

AESO AIES 2011 Recalculated Transmission Bus Loss Factors
2011 Recalculated Non-Binding Loss Factors - Calculated at Non Generation Transmission Buses

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| 1 | The loss factor values listed are determined at non-generation transmission buses and are illustrative only |
| 2 | The loss factors are calculated the same as the binding loss factors but at buses with no generation |
| 3 | The loss factor calculation does not include an assessment for voltage or congestion criteria |
| 4 | For accuracy, a full study for each proposed generator would be required and the loss factor calculated accordingly |
| 5 | Please refer to the AESO facility map for Area definitions |

Area	Bus Number	Bus Name	Bus kV	Type	LF
20 GRANDE P	1104	KSIT RV7	138	1	-3.72%
20 GRANDE P	1124	SADDLE 7	138	1	-3.57%
20 GRANDE P	1119	GOODFAR7	138	1	-3.57%
20 GRANDE P	1114	UPDIKE1	138	1	-3.56%
20 GRANDE P	10118	790S701T	138	1	-3.41%
20 GRANDE P	1123	SADHL TP	138	1	-3.32%
20 GRANDE P	1134	ELMWORT7	138	1	-3.09%
20 GRANDE P	10100	730S701T	138	1	-3.01%
20 GRANDE P	1100	RYCROFT7	138	1	-2.85%
27 ATHABASC	392	ALPAC1	138	1	-2.81%
20 GRANDE P	10135	823S701T	138	1	-2.31%
20 GRANDE P	1117	CLAIR L	138	1	-2.20%
20 GRANDE P	1109	MERCER 7	138	1	-2.19%
20 GRANDE P	1135	WAPITI 7	138	1	-2.16%
20 GRANDE P	1110	MERC TAP	138	1	-2.12%
20 GRANDE P	1132	WAP JCT7	138	1	-2.04%
19 PEACE RI	10102	829S701T	138	1	-2.02%
19 PEACE RI	1102	BOUCH C7	138	1	-2.01%
20 GRANDE P	10160	862S701T	138	1	-1.91%
20 GRANDE P	11121	722S702T	138	1	-1.90%
20 GRANDE P	10121	722S701T	138	1	-1.87%
20 GRANDE P	1121	CRYST L7	138	1	-1.80%
19 PEACE RI	10105	800S701T	138	1	-1.72%
20 GRANDE P	1160	BEZANSON	138	1	-1.65%
19 PEACE RI	1105	FRIEDEN7	138	1	-1.63%
20 GRANDE P	10126	749S701T	138	1	-1.39%
20 GRANDE P	1126	FLYINGS7	138	1	-1.33%
27 ATHABASC	637	ALPACTAP	138	1	-1.21%
46 HIGH RIV	238	BLACK D7	138	1	-1.13%
46 HIGH RIV	243	HARTELL7	138	1	-1.07%
46 HIGH RIV	960	HART TAP	138	1	-1.07%
20 GRANDE P	825	CGETAP	138	1	-1.06%
19 PEACE RI	10053	853S701T	138	1	-0.98%
19 PEACE RI	1053	RING CK7	138	1	-0.93%
20 GRANDE P	1139	ALBRIGHT	138	1	-0.83%
20 GRANDE P	1140	P&G 7	138	1	-0.82%
20 GRANDE P	1137	AWTAP	138	1	-0.82%
20 GRANDE P	1138	BCTAP	138	1	-0.82%
20 GRANDE P	1142	BEARCK1	138	1	-0.81%
46 HIGH RIV	242	HIGH RI7	138	1	-0.81%
20 GRANDE P	1143	BIG MTN7	138	1	-0.77%
44 SEEBE	64	BANFF 7	138	1	-0.74%
19 PEACE RI	10052	855S701T	138	1	-0.72%
46 HIGH RIV	240	MAGCAN 7	138	1	-0.71%
46 HIGH RIV	886	MAG TAP7	138	1	-0.71%
19 PEACE RI	249	878S	138	1	-0.69%
19 PEACE RI	1052	HAMBURG7	138	1	-0.68%
44 SEEBE	923	W.CASC T	138	1	-0.66%
27 ATHABASC	308	FLATLK-2	138	1	-0.62%
46 HIGH RIV	239	OKOTOKS7	138	1	-0.62%
18 HIGH LEV	10022	832S701T	138	1	-0.61%
19 PEACE RI	10060	812S701T	138	1	-0.55%
