

APPENDIX E: Traffic Model - Technical Assumptions & Data

TECHNICAL INFORMATION PRESENTED

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Technical Assumptions & Data

This appendix is meant to document various aspects of the Skagit County-wide Traffic Model including the many technical assumptions and land use data which went into the model. The following definitions are provided to help in the interpretation of the maps, tables and other information presented:

Land Use Data. Employment, population and housing data which is assumed to generate traffic within each TAZ.

Network. The streets, highways, and roads which are included in the calibration phase of the model (base year) and in the forecasting phase of the model (future year). The future year network includes improvements assumed to be built between the base year and the future year.

Base Year. The year in which actual land use and road network data are collected and used in the calibration of the traffic model.

Future Year. The year in which both the land use data and the traffic levels are forecast.

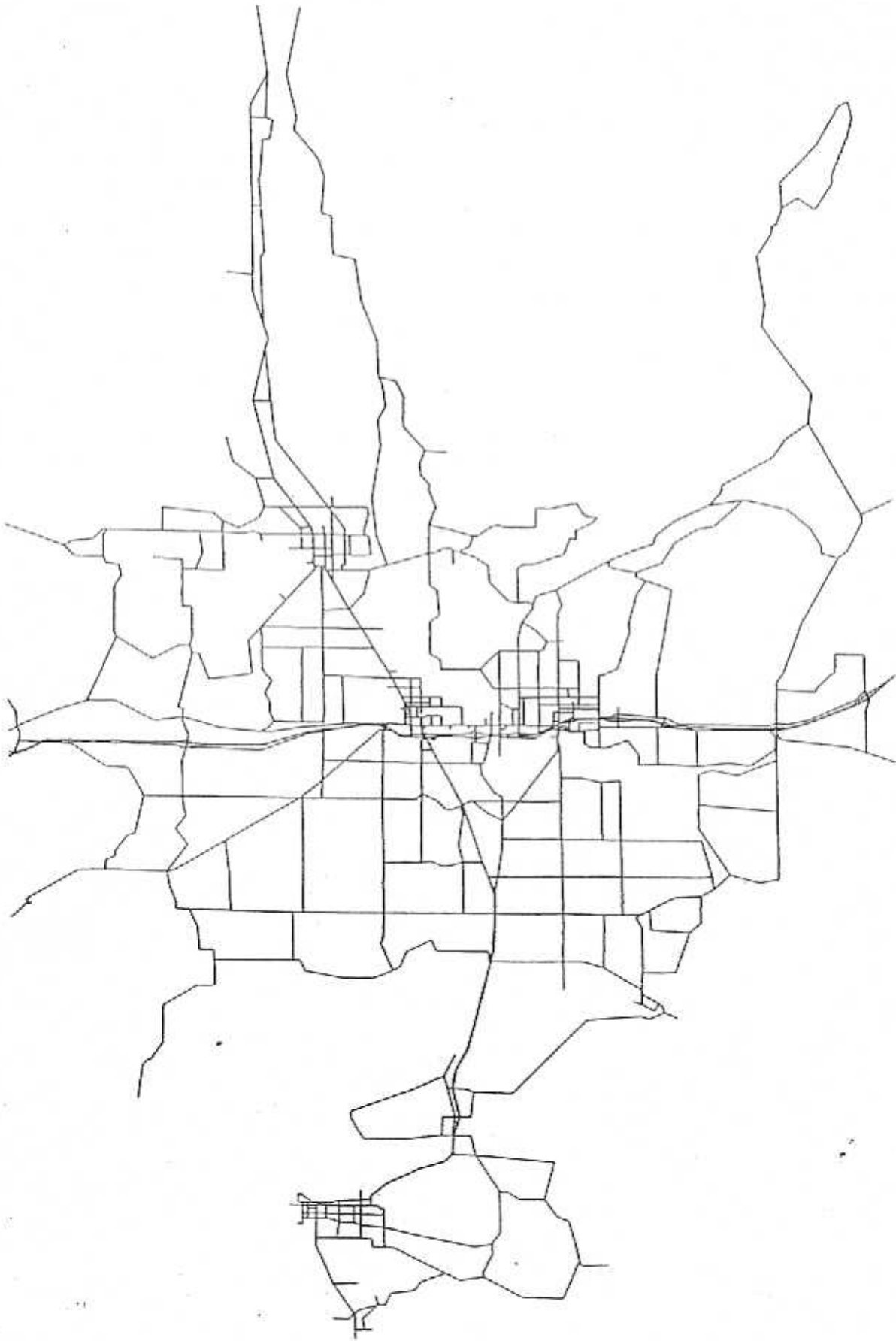
Traffic Analysis Zones (TAZs). A small geographic area used in traffic modeling. Land use data for each TAZ is compiled and used in the modeling process. For traffic modeling purposes, all traffic generated by the land use within a specific TAZ is assumed to originate or terminate at a point within the TAZ called a centroid.

Screenlines. Imaginary lines, the crossing of which defines major regional flows of traffic within the modeling area. Flows across one screenline are often comprised of the traffic on several parallel roads.

Trip Generation Rates. The amount of traffic assumed to be generated by different land use types.

External Trips. Trips coming in to and going out of the traffic modeling area.

