68.5
DEC	676	63.9	95.9	4.1	105.6	113.7	100.1	101.5	103.4	104.9	100.1	75.4
ANN	1058		96.0	4.0	106.9	106.0	104.3	102.1	108.4	105.5	94.7	77.7

HISTORICAL DATA

2009	1058
2008	920
2007	950
2006	953
2005	955
2004	948
2003	998
2002	1035
2001	1045
2000	1092
1999	1062
1998	1110
1997	1067
1996	1063
1995	1075
1994	968
1993	955
1992	951
1991	988
1990	998
1989	883
1988	1014
1987	937
1986	763
1985	794

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
2308	2089	2080	2063	2059	1934	1926	1919	1910	1852	2014
07/17	09/14	07/14	06/20	07/31	08/31	07/30	07/13	07/09	07/10	
218.1	197.4	196.6	195.0	194.6	182.8	182.0	181.4	180.5	175.0	190.4

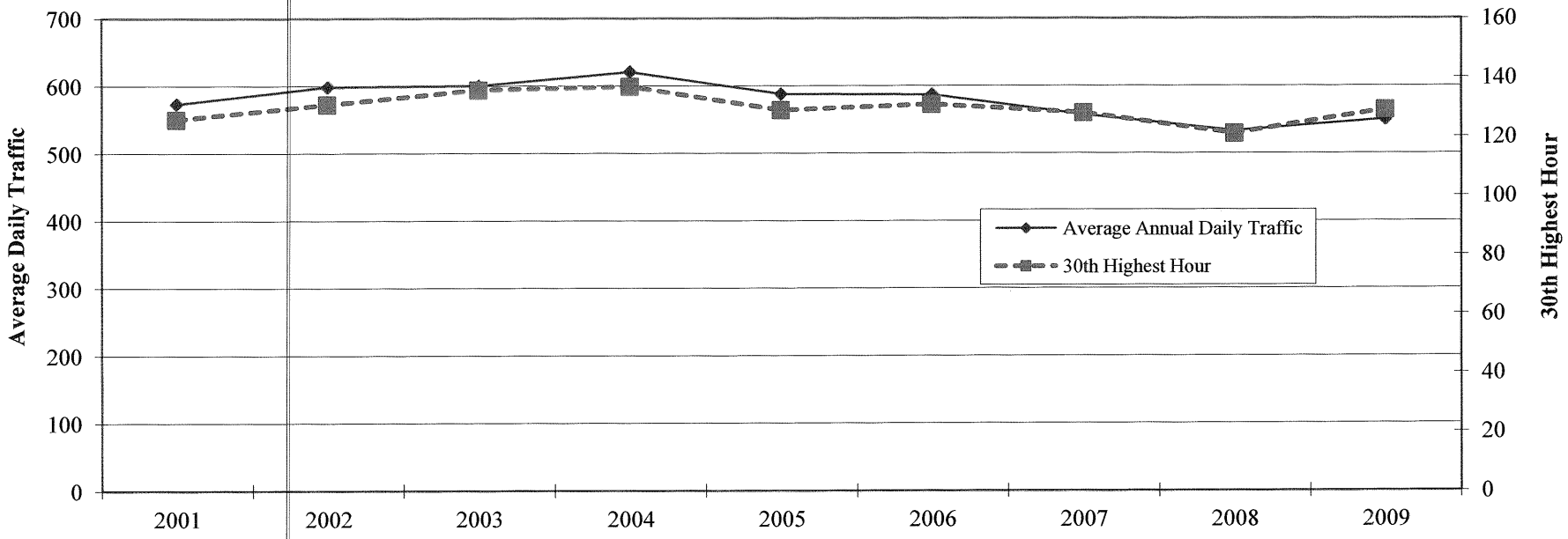
HIGHEST HOURS

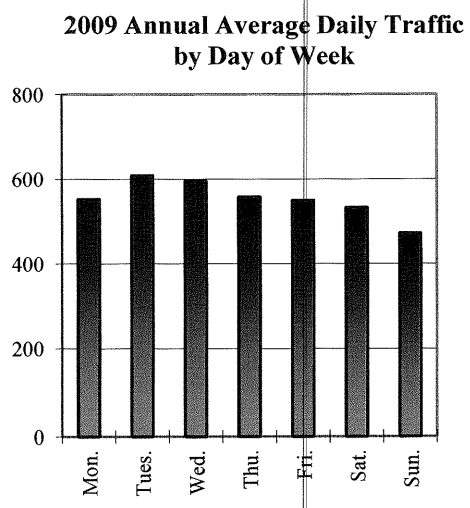
1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
306	223	211	208	206	202	193	188	183	183	172	166	160	155	210
18	17	16	16	15	15	12	14	13	11	16	15	10	18	
06/20	06/20	09/28	06/20	06/22	08/31	10/12	07/13	08/31	07/17	06/08	07/10	08/31	07/31	
28.9	21.1	19.9	19.7	19.5	19.1	18.2	17.8	17.3	17.3	16.3	15.7	15.1	14.7	19.8

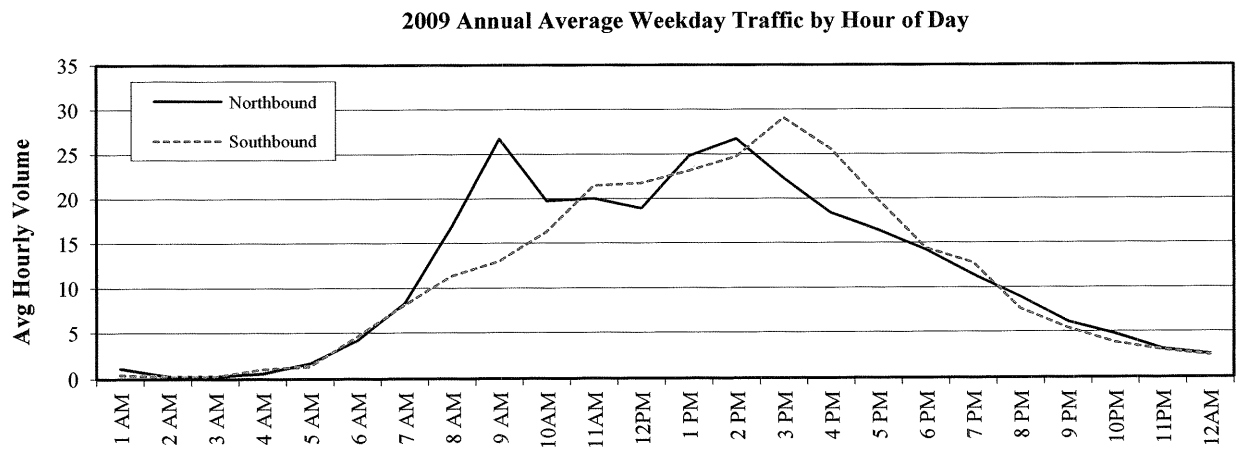
PERCENT BY HOUR

AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.4	0.2	0.2	0.1	0.3	1.0	2.5	4.8	6.3	6.7	7.1	8.1	7.9	8.0	8.5	8.3	7.6	7.0	5.0	3.5	2.7	1.9	1.1	0.7

Permanent Traffic Recorder on Klondike Highway (CDS MP 2.55)







ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
TRAFFIC STUDIES
FIXED RECORDER SUMMARY: 2009
RECORDER NUMBER 60711000 9

KLONDIKE HWY BTW DYEA & SANITORIUM RD,SKAGWAY ON 299500 AT MILEPOINT 2.548

MONTH	MADT	%	6-10	10-6	MON	TUE	WED	THU	FRI	WKDY	SAT	SUN
JAN	146	26.5	90.6	9.4	104.1	109.4	109.8	103.7	103.8	106.2	91.8	76.0
FEB	201	36.5	93.5	6.5	101.2	107.7	100.0	99.0	111.9	104.0	114.1	64.9
MAR	271	49.3	92.8	7.2	99.3	106.6	97.2	92.5	98.6	98.8	114.9	89.9
APR	409	74.4	95.2	4.8	102.1	105.7	90.9	94.1	99.0	98.4	106.1	101.9
MAY	807	146.7	95.7	4.3	102.9	99.2	101.4	104.4	93.2	100.2	94.1	104.4
JUN	1068	194.2	95.4	4.6	101.8	115.5	112.9	108.4	88.0	105.3	81.5	91.8
JUL	1221	222.0	95.1	4.9	97.7	111.6	107.5	109.3	89.1	103.0	91.7	92.5
AUG	1091	198.4	95.6	4.4	99.4	115.8	115.3	108.8	88.0	105.5	82.8	89.4
SEP	788	143.3	95.3	4.7	98.1	108.4	102.0	103.6	102.8	103.0	91.0	94.4
OCT	255	46.4	94.4	5.6	96.8	115.7	104.5	102.4	105.3	104.9	99.2	75.3
NOV	183	33.3	96.2	3.8	102.0	118.4	103.1	93.4	116.3	106.6	95.2	73.9
DEC	165	30.0	94.6	5.4	101.4	114.4	106.4	97.9	103.9	104.8	100.5	76.1
ANN	550		94.5	5.5	100.6	110.7	104.3	101.5	100.0	103.4	96.9	85.9

HISTORICAL DATA

2009	550
2008	533
2007	558
2006	587
2005	588
2004	621
2003	601
2002	599
2001	574
2000	879
1999	872
1996	659
1995	571
1994	584
1993	542
1992	
1991	608
1990	742
1989	608
1988	545
1987	660

HIGHEST DAYS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	AVG
1438	1428	1413	1402	1385	1375	1361	1354	1341	1337	1383
06/30	07/01	07/02	07/08	07/21	07/28	07/07	07/09	07/23	08/04	
261.5	259.6	256.9	254.9	251.8	250.0	247.5	246.2	243.8	243.1	251.5

HIGHEST HOURS

1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	10TH	20TH	30TH	40TH	50TH	AVG
151	150	149	148	144	144	141	141	141	141	133	129	126	123	145
14	13	14	14	14	15	14	14	19	13	15	13	14	9	
06/30	07/02	07/30	08/18	06/23	05/18	08/11	07/23	09/11	05/18	07/01	05/16	07/16	07/07	
27.5	27.3	27.1	26.9	26.2	26.2	25.6	25.6	25.6	25.6	24.2	23.5	22.9	22.4	26.4

PERCENT BY HOUR

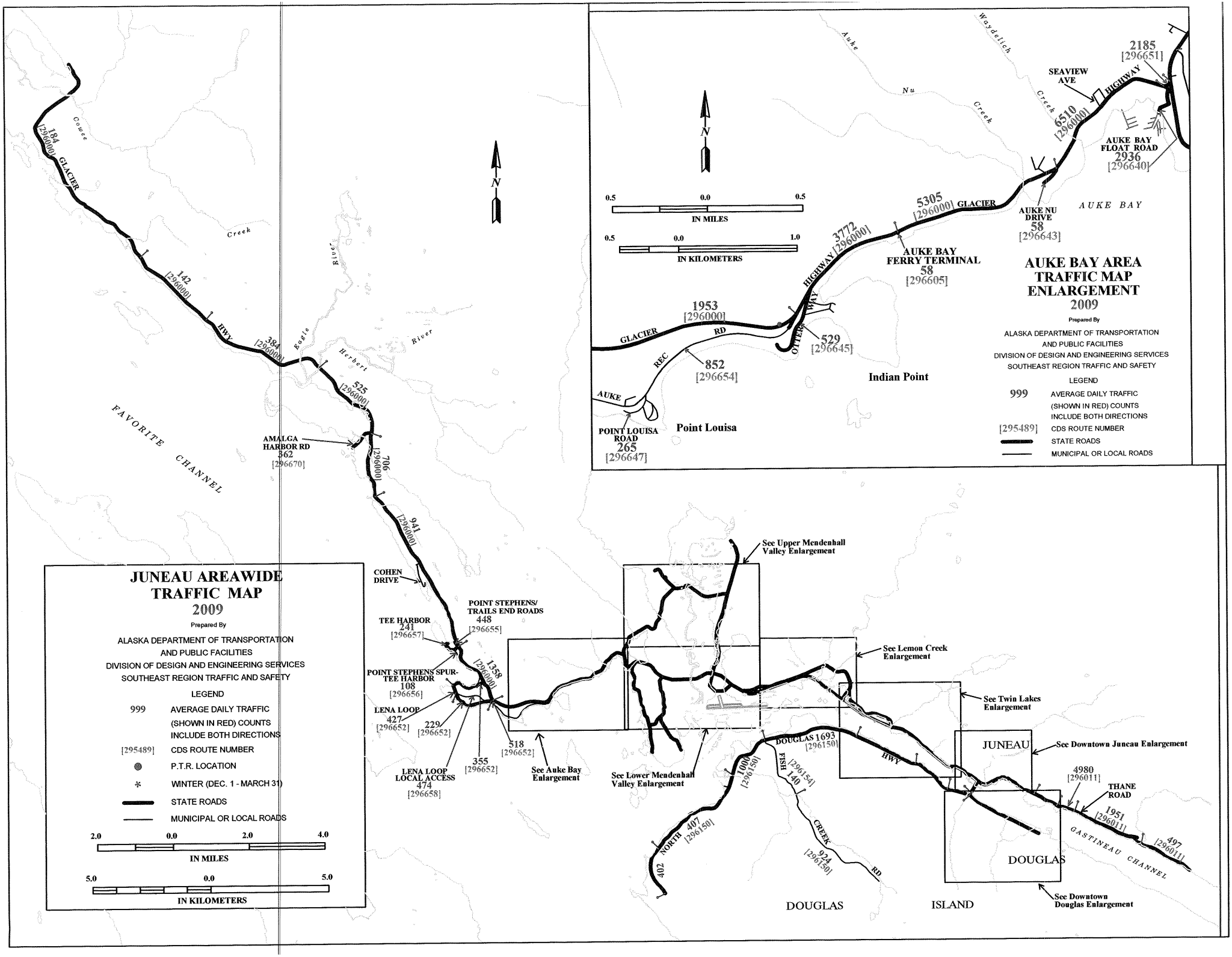
AM												PM											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
0.3	0.1	0.1	0.3	0.5	1.6	3.0	5.2	7.3	6.6	7.6	7.4	8.7	9.4	9.3	8.0	6.6	5.2	4.4	3.0	2.1	1.5	1.1	0.9

C. Average Daily Traffic Maps

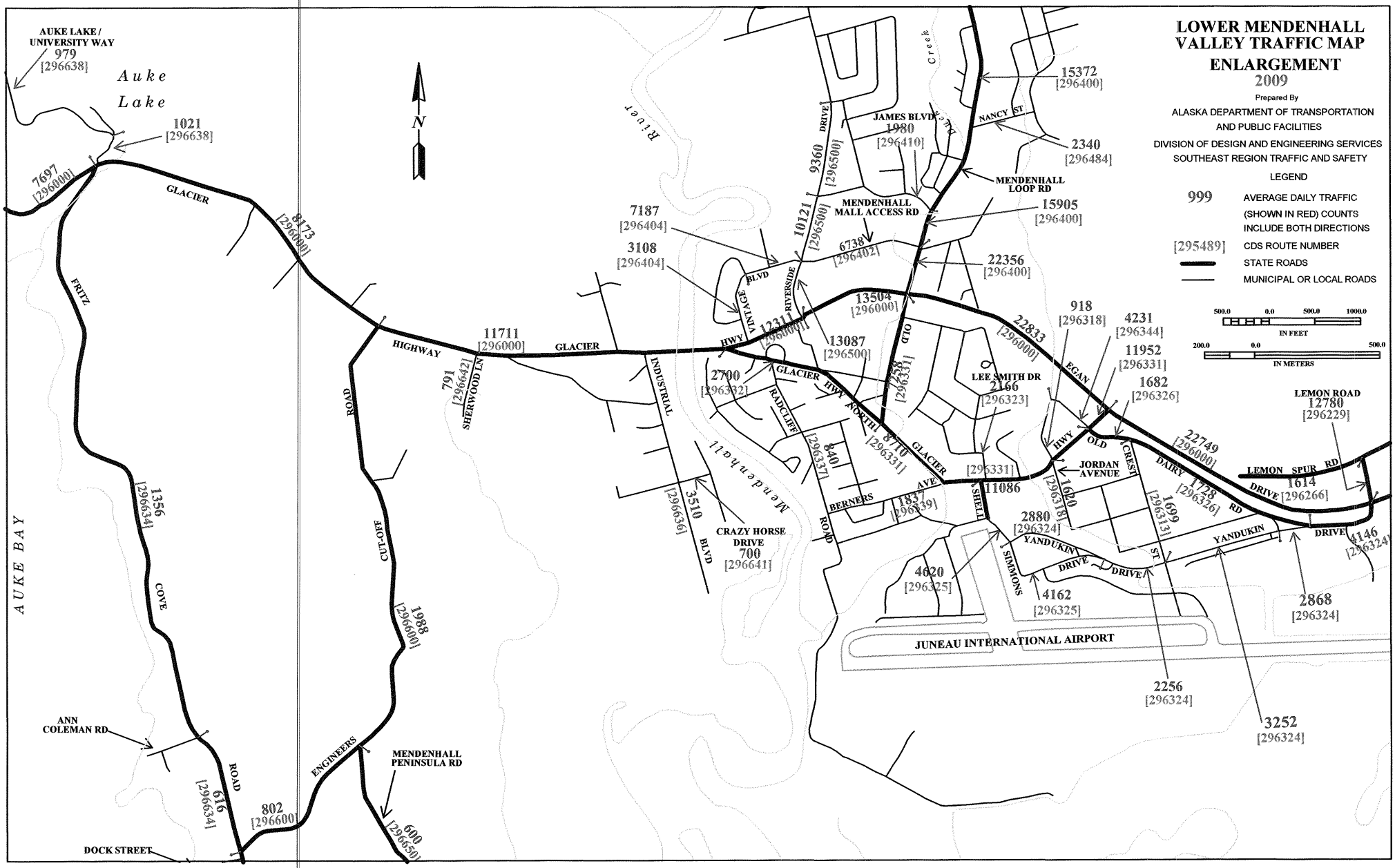
The volumes shown on the traffic maps denote average daily traffic (ADT) during 2008. This data is derived from the traffic volume counts which are done between May and October. Since it is impractical to do a count on every road in the region in a single year, they are done on a three year rotating schedule. The maps have been prepared by the Department's Mapping Section from data collected by the Southeast Traffic and Safety Section.