27 ATHABASC	307	FLATLTAP	138	1	-0.54%
13 LLOYDMIN	11393	751S702T	138	1	-0.54%
27 ATHABASC	417	WAUP1	138	1	-0.52%
18 HIGH LEV	1022	BLUMNOR7	138	1	-0.51%
19 PEACE RI	1070	CRANBER7	138	1	-0.50%
44 SEEBE	283	CANMORE7	138	1	-0.47%
38 CAROLINE	257	LIMESTO7	138	1	-0.47%
44 SEEBE	285	BAYMAG	138	1	-0.45%
44 SEEBE	965	54L JNC	138	1	-0.45%
44 SEEBE	169	CAN CEM7	138	1	-0.44%
44 SEEBE	950	742L JCT	138	1	-0.44%
39 DIDSBURY	122	MADDEN 7	138	1	-0.42%
44 SEEBE	170	COCHRAN7	138	1	-0.42%
19 PEACE RI	11285	796S702T	138	1	-0.41%

Area	Bus Number	Bus Name	Bus kV	Type	LF	
44	SEEBE	195	RUNDLE S	138	1	-0.39%
19	PEACE RI	10285	796S701T	138	1	-0.38%
19	PEACE RI	1060	NORCEN 7	138	1	-0.37%
19	PEACE RI	1065	LUBICON7	138	1	-0.35%
18	HIGH LEV	11020	786S702T	138	1	-0.34%
13	LLOYDMIN	10393	751S701T	138	1	-0.34%
19	PEACE RI	1285	NIPISI 7	138	1	-0.32%
44	SEEBE	211	MOUNT A7	138	1	-0.29%
27	ATHABASC	7	BOYLE 7	138	1	-0.27%
18	HIGH LEV	10020	786S701T	138	1	-0.26%
39	DIDSBURY	982	MADDEN T	138	1	-0.26%
13	LLOYDMIN	1393	HILL 7	138	1	-0.26%
13	LLOYDMIN	1455	LLOYD 7	138	1	-0.23%
39	DIDSBURY	124	HARMATT7	138	1	-0.22%
19	PEACE RI	10075	SEAL LK6	138	1	-0.17%
39	DIDSBURY	126	SHELL H7	138	1	-0.17%
44	SEEBE	199	SHELL J7	138	1	-0.16%
39	DIDSBURY	957	166L JNC	138	1	-0.15%
44	SEEBE	201	JUMPPND7	138	1	-0.14%
44	SEEBE	925	JUMP TP2	138	1	-0.14%
44	SEEBE	900	JUMP TP1	138	1	-0.13%
19	PEACE RI	1075	SEAL LK7	138	1	-0.12%
38	CAROLINE	386	SHELL EA	138	1	-0.11%
19	PEACE RI	10055	783S701T	138	1	-0.09%
38	CAROLINE	107	SUNDRE 7	138	1	-0.08%
38	CAROLINE	883	EAGLE TP	138	1	-0.08%
19	PEACE RI	10085	793S701T	138	1	-0.07%
18	HIGH LEV	1020	HIGH LV7	138	1	-0.07%
39	DIDSBURY	123	DIDSBURY	138	1	-0.05%
19	PEACE RI	1055	CADOTTE7	138	1	-0.05%
18	HIGH LEV	1039	MELITO7	138	1	0.00%
18	HIGH LEV	1038	OSB-TAP7	138	1	0.00%
20	GRANDE P	1145	BRDGE C7	138	1	0.00%
27	ATHABASC	21	WESGEN 7	138	1	0.00%
19	PEACE RI	1085	PEACE RV	138	1	0.03%
19	PEACE RI	1150	DONNELL7	138	1	0.05%
6	CALGARY	6571	43.2TR	138	1	0.06%
44	SEEBE	444	SPRINGB7	138	1	0.07%
38	CAROLINE	205	AMOCO R7	138	1	0.08%
6	CALGARY	5571	43.1TR	138	1	0.09%
23	VALLEYVI	1153	TRIANGL7	138	1	0.13%
6	CALGARY	6550	22.3TR	138	1	0.14%
44	SEEBE	184	BEARSPAW	138	1	0.17%
6	CALGARY	5550	22.1TR	138	1	0.17%
6	CALGARY	592	ENMX41S7	138	1	0.18%
6	CALGARY	555	ENMX14S7	138	1	0.18%
6	CALGARY	594	ENMX33S7	138	1	0.18%
6	CALGARY	591	ENMX40S7	138	1	0.19%
52	VAUXHALL	277	WESTFLD7	138	1	0.19%
6	CALGARY	564	ENMX36S7	138	1	0.20%
6	CALGARY	571	ENMX43S7	138	1	0.21%
13	LLOYDMIN	1314	BRIKER1	138	1	0.24%
6	CALGARY	587	ENMX6S7	138	1	0.25%
6	CALGARY	583	ENMX32S7	138	1	0.25%
6	CALGARY	566	ENMX20S7	138	1	0.26%
23	VALLEYVI	1151	TAP7L487	138	1	0.26%
6	CALGARY	588	ENMX8S 7	138	1	0.26%
6	CALGARY	567	ENMX1S 7	138	1	0.27%
6	CALGARY	569	ENMX3S 7	138	1	0.27%
6	CALGARY	568	ENMX5S 7	138	1	0.28%
6	CALGARY	596	ENMX7S7	138	1	0.28%