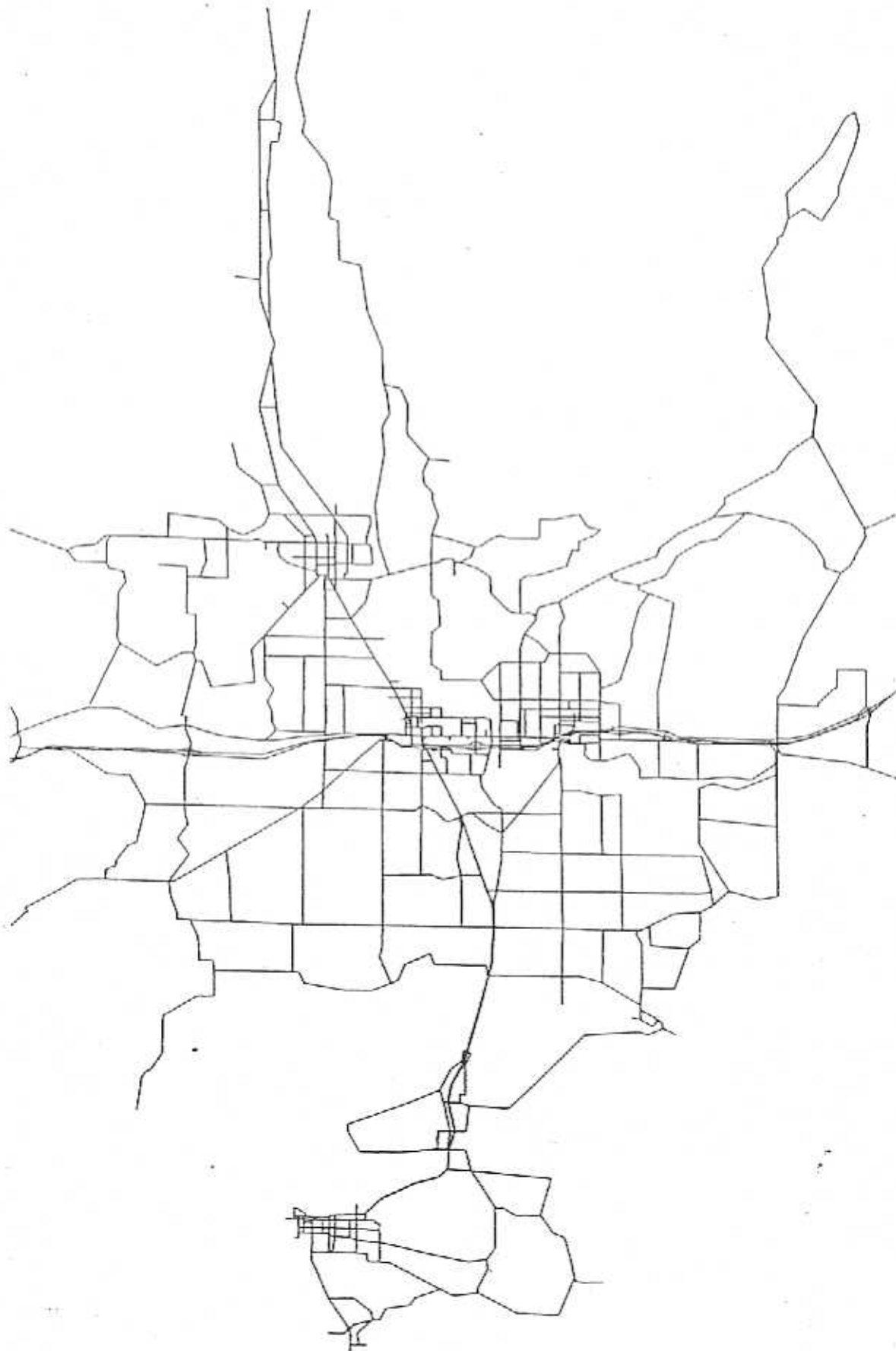
Screenline Analysis. The comparisons between the actual base year traffic flows across screenlines and the base year predicted flows by the calibrated model. This analysis is probably the best indicator of the accuracy of the model.



SKAGIT, WA
SAGIT, WA
LL: 9017-126
UR: 9017-126
CB-01-1996

Skagit County 1993 Base Year Model
Skagit County Public Works
SAGIT COUNCIL OF GOVERNMENTS, MOUNT VERNON, WA

THODEL 2



2014 FUTURE YEAR
FUTURE YEAR
LID: 801/128
LID: 801/128
08-31-1998

Skagit Co. 2014 Future Year Model
Skagit County Public Works
SKAGIT COUNCIL OF GOVERNMENTS, MOUNT VERNON, WA

MODEL 2



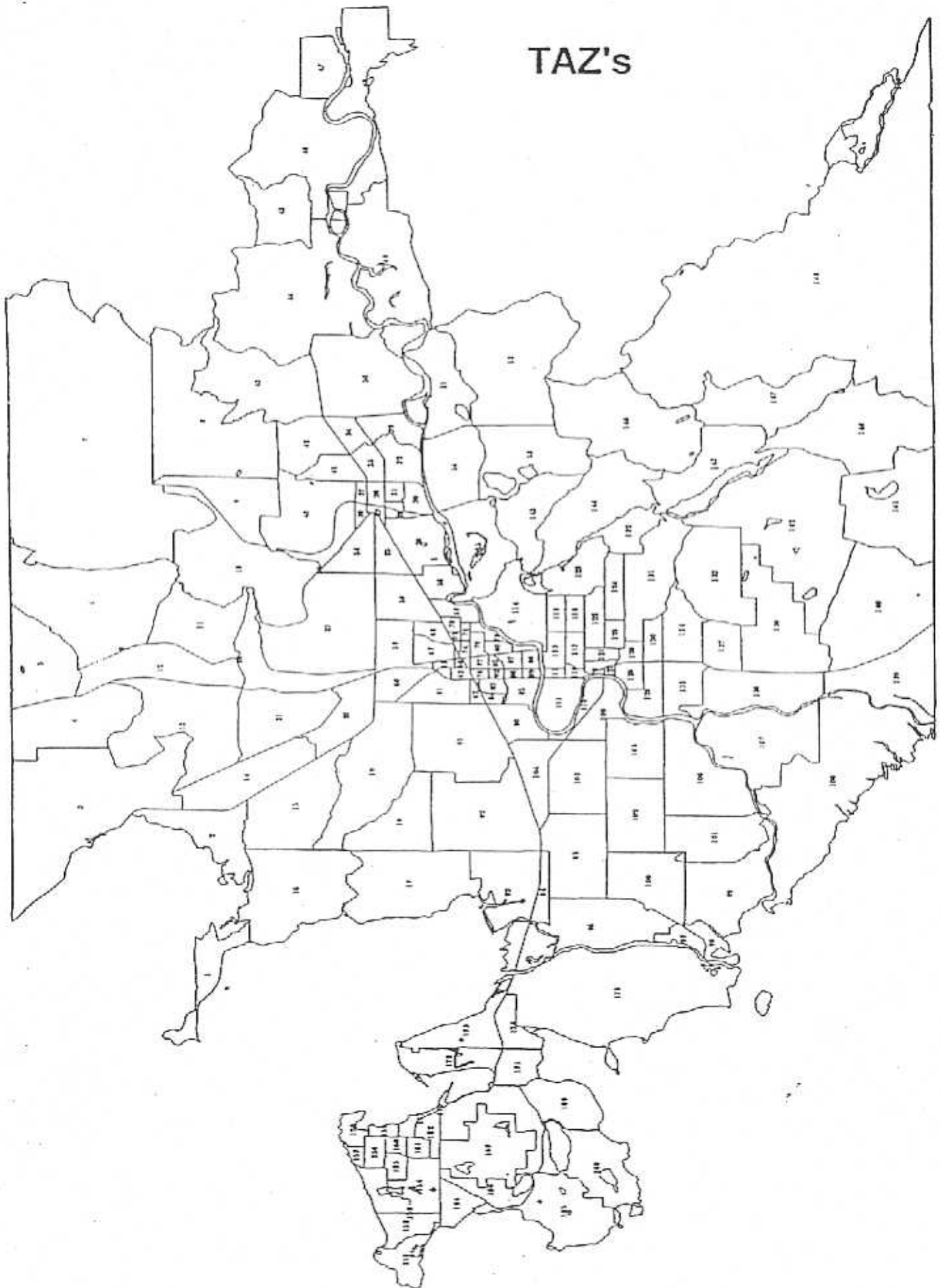
SKD 701.00 DWS
 R/L 10.00 DWS
 LL: 725/-384
 UR: 8100/5508
 04-02-1906

SCOG 1993 BASE YEAR MODEL WITH SCREENLINES ADDED

BRADIT COUNCIL OF GOVERNMENTS, MOUNT VERNON, WA

MODEL 2

TAZ's



SKAGIT COUNTY REGIONAL TRAFFIC DEMAND MODEL

Computes p.m. peak hour trip generation based upon
input land use and pre-established trip rates.
Rates are found at b150