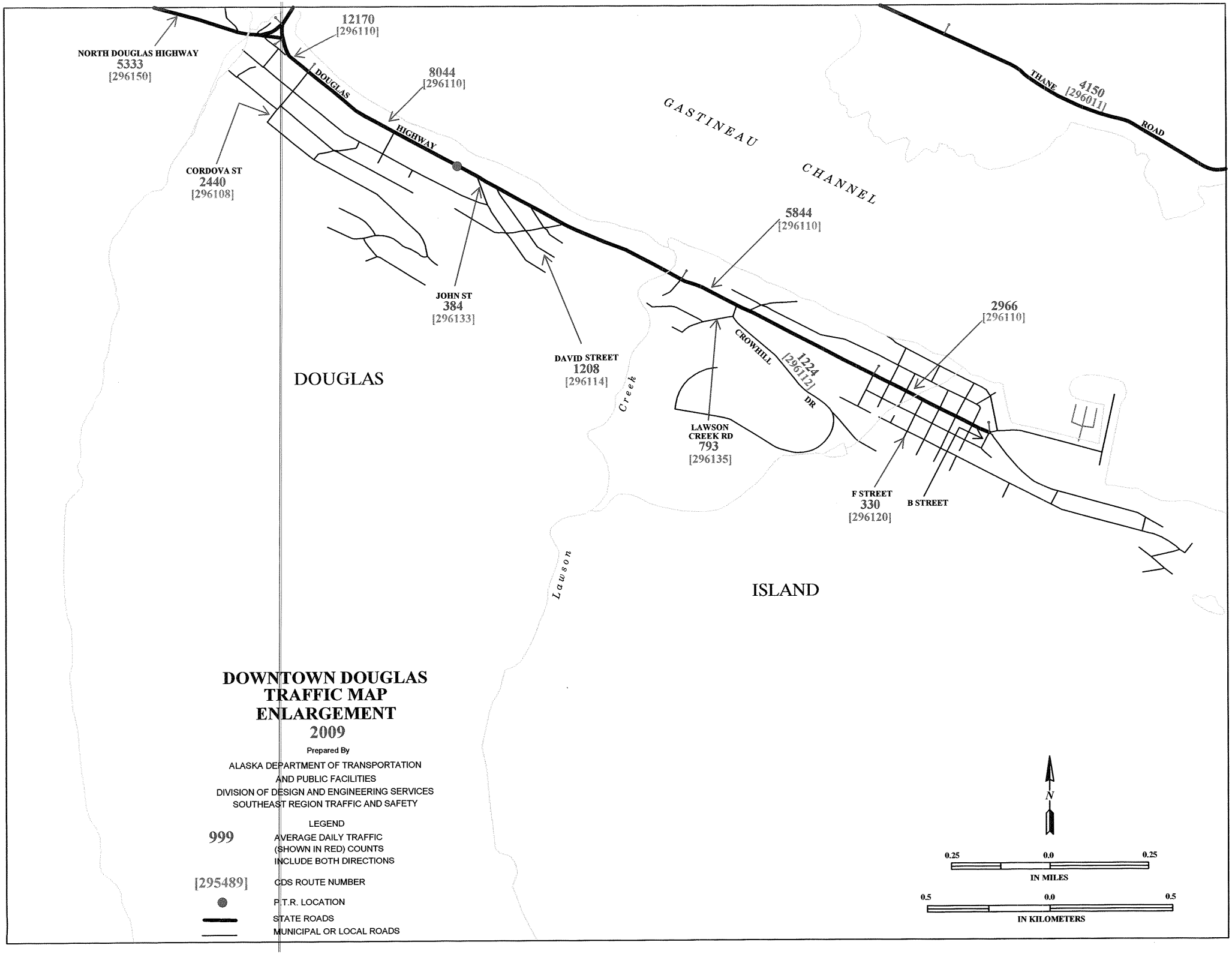
The "push pin" tick marks along roads define the boundary between road segments. The ADT's marked indicate the average traffic, under statistically derived normal conditions, between the tick marks or major road intersections.

The traffic map file sizes are too large to fit in this Adobe Acrobat document. They may be found online at http://dot.alaska.gov/stwdplng/mapping/trafficmaps/adtsoutheast.shtml.



JUNEAU AREAWIDE TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
P.T.R. LOCATION
WINTER (DEC. 1 - MARCH 31)
STATE ROADS
MUNICIPAL OR LOCAL ROADS
2.0 0.0 2.0 4.0
IN MILES
5.0 0.0 5.0
IN KILOMETERS
N
184 [296000] GLACIER
142 [296000] HWY
384 [296000]
525 [296000]
706 [296000]
941 [296000]
1358 [296000]
AMALGA HARBOR RD 362 [296670]
COHEN DRIVE
TEE HARBOR 241 [296657]
POINT STEPHENS/ TRAILS END ROADS 448 [296655]
POINT STEPHENS SPUR-TEE HARBOR 108 [296656]
LENA LOOP 427 [296652]
229 [296652]
355 [296652]
518 [296652]
LENA LOOP LOCAL ACCESS 474 [296658]
See Auke Bay Enlargement
See Lower Mendenhall Valley Enlargement
See Upper Mendenhall Valley Enlargement
See Lemon Creek Enlargement
See Twin Lakes Enlargement
See Downtown Juneau Enlargement
See Downtown Douglas Enlargement
JUNEAU
DOUGLAS
DOUGLAS ISLAND
GASTINEAU CHANNEL
4980 [296011]
THANE ROAD
1951 [296011]
497 [296011]
DOUGLAS 1693 [296150]
HWY
1000 [296150]
FISH 140 [296154]
CREEK RD
924 [296150]
NORTH 407 [296150]
402
FAVORITE CHANNEL
Cowee Creek
Eagle River
Herbert River
AUKE BAY AREA TRAFFIC MAP ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
0.5 0.0 0.5
IN MILES
0.5 0.0 1.0
IN KILOMETERS
2185 [296651]
SEAVIEW AVE
HIGHWAY
6510 [296000]
AUKE BAY FLOAT ROAD 2936 [296640]
AUKE NU DRIVE 58 [296643]
AUKE BAY
5305 [296000] GLACIER
AUKE BAY FERRY TERMINAL 58 [296605]
3772 [296000] HIGHWAY
OTTER WAY
529 [296645]
1953 [296000]
GLACIER RD
852 [296654]
AUKE REC
POINT LOUISA ROAD 265 [296647]
Point Louisa
Indian Point
Auke Nu Creek
Waydelich Creek


LOWER MENDENHALL VALLEY TRAFFIC MAP ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
IN FEET
IN METERS
AUKE LAKE / UNIVERSITY WAY
979 [296638]
Auke Lake
1021 [296638]
7697 [296000]
GLACIER
8173 [296000]
FRITZ
HIGHWAY
11711 [296000]
GLACIER
791 [296642]
SHERWOOD LN
ROAD
CUT-OFF
1988 [296600]
1356 [296634]
COVE
ROAD
ANN COLEMAN RD
616 [296634]
802 [296600]
ENGINEERS
MENDENHALL PENINSULA RD
600 [296650]
DOCK STREET
AUKE BAY
River
Mendenhall
INDUSTRIAL
3510 [296636]
CRAZY HORSE DRIVE
700 [296641]
BLVD
7187 [296404]
3108 [296404]
VINTAGE
BLVD
RIVERSIDE
12311 [296000]
13087 [296500]
2700 [296332]
GLACIER
HWY
RADCLIFF
840 [296337]
NORTH
8710 [296331]
GLACIER
BERNERS
AVE
1837 [296339]
ROAD
SHELL
11086 [296331]
OLD
13504 [296000]
10121 [296500]
9360 [296500]
DRIVE
JAMES BLVD
1980 [296410]
6738 [296402]
MENDENHALL MALL ACCESS RD
MENDENHALL LOOP RD
15372 [296400]
NANCY ST
2340 [296484]
15905 [296400]
22356 [296400]
22833 [296000]
LEE SMITH DR
2166 [296323]
918 [296318]
4231 [296344]
11952 [296331]
1682 [296326]
EGAN
HWY
OLD
JORDAN AVENUE
1620 [296318]
CREST
DAIRY
1728 [296326]
22749 [296000]
LEMON ROAD
12780 [296229]
LEMON SPUR RD
1614 [296266]
DRIVE
1699 [296313]
RD
YANDUKIN
DRIVE
4146 [296324]
2868 [296324]
2880 [296324]
YANDUKIN
DRIVE
DRIVE
ST
SIMMONS
4620 [296325]
4162 [296325]
JUNEAU INTERNATIONAL AIRPORT
2256 [296324]
3252 [296324]



DOWNTOWN DOUGLAS TRAFFIC MAP ENLARGEMENT 2009

Prepared By

ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

LEGEND

999	AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489]	CDS ROUTE NUMBER
●	P.T.R. LOCATION
▬	STATE ROADS
═	MUNICIPAL OR LOCAL ROADS

DOWNTOWN JUNEAU TRAFFIC MAP ENLARGEMENT

2009

Prepared By

ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

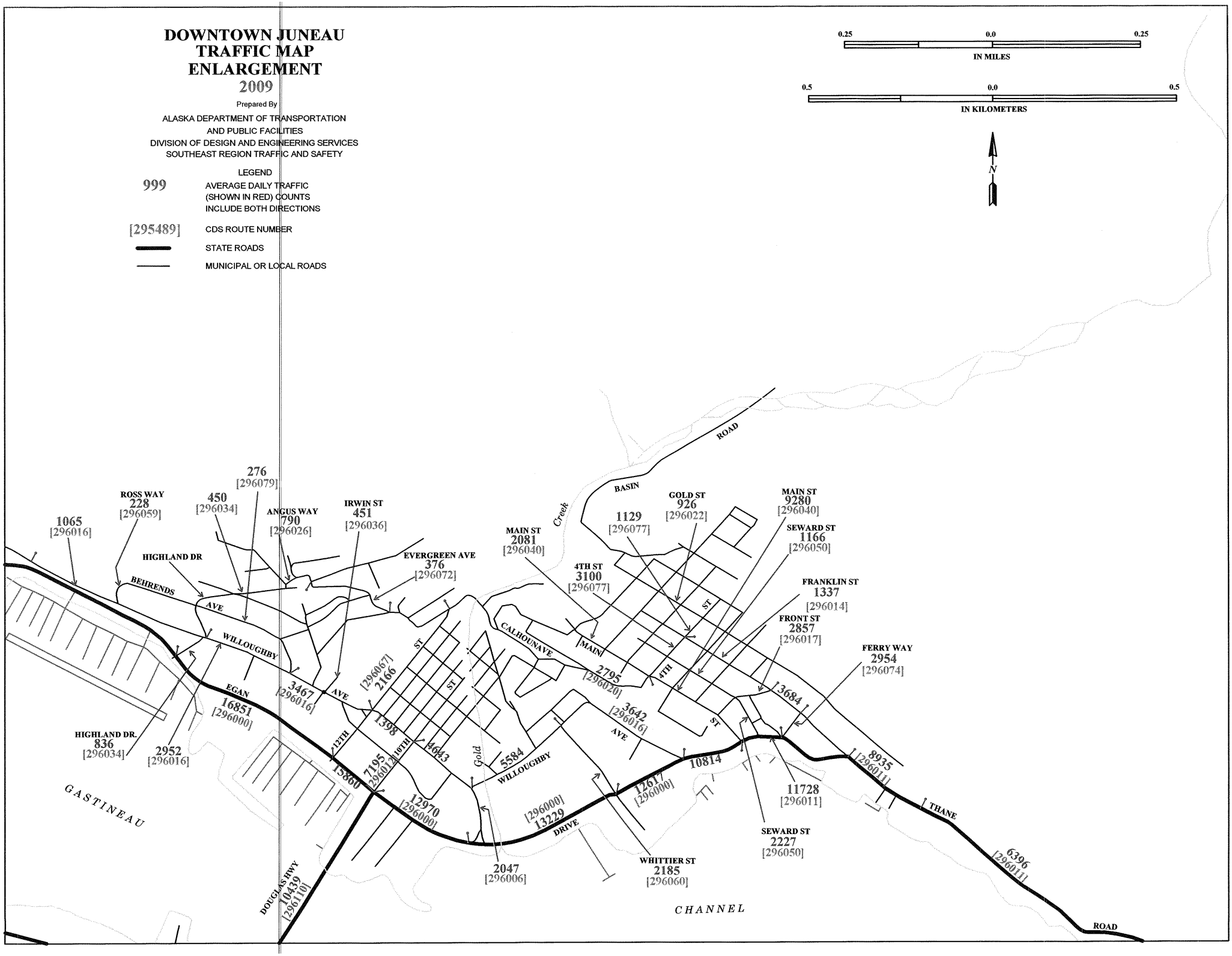
LEGEND

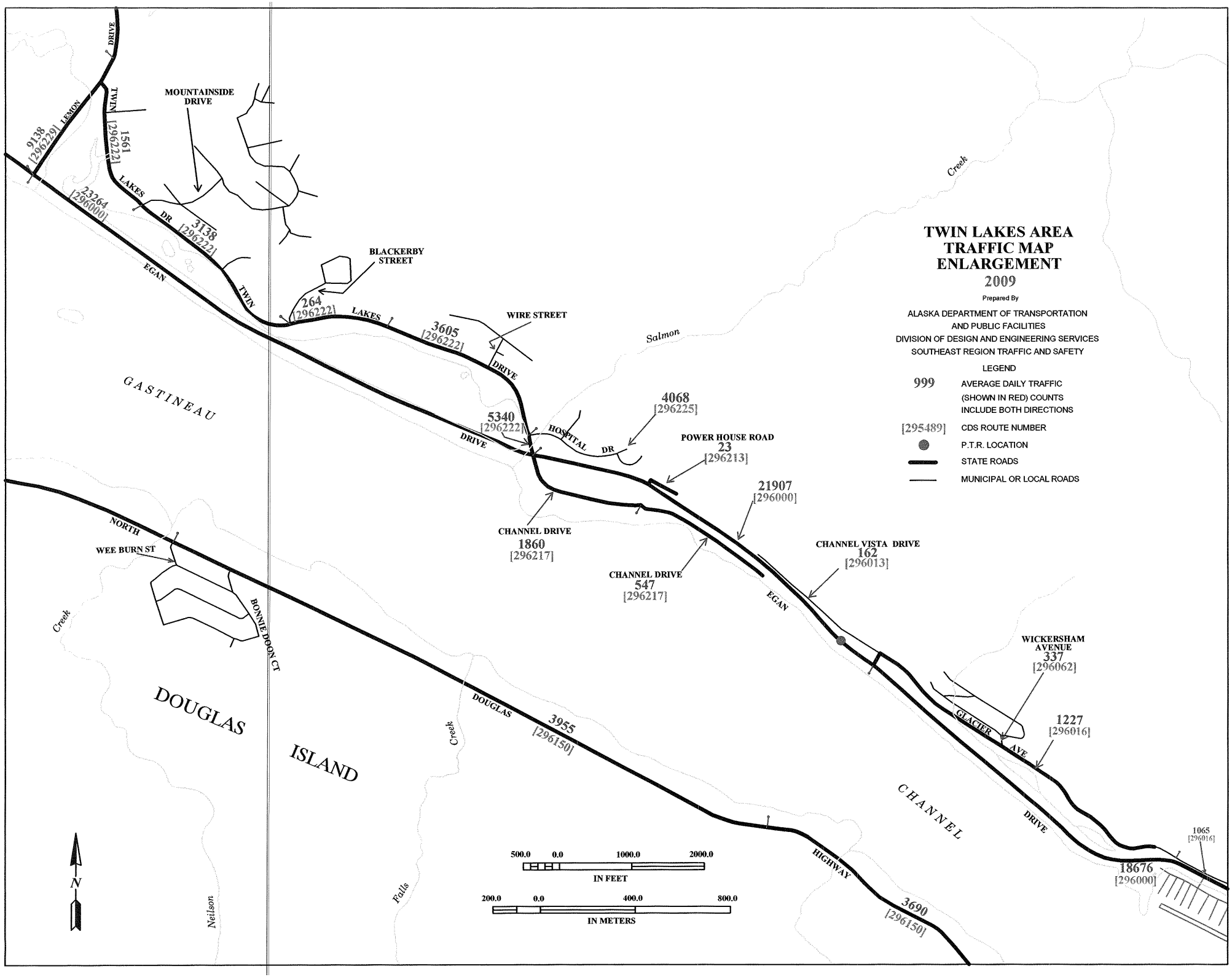
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