19	PEACE RI	10050	788S701T	138	1	0.29%
13	LLOYDMIN	862	PV-TAP7	138	1	0.30%
6	CALGARY	589	ENMX26S7	138	1	0.31%
23	VALLEYVI	10165	734S701T	138	1	0.31%
6	CALGARY	586	ENMX30S7	138	1	0.31%
39	DIDSBURY	121	OLDS 7	138	1	0.32%
6	CALGARY	585	ENMX9S 7	138	1	0.32%
6	CALGARY	559	ENMX13S7	138	1	0.32%
6	CALGARY	601	2.83 TAP	138	1	0.33%
6	CALGARY	552	ENMX21S7	138	1	0.33%
27	ATHABASC	304	PLAMOND7	138	1	0.33%
38	CAROLINE	382	SHELL RA	138	1	0.34%
38	CAROLINE	370	SHELL C7	138	1	0.34%
6	CALGARY	581	ENMX12S7	138	1	0.34%

Area	Bus Number	Bus Name	Bus kV	Type	LF
6 CALGARY	579	ENMX31S7	138	1	0.35%
38 CAROLINE	881	RAVEN TP	138	1	0.36%
17 RAINBOW	1054	ARCENC1	138	1	0.37%
52 VAUXHALL	269	BURDETT7	138	1	0.37%
6 CALGARY	208	ENMX2S 7	138	1	0.37%
6 CALGARY	550	ENMX22S7	138	1	0.39%
6 CALGARY	561	ENMX11S7	138	1	0.39%
27 ATHABASC	3	COLINTO7	138	1	0.40%
6 CALGARY	548	ENMX10S7	138	1	0.40%
13 LLOYDMIN	10383	710S701T	138	1	0.41%
13 LLOYDMIN	1377	IRISH C7	138	1	0.44%
38 CAROLINE	890	AMOCO TP	138	1	0.45%
6 CALGARY	551	ENMX28S7	138	1	0.47%
6 CALGARY	5161	SARCEE M	138	1	0.47%
6 CALGARY	202	SARCEE 7	138	1	0.47%
6 CALGARY	577	ENMX23S7	138	1	0.47%
6 CALGARY	590	ENMX24S7	138	1	0.48%
19 PEACE RI	1050	HOTCHKS7	138	1	0.48%
52 VAUXHALL	272	TABER 7	138	1	0.49%
32 WAINWRIG	1382	BUFALOTP	138	1	0.49%
13 LLOYDMIN	1383	VERMILO7	138	1	0.49%
19 PEACE RI	1090	MEIKLE1	138	1	0.50%
52 VAUXHALL	291	CONRAD 7	138	1	0.51%
52 VAUXHALL	31	FINCAST7	138	1	0.52%
49 STAVELY	244	VULCAN 7	138	1	0.56%
17 RAINBOW	10044	797S701T	138	1	0.56%
6 CALGARY	572	ENMX39S7	138	1	0.57%
17 RAINBOW	1044	KEMP RV7	138	1	0.59%
6 CALGARY	573	ENMX38S7	138	1	0.61%
49 STAVELY	235	STAVELY7	138	1	0.62%
45 STRATHMO	253	BLACKIE7	138	1	0.64%
38 CAROLINE	385	SHELL SC	138	1	0.64%
38 CAROLINE	882	SCHRA TP	138	1	0.64%
17 RAINBOW	1036	KEG RVR7	138	1	0.66%
6 CALGARY	574	ENMX37S7	138	1	0.69%
23 VALLEYVI	10155	794S701T	138	1	0.71%
50 BACKBONE	161	SARCEE 4	240	1	0.71%
52 VAUXHALL	828	PURSPRW4	138	1	0.74%
49 STAVELY	279	STAVELEY	138	1	0.75%
6 CALGARY	207	JANET 7	138	1	0.76%
50 BACKBONE	162	E CALGAR	240	1	0.78%
23 VALLEYVI	1155	VALLEYV7	138	1	0.80%
19 PEACE RI	1083	CARMON 7	138	1	0.81%
37 PROVOST	220	HAYTER 7	138	1	0.83%
19 PEACE RI	1284	NARROWS	138	1	0.83%
26 SWAN HIL	10243	739S701T	138	1	0.88%
57 AIRDRIE	177	AIRDRIE	138	1	0.88%
57 AIRDRIE	295	DRYCREEK	138	1	0.89%
52 VAUXHALL	274	VAUXHAL7	138	1	0.91%
6 CALGARY	576	ENMX47S7	138	1	0.97%
6 CALGARY	127	BEDDING2	138	1	0.97%
42 HANNA	10474	767S701T	138	1	0.98%
52 VAUXHALL	401	HAYS 7	138	1	0.98%
6 CALGARY	198	BALZAC 7	138	1	0.98%
55 GLENWOOD	293	STIRLIN7	138	1	0.99%
19 PEACE RI	10080	834S901T	240	1	1.00%
19 PEACE RI	11080	834S902T	240	1	1.00%
4 MEDICINE	284	BUTTE7	138	1	1.00%
19 PEACE RI	1082	WESLY C7	138	1	1.01%
23 VALLEYVI	1165	STURGEO7	138	1	1.01%
54 LETHBRID	834	CHIN_CHT	138	1	1.02%