Skagit County Public Works
1993 Base Year Land Use Data

SKAMODE7.WQ1 transfers to SKA7.OND

6/94

Zone	SF DU LU1	MFDU LU2	RETIRE LU3	SEA/RE LU4	HOTE ROOM LU5	TRAD EMP LU6	IND MF EMP LU7	AG SQM*1 LU8	TCU EMP LU9	OFFIC EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
1	304	47	0	0	0	0	0	6	0	0	0	0	0	0
2	62	18	0	0	0	7	44	21	15	0	0	0	0	0
3	153	32	0	0	0	68	27	0	0	5	0	0	0	0
4	33	12	0	0	0	0	0	0	0	0	0	0	0	0
5	70	42	0	0	0	2	2	0	2	6	0	0	0	0
6	97	72	0	0	0	0	0	0	0	8	0	0	0	0
7	107	68	0	0	0	0	4	12	0	0	0	0	0	0
8	80	31	0	0	0	0	4	0	0	0	0	0	0	0
9	153	50	0	0	0	0	4	4	0	4	0	13	0	0
10	148	72	0	0	0	0	7	6	0	3	0	0	0	0
11	113	33	0	0	0	0	2	9	0	10	0	0	0	0
12	59	32	0	0	0	0	0	0	0	21	0	0	0	0
13	116	26	0	0	0	0	0	3	0	33	0	0	0	0
14	114	16	0	0	0	12	0	35	6	0	0	0	0	0
15	60	11	0	0	0	0	0	48	0	0	0	0	0	0
16	35	10	0	0	0	0	0	49	0	0	0	0	0	0
17	216	87	0	0	0	5	5	3	0	10	0	0	0	0
18	45	6	0	0	0	0	0	5	0	0	0	0	0	0
19	115	37	0	0	0	3	5	43	18	0	0	0	27	0
20	59	9	0	0	0	11	6	19	0	1	0	0	0	0
21	65	19	0	0	0	0	5	0	0	13	0	0	0	0
22	73	38	0	0	0	0	0	16	0	0	0	0	0	0
23	110	23	0	0	0	10	18	39	7	37	0	0	0	0
24	97	0	20	0	0	23	49	0	28	29	0	41	0	0
25	68	68	28	0	0	81	34	0	7	74	32	0	535	0
26	92	2	19	0	0	0	186	0	0	53	0	0	0	0
27	29	0	6	0	0	34	33	0	0	5	0	0	0	0
28	63	0	13	0	0	16	0	0	0	1	0	0	0	0
29	35	18	11	0	0	50	50	0	0	33	0	0	2	0
30	170	4	35	0	0	23	50	0	0	31	10	0	0	0
31	183	22	41	0	0	45	5	0	0	164	4	191	3	0
32	339	16	72	0	0	0	50	0	0	29	0	0	0	0
33	35	8	0	0	0	0	0	9	0	0	0	0	0	0
34	63	34	0	0	0	0	0	7	0	0	0	0	0	0
35	401	99	101	0	0	22	48	0	0	18	0	0	0	0
36	322	121	89	0	0	162	58	0	0	154	57	11	23	0
37	51	57	22	0	0	7	6	0	0	7	0	0	0	0
38	52	0	11	0	0	0	17	0	0	0	0	0	0	0
39	72	0	15	0	0	23	24	0	0	0	0	0	0	0
40	332	25	72	0	0	23	99	0	0	28	0	0	0	0
41	191	0	39	0	0	37	83	0	0	107	54	150	0	0
42	36	12	10	0	0	0	25	0	0	28	123	0	0	0
43	72	17	0	0	0	0	7	42	9	0	0	0	0	0
44	179	27	0	0	0	3	4	22	0	0	0	0	0	0
45	25	5	0	0	0	0	0	0	8	0	0	0	0	0
46	114	29	41	0	0	21	29	22	0	4	0	10	0	0
47	102	51	50	22	0	3	23	7	1	4	0	0	0	0
48	22	5	0	0	0	0	0	3	0	0	0	0	0	0
49	61	17	0	0	0	0	0	42	0	0	0	0	0	0
50	121	34	0	0	0	0	0	17	42	3	10	0	0	0

Zone	SFDU DU LU1	MFDU DU LU2	RETR DU LU3	SEA/RE DU LU4	HOTEL ROOMS LU5	TRAD EMP LU6	IND/MF EMP LU7	AG SQM*10 LU8	TCU EMP LU9	OFFICE EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
51	63	32	0	0	0	0	30	3	0	0	0	0	0	0
52	30	7	0	0	0	0	20	0	0	0	0	0	0	0
53	162	39	0	0	0	25	27	15	0	4	0	27	0	0
54	111	29	0	0	0	0	41	2	0	0	0	0	0	0
55	47	4	0	0	0	0	0	25	0	0	0	0	0	0
56	4	0	12	0	0	0	17	6	0	0	0	0	0	0
57	117	0	14	0	0	0	10	0	0	0	0	0	0	0
58	635	0	0	0	0	5	56	0	0	20	0	0	28	0
59	139	0	0	0	0	591	425	0	34	189	0	42	67	0
60	10	5	0	0	0	0	2	8	0	7	0	0	0	0
61	36	18	0	0	0	5	10	0	0	0	0	0	0	0
62	457	135	0	0	0	0	35	0	11	18	0	0	0	0
63	98	201	0	0	0	30	29	0	0	214	18	121	0	0
64	3	0	0	0	0	10	10	0	0	0	0	0	0	0
65	58	0	0	0	0	124	35	0	0	0	28	0	0	0
66	83	0	0	0	0	246	147	0	43	155	16	0	51	0
67	240	16	0	0	0	30	10	0	0	0	0	0	0	0
68	71	0	0	0	0	86	53	0	0	123	25	0	0	0
69	248	0	0	0	0	7	46	0	0	6	0	0	0	0
70	158	0	0	0	0	10	9	0	3	9	0	0	0	0
71	209	27	0	0	0	0	0	0	0	16	0	0	0	0
72	165	0	0	0	0	0	29	0	0	2	0	0	5	0
73	148	0	0	0	0	0	39	0	10	27	37	0	54	0
74	322	20	0	0	0	120	210	0	23	49	92	0	32	0
75	66	0	0	0	0	81	83	0	27	25	0	0	0	0
76	20	0	0	0	17	339	34	0	47	50	0	0	3	0
77	56	0	0	0	16	83	183	0	12	29	139	0	4	0
78	262	0	0	0	0	36	34	0	0	63	0	66	0	0
79	150	0	0	0	0	0	14	0	0	0	7	0	0	0
80	225	0	0	0	0	9	20	0	0	27	0	0	0	0
81	92	0	0	0	0	362	0	0	0	0	0	0	43	0
82	0	0	0	0	0	632	26	0	0	14	0	0	0	0
83	112	248	0	0	17	443	439	0	29	57	0	0	0	0
84	33	0	0	0	0	52	10	0	0	40	0	42	0	0
85	32	0	0	0	0	77	29	0	0	0	0	0	0	0
86	112	0	0	0	0	446	0	0	0	45	0	0	0	0
87	15	0	0	0	0	717	478	0	97	85	0	0	0	0
88	11	0	0	0	0	220	103	0	0	88	0	0	0	0
89	3	0	0	0	0	274	19	0	0	117	0	0	0	0
90	150	71	0	0	0	35	0	10	0	30	0	0	0	0
91	1867	64	0	0	0	70	38	33	0	59	0	250	0	0
92	120	3	0	0	0	166	871	5	69	37	25	0	0	0
93	84	4	0	0	0	5	107	25	0	56	0	0	0	0
94	9	0	0	0	0	106	0	6	0	0	0	0	0	0
95	63	8	0	0	0	40	0	35	0	0	0	0	0	0
96	71	1	0	0	0	33	15	38	0	0	0	0	0	0
97	415	98	0	0	223	407	108	0	100	132	119	85	6	0
98	55	24	0	0	0	80	50	4	5	20	0	0	0	0
99	50	33	0	0	0	10	3	25	0	3	14	0	0	0
100	28	6	0	0	0	2	0	29	0	18	0	0	0	0