[295489] CDS ROUTE NUMBER

STATE ROADS

MUNICIPAL OR LOCAL ROADS




TWIN LAKES AREA
TRAFFIC MAP
ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
P.T.R. LOCATION
STATE ROADS
MUNICIPAL OR LOCAL ROADS
MOUNTAINSIDE DRIVE
BLACKERBY STREET
WIRE STREET
POWER HOUSE ROAD
23
[296213]
CHANNEL DRIVE
1860
[296217]
CHANNEL DRIVE
547
[296217]
CHANNEL VISTA DRIVE
162
[296013]
WICKERSHAM AVENUE
337
[296062]
1227
[296016]
1065
[296016]
18676
[296000]
9138
[296229]
1561
[296222]
23264
[296000]
3138
[296222]
264
[296222]
3605
[296222]
5340
[296222]
4068
[296225]
21907
[296000]
3955
[296150]
3690
[296150]
LEMON DRIVE
TWIN LAKES DR
EGAN DRIVE
LAKES DRIVE
HOSPITAL DR
GLACIER AVE
NORTH BONNIE DOON CT
WEE BURN ST
DOUGLAS HIGHWAY
GASTINEAU CHANNEL
DOUGLAS ISLAND
Salmon Creek
Neilson Creek
Falls Creek
500.0 0.0 1000.0 2000.0
IN FEET
200.0 0.0 400.0 800.0
IN METERS
N

LEMON CREEK TRAFFIC MAP ENLARGEMENT
2009

Prepared By

ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

LEGEND

999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

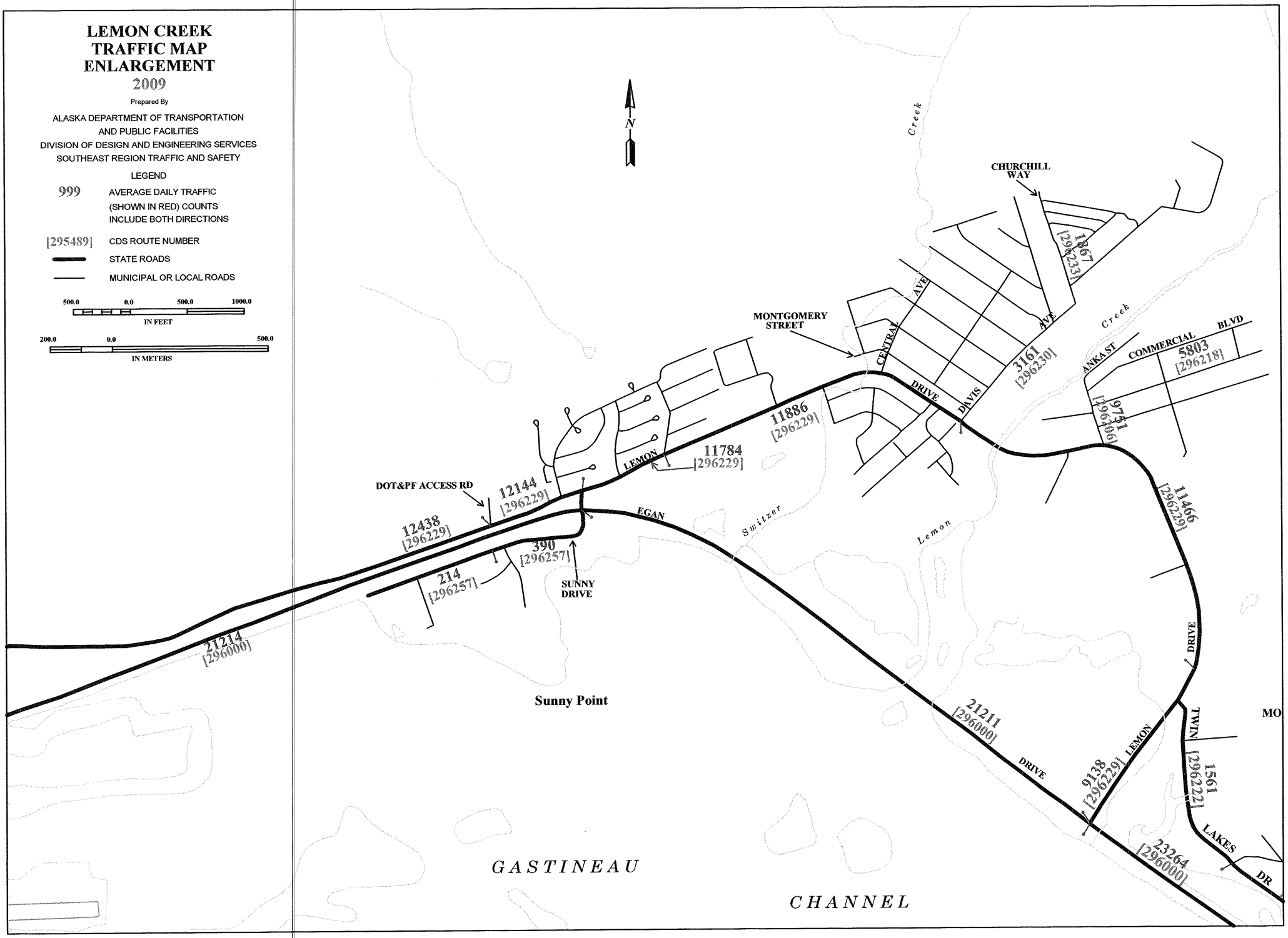
[295489] CDS ROUTE NUMBER

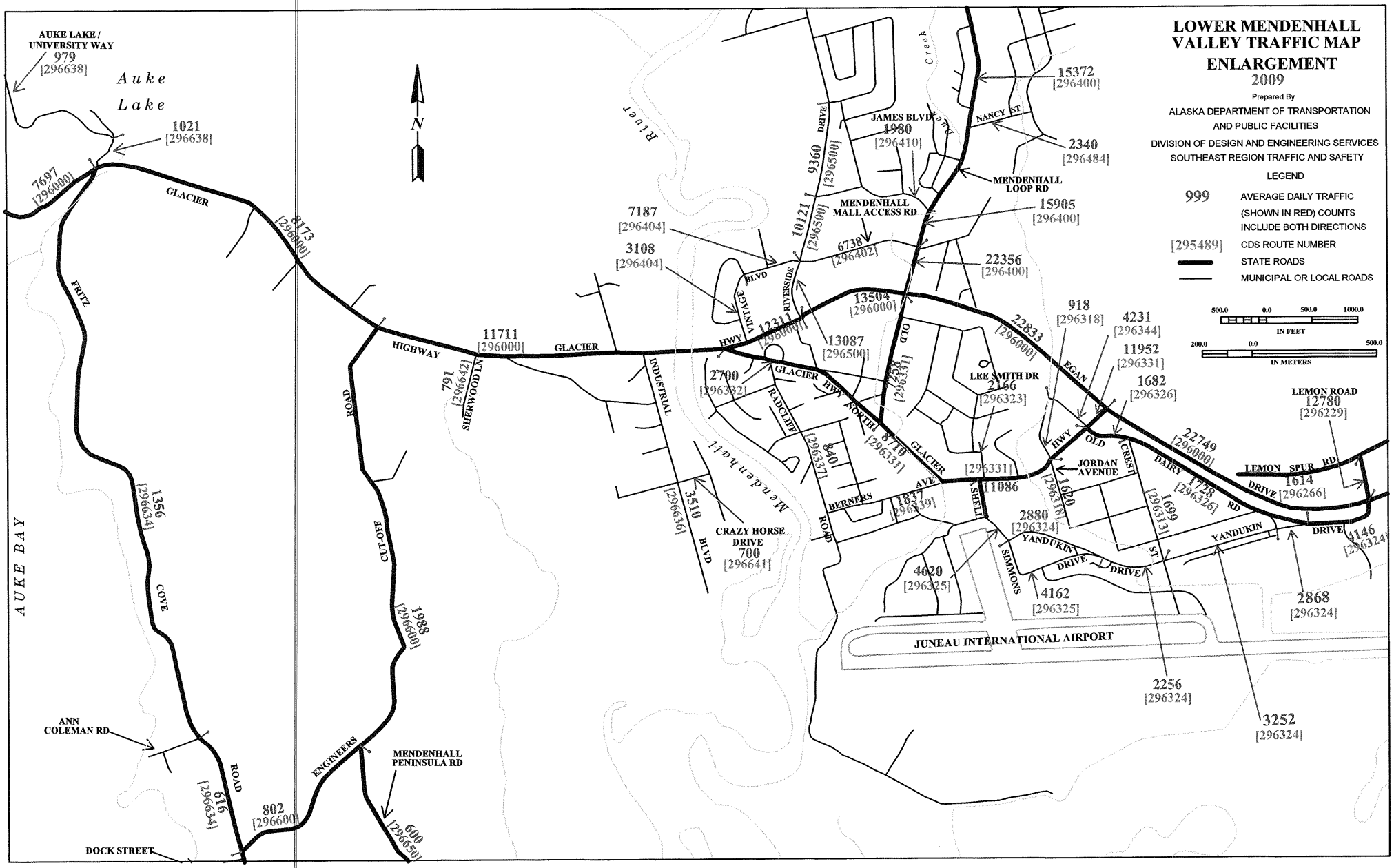
STATE ROADS

MUNICIPAL OR LOCAL ROADS

500.0 0.0 500.0 1000.0
IN FEET

200.0 0.0 500.0
IN METERS




LOWER MENDENHALL VALLEY TRAFFIC MAP ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
IN FEET
IN METERS
AUKE LAKE / UNIVERSITY WAY
979 [296638]
Auke Lake
1021 [296638]
7697 [296000]
GLACIER
8173 [296000]
FRITZ
HIGHWAY
11711 [296000]
GLACIER
791 [296642]
SHERWOOD LN
ROAD
CUT-OFF
1988 [296600]
1356 [296634]
COVE
ROAD
ANN COLEMAN RD
616 [296634]
802 [296600]
ENGINEERS
MENDENHALL PENINSULA RD
600 [296650]
DOCK STREET
AUKE BAY
N
River
Mendenhall
Creek
7187 [296404]
3108 [296404]
VINTAGE BLVD
RIVERSIDE
12311 [296000]
13087 [296500]
13504 [296000]
2700 [296332]
GLACIER
HWY
RADCLIFF
840 [296337]
NORTH
8710 [296331]
GLACIER
INDUSTRIAL
3510 [296636]
BLVD
CRAZY HORSE DRIVE
700 [296641]
BERNERS
AVE
1837 [296339]
ROAD
SHELL
11086 [296331]
OLD
1758 [296331]
LEE SMITH DR
2166 [296323]
22833 [296000]
EGAN
918 [296318]
4231 [296344]
11952 [296331]
1682 [296326]
HWY
OLD
JORDAN AVENUE
1620 [296318]
CREST
DAIRY
1728 [296326]
RD
1699 [296313]
22749 [296000]
LEMON SPUR RD
1614 [296266]
LEMON ROAD
12780 [296229]
DRIVE
4146 [296324]
2868 [296324]
YANDUKIN
DRIVE
ST
2880 [296324]
SIMMONS
4620 [296325]
4162 [296325]
JUNEAU INTERNATIONAL AIRPORT
2256 [296324]
3252 [296324]
DRIVE
9360 [296500]
10121 [296500]
6738 [296402]
JAMES BLVD
1980 [296410]
MENDENHALL MALL ACCESS RD
MENDENHALL LOOP RD
NANCY ST
15372 [296400]
2340 [296484]
15905 [296400]
22356 [296400]