4 MEDICINE	839	600AL TA	138	1	1.02%
6 CALGARY	5290	BALZ T1	138	1	1.02%
45 STRATHMO	259	STRATHM7	138	1	1.03%
23 VALLEYVI	1164	L.SMOKY7	138	1	1.03%
4 MEDICINE	270	SUFFIEL7	138	1	1.04%
23 VALLEYVI	10163	813S901T	240	1	1.04%
23 VALLEYVI	11163	813S902T	240	1	1.04%
50 BACKBONE	160	JANET 4	240	1	1.07%
28 COLD LAK	10444	969ST1	138	1	1.07%
28 COLD LAK	1444	LINDBER7	138	1	1.08%
19 PEACE RI	1080	WESLY C4	240	1	1.09%
26 SWAN HIL	1243	EDITH L7	138	1	1.09%
28 COLD LAK	795	LINDB_TP	138	1	1.11%
54 LETHBRID	869	CHIN CH	138	1	1.11%

Area	Bus Number	Bus Name	Bus kV	Type	LF
4 MEDICINE	271	BULLS H7	138	1	1.12%
32 WAINWRIG	79	BUFFALO7	138	1	1.16%
23 VALLEYVI	1180	GOOSE R7	138	1	1.16%
45 STRATHMO	333	QUENSTWN	138	1	1.17%
45 STRATHMO	252	CARSELA7	138	1	1.17%
54 LETHBRID	690	COALDAL7	138	1	1.20%
17 RAINBOW	10034	779S701T	138	1	1.21%
45 STRATHMO	254	GLEICHE7	138	1	1.22%
17 RAINBOW	1034	CHINCHA7	138	1	1.22%
52 VAUXHALL	286	ENCHANT7	138	1	1.23%
50 BACKBONE	5158	102ST1	240	1	1.25%
23 VALLEYVI	1163	L. SMOKY	240	1	1.25%
50 BACKBONE	159	LANGDON4	240	1	1.25%
50 BACKBONE	5159	102ST4	240	1	1.26%
22 GRANDE C	10144	810S701T	138	1	1.28%
22 GRANDE C	11144	810S702T	138	1	1.28%
45 STRATHMO	315	HUSSAR	138	1	1.28%
57 AIRDRIE	810	AMOCOTAP	138	1	1.30%
38 CAROLINE	104	STRACHA7	138	1	1.34%
57 AIRDRIE	425	NOSE CR7	138	1	1.37%
37 PROVOST	219	KILLARN7	138	1	1.38%
57 AIRDRIE	729	SUMMITTP	138	1	1.38%
26 SWAN HIL	10272	824S701T	138	1	1.40%
38 CAROLINE	100	ROCKY M7	138	1	1.42%
37 PROVOST	362	EDGERTO7	138	1	1.43%
22 GRANDE C	1144	DOME CU7	138	1	1.43%
53 FORT MAC	237	FORT MA7	138	1	1.44%
57 AIRDRIE	318	W CROSSF	138	1	1.45%
53 FORT MAC	647	170ALPS	138	1	1.45%
52 VAUXHALL	928	ENCH TAP	138	1	1.46%
45 STRATHMO	340	NAMAKA 7	138	1	1.47%
57 AIRDRIE	933	AIRD TAP	138	1	1.47%
26 SWAN HIL	1275	VIRGINI7	138	1	1.49%
24 FOX CREE	1175	FOX CRK7	138	1	1.49%
54 LETHBRID	400	MONARCH7	138	1	1.49%
54 LETHBRID	698	LETH674S	138	1	1.50%
54 LETHBRID	679	LETH111S	138	1	1.50%
29 HINTON/E	605	WATSON C	138	1	1.50%
54 LETHBRID	939	RVBD TAP	138	1	1.52%
29 HINTON/E	17	COLD CR7	138	1	1.53%
54 LETHBRID	697	LETH593S	138	1	1.53%
17 RAINBOW	213	HAIGRIVE	138	1	1.54%
45 STRATHMO	5247	CAV T101	138	1	1.54%
56 VEGREVIL	1357	VILNA 7	138	1	1.54%
42 HANNA	716	LAKESEN7	138	1	1.54%
54 LETHBRID	699	RIVERBN7	138	1	1.54%
54 LETHBRID	916	MONAR TP	138	1	1.55%
56 VEGREVIL	1350	WHITBY 7	138	1	1.58%
50 BACKBONE	156	E CROSS4	240	1	1.58%
50 BACKBONE	988	CROSSF T	240	1	1.58%
54 LETHBRID	696	LETH146S	138	1	1.58%
54 LETHBRID	691	LETH241S	138	1	1.59%
26 SWAN HIL	10266	743S701T	138	1	1.59%
56 VEGREVIL	10367	709S701T	138	1	1.59%
54 LETHBRID	692	N LETHB7	138	1	1.62%
42 HANNA	1477	RIBSTON1	138	1	1.63%
30 DRAYTON	651	ELKRIVE7	138	1	1.66%
27 ATHABASC	305	LAC LA 7	138	1	1.67%
30 DRAYTON	42	AMOCO BR	138	1	1.67%
56 VEGREVIL	1367	VEGREVL7	138	1	1.67%