Zone	SFDU DU LU1	MFDU DU LU2	RETI DU LU3	SEA/RE DU LU4	HOTEL ROOMS LU5	TRAD EMP LU6	IND/MF EMP LU7	AG SQM*10 LU8	TCU EMP LU9	OFFICE EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
101	85	14	0	0	0	4	0	15	0	10	0	0	0	0
102	50	3	0	0	0	10	10	28	4	6	0	0	0	0
103	202	24	0	0	0	0	3	28	3	3	0	0	0	0
104	93	17	0	0	0	0	0	0	0	0	0	0	0	0
105	125	52	0	0	0	96	45	21	5	20	0	0	0	0
106	67	2	0	0	0	5	5	37	4	6	0	0	0	0
107	84	7	0	0	0	5	0	47	0	4	0	0	0	0
108	118	8	0	0	0	0	15	66	0	4	0	0	0	0
109	358	34	0	0	0	184	432	0	22	158	38	73	0	0
110	418	69	0	0	0	66	281	0	0	77	0	0	0	0
111	104	30	0	0	0	753	139	0	279	193	23	0	0	0
112	16	30	0	0	0	491	53	0	109	162	0	0	10	0
113	863	195	0	0	0	879	132	0	130	309	91	0	9	0
114	482	264	0	0	0	187	115	0	0	116	0	0	0	0
115	380	253	0	0	0	11	5	0	0	15	317	660	20	0
116	612	527	0	0	0	100	31	0	0	94	50	129	166	0
117	542	389	0	0	0	616	243	0	0	364	117	105	48	0
118	83	31	0	0	0	534	104	0	0	292	126	0	89	0
119	0	0	0	0	0	34	71	0	53	32	0	0	0	0
120	382	59	0	0	0	34	42	0	0	40	27	48	32	0
121	338	66	0	0	0	22	12	0	0	20	88	275	1682	0
122	1235	410	0	0	0	32	34	0	0	196	0	0	349	0
123	1046	363	0	0	0	73	236	0	0	117	84	0	43	0
124	306	52	0	0	0	0	0	0	0	83	4	0	36	0
125	730	377	0	0	0	52	0	0	0	0	0	0	553	0
126	583	49	0	0	0	6	0	0	0	9	77	81	4	0
127	0	46	0	0	0	852	386	0	25	443	876	0	23	0
128	562	316	0	0	0	317	612	0	231	507	710	0	44	0
129	134	32	0	0	0	33	294	0	152	60	0	0	0	0
130	371	81	0	0	0	388	71	0	51	98	0	0	63	0
131	1184	373	0	0	0	187	5	0	5	110	73	105	2	0
132	231	64	0	0	0	758	175	0	0	139	4	0	121	0
133	611	136	0	0	0	49	0	0	0	44	0	0	4	0
134	613	46	0	0	0	393	233	0	308	107	80	0	76	0
135	177	0	0	0	0	6	363	0	0	31	0	0	0	0
136	152	0	0	0	0	0	0	0	0	0	0	0	0	0
137	55	0	0	0	0	0	0	0	0	0	0	0	0	0
138	273	0	0	0	0	0	0	0	0	0	0	89	0	0
139	102	23	0	0	0	3	0	11	5	2	0	0	0	0
140	386	75	0	0	0	5	0	2	0	0	0	0	0	0
141	142	16	0	0	0	0	4	0	0	0	0	0	0	0
142	97	2	0	0	0	0	3	2	0	0	0	0	0	0
143	1318	102	0	159	0	60	0	7	5	5	0	15	0	0
144	80	19	0	11	0	0	4	41	0	0	0	0	0	0
145	185	37	0	0	0	4	84	13	0	7	0	0	0	0
146	31	3	0	0	0	0	0	2	0	0	0	0	0	0
147	13	7	0	0	0	4	0	1	3	0	0	0	0	0
148	16	4	0	0	0	0	5	0	0	0	0	0	0	0
149	62	6	0	0	0	0	0	0	0	0	0	0	0	0
150	80	15	0	329	0	4	0	0	3	0	0	0	0	0

Zone	SFDU DU LU1	MFDU DU LU2	RETR DU LU3	SEA/RE DU LU4	HOTEL ROOMS LU5	TRAD EMP LU6	IND/MF EMP LU7	AG SQM*10 LU8	TCU EMP LU9	OFFICE EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
151	536	251	224	0	0	31	46	0	48	55	0	0	0	0
152	749	133	252	0	0	40	17	0	58	69	146	0	0	0
153	821	0	234	0	0	56	77	0	0	34	0	0	0	0
154	409	95	144	0	0	0	9	0	0	0	0	0	0	0
155	596	93	196	0	0	0	15	0	0	7	86	0	34	0
156	400	232	180	0	0	163	113	0	0	58	0	136	69	0
157	356	80	124	0	0	15	228	0	14	19	0	0	34	0
158	168	197	104	0	0	654	712	0	82	340	386	0	74	0
159	0	98	28	0	0	403	185	0	39	51	0	0	0	0
160	51	269	91	0	0	105	336	0	0	89	0	323	765	0
161	373	56	122	0	0	0	22	0	0	22	0	0	0	0
162	345	60	115	0	0	0	15	0	0	0	0	0	0	0
163	8	155	47	0	0	73	458	0	0	192	0	0	0	0
164	115	0	0	0	0	0	0	0	0	0	0	0	0	0
165	291	37	0	0	0	7	0	0	0	0	0	0	0	0
166	57	5	0	0	0	0	0	0	0	0	0	0	0	0
167	119	3	0	0	0	4	73	0	1	2	0	0	0	0
168	195	32	0	0	0	10	22	0	0	0	0	0	0	0
169	306	44	0	0	0	5	39	0	0	0	0	0	0	0
170	160	3	0	0	0	79	22	0	7	4	0	0	0	0
171	126	15	0	0	0	79	0	0	0	21	0	0	0	0
172	27	7	0	0	0	6	1282	0	25	0	2	0	0	0
173	43	14	0	0	0	113	342	0	25	308	0	0	0	0
174	52	9	0	0	0	50	116	0	0	19	0	0	0	0
175	760	90	439	145	0	80	123	0	6	260	0	0	0	0

	SFDU	MFDU	RETR	SEA/RE	HOTEL	TRAD	IND/MF	AG	TCU	OFFICE	GOVT	SCHOO	HEALT	PARK
TOTALS	39114	11410	3037	671	273	16297	13843	1104	2326	8530	4574	3255	5278	0

SKAGIT COUNTY REGIONAL TRAFFIC DEMAND MODEL

Computes p.m. peak hour trip generation based upon Skagit County Public Works

input land use and pre-established trip rates.