UPPER MENDENHALL VALLEY TRAFFIC MAP ENLARGEMENT 2009

Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

LEGEND

999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

[295489] CDS ROUTE NUMBER

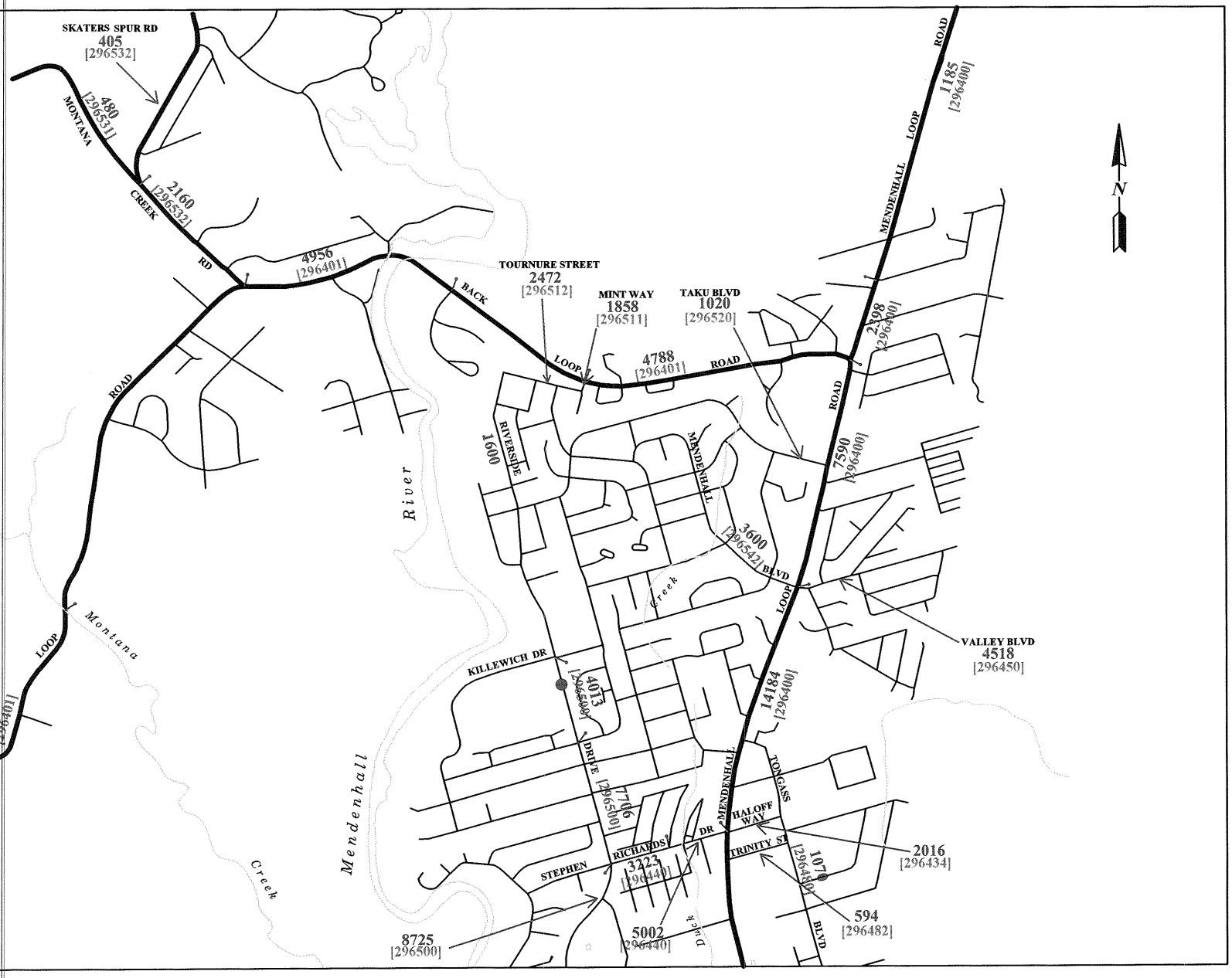
P.T.R. LOCATION

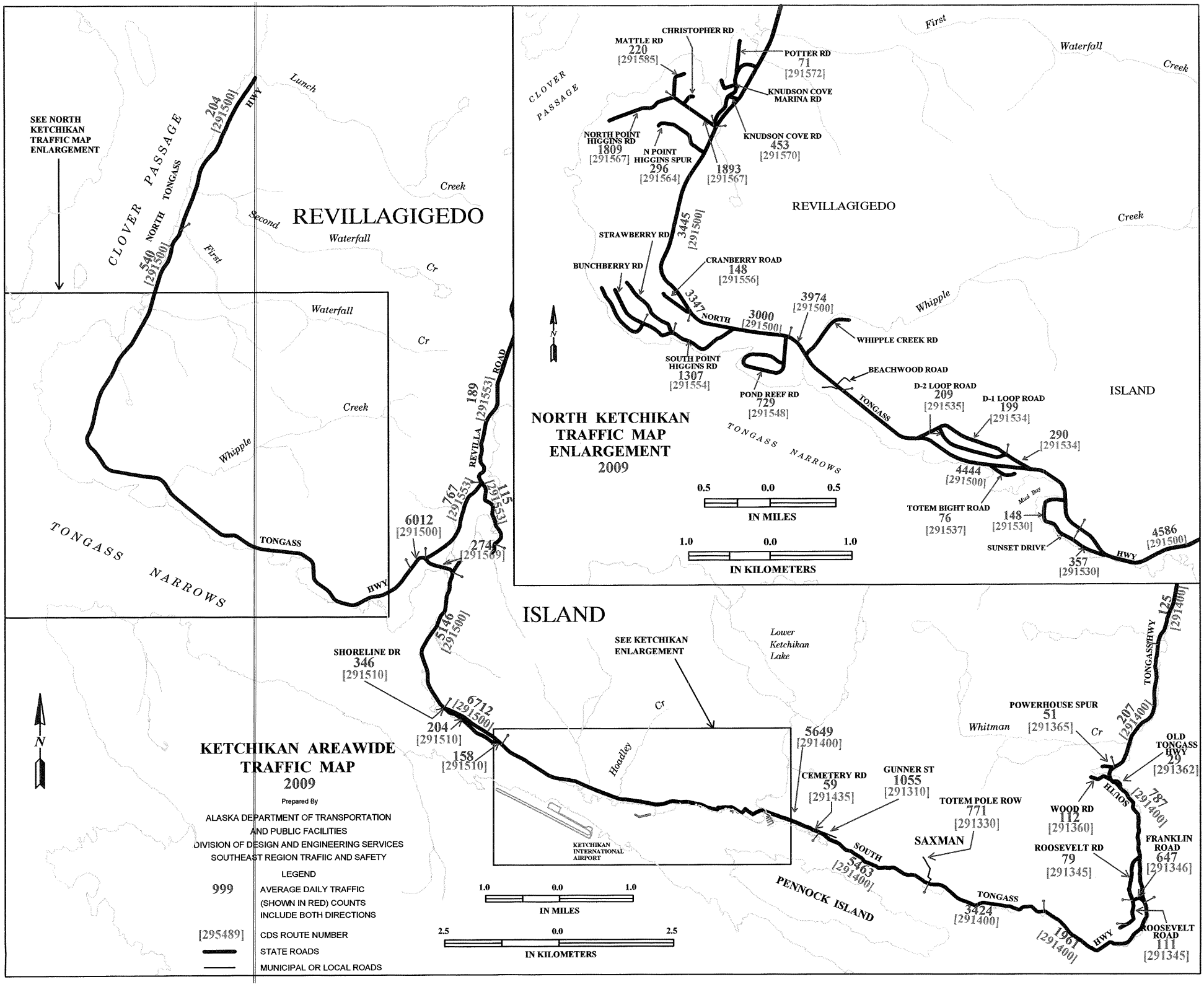
STATE ROADS

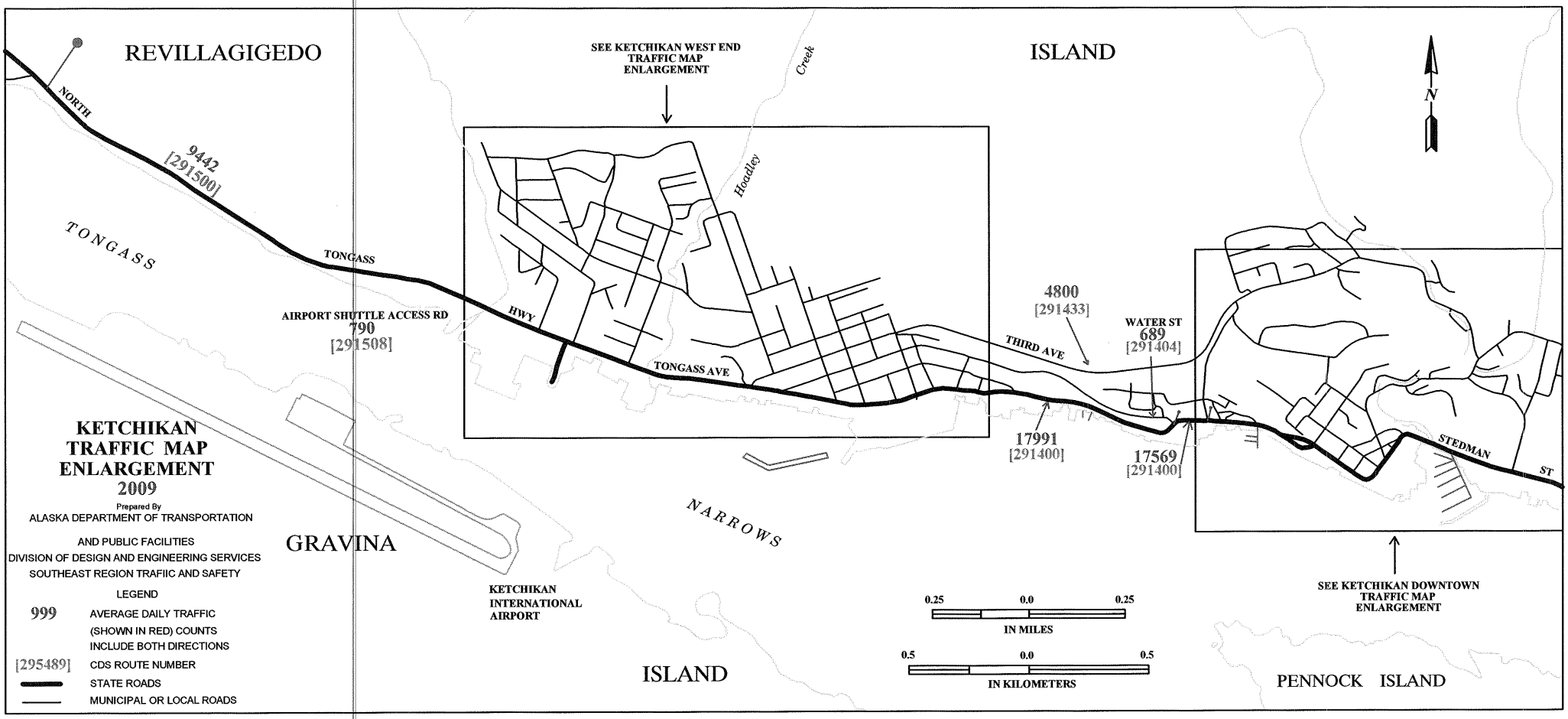
MUNICIPAL OR LOCAL ROADS

500.0 0.0 500.0 1000.0
IN FEET

200.0 0.0 500.0
IN METERS




KETCHIKAN AREAWIDE TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFIIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
NORTH KETCHIKAN TRAFFIC MAP ENLARGEMENT 2009
SEE NORTH KETCHIKAN TRAFFIC MAP ENLARGEMENT
SEE KETCHIKAN ENLARGEMENT
REVILLAGIGEDO ISLAND
CLOVER PASSAGE
TONGASS NARROWS
PENNOCK ISLAND
Lower Ketchikan Lake
KETCHIKAN INTERNATIONAL AIRPORT
SAXMAN
IN MILES
IN KILOMETERS
MATTLE RD 220 [291585]
CHRISTOPHER RD
POTTER RD 71 [291572]
KNUDSON COVE MARINA RD
KNUDSON COVE RD 453 [291570]
NORTH POINT HIGGINS RD 1809 [291567]
N POINT HIGGINS SPUR 296 [291564]
1893 [291567]
STRAWBERRY RD
BUNCHBERRY RD
CRANBERRY ROAD 148 [291556]
SOUTH POINT HIGGINS RD 1307 [291554]
POND REEF RD 729 [291548]
WHIPPLE CREEK RD
BEACHWOOD ROAD
D-2 LOOP ROAD 209 [291535]
D-1 LOOP ROAD 199 [291534]
TOTEM BIGHT ROAD 76 [291537]
SUNSET DRIVE
SHORELINE DR 346 [291510]
CEMETERY RD 59 [291435]
GUNNER ST 1055 [291310]
TOTEM POLE ROW 771 [291330]
POWERHOUSE SPUR 51 [291365]
OLD TONGASS HWY 29 [291362]
WOOD RD 112 [291360]
ROOSEVELT RD 79 [291345]
FRANKLIN ROAD 647 [291346]
ROOSEVELT ROAD 111 [291345]


REVILLAGIGEDO
ISLAND
SEE KETCHIKAN WEST END TRAFFIC MAP ENLARGEMENT
Creek
Hoadley
N
NORTH
9442
[291500]
TONGASS
TONGASS
AIRPORT SHUTTLE ACCESS RD
790
[291508]
HWY
TONGASS AVE
4800
[291433]
THIRD AVE
WATER ST
689
[291404]
17991
[291400]
17569
[291400]
STEDMAN
ST
KETCHIKAN TRAFFIC MAP ENLARGEMENT
2009
Prepared By
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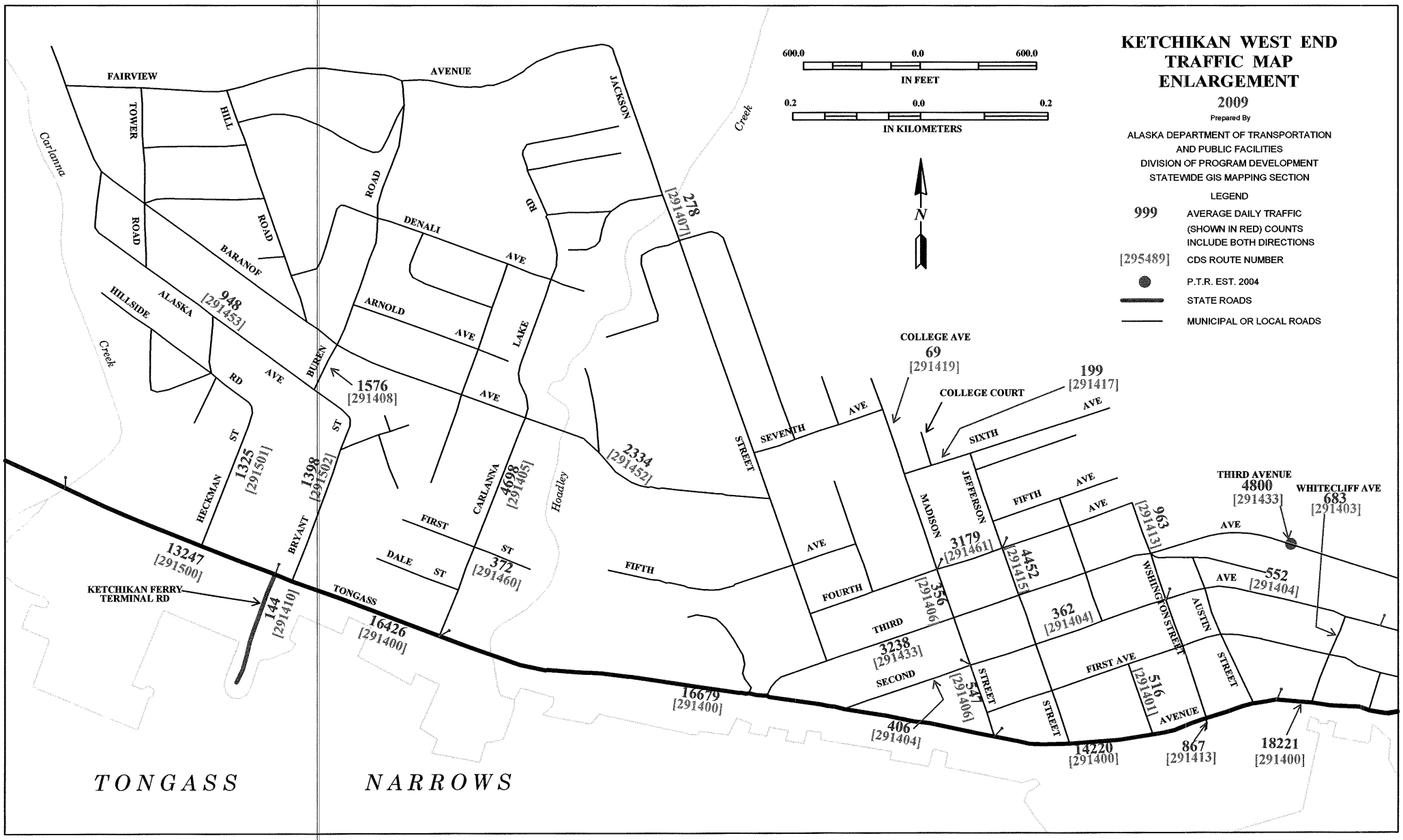
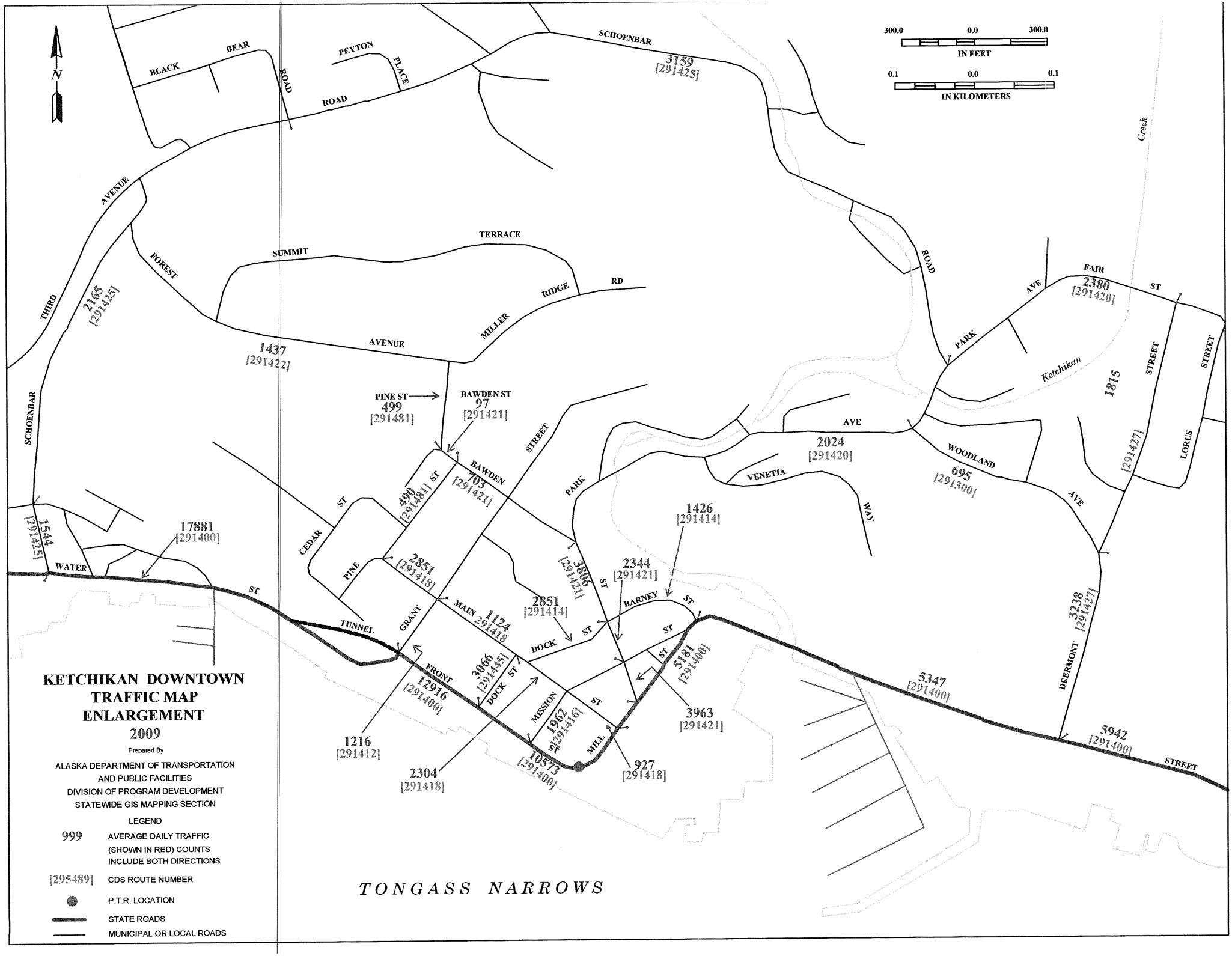
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFIIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
GRAVINA
ISLAND
NARROWS
KETCHIKAN INTERNATIONAL AIRPORT
0.25 0.0 0.25
IN MILES
0.5 0.0 0.5
IN KILOMETERS
SEE KETCHIKAN DOWNTOWN TRAFFIC MAP ENLARGEMENT
PENNOCK ISLAND


KETCHIKAN WEST END
TRAFFIC MAP
ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF PROGRAM DEVELOPMENT
STATEWIDE GIS MAPPING SECTION
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
P.T.R. EST. 2004
STATE ROADS
MUNICIPAL OR LOCAL ROADS
600.0 0.0 600.0
IN FEET
0.2 0.0 0.2
IN KILOMETERS
N
FAIRVIEW AVENUE
TOWER ROAD
HILL ROAD
BARANOF
ALASKA
HILLSIDE RD
BUREN AVE
DENALI AVE
ARNOLD AVE
LAKE RD
JACKSON
ROAD
Carlanna Creek
Creek
Hoadley
HECKMAN ST
BRYANT ST
CARLANNA
FIRST ST
DALE ST
TONGASS
FIFTH
STREET
SEVENTH AVE
FOURTH AVE
THIRD
SECOND
MADISON
JEFFERSON
SIXTH AVE
FIFTH AVE
WSHINGTON STREET
AUSTIN STREET
FIRST AVE
AVENUE
COLLEGE AVE
COLLEGE COURT
THIRD AVENUE
WHITECLIFF AVE
KETCHIKAN FERRY TERMINAL RD
948 [291453]
1576 [291408]
1325 [291501]
1398 [291502]
4698 [291405]
372 [291460]
13247 [291500]
144 [291410]
16426 [291400]
16679 [291400]
278 [291407]
2334 [291452]
69 [291419]
199 [291417]
3179 [291461]
356 [291406]
3238 [291433]
547 [291406]
406 [291404]
4452 [291415]
362 [291404]
963 [291413]
516 [291401]
14220 [291400]
867 [291413]
18221 [291400]
552 [291404]
4800 [291433]
683 [291403]
TONGASS NARROWS