42 HANNA	1474	OYEN 7	138	1	1.68%
30 DRAYTON	813	ELKRIVTP	138	1	1.68%
42 HANNA	1459	EXCEL7	138	1	1.68%
42 HANNA	857	KSP4	138	1	1.69%
30 DRAYTON	51	W PEMBI7	138	1	1.70%
26 SWAN HIL	1272	FIELDGA7	138	1	1.71%
57 AIRDRIE	312	E CROSS7	138	1	1.73%
54 LETHBRID	167	N LETHB4	240	1	1.73%
22 GRANDE C	1170	SIMONET7	138	1	1.74%
47 BROOKS	275	TILLEY 7	138	1	1.74%
42 HANNA	1470	VETERAN7	138	1	1.75%
26 SWAN HIL	1266	SARAH L7	138	1	1.76%
39 DIDSBUY	120	INNISFA7	138	1	1.77%
55 GLENWOOD	233	DRYWOOD7	138	1	1.77%
26 SWAN HIL	10270	785S701T	138	1	1.78%

Area	Bus Number	Bus Name	Bus kV	Type	LF
26 SWAN HIL	1270	ESSO JU7	138	1	1.78%
26 SWAN HIL	1271	MORSE RV	138	1	1.79%
17 RAINBOW	1018	BASSET 7	138	1	1.80%
4 MEDICINE	320	CHAPPIC7	138	1	1.80%
28 COLD LAK	11344	700S702T	138	1	1.82%
29 HINTON/E	820	FICKL TP	138	1	1.82%
29 HINTON/E	15	MTN COA7	138	1	1.87%
53 FORT MAC	229	170AL-TA	138	1	1.88%
30 DRAYTON	330	P C BRA7	138	1	1.88%
24 FOX CREE	12	FOX CREE	138	1	1.88%
29 HINTON/E	141	DALEHUR7	138	1	1.89%
29 HINTON/E	909	DALEH TP	138	1	1.89%
29 HINTON/E	910	OBED TAP	138	1	1.89%
32 WAINWRIG	297	WAINWRI7	138	1	1.89%
55 GLENWOOD	794	MAGRATH9	138	1	1.89%
55 GLENWOOD	694	MAGRATH7	138	1	1.89%
26 SWAN HIL	10260	809S901T	240	1	1.90%
26 SWAN HIL	11260	809S902T	240	1	1.90%
53 FORT MAC	831	MCBRIDET	138	1	1.91%
53 FORT MAC	823	725BL	138	1	1.91%
26 SWAN HIL	1261	LOU CR.7	138	1	1.91%
35 RED DEER	114	LACOMBE7	138	1	1.93%
31 WETASKIW	192	NELSON L	138	1	1.94%
53 FORT MAC	751	FIDLER01	240	1	1.95%
53 FORT MAC	165	PEIGAN 4	240	1	1.96%
28 COLD LAK	1344	BONNY 7	138	1	1.96%
48 EMPRESS	1454	BINDLOS7	138	1	1.96%
35 RED DEER	98	RIMBEY 7	138	1	1.97%
53 FORT MAC	224	PINCHER7	138	1	1.99%
53 FORT MAC	296	GOOSEL7	138	1	2.00%
53 FORT MAC	752	FIDLER02	138	1	2.00%
35 RED DEER	116	W LACOMB	138	1	2.01%
17 RAINBOW	10026	795S701T	138	1	2.02%
48 EMPRESS	1453	KSP_TAP	138	1	2.02%
53 FORT MAC	346	GOOSEL4	240	1	2.02%
17 RAINBOW	11026	795S702T	138	1	2.02%
47 BROOKS	399	BASSAN7	138	1	2.04%
26 SWAN HIL	1260	LOU CR.4	240	1	2.05%
35 RED DEER	384	UC PRENT	138	1	2.06%
35 RED DEER	388	ELLIS 7	138	1	2.06%
30 DRAYTON	39	CYNTHIA7	138	1	2.07%
35 RED DEER	113	BLACKFA7	138	1	2.08%
30 DRAYTON	215	TEX.W.P7	138	1	2.09%
17 RAINBOW	1026	ZAMA LK7	138	1	2.10%
31 WETASKIW	95	PONOKA 7	138	1	2.10%
30 DRAYTON	815	TWP TAP7	138	1	2.11%
21 HIGH PRA	11230	844S702T	138	1	2.12%
21 HIGH PRA	10230	844S701T	138	1	2.12%
53 FORT MAC	409	KETTLES	138	1	2.15%
48 EMPRESS	263	EMP LIQ7	138	1	2.16%
30 DRAYTON	38	BRAZ OUT	138	1	2.16%
42 HANNA	856	KSP3	138	1	2.16%
21 HIGH PRA	1230	AEC MILL	138	1	2.18%
47 BROOKS	943	MILO 1	240	1	2.18%
26 SWAN HIL	85	MILLAR 7	138	1	2.19%
35 RED DEER	387	COMINCO7	138	1	2.19%
17 RAINBOW	10023	828S701T	138	1	2.20%
48 EMPRESS	911	EMPLIQTP	138	1	2.20%
27 ATHABASC	5	CLYDE 7	138	1	2.21%
53 FORT MAC	166	PEIGAN 7	138	1	2.22%