Future Year 2014 Model Land Use Forecasts

Rates are found at b150

SKA2014a.WQ1 transfers to ska2014a.ond

6/94

Zone	SFDU DU LU1	MFDU DU LU2	RETI DU LU3	SEA/RE DU LU4	HOTEL ROOMS LU5	TRAD EMP LU6	IND/MF EMP LU7	AG SQM*10 LU8	TCU EMP LU9	OFFICE EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
1	354	47	0	0	0	0	0	6	0	0	0	0	0	0
2	77	18	0	0	0	7	44	21	15	0	0	0	0	0
3	188	32	0	0	0	68	27	0	0	5	0	0	0	0
4	53	12	0	0	0	0	0	0	0	0	0	0	0	0
5	80	42	0	0	0	2	2	0	2	6	0	0	0	0
6	117	72	0	0	0	0	0	0	0	8	0	0	0	0
7	152	68	0	0	0	0	4	12	0	0	0	0	0	0
8	180	31	0	0	0	0	4	0	0	0	0	0	0	0
9	193	50	0	0	0	0	4	4	0	4	0	13	0	0
10	178	72	0	0	0	0	7	6	0	3	0	0	0	0
11	163	33	0	0	0	0	2	9	0	10	0	0	0	0
12	69	32	0	0	0	0	0	0	0	21	0	0	0	0
13	131	26	0	0	0	0	0	3	0	33	0	0	0	0
14	119	16	0	0	0	12	0	35	6	0	0	0	0	0
15	65	11	0	0	0	0	0	48	0	0	0	0	0	0
16	40	10	0	0	0	0	0	49	0	0	0	0	0	0
17	336	87	0	0	0	5	5	3	0	10	0	0	0	0
18	145	6	0	0	0	0	0	5	0	0	0	0	0	0
19	120	37	0	0	0	3	5	43	18	0	0	0	27	0
20	64	9	0	0	0	11	6	19	0	1	0	0	0	0
21	70	19	0	0	0	0	5	0	0	13	0	0	0	0
22	78	38	0	0	0	0	0	16	0	0	0	0	0	0
23	120	23	0	0	0	10	38	39	7	52	0	0	0	0
24	142	48	20	0	0	38	60	0	36	41	0	58	0	0
25	66	247	28	0	0	131	42	0	9	106	45	0	545	0
26	145	2	19	0	0	0	270	0	0	75	0	0	0	0
27	29	0	6	0	0	55	107	0	0	6	0	0	0	0
28	63	159	13	0	0	27	0	0	0	1	0	0	0	0
29	35	76	11	0	0	80	61	0	0	47	0	0	4	0
30	334	4	35	0	0	38	61	0	0	44	15	0	0	0
31	314	517	41	0	0	73	5	0	0	233	5	272	6	0
32	343	526	72	0	0	0	61	0	0	41	0	0	0	0
33	40	8	0	0	0	0	0	9	0	0	0	0	0	0
34	68	67	0	0	0	0	0	7	0	0	0	0	0	0
35	816	99	101	0	0	36	59	0	0	25	0	0	0	0
36	322	737	89	0	0	263	70	0	0	218	80	16	53	0
37	75	85	22	0	0	11	7	0	0	10	0	0	0	0
38	101	0	11	0	0	0	21	0	0	0	0	0	0	0
39	185	0	15	0	0	38	29	0	0	0	0	0	0	0
40	470	25	72	0	0	38	121	0	0	40	0	0	0	0
41	345	0	39	0	0	60	102	0	0	152	77	214	0	0
42	387	12	10	0	0	0	31	0	0	40	427	0	0	0
43	82	17	0	0	0	0	7	42	9	0	0	0	0	0
44	199	27	0	0	0	3	4	22	0	0	0	0	0	0
45	30	5	0	0	0	0	0	0	8	0	0	0	0	0
46	129	37	48	0	0	31	59	22	0	4	0	10	0	0
47	113	66	59	27	0	13	43	7	1	4	0	0	0	0
48	27	5	0	0	0	0	0	3	0	0	0	0	0	0
49	71	17	0	0	0	0	0	42	0	0	0	0	0	0
50	136	34	0	0	0	0	0	17	42	3	10	0	0	0

Zone	SFDU DU LU1	MFDU DU LU2	RETI DU LU3	SEA/RE DU LU4	HOTEL ROOMS LU5	TRAD EMP LU6	IND/MF EMP LU7	AG SQM*10 LU8	TCU EMP LU9	OFFICE EMP LU10	GOVT EMP LU11	SCHOO EMP LU12	HEALT EMP LU13	PARK AE LU14
51	63	32	0	0	0	0	30	3	0	0	0	0	0	0
52	30	7	0	0	0	0	20	0	0	0	0	0	0	0
53	162	39	0	0	0	25	27	15	0	4	0	27	0	0
54	111	29	0	0	0	0	41	2	0	0	0	0	0	0
55	47	4	0	0	0	0	0	25	0	0	0	0	0	0
56	4	0	12	0	0	0	17	6	0	0	0	0	0	0
57	117	0	14	0	0	0	10	0	0	0	0	0	0	0
58	635	0	0	0	0	5	56	0	0	20	0	0	28	0
59	139	0	0	0	0	591	425	0	34	189	0	42	67	0
60	10	5	0	0	0	0	2	8	0	7	0	0	0	0
61	36	18	0	0	0	5	10	0	0	0	0	0	0	0
62	457	135	0	0	0	0	35	0	11	18	0	0	0	0
63	98	201	0	0	0	30	29	0	0	214	18	121	0	0
64	3	0	0	0	0	10	10	0	0	0	0	0	0	0
65	58	0	0	0	0	124	35	0	0	0	28	0	0	0
66	83	0	0	0	0	246	147	0	43	155	16	0	51	0
67	240	16	0	0	0	30	10	0	0	0	0	0	0	0
68	71	0	0	0	0	86	53	0	0	123	25	0	0	0
69	248	0	0	0	0	7	46	0	0	6	0	0	0	0
70	158	0	0	0	0	10	9	0	3	9	0	0	0	0
71	209	27	0	0	0	0	0	0	0	16	0	0	0	0
72	165	0	0	0	0	0	29	0	0	2	0	0	5	0
73	148	0	0	0	0	0	39	0	10	27	37	0	54	0
74	322	20	0	0	0	120	210	0	23	49	92	0	32	0
75	66	0	0	0	0	81	83	0	27	25	0	0	0	0
76	20	0	0	0	17	339	34	0	47	50	0	0	3	0
77	56	0	0	0	16	83	183	0	12	29	139	0	4	0
78	262	0	0	0	0	36	34	0	0	63	0	66	0	0
79	150	0	0	0	0	0	14	0	0	0	7	0	0	0
80	225	0	0	0	0	9	20	0	0	27	0	0	0	0
81	92	0	0	0	0	162	0	0	0	0	0	0	43	0
82	0	0	0	0	0	632	26	0	0	14	0	0	0	0
83	112	248	0	0	17	443	439	0	29	57	0	0	0	0
84	33	0	0	0	0	52	10	0	0	40	0	42	0	0
85	32	0	0	0	0	77	29	0	0	0	0	0	0	0
86	112	0	0	0	0	446	0	0	0	45	0	0	0	0
87	15	0	0	0	0	717	478	0	97	85	0	0	0	0
88	11	0	0	0	0	220	103	0	0	88	0	0	0	0
89	3	0	0	0	0	274	19	0	0	117	0	0	0	0
90	150	71	0	0	0	35	0	10	0	30	0	0	0	0
91	1867	64	0	0	0	70	38	33	0	59	0	250	0	0
92	120	3	0	0	0	166	871	5	69	37	25	0	0	0
93	84	4	0	0	0	5	107	25	0	56	0	0	0	0
94	9	0	0	0	0	106	0	6	0	0	0	0	0	0
95	63	8	0	0	0	40	0	35	0	0	0	0	0	0
96	71	1	0	0	0	33	15	38	0	0	0	0	0	0
97	415	98	0	0	223	407	108	0	100	132	119	85	6	0
98	55	24	0	0	0	80	50	4	5	20	0	0	0	0
99	50	33	0	0	0	10	3	25	0	3	14	0	0	0
100	28	6	0	0	0	2	0	29	0	18	0	0	0	0