KETCHIKAN DOWNTOWN TRAFFIC MAP ENLARGEMENT 2009

Prepared By

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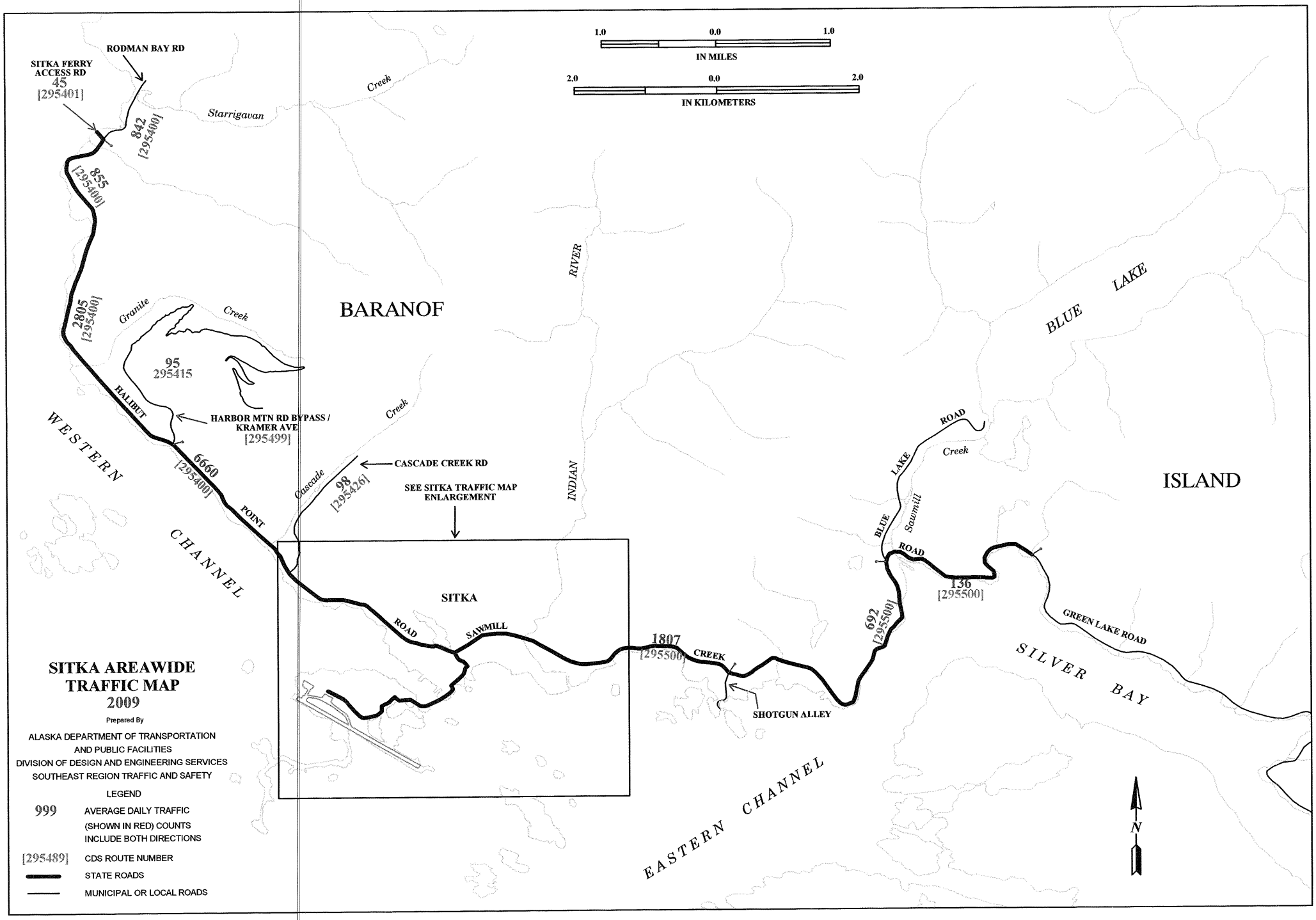
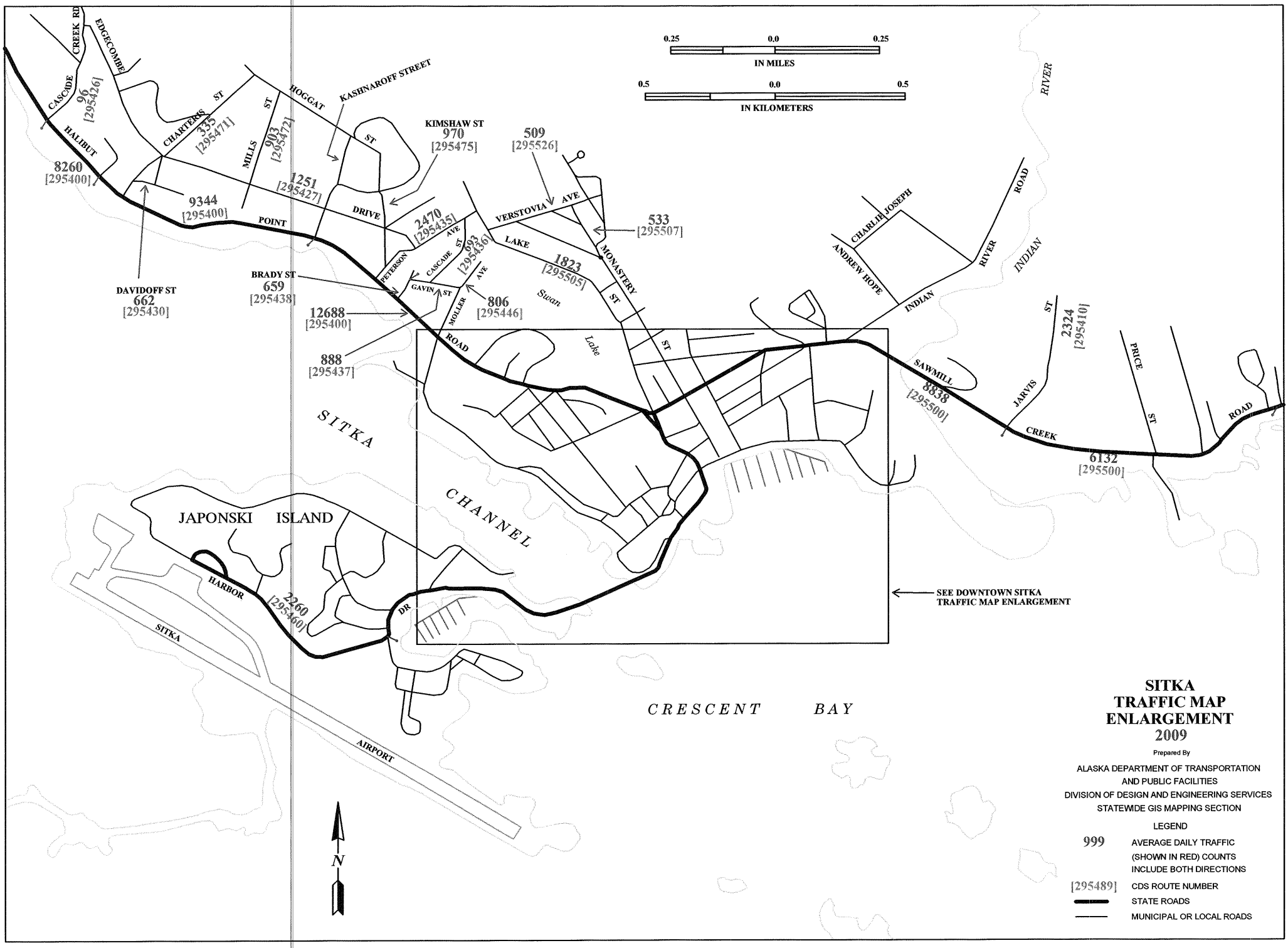
DIVISION OF PROGRAM DEVELOPMENT
STATEWIDE GIS MAPPING SECTION

LEGEND

999	AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489]	CDS ROUTE NUMBER
●	P.T.R. LOCATION
▬	STATE ROADS
─	MUNICIPAL OR LOCAL ROADS


SITKA AREAWIDE TRAFFIC MAP 2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
1.0 0.0 1.0
IN MILES
2.0 0.0 2.0
IN KILOMETERS
RODMAN BAY RD
SITKA FERRY ACCESS RD
45 [295401]
842 [295400]
855 [295400]
2805 [295400]
Starrigavan
Creek
Granite
Creek
95 295415
HARBOR MTN RD BYPASS / KRAMER AVE [295499]
HALIBUT
POINT
6660 [295400]
WESTERN
CHANNEL
Cascade
Creek
98 [295426]
CASCADE CREEK RD
SEE SITKA TRAFFIC MAP ENLARGEMENT
BARANOF
RIVER
INDIAN
SITKA
ROAD
SAWMILL
1807 [295500]
CREEK
SHOTGUN ALLEY
EASTERN CHANNEL
692 [295500]
BLUE
LAKE
ROAD
Creek
Sawmill
ROAD
136 [295500]
GREEN LAKE ROAD
BLUE LAKE
ISLAND
SILVER BAY
N



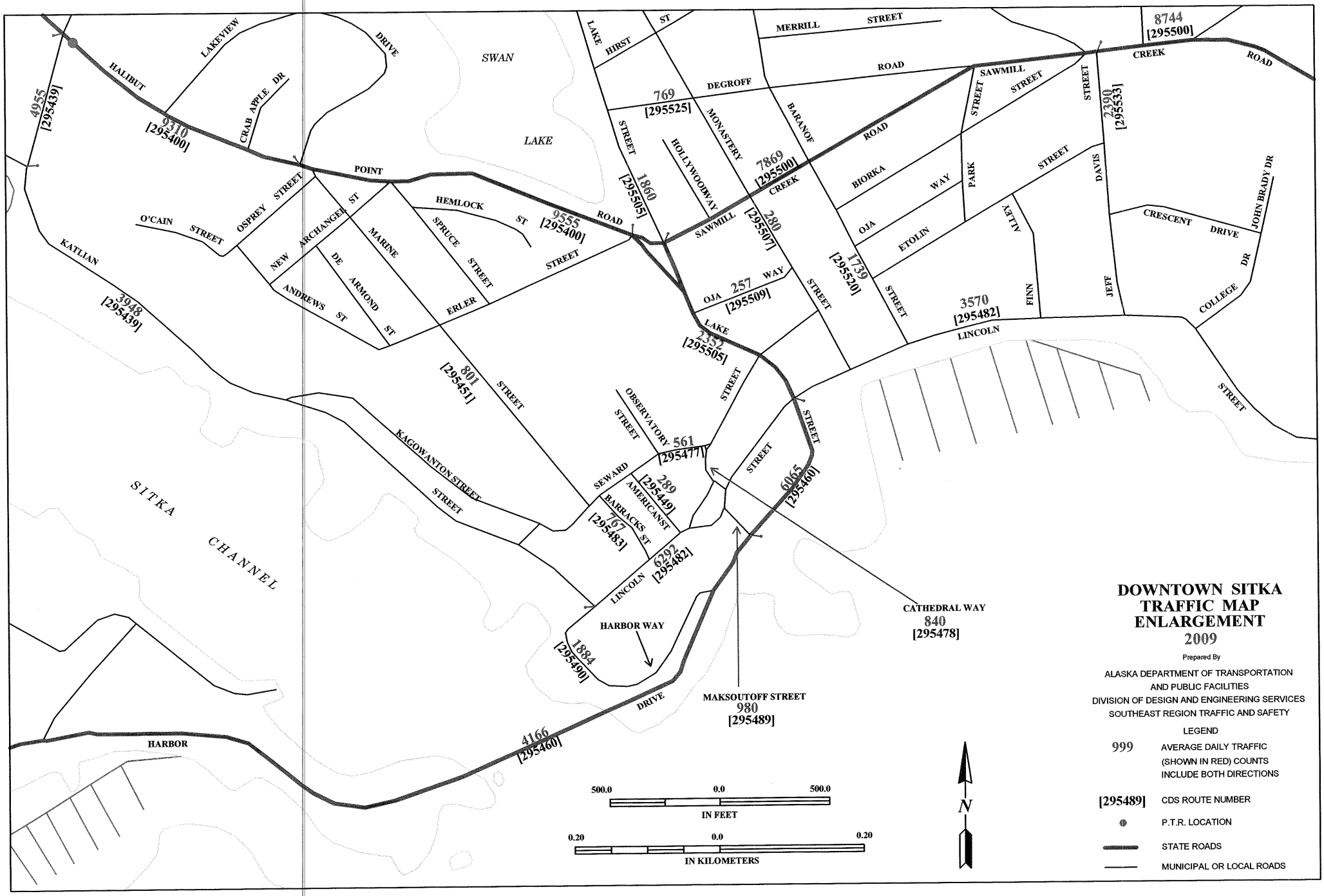
SITKA TRAFFIC MAP ENLARGEMENT 2009

Prepared By

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
STATEWIDE GIS MAPPING SECTION

LEGEND

999	AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489]	CDS ROUTE NUMBER
▬▬	STATE ROADS
——	MUNICIPAL OR LOCAL ROADS


DOWNTOWN SITKA
TRAFFIC MAP
ENLARGEMENT
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
P.T.R. LOCATION
STATE ROADS
MUNICIPAL OR LOCAL ROADS
500.0 0.0 500.0
IN FEET
0.20 0.0 0.20
IN KILOMETERS
N
SWAN LAKE
SITKA CHANNEL
HALIBUT POINT ROAD
9310 [295400]
4955 [295439]
LAKEVIEW DRIVE
CRAB APPLE DR
O'CAIN STREET
OSPREY STREET
KATLIAN
3948 [295439]
NEW ARCHANGEL ST
ANDREWS ST
DE ARMOND ST
MARINE STREET
HEMLOCK ST
SPRUCE STREET
ERLER STREET
9555 [295400]
801 [295451]
KAGOWANTON STREET
LAKE HIRST ST
769 [295525]
DEGROFF STREET
1860 [295505]
HOLLYWOODWAY
MONASTERY STREET
MERRILL STREET
BARANOF ROAD
7869 [295500]
SAWMILL CREEK ROAD
280 [295507]
OJA WAY 257 [295509]
2352 [295505]
OBSERVATORY STREET
561 [295477]
SEWARD STREET
289 [295449]
AMERICAN ST
BARRACKS ST
767 [295483]
6292 [295482]
LINCOLN STREET
1884 [295490]
HARBOR WAY
HARBOR DRIVE
4166 [295460]
6065 [295460]
MAKSOUTOFF STREET 980 [295489]
CATHEDRAL WAY 840 [295478]
8744 [295500]
SAWMILL CREEK ROAD
BIORKA WAY
OJA ETOLIN
1739 [295520]
PARK STREET
ALLEY
3570 [295482]
LINCOLN STREET
FINN
DAVIS STREET
JEFF
2390 [295533]
CRESCENT DRIVE
JOHN BRADY DR
COLLEGE DR