42 HANNA	1458	LOYALIS7	138	1	2.22%
35 RED DEER	975	COMINTAP	138	1	2.22%
37 PROVOST	814	KILRY TP	138	1	2.23%
21 HIGH PRA	841	OTAU_TP	138	1	2.24%
17 RAINBOW	1023	SULPH PT	138	1	2.25%
21 HIGH PRA	1229	MITSE.7	138	1	2.26%
35 RED DEER	398	BROOKFLD	138	1	2.26%
21 HIGH PRA	1234	OTAUWU7	138	1	2.26%
42 HANNA	1471	MONITOR7	138	1	2.27%
42 HANNA	10471	774S701T	138	1	2.27%
47 BROOKS	877	BASNTAP	138	1	2.28%
35 RED DEER	664	PIPER CR	138	1	2.28%
51 NORTHBAC	1228	MITSE.4	240	1	2.29%
21 HIGH PRA	11228	732S902T	240	1	2.29%
21 HIGH PRA	10228	732S901T	240	1	2.30%

Area	Bus Number	Bus Name	Bus kV	Type	LF
53 FORT MAC	837	SODGLTAP	138	1	2.32%
21 HIGH PRA	11234	729S702T	138	1	2.32%
48 EMPRESS	5053	204ST1	138	1	2.33%
26 SWAN HIL	9	WHITECO7	138	1	2.33%
48 EMPRESS	53	SANDYPT7	138	1	2.33%
48 EMPRESS	266	EMPRESA7	138	1	2.33%
48 EMPRESS	111	SANDHIL7	138	1	2.33%
48 EMPRESS	267	DOVE EM7	138	1	2.33%
53 FORT MAC	334	SUMMER04	138	1	2.34%
35 RED DEER	119	N RED D7	138	1	2.34%
35 RED DEER	802	787LSKP2	138	1	2.34%
24 FOX CREE	411	CHEV KG7	138	1	2.35%
24 FOX CREE	82	CHEVRON7	138	1	2.35%
24 FOX CREE	924	CH KGT T	138	1	2.35%
53 FORT MAC	748	608AL_TP	138	1	2.36%
24 FOX CREE	13	KAYBOB 7	138	1	2.36%
24 FOX CREE	962	KAYBOBTP	138	1	2.36%
24 FOX CREE	412	BENBOW 7	138	1	2.36%
32 WAINWRIG	892	WAIN TP7	138	1	2.36%
47 BROOKS	250	DUCHESS7	138	1	2.36%
35 RED DEER	97	ECKVILL7	138	1	2.37%
35 RED DEER	115	S RED DE	138	1	2.39%
26 SWAN HIL	52	BLUERIDG	138	1	2.40%
17 RAINBOW	10028	791S701T	138	1	2.42%
35 RED DEER	956	758L JCT	138	1	2.43%
29 HINTON/E	368	CHEVIOT1	138	1	2.43%
29 HINTON/E	915	CHEV TP	138	1	2.43%
35 RED DEER	801	787LSKP1	138	1	2.45%
35 RED DEER	148	GAETZ 7	138	1	2.45%
26 SWAN HIL	8	WHI 3647	138	1	2.46%
48 EMPRESS	5262	163ST2	240	1	2.47%
48 EMPRESS	6262	163ST1	240	1	2.48%
30 DRAYTON	36	BRAZEAU7	138	1	2.48%
30 DRAYTON	35	LODGEPO7	138	1	2.48%
47 BROOKS	445	CUTNG L7	138	1	2.48%
47 BROOKS	826	831A TAP	138	1	2.48%
60 EDMONTON	311	LEDUC1	138	1	2.49%
29 HINTON/E	326	COAL VA7	138	1	2.49%
26 SWAN HIL	298	ALB NEWS	240	1	2.50%
32 WAINWRIG	72	JARROW 7	138	1	2.50%
32 WAINWRIG	1490	JARROW TP	138	1	2.51%
35 RED DEER	117	RED DE A	138	1	2.51%
35 RED DEER	118	RED DE B	138	1	2.51%
29 HINTON/E	397	PINEDAL7	138	1	2.52%
17 RAINBOW	11028	791S702T	138	1	2.53%
48 EMPRESS	677	CYPRES2	240	1	2.53%
48 EMPRESS	674	CYPRES1	138	1	2.53%
35 RED DEER	780	SYLV_138	138	1	2.53%
29 HINTON/E	395	NITON 7	138	1	2.57%
27 ATHABASC	4	WESTLOC7	138	1	2.58%
60 EDMONTON	96	DEVON 7	138	1	2.60%
31 WETASKIW	365	BUFORD 7	138	1	2.62%
50 BACKBONE	152	RED DEE4	240	1	2.62%
27 ATHABASC	934	FLAT TAP	138	1	2.63%
53 FORT MAC	5339	SUMV11	138	1	2.63%
50 BACKBONE	147	GAETZ 4	240	1	2.63%
40 LAKE WAB	44	FT ASBN7	138	1	2.64%
40 LAKE WAB	844	ASBNE TP	138	1	2.64%
17 RAINBOW	12028	791S703T	138	1	2.64%
17 RAINBOW	1028	RBW LAK7	138	1	2.65%