Zone	SF DU	MF DU	RETI	SEA/RE	HOTEL	TRAD	IND/MF	AG	TCU	OFFICE	GOVT	SCHOO	HEALT	PARK
	DU	DU	DU	DU	ROOMS	EMP	EMP	SQM*10	EMP	EMP	EMP	EMP	EMP	AE
	LU1	LU2	LU3	LU4	LU5	LU6	LU7	LU8	LU9	LU10	LU11	LU12	LU13	LU14
101	85	14	0	0	0	4	0	15	0	10	0	0	0	0
102	50	3	0	0	0	10	10	28	4	6	0	0	0	0
103	202	24	0	0	0	0	3	28	3	3	0	0	0	0
104	93	17	0	0	0	0	0	0	0	0	0	0	0	0
105	125	52	0	0	0	96	45	21	5	20	0	0	0	0
106	67	2	0	0	0	5	5	37	4	6	0	0	0	0
107	84	7	0	0	0	5	0	47	0	4	0	0	0	0
108	118	8	0	0	0	0	15	66	0	4	0	0	0	0
109	358	34	0	0	0	184	432	0	22	158	38	73	0	0
110	418	69	0	0	0	66	281	0	0	77	0	0	0	0
111	104	30	0	0	0	753	139	0	279	193	23	0	0	0
112	16	30	0	0	0	491	53	0	109	162	0	0	10	0
113	863	195	0	0	0	879	132	0	130	309	91	0	9	0
114	482	264	0	0	0	187	115	0	0	116	0	0	0	0
115	380	253	0	0	0	11	5	0	0	15	317	660	20	0
116	612	527	0	0	0	100	31	0	0	94	50	129	166	0
117	542	389	0	0	0	616	243	0	0	364	117	105	48	0
118	83	31	0	0	0	534	104	0	0	292	126	0	89	0
119	0	0	0	0	0	34	71	0	53	32	0	0	0	0
120	382	59	0	0	0	34	42	0	0	40	27	48	32	0
121	338	66	0	0	0	22	12	0	0	20	88	275	1682	0
122	1235	410	0	0	0	32	34	0	0	196	0	0	349	0
123	1046	363	0	0	0	73	236	0	0	117	84	0	43	0
124	306	52	0	0	0	0	0	0	0	83	4	0	36	0
125	730	377	0	0	0	52	0	0	0	0	0	0	553	0
126	583	49	0	0	0	6	0	0	0	9	77	81	4	0
127	0	46	0	0	0	852	386	0	25	443	876	0	23	0
128	562	316	0	0	0	317	612	0	231	507	710	0	44	0
129	134	32	0	0	0	33	294	0	152	60	0	0	0	0
130	371	81	0	0	0	388	71	0	51	98	0	0	63	0
131	1184	373	0	0	0	187	5	0	5	110	73	105	2	0
132	231	64	0	0	0	758	175	0	0	139	4	0	121	0
133	611	136	0	0	0	49	0	0	0	44	0	0	4	0
134	613	46	0	0	0	393	233	0	308	107	80	0	76	0
135	177	0	0	0	0	6	363	0	0	31	0	0	0	0
136	152	0	0	0	0	0	0	0	0	0	0	0	0	0
137	55	0	0	0	0	0	0	0	0	0	0	0	0	0
138	273	0	0	0	0	0	0	0	0	0	0	89	0	0
139	102	23	0	0	0	3	0	11	5	2	0	0	0	0
140	386	75	0	0	0	5	0	2	0	0	0	0	0	0
141	142	16	0	0	0	0	4	0	0	0	0	0	0	0
142	97	2	0	0	0	0	3	2	0	0	0	0	0	0
143	1318	102	0	159	0	60	0	7	5	5	0	15	0	0
144	80	19	0	11	0	0	4	41	0	0	0	0	0	0
145	185	37	0	0	0	4	84	13	0	7	0	0	0	0
146	31	3	0	0	0	0	0	2	0	0	0	0	0	0
147	13	7	0	0	0	4	0	1	3	0	0	0	0	0
148	16	4	0	0	0	0	5	0	0	0	0	0	0	0
149	62	6	0	0	0	0	0	0	0	0	0	0	0	0
150	80	15	0	329	0	4	0	0	3	0	0	0	0	0

Zone	SFDU	MFDU	RETIR		SEA/RE	HOTEL	TRAD	IND/MF	AG	TCU	OFFICE	GOVT	SCHOO	HEALT	PARK
	DU LU1	DU LU2	DU LU3	DU LU4		ROOMS LU5	EMP LU6	EMP LU7	SQM*10 LU8	EMP LU9	EMP LU10	EMP LU11	EMP LU12	EMP LU13	AE LU14
151	536	251	224		0	0	31	46	0	48	55	0	0		0
152	749	133	252		0	0	40	17	0	58	69	146	0		0
153	821	0	234		0	0	56	77	0	0	34	0	0		0
154	409	95	144		0	0	0	9	0	0	0	0	0		0
155	596	93	196		0	0	0	15	0	0	7	86	0		0
156	400	232	180		0	0	163	113	0	0	58	0	136	34	0
157	356	80	124		0	0	15	228	0	14	19	0	0	69	0
158	168	197	104		0	0	654	712	0	82	340	386	0	34	0
159	0	98	28		0	0	403	185	0	39	51	0	0	74	0
160	51	269	91		0	0	105	336	0	0	89	0	323	0	0
161	373	56	122		0	0	0	22	0	0	22	0	0	765	0
162	345	60	115		0	0	0	15	0	0	0	0	0	0	0
163	8	155	47		0	0	73	458	0	0	192	0	0	0	0
164	115	0	0		0	0	0	0	0	0	0	0	0	0	0
165	291	37	0		0	0	7	0	0	0	0	0	0	0	0
166	57	5	0		0	0	0	0	0	0	0	0	0	0	0
167	119	3	0		0	0	4	73	0	1	2	0	0	0	0
168	195	32	0		0	0	10	22	0	0	0	0	0	0	0
169	306	44	0		0	0	5	39	0	0	0	0	0	0	0
170	160	3	0		0	0	79	22	0	7	4	0	0	0	0
171	126	15	0		0	0	79	0	0	0	21	0	0	0	0
172	27	7	0		0	0	6	1282	0	25	0	2	0	0	0
173	43	14	0		0	0	113	342	0	25	308	0	0	0	0
174	52	9	0		0	0	50	116	0	0	19	0	0	0	0
175	760	90	439		145	0	80	123	0	6	260	0	0	0	0
TOTALS	39114	11410	3037		671	273	16297	13843	1104	2326	8530	4574	3255	5278	0