MITKOF ISLAND / PETERSBURG TRAFFIC MAP 2009

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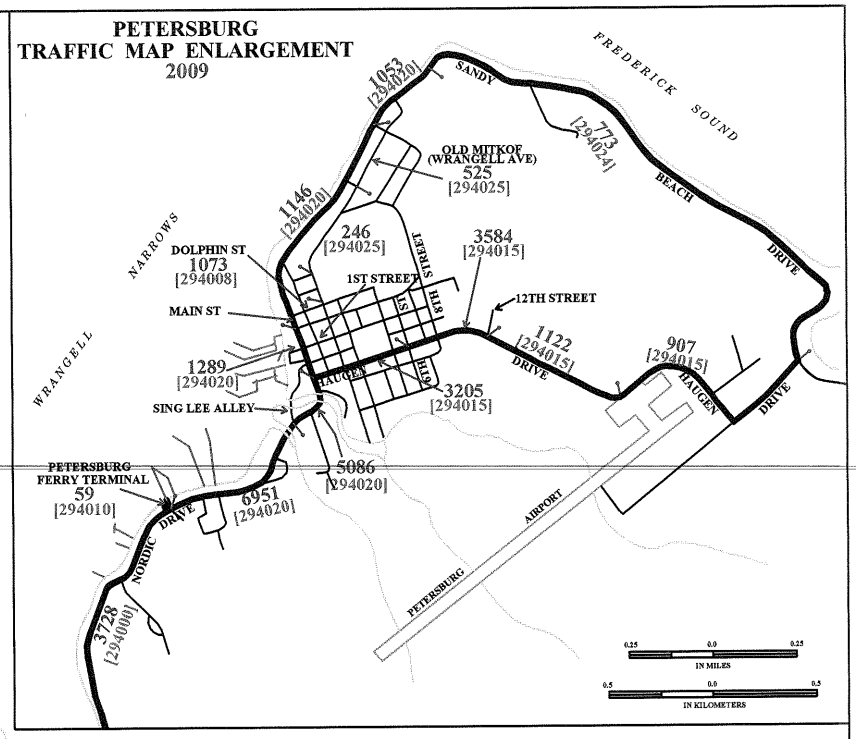
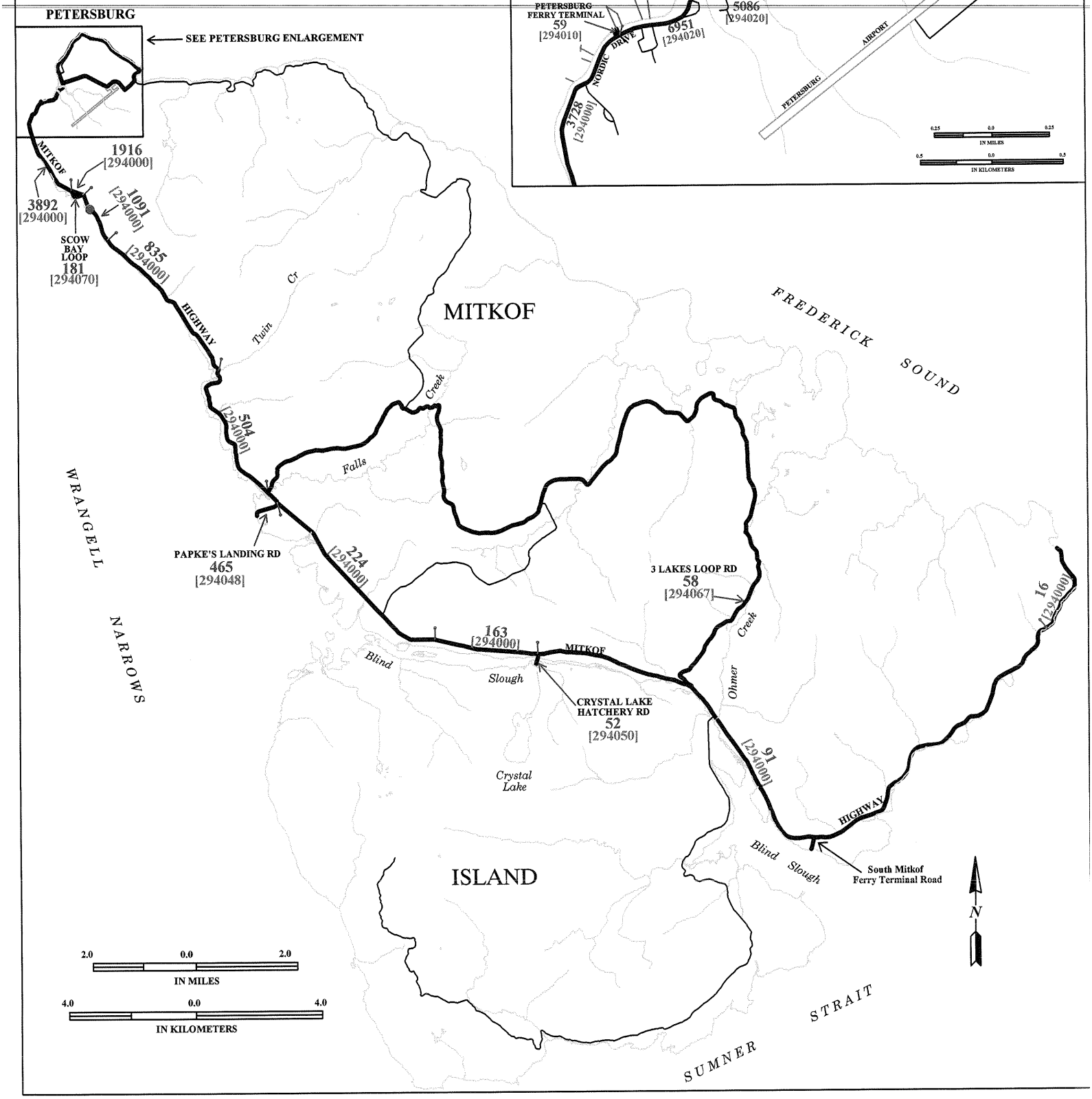
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

LEGEND

999	AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489]	CDS ROUTE NUMBER
●	P.T.R. LOCATION
▬	STATE ROADS
—	MUNICIPAL OR LOCAL ROADS





WRANGELL ISLAND TRAFFIC MAP
2009

Prepared By

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

LEGEND

999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

[295489] CDS ROUTE NUMBER

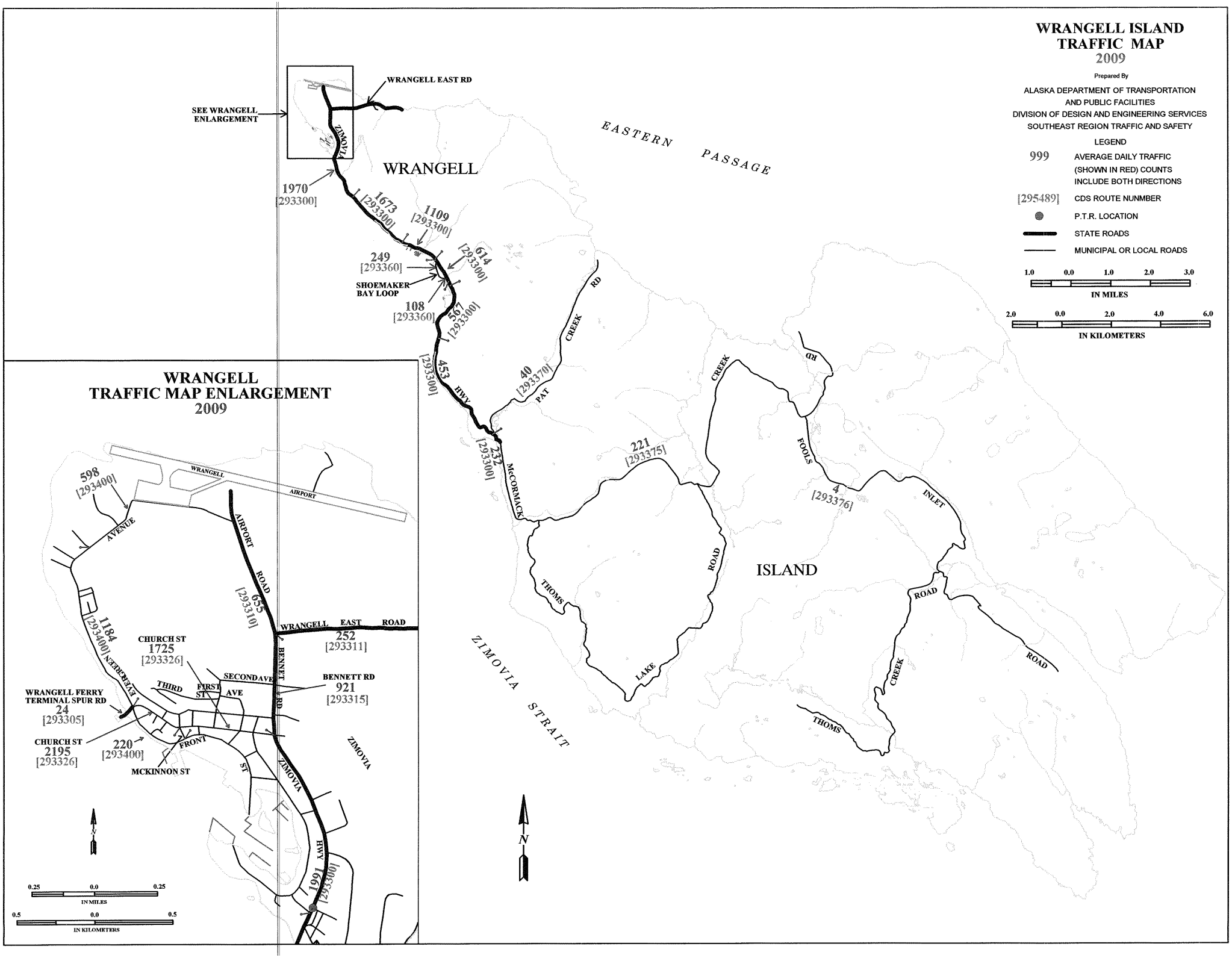
P.T.R. LOCATION

STATE ROADS

MUNICIPAL OR LOCAL ROADS

1.0 0.0 1.0 2.0 3.0
IN MILES

2.0 0.0 2.0 4.0 6.0
IN KILOMETERS



UPPER LYNN CANAL TRAFFIC MAP
2009

Prepared By

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AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOTUHEAST REGION TRAFFIC AND SAFETY

LEGEND

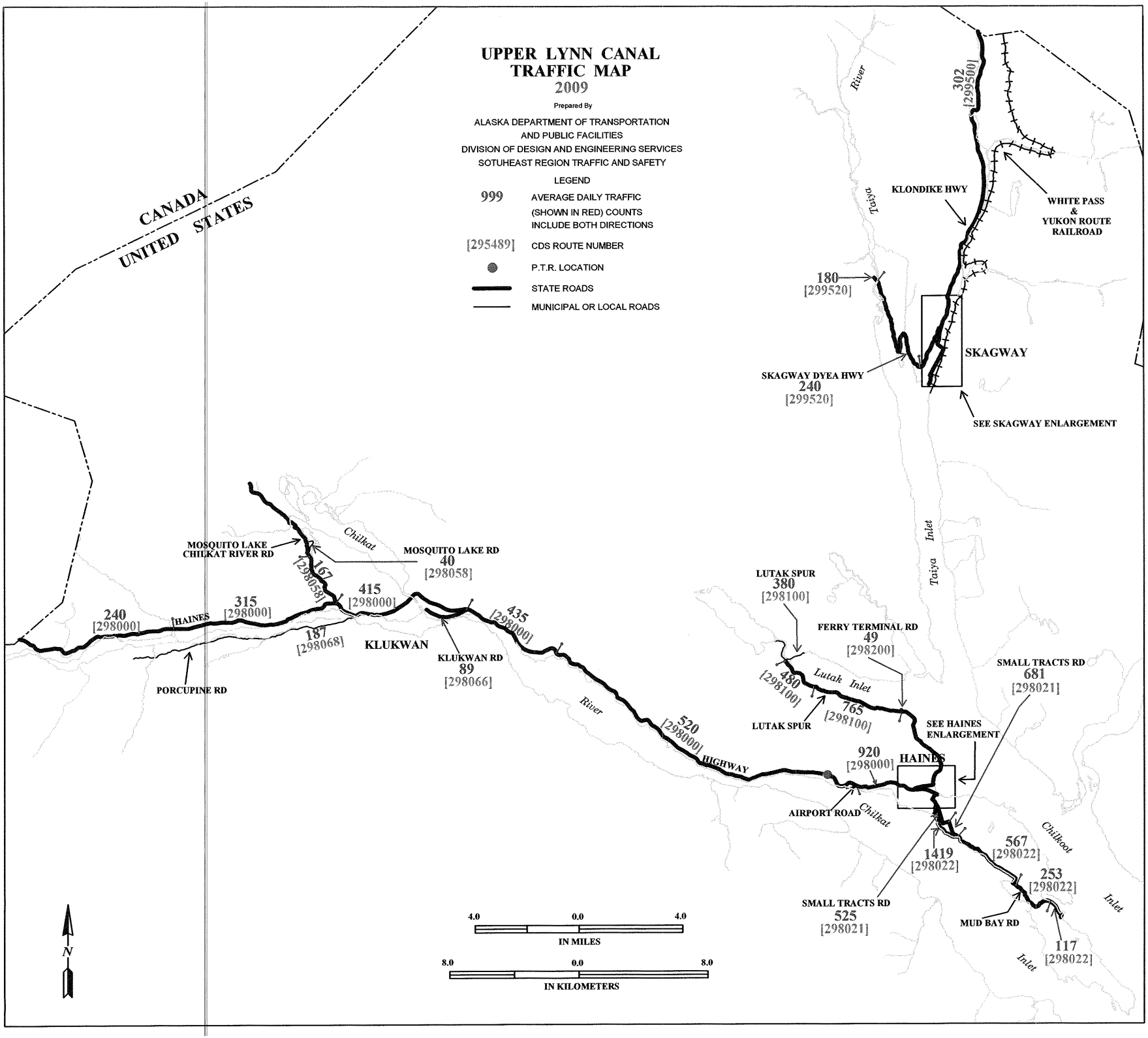
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

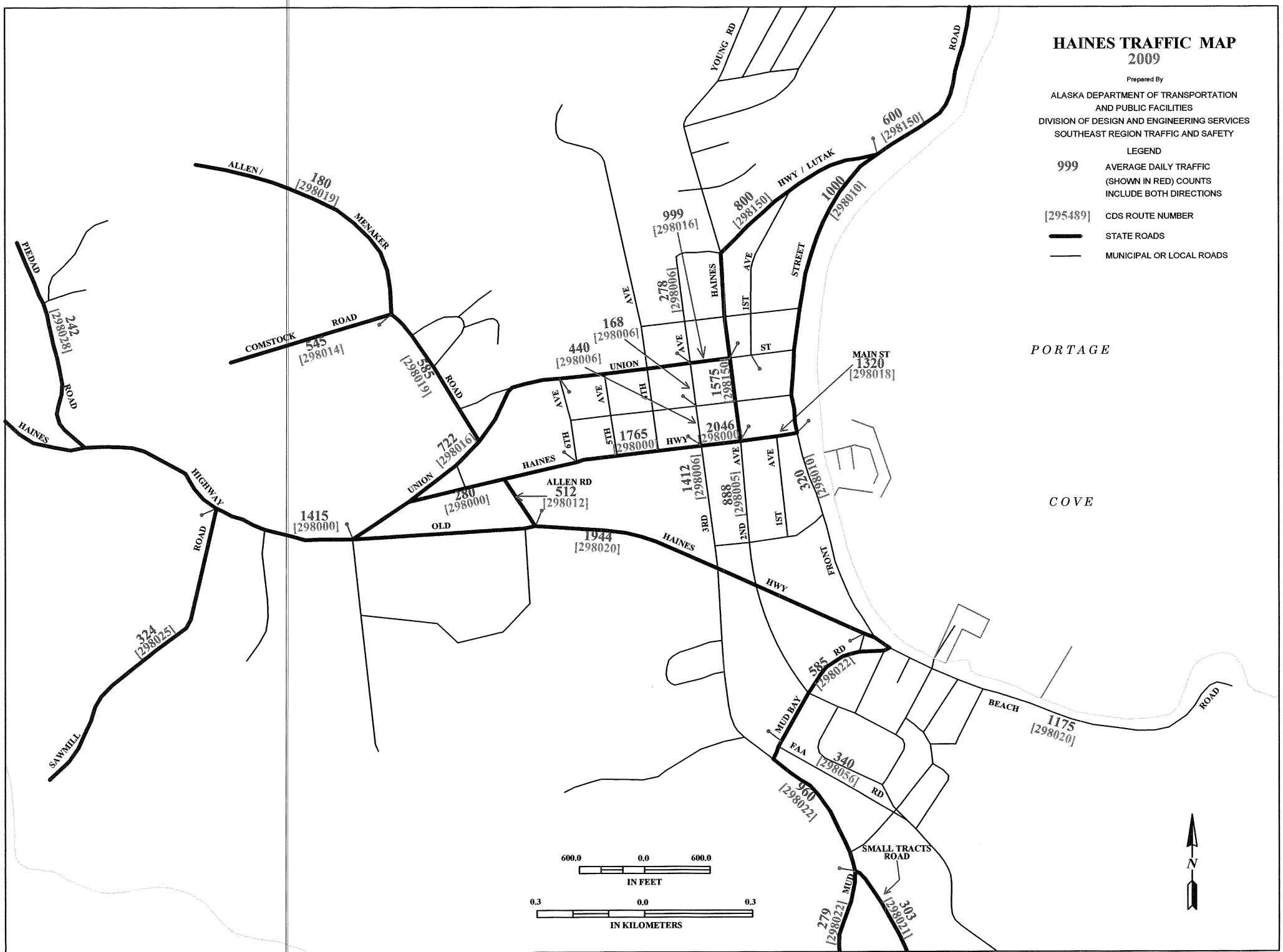
[295489] CDS ROUTE NUMBER

P.T.R. LOCATION

STATE ROADS

MUNICIPAL OR LOCAL ROADS




HAINES TRAFFIC MAP
2009
Prepared By
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AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
PORTAGE
COVE
ALLEN / MENAKER ROAD
COMSTOCK ROAD
PIEDAD ROAD
HAINES HIGHWAY
SAWMILL ROAD
UNION ST
HAINES HWY
OLD HAINES HWY
ALLEN RD
MAIN ST
HWY / LUTAK ROAD
YOUNG RD
FRONT STREET
MUD BAY RD
FAA RD
BEACH ROAD
SMALL TRACTS ROAD
MUD
180 [298019]
545 [298014]
585 [298019]
722 [298016]
280 [298000]
1415 [298000]
512 [298012]
1944 [298020]
324 [298025]
440 [298006]
168 [298006]
999 [298016]
278 [298006]
1575 [298150]
2046 [298000]
1412 [298006]
888 [298005]
320 [298010]
1320 [298018]
1000 [298010]
800 [298150]
600 [298150]
585 [298022]
340 [298056]
960 [298022]
279 [298022]
303 [298021]
1175 [298020]
600.0 0.0 600.0
IN FEET
0.3 0.0 0.3
IN KILOMETERS
N

PRINCE OF WALES ISLAND TRAFFIC MAP
2009

Prepared By

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AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY

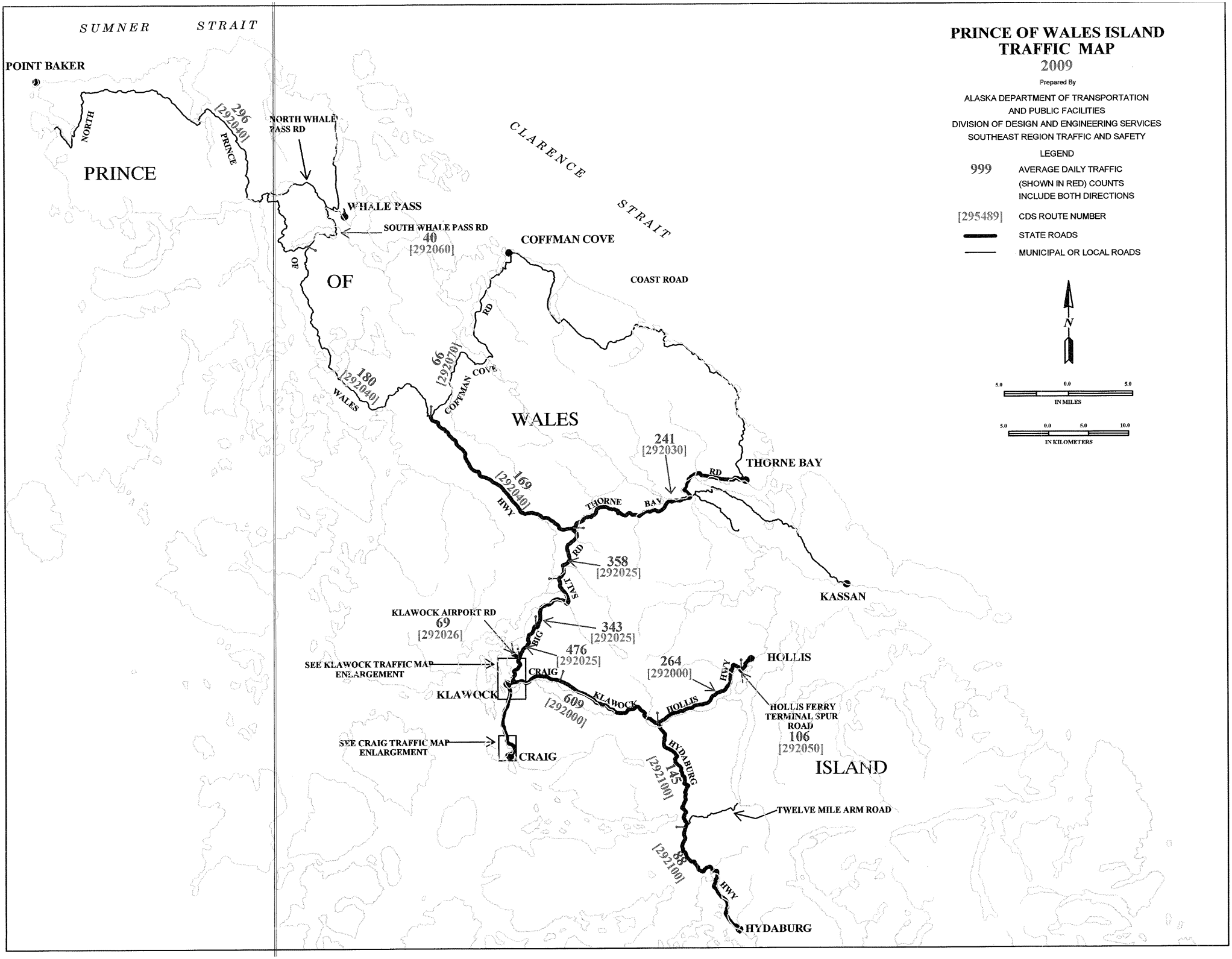
LEGEND

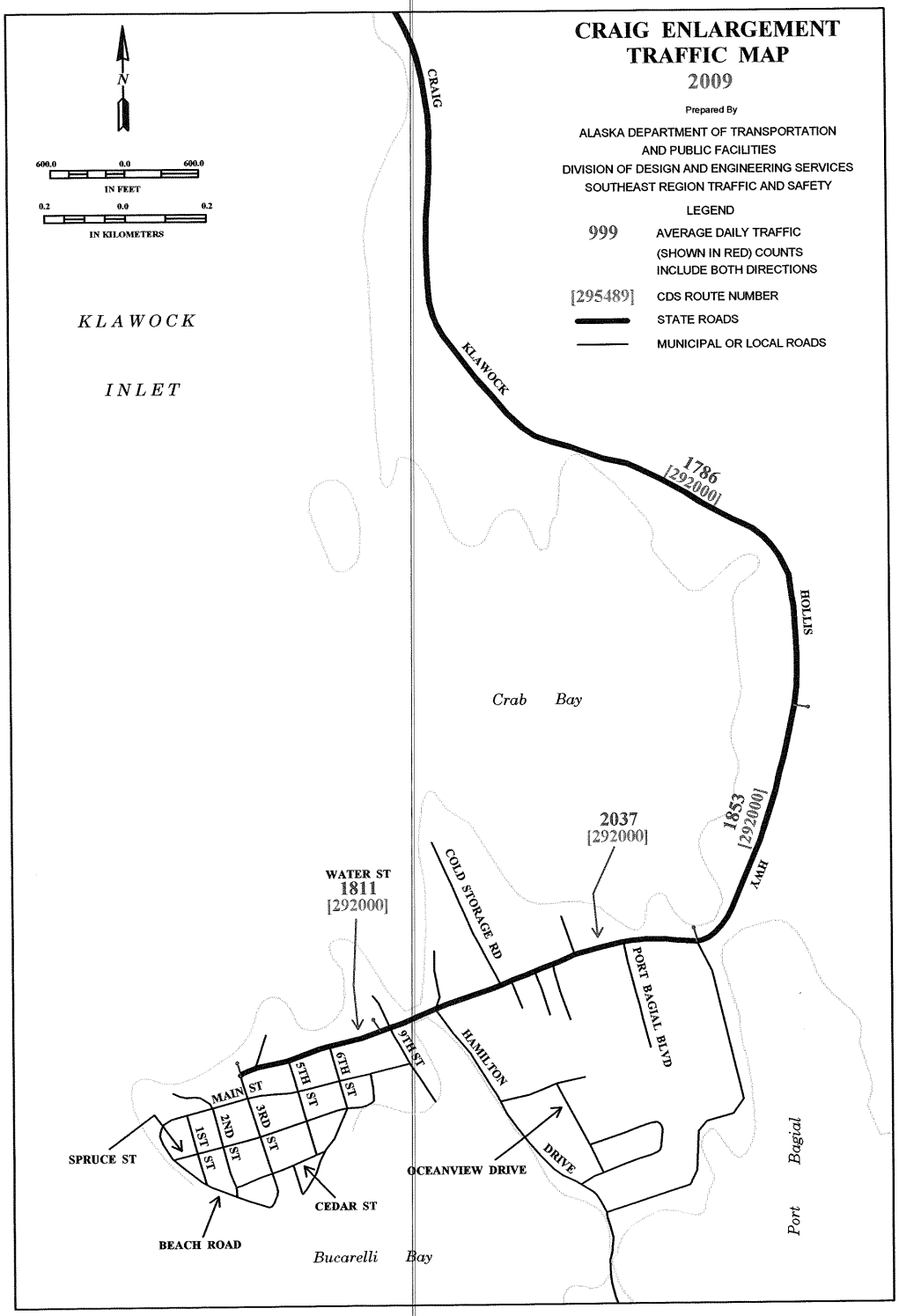
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS

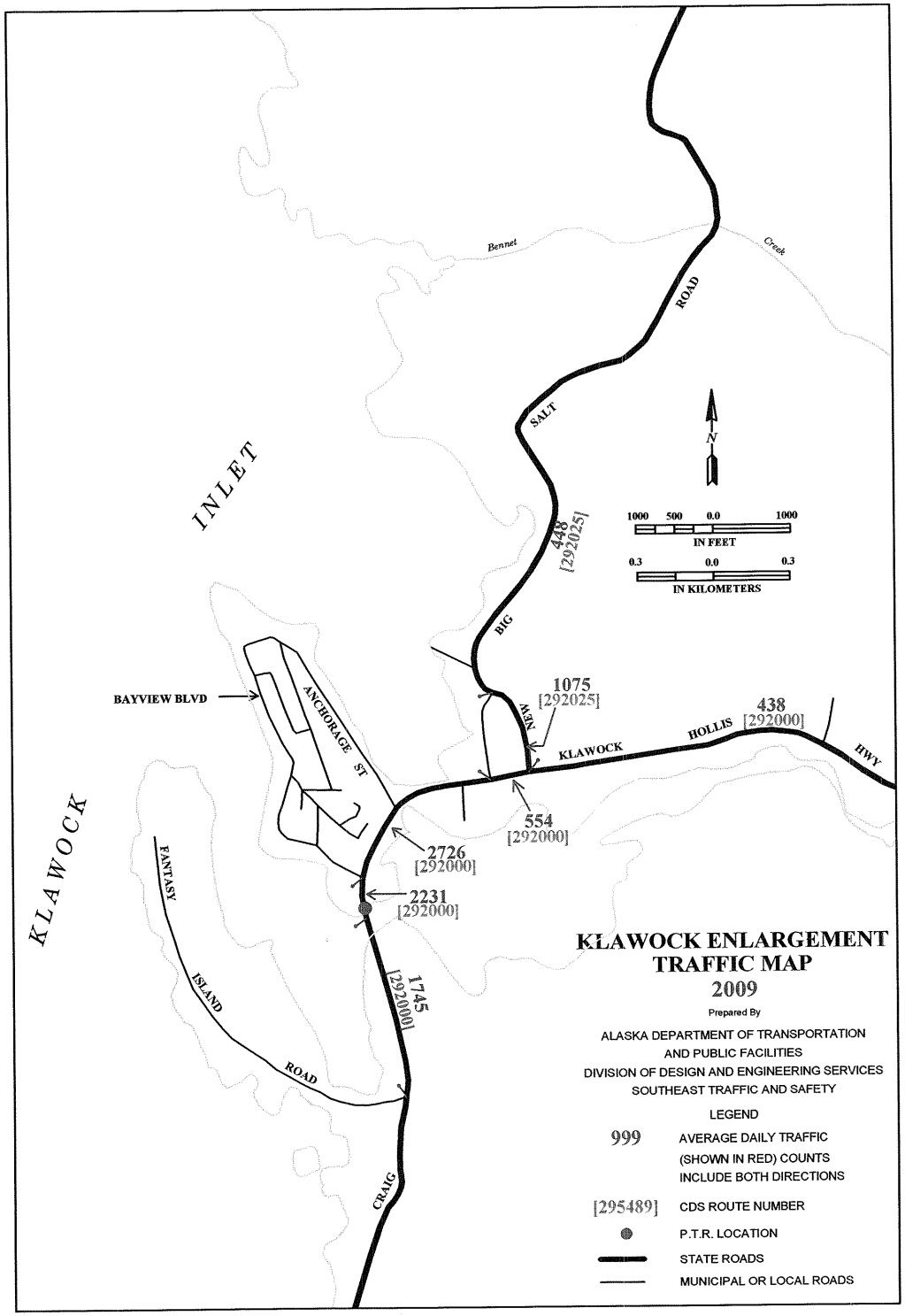
[295489] CDS ROUTE NUMBER

STATE ROADS

MUNICIPAL OR LOCAL ROADS




CRAIG ENLARGEMENT
TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
N
600.0 0.0 600.0
IN FEET
0.2 0.0 0.2
IN KILOMETERS
KLAWOCK
INLET
CRAIG
KLAWOCK
1786
[292000]
HOLLIS
HWY
Crab Bay
1853
[292000]
2037
[292000]
COLD STORAGE RD
WATER ST
1811
[292000]
PORT BAGIAL BLVD
HAMILTON
DRIVE
OCEANVIEW DRIVE
9TH ST
6TH ST
5TH ST
MAIN ST
3RD ST
2ND ST
1ST ST
SPRUCE ST
CEDAR ST
BEACH ROAD
Bucarelli Bay
Port Bagial