17 RAINBOW	83	RBCUPIL7	138	1	2.65%
29 HINTON/E	324	COALSPU7	138	1	2.65%
29 HINTON/E	912	740L JNC	138	1	2.65%
26 SWAN HIL	164	SAGITAW7	138	1	2.66%
47 BROOKS	256	BROOKS 7	138	1	2.67%
32 WAINWRIG	373	IPL HAR7	138	1	2.67%
32 WAINWRIG	484	CLIPPER7	138	1	2.67%
32 WAINWRIG	715	CLIPP_TP	138	1	2.67%
60 EDMONTON	218	BLACKMUD	138	1	2.67%
32 WAINWRIG	73	HARDIST7	138	1	2.68%
32 WAINWRIG	483	TUCUMAN7	138	1	2.68%
35 RED DEER	99	BENALTO7	138	1	2.69%
32 WAINWRIG	37	HRT EXP7	138	1	2.69%
37 PROVOST	809	EXPRESTP	138	1	2.69%
31 WETASKIW	70	CAMROSE7	138	1	2.70%

Area	Bus Number	Bus Name	Bus kV	Type	LF
60 EDMONTON	359	ACHESON	138	1	2.70%
31 WETASKIW	94	ERVICK 7	138	1	2.70%
40 LAKE WAB	360	STONY P7	138	1	2.71%
48 EMPRESS	344	WARLOW7	138	1	2.71%
27 ATHABASC	16	FLATBUS7	138	1	2.71%
29 HINTON/E	18	GULF RO7	138	1	2.73%
26 SWAN HIL	163	SAGITAW4	240	1	2.73%
25 FORT MCM	1226	WABASCA4	240	1	2.74%
50 BACKBONE	150	WILLES4	240	1	2.76%
50 BACKBONE	995	W.GRN TP	240	1	2.76%
40 LAKE WAB	2	MAYER7	138	1	2.76%
48 EMPRESS	292	JENNER7	138	1	2.77%
29 HINTON/E	913	G.ROBB T	138	1	2.77%
22 GRANDE C	1149	KAKWA1	138	1	2.79%
56 VEGREVIL	68	N HOLDE7	138	1	2.79%
60 EDMONTON	91	NISKU 7	138	1	2.80%
31 WETASKIW	142	KINGMAN7	138	1	2.80%
31 WETASKIW	946	KING TAP	138	1	2.82%
42 HANNA	10448	802S701T	138	1	2.83%
47 BROOKS	276	W BROOK7	138	1	2.85%
22 GRANDE C	11147	740S703T	138	1	2.86%
29 HINTON/E	20	EDSON 7	138	1	2.86%
27 ATHABASC	19	WESGEN T	138	1	2.89%
42 HANNA	1448	MICH. C7	138	1	2.90%
40 LAKE WAB	779	PADDLE R	138	1	2.90%
40 LAKE WAB	888	106S TAP	138	1	2.90%
31 WETASKIW	65	BARDO 7	138	1	2.91%
31 WETASKIW	356	BON GLE7	138	1	2.93%
40 LAKE WAB	723	BILBY 1	138	1	2.93%
40 LAKE WAB	905	105S TAP	138	1	2.93%
48 EMPRESS	6260	JENNER 9	240	1	2.95%
48 EMPRESS	5260	JENNERE9	240	1	2.95%
28 COLD LAK	1332	GRND CTR	138	1	2.95%
25 FORT MCM	1280	BRINT02	240	1	2.96%
60 EDMONTON	363	NW CARD7	138	1	2.98%
50 BACKBONE	155	BENALTO4	240	1	2.99%
53 FORT MAC	5340	SUM12	138	1	2.99%
31 WETASKIW	105	PIGEON 7	138	1	3.00%
48 EMPRESS	260	JENNER 4	240	1	3.01%
37 PROVOST	75	HUGHEND7	138	1	3.02%
22 GRANDE C	10147	740S702T	138	1	3.02%
28 COLD LAK	1315	LACOREY7	138	1	3.04%
17 RAINBOW	1511	FNC-1	138	1	3.04%
17 RAINBOW	20000	BC BORDE	138	1	3.07%
31 WETASKIW	440	TRUE WEL	138	1	3.10%
31 WETASKIW	899	TRUE W T	138	1	3.10%
31 WETASKIW	93	WETASKI7	138	1	3.13%
17 RAINBOW	1509	FNC_TAP	138	1	3.13%
29 HINTON/E	415	MARLBOR1	138	1	3.20%
25 FORT MCM	10239	883STRMP	138	1	3.23%
29 HINTON/E	830	MARLB7AP	138	1	3.23%
40 LAKE WAB	364	CARVEL01	138	1	3.23%
60 EDMONTON	101	COOKING7	138	1	3.25%
30 DRAYTON	331	VIOL GR7	138	1	3.28%
43 SHEERNES	10460	804S701T	138	1	3.32%
25 FORT MCM	1239	GREGOIRE	138	1	3.34%
40 LAKE WAB	26	ENTWIST7	138	1	3.35%
37 PROVOST	86	PROVOST7	138	1	3.35%
31 WETASKIW	803	803/804N	138	1	3.37%
60 EDMONTON	357	STALBE7	138	1	3.38%