Trip Generation Rates Skagit County Model 6/94

Land Use	Single-Family Units DU	Multi-Family DU	Retirement DU	Sea/Rec DU
	LU1	LU2	LU3	LU4
HBWP	0.0540	0.0360	0.015	0.01
HBWA	0.2900	0.2000	0.05	0.078
HBOP	0.2160	0.1440	0.1152	0.072
HBOA	0.2320	0.1600	0.048	0.064
NHBP	0.0300	0.0200	0.016	0.01
NHBA	0.0580	0.0400	0.012	0.016
TOTAL P	0.3000	0.2000	0.1462	0.0920
TOTAL A	0.5800	0.4000	0.1100	0.1580
TOTAL RAT	0.8800	0.6000	0.2562	0.2500
% EXIT	34.1%	33.3%	57.1%	36.8%
% ENTER	65.9%	66.7%	42.9%	63.2%

Land Use	Hotel Units ROOMS	Trade EMP	IND/MFG EMP	Agriculture SQ MILE*100	TCU EMP
	LU5	LU6	LU7	LU8	LU9
HBWP	0.0270	0.3520	0.1980	0.0315	0.1980
HBWA	0.1750	0.0400	0.0090	0.0030	0.0150
HBOP	0.1080	0.2640	0.0660	0.0105	0.0660
HBOA	0.1400	0.3200	0.0240	0.0080	0.0400
NHBP	0.0150	0.2640	0.1760	0.0280	0.1760
NHBA	0.0350	0.4400	0.0270	0.0090	0.0450
TOTAL P	0.1500	0.8800	0.4400	0.0700	0.4400
TOTAL A	0.3500	0.8000	0.0600	0.0200	0.1000
TOTAL RAT	0.5000	1.6800	0.5000	0.0900	0.5400
% EXIT	30.0%	52.4%	88.0%	77.8%	81.5%
% ENTER	70.0%	47.6%	12.0%	22.2%	18.5%

Land Use	OFFICE Units EMP	GOVT EMP	SCHOOL EMP	HEALTH EMP	PARK/REC AU
	LU10	LU11	LU12	LU13	LU14
HBWP	0.2450	0.2205	0.1200	0.2205	0.3000
HBWA	0.0225	0.0200	0.0200	0.0400	0.0500
HBOP	0.0735	0.0980	0.0600	0.0980	0.3500
HBOA	0.0600	0.0350	0.0350	0.0700	0.4000
NHBP	0.1715	0.1715	0.1200	0.1715	0.3500
NHBA	0.0675	0.0450	0.0450	0.0900	0.5500
TOTAL P	0.4900	0.4900	0.3000	0.4900	1.0000
TOTAL A	0.1500	0.1000	0.1000	0.2000	1.0000
TOTAL RAT	0.6400	0.5900	0.4000	0.6900	2.0000
% EXIT	76.6%	83.1%	75.0%	71.0%	50.0%
% ENTER	23.4%	16.9%	25.0%	29.0%	50.0%

Skagit County 1993 Base Year Traffic Model External File

SKAEXT2.WQ1 Transfers to SKAEXT2.TT1
REVISED EXTERNAL FILE 6/94

ZONE TO FROM	176	177	178	179	180	181	182	183	184	185	186	187	IN TOTAL
176	-	74	41	0	0	0	627	0	33	0	0	0	776
177	61	-	20	0	0	0	41	0	2	0	0	0	124
178	28	4	-	0	0	0	3	0	0	0	0	0	35
179	0	0	0	-	0	0	0	0	0	0	0	0	0
180	5	1	0	0	-	0	5	0	0	0	0	0	10
181	0	0	0	0	0	-	0	0	0	0	0	0	0
182	778	51	26	0	0	0	-	0	19	0	0	0	873
183	0	0	0	0	0	0	0	-	0	0	0	0	0
184	7	3	1	0	0	0	7	0	-	0	0	0	18
185	0	0	0	0	0	0	0	0	0	-	0	0	0
186	0	3	1	0	0	0	5	0	0	0	-	0	9
187	0	0	0	0	0	0	0	0	0	0	0	-	0
OUT TOTAL	879	135	89	0	0	0	687	0	54	0	0	0	1844
TOTAL													1844
TOTAL IN													1844

TO	176	177	178	179	180	181	182	183	184	185	186	187	IN %
FROM													
176	-	0.043	0.025	0	0	0	0.38	0	0.02	0	0	0	0.47
177	0.15	-	0.05	0	0	0	0.1	0	0.005	0	0	0	0.305
178	0.57	0.07	-	0	0	0	0.062	0	0	0	0	0	0.702
179	0	0	0	-	0	0	0	0	0	0	0	0	0
180	0.05	0.01	0.005	0	-	0	0.05	0	0	0	0	0	0.115
181	0	0	0	0	0	-	0	0	0	0	0	0	ERR
182	0.61	0.04	0.02	0	0	0	-	0	0.015	0	0	0	0.685
183	0	0	0	0	0	0	0	-	0	0	0	0	0
184	0.05	0.02	0.005	0	0	0	0.05	0	-	0	0	0	0.125
185	0	0	0	0	0	0	0	0	0	-	0	0	0
186	0	0.05	0.025	0	0	0	0.1	0	0	0	-	0	0.175
187	0	0	0	0	0	0	0	0	0	0	0	-	0
OUT %	0.51374	0.31753	0.49667	0	0	0	0.61623	0	0.30943	0	0	0	

SKAGIT COUNTY REGIONAL TRAFFIC MODEL EXTERNAL COUNT TOTALS (X-1, I-X, X-X)

ZONE	176	177	178	179	180	181	182	183	184	185	186	187	
IN	1650	405	50	40	90	-	1275	75	140	60	50	70	TOT IN 3905
OUT	1710	425	180	80	80	-	1115	55	175	40	25	75	TOT OU 3960
X-1	875	281	15	40	80	0	402	75	123	60	41	70	TOT X-1 2061
I-X	832	290	91	80	80	0	428	55	121	40	25	75	TOT I-X 2116

176 I-5 SOUTH
177 DECEPTION PASS
178 ANACORTES FERRY
179 QUEMES FERRY
180 SR11 NORTH
181 LAKE SAMISH RD NORTH
182 I-5 NORTH
183 OLD 99 NORTH
184 SR20 EAST
185 SOUTH SKAGIT HIGHWAY EAST
186 SR9 SOUTH
187 SR9 NORTH