KLAWOCK
INLET
Bennet Creek
ROAD
SALT
BIG
448
[292025]
N
1000 500 0.0 1000
IN FEET
0.3 0.0 0.3
IN KILOMETERS
BAYVIEW BLVD
ANCHORAGE ST
NEW
1075
[292025]
KLAWOCK
HOLLIS
HWY
438
[292000]
554
[292000]
2726
[292000]
2231
[292000]
FANTASY
ISLAND
ROAD
1745
[292000]
CRAIG
KLAWOCK ENLARGEMENT
TRAFFIC MAP
2009
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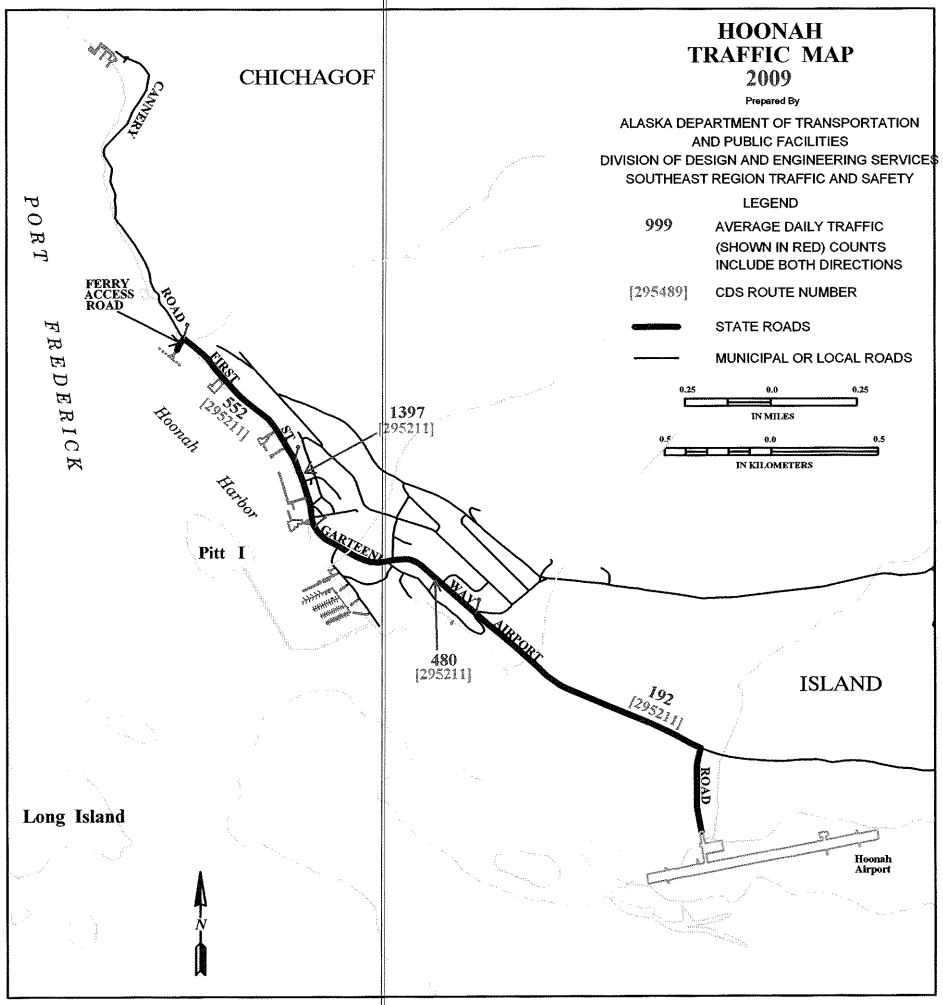
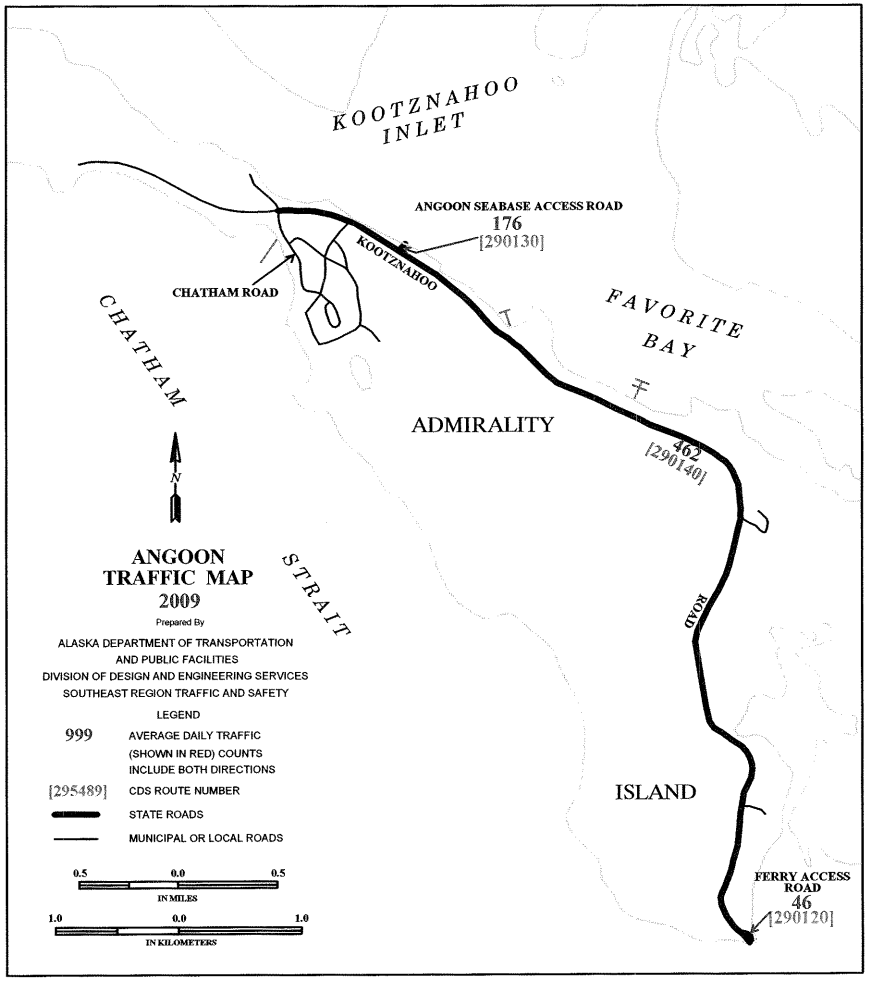
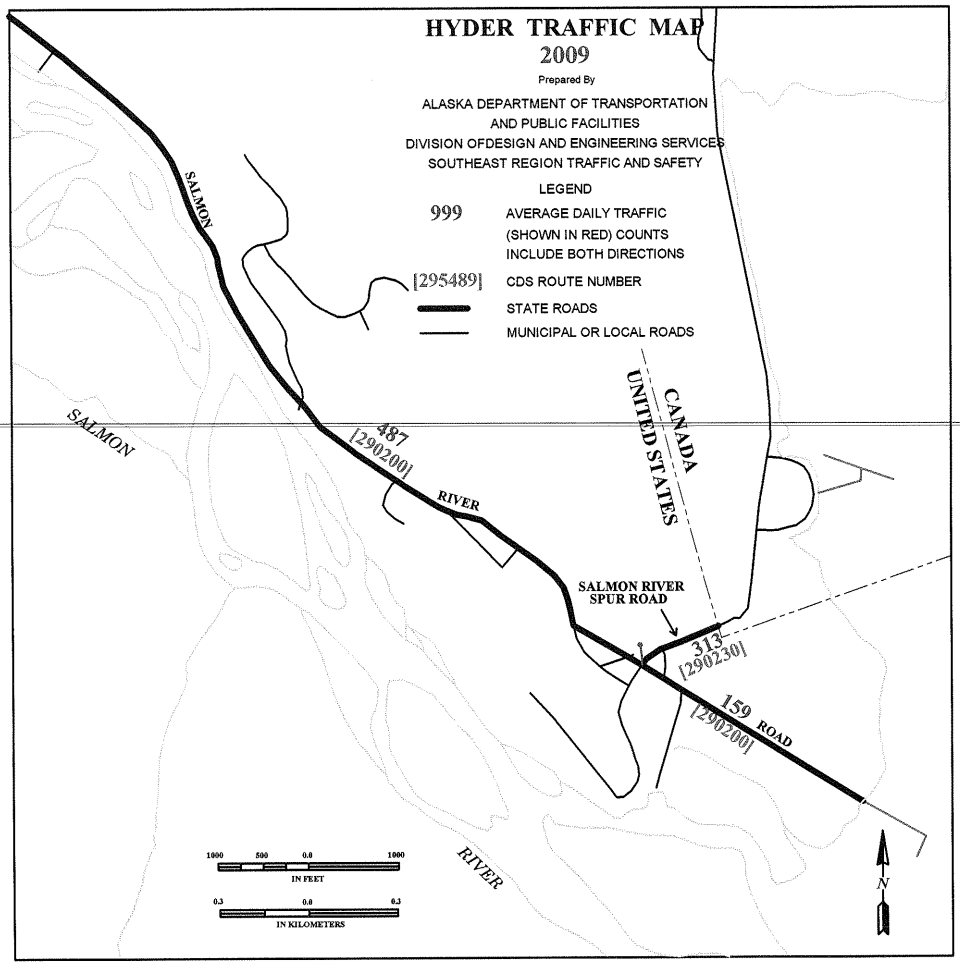
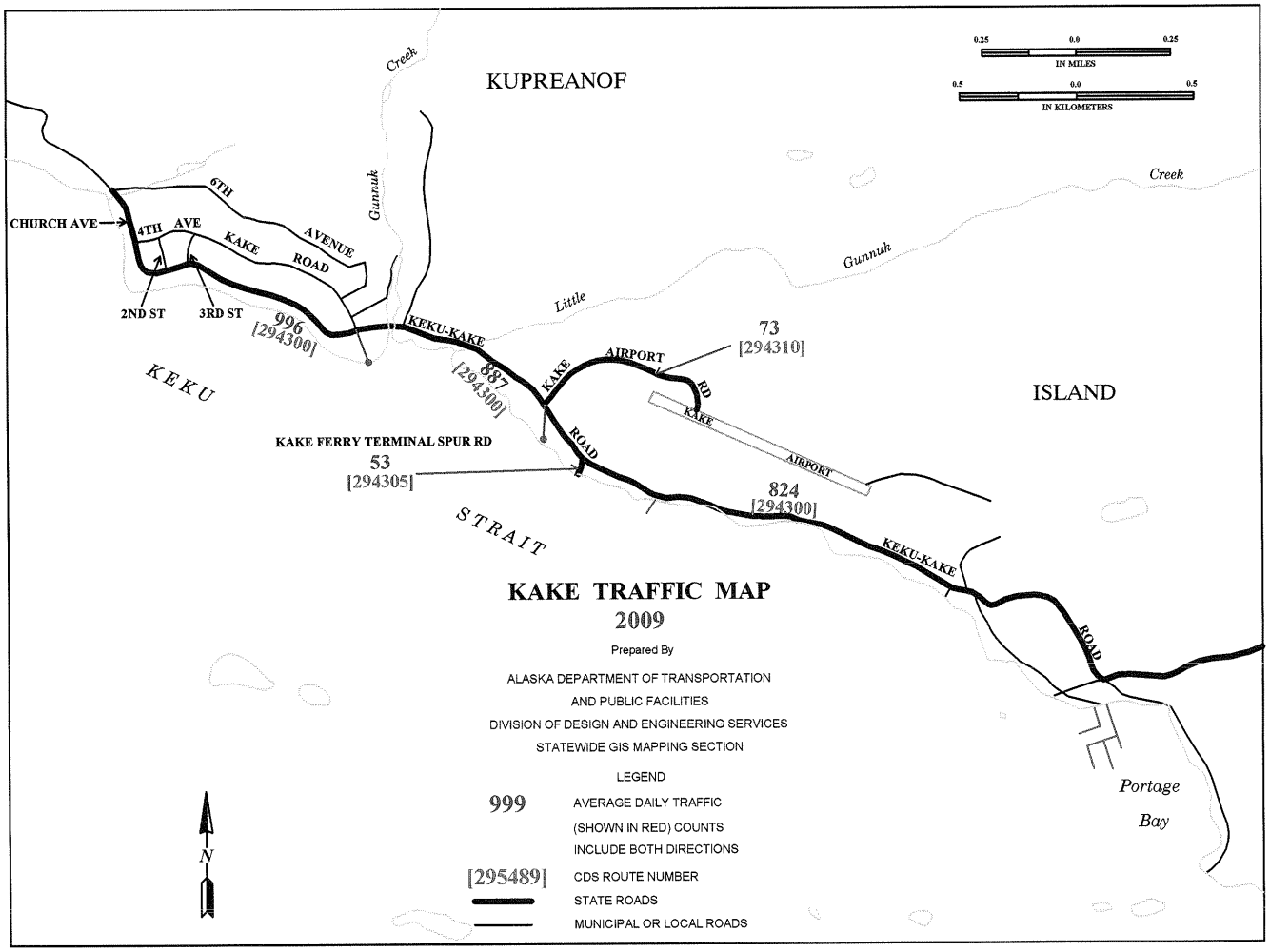
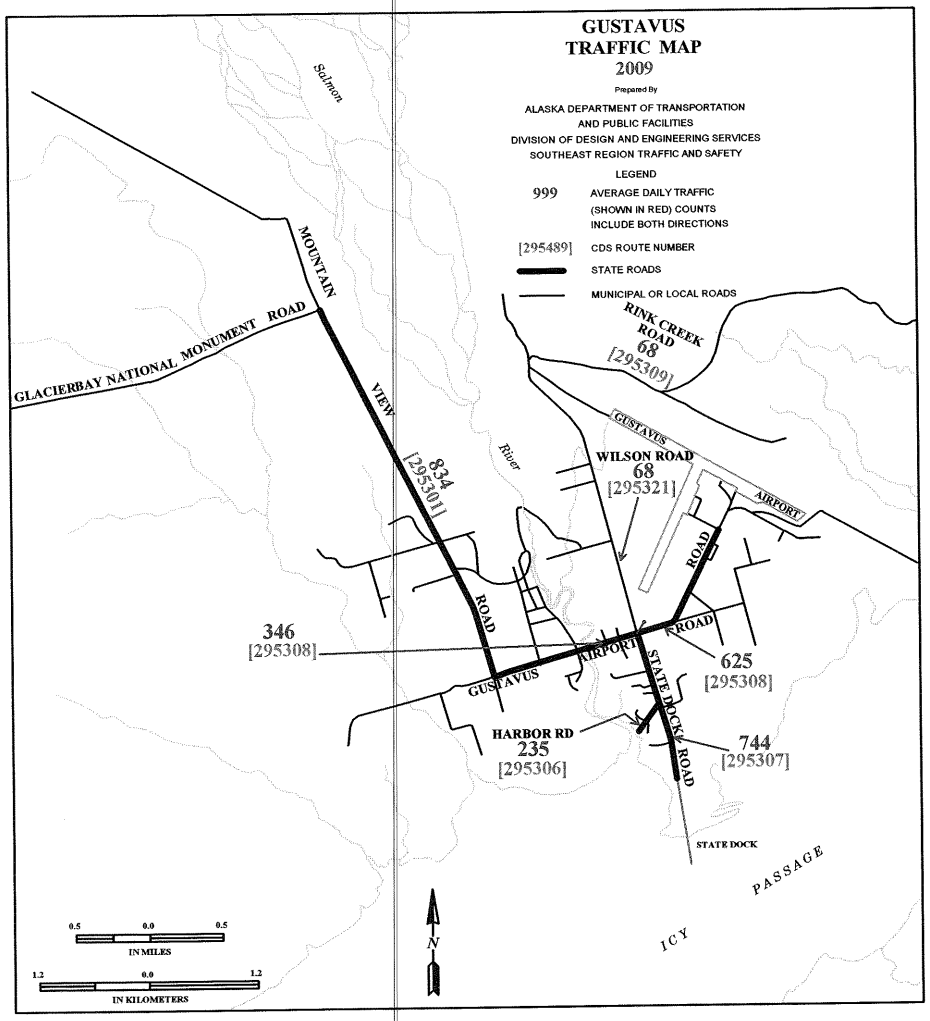
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
P.T.R. LOCATION
STATE ROADS
MUNICIPAL OR LOCAL ROADS

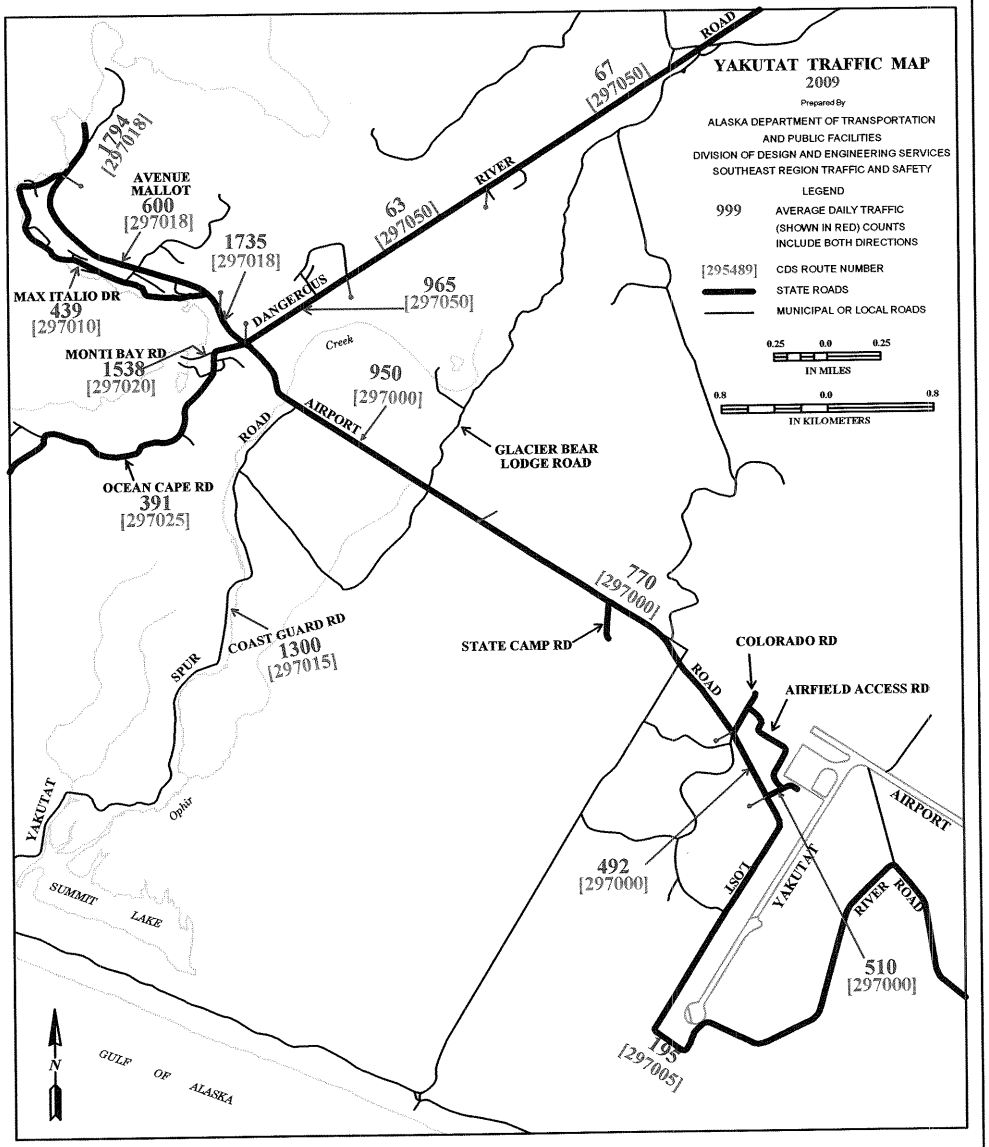

HOONAH
TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
0.25 0.0 0.25
IN MILES
0.5 0.0 0.5
IN KILOMETERS
CHICHAGOF
ISLAND
PORT FREDERICK
Hoonah Harbor
Pitt I
Long Island
CANNERY
FERRY ACCESS ROAD
ROAD
FIRST
STREET
GARTEEN
WAY
AIRPORT
ROAD
552
[295211]
1397
[295211]
480
[295211]
192
[295211]
Hoonah Airport
N


KOOTZNAHOO INLET
ANGOON SEABASE ACCESS ROAD
176
[290130]
KOOTZNAHOO
CHATHAM ROAD
CHATHAM
STRAIT
FAVORITE BAY
ADMIRALITY
ISLAND
462
[290140]
ROAD
FERRY ACCESS ROAD
46
[290120]
N
ANGOON
TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
0.5 0.0 0.5
IN MILES
1.0 0.0 1.0
IN KILOMETERS


HYDER TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OFDESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
SALMON
SALMON
RIVER
RIVER
487
[290200]
CANADA
UNITED STATES
SALMON RIVER SPUR ROAD
313
[290230]
159
[290200]
ROAD
1000 500 0.0 1000
IN FEET
0.3 0.0 0.3
IN KILOMETERS
N


KUPREANOF
0.25 0.0 0.25
IN MILES
0.5 0.0 0.5
IN KILOMETERS
Creek
Gunnuk
Creek
Gunnuk
Little
CHURCH AVE
4TH AVE
6TH
AVENUE
KAKE
ROAD
2ND ST
3RD ST
996
[294300]
KEKU-KAKE
887
[294300]
KAKE
ROAD
AIRPORT
RD
73
[294310]
KAKE
AIRPORT
KAKE FERRY TERMINAL SPUR RD
53
[294305]
824
[294300]
KEKU-KAKE
ROAD
KEKU
STRAIT
ISLAND
Portage
Bay
KAKE TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
STATEWIDE GIS MAPPING SECTION
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
N


GUSTAVUS
TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND ENGINEERING SERVICES
SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
Salmon
River
GLACIERBAY NATIONAL MONUMENT ROAD
MOUNTAIN VIEW ROAD
834 [295301]
RINK CREEK ROAD 68 [295309]
GUSTAVUS AIRPORT ROAD
WILSON ROAD 68 [295321]
346 [295308]
625 [295308]
HARBOR RD 235 [295306]
744 [295307]
STATE DOCK ROAD
STATE DOCK
ICY PASSAGE
0.5 0.0 0.5
IN MILES
1.2 0.0 1.2
IN KILOMETERS
N


YAKUTAT TRAFFIC MAP
2009
Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
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SOUTHEAST REGION TRAFFIC AND SAFETY
LEGEND
999 AVERAGE DAILY TRAFFIC (SHOWN IN RED) COUNTS INCLUDE BOTH DIRECTIONS
[295489] CDS ROUTE NUMBER
STATE ROADS
MUNICIPAL OR LOCAL ROADS
0.25 0.0 0.25
IN MILES
0.8 0.0 0.8
IN KILOMETERS
67 [297050]
ROAD
RIVER
63 [297050]
1794 [297018]
AVENUE MALLOT 600 [297018]
1735 [297018]
MAX ITALIO DR 439 [297010]
DANGEROUS
965 [297050]
MONTI BAY RD 1538 [297020]
Creek
950 [297000]
AIRPORT
ROAD
GLACIER BEAR LODGE ROAD
OCEAN CAPE RD 391 [297025]
770 [297000]
STATE CAMP RD
COLORADO RD
AIRFIELD ACCESS RD
COAST GUARD RD 1300 [297015]
SPUR
YAKUTAT
Ophir
SUMMIT LAKE
492 [297000]
ISOLA
YAKUTAT
AIRPORT
RIVER ROAD
510 [297000]
195 [297005]
GULF OF ALASKA
N