Skagit County 2014 Future Year Traffic Model External File

SKA14EXT.WQ1 Transfers to SKA14EXT.TT1 6/94

TO	176	177	178	179	180	181	182	183	184	185	186	187	IN TOTAL
FROM													
176	-	113	63	0	0	0	950	0	50	0	0	0	1175
177	122	-	41	0	0	0	81	0	4	0	0	0	247
178	48	6	-	0	0	0	5	0	0	0	0	0	60
179	0	0	0	-	0	0	0	0	0	0	0	0	0
180	6	1	1	0	-	0	6	0	0	0	0	0	14
181	0	0	0	0	0	-	0	0	0	0	0	0	0
182	1180	77	39	0	0	0	-	0	29	0	0	0	1325
183	0	0	0	0	0	0	0	-	0	0	0	0	0
184	10	4	1	0	0	0	10	0	-	0	0	0	26
185	0	0	0	0	0	0	0	0	0	-	0	0	0
186	0	3	1	0	0	0	6	0	0	0	-	0	10
187	0	0	0	0	0	0	0	0	0	0	0	-	0
OUT TOTAL	1367	204	145	0	0	0	1058	0	83	0	0	0	2856
TOTAL													2856
TOTAL IN													2856

TO	176	177	178	179	180	181	182	183	184	185	186	187	IN %
FROM													
176	-	0.045	0.023	0	0	0	0.38	0	0.02	0	0	0	0.47
177	0.15	-	0.05	0	0	0	0.1	0	0.005	0	0	0	0.305
178	0.57	0.07	-	0	0	0	0.062	0	0	0	0	0	0.702
179	0	0	0	-	0	0	0	0	0	0	0	0	0
180	0.05	0.01	0.005	0	-	0	0.05	0	0	0	0	0	0.115
181	0	0	0	0	0	-	0	0	0	0	0	0	ERR
182	0.61	0.04	0.02	0	0	0	-	0	0.015	0	0	0	0.685
183	0	0	0	0	0	0	0	-	0	0	0	0	0
184	0.05	0.02	0.005	0	0	0	0.05	0	-	0	0	0	0.125
185	0	0	0	0	0	0	0	0	0	-	0	0	0
186	0	0.05	0.025	0	0	0	0.1	0	0	0	-	0	0.175
187	0	0	0	0	0	0	0	0	0	0	0	-	0
OUT %	0.52763	0.23988	0.47443	0	0	0	0.62605	0	0.32578	0	0	0	

SKAGIT COUNTY REGIONAL TRAFFIC MODEL EXTERNAL COUNT TOTALS (X-I, I-X, X-X)

	176	177	178	179	180	181	182	183	184	185	186	187		
IN	2500	810	85	75	120	-	1935	110	205	90	35	95	TOT IN	6080
OUT	2590	850	305	155	110	-	1690	80	255	60	35	100	TOT OU	6230
X-I	1325	563	25	75	106	0	610	110	179	90	45	95	TOT X-I	3224
I-X	1223	646	160	155	110	0	632	80	172	60	35	100	TOT I-X	3374

2014 FUTURE YEAR EXTERNALS ASSUMPTIONS

	Per Year Inc.	Total Inc.
176 I-5 SOUTH	2%	51.6%
177 DECEPTION PASS	3.4%	100%
178 ANACORTES FERRY	2.5%	68%
179 GUENES FERRY	4.5 runs w/300% inc in walk ons at a 50% vehicle transfer rate	
180 SR11 NORTH	1.5%	34.5%
181 LAKE SAMISH RD NORTH	-	-
182 I-5 NORTH	2.2%	61%
183 OLD 99 NORTH	1.85%	47.5%
184 SR20 EAST	1.85%	47.5%
185 SOUTH SKAGIT HIGHWAY	1.85%	47.5%
186 SR9 SOUTH	1.5%	34.5%
187 SR9 NORTH	1.5%	34.5%

4 FULL FEATURED THMODEL2 DISTRIBUTION & ASSIGNMENT RUN - INTERACTIVE MODE
MODEL2

KAGIT COUNTY PUBLIC WORKS
VERNON, WA

START TIME IS 12:08:36 PM 06-16-1994

Distribution and Assignment file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.DN
Virtual Memory Drive is C:\TEMP\

ode Source file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\FUTRIE.NDE
ode Delay Coefficients Source file is G:\HOME\PW\SHRADMIN\THMODEL2\SKACO\SKA2.ND

ink Source file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\FUTRIE.LNX
ink Delay Coefficients Source file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\SK040.L
ink Storage file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.LLX

rn Penalty file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\FUTRIE.TNP
rn Penalty Type file is G:\HOME\PW\SHRADMIN\THMODEL2\SKACO\SK044.TPT

o you want Turn Movements ? N

avel Time Weight is .9 Travel Distance Weight is .1
ild and Use Vines

ave Incremental Travel Time Matrices ? N

istribution and Assignment
origin and Destination File is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\S2014ANA.OND
se Gravity Model Defaults? N

3 Trip Types, Consisting of Types : 1 2 3
avity Model Exponents (Beta) are : 2.1 2.35 2.3
avity Model Alpha are : -.75 -.75 -.75

avity Model Constant are : 150 100 125
umber of Gravity Model Iterations is 8 with Maximum Deviation of .1

ave Partial Trip Tables? Y
artial Trip Table File is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.T11
ip Table Storage file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.TTB

Trip Table Input File? Y
 Table Input File is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\SKA14EXT.TTI
cremental Loading with 6 Increments

ading Increment 1 = .3
ading Increment 2 = .2
ading Increment 3 = .2
ading Increment 4 = .1
ading Increment 5 = .1
ading Increment 6 = .1

ave Select Link Trip Table Y
elect Link Trip Table file is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.SLT
elect Link Origin Node = 791
elect Link Destination Node = 792
elect Link is for Both Directions

rint Errors? Y
race All Outputs? N
race Partial Outputs? N
rint Destination Balancing Statistics? N
rint Setup Summary? Y
rint File is F:\HOME\PW\SHRADMIN\THMODEL2\SKACO\2014ANA.1

FINISH TIME IS 1:22:01 PM 06-16-1994

Skagit County 1993 Base Model Screenline Analysis

SCLN #	SCLN Name	Predicted Vol. 1	Actual Count	% Dif.	Allowable Limit
1.	Sedro-Woolley East	1101	872	26%	57%
2.	Mount Vernon East	1223	1030	19%	55%
3.	Big Lake	177	110	61%	66%
4.	East I-5 South	7010	5735	22%	31%
5.	Fir Island	3937	4185	-6%	35%
6.	Skagit River West	2171	2295	-5%	44%
7.	Skagit River North/South	8231	6730	22%	29%
8.	SR20 Memorial Highway	3169	2830	12%	41%
9.	Skagit Flats North	1444	950	52%	56%
10.	Bayview Ridge South	1221	1190	3%	53%
11.	Skagit County North	4026	3710	9%	37%
12.	West I-5 North	3859	3655	6%	37%
13.	East I-5 North	5573	5100	9%	32%
14.	Swinomish Slough	3548	2830	25%	41%
TOTAL		46,690	41,222	13%	

1. Files SK059.SCL, SKA16.LLX