25 FORT MCM	144	ALGAR 7	138	1	3.38%
25 FORT MCM	1238	7LA36TAP	138	1	3.40%
25 FORT MCM	1293	ALGAR-17	138	1	3.43%
40 LAKE WAB	41	N BARRH7	138	1	3.43%
42 HANNA	10433	770S701T	138	1	3.44%
42 HANNA	1433	3 HILLS7	138	1	3.45%
30 DRAYTON	812	BUCK TAP	138	1	3.49%
25 FORT MCM	1224	HANGSTO7	138	1	3.50%
29 HINTON/E	88	BICKERD7	138	1	3.52%
31 WETASKIW	804	803/804X	138	1	3.53%
31 WETASKIW	374	BIGSTON7	138	1	3.53%
25 FORT MCM	1294	MARIA-17	138	1	3.54%
43 SHEERNES	1460	WINT HI7	138	1	3.54%
43 SHEERNES	10463	803S701T	138	1	3.55%
51 NORTHBAC	138	N BARRH4	240	1	3.56%

Area	Bus Number	Bus Name	Bus kV	Type	LF
60 EDMONTON	366	VISCOUNT	138	1	3.56%
25 FORT MCM	1290	HORSERV7	138	1	3.57%
47 BROOKS	225	WARE JCT	240	1	3.62%
33 FORT SAS	59	REDWATE7	138	1	3.65%
29 HINTON/E	90	BICKERD4	240	1	3.65%
25 FORT MCM	179	MARIANA7	138	1	3.70%
42 HANNA	10423	766S701T	138	1	3.70%
37 PROVOST	112	SUNKEN7	138	1	3.70%
37 PROVOST	989	703ALTAP	138	1	3.70%
37 PROVOST	74	METIS647	138	1	3.71%
37 PROVOST	648	HANSMAN9	138	1	3.72%
60 EDMONTON	549	INLANDCT	138	1	3.73%
28 COLD LAK	10320	717S703T	138	1	3.74%
60 EDMONTON	209	BRETONA1	138	1	3.77%
31 WETASKIW	81	BIGSTON4	240	1	3.78%
60 EDMONTON	898	GENSTR T	138	1	3.79%
60 EDMONTON	40	N CALDE7	138	1	3.79%
40 LAKE WAB	437	TMPL2GA7	138	1	3.82%
40 LAKE WAB	947	GAINTAP2	138	1	3.82%
28 COLD LAK	1320	ETHEL L7	138	1	3.84%
43 SHEERNES	1463	BULLPON7	138	1	3.87%
33 FORT SAS	60	BEAMER 7	138	1	3.88%
32 WAINWRIG	78	SEDEWIT	138	1	3.92%
42 HANNA	602	GHOSTPI3	138	1	3.92%
42 HANNA	10422	766S901T	240	1	3.92%
42 HANNA	1423	NEVIS 7	138	1	3.93%
27 ATHABASC	306	WINEFRE7	138	1	3.93%
60 EDMONTON	69	IOL 738L	138	1	3.95%
33 FORT SAS	734	SHELL A1	138	1	3.97%
33 FORT SAS	735	SHELL TP	138	1	3.97%
60 EDMONTON	538	ATP 5R 7	138	1	3.98%
33 FORT SAS	821	708ALTAP	138	1	3.98%
60 EDMONTON	541	ATP 4R 7	138	1	3.98%
60 EDMONTON	987	CIL TAP7	138	1	3.98%
60 EDMONTON	47	SHERWOO7	138	1	3.99%
50 BACKBONE	1422	NEVIS 4	240	1	4.00%
25 FORT MCM	10222	718S701T	138	1	4.04%
33 FORT SAS	931	746L NO	138	1	4.04%
33 FORT SAS	961	746L JNC	138	1	4.04%
25 FORT MCM	11222	718S702T	138	1	4.04%
33 FORT SAS	394	ASTOTIN	138	1	4.06%
33 FORT SAS	67	BRUDERH7	138	1	4.06%
33 FORT SAS	391	ALBCHEM7	138	1	4.06%
60 EDMONTON	537	FIBERGL7	138	1	4.07%
60 EDMONTON	438	CAN LIQ7	138	1	4.07%
60 EDMONTON	953	FIBE TAP	138	1	4.07%
60 EDMONTON	887	CAN L TP	138	1	4.08%
33 FORT SAS	314	JOSEPH2	138	1	4.10%
33 FORT SAS	48	DIAM SH7	138	1	4.10%
50 BACKBONE	519	CASTLEDN	240	1	4.10%
33 FORT SAS	952	DIAM TAP	138	1	4.10%
60 EDMONTON	515	BROADMO7	138	1	4.10%
37 PROVOST	87	METIS644	240	1	4.10%
60 EDMONTON	137	N CALDE4	240	1	4.10%
37 PROVOST	649	HANSMAN7	240	1	4.11%
60 EDMONTON	970	746L JCT	138	1	4.11%
60 EDMONTON	520	VICTORIA	240	1	4.11%
60 EDMONTON	66	IOL 737L	138	1	4.12%
33 FORT SAS	106	DEERLAN7	138	1	4.12%
60 EDMONTON	58	FORT SA7	138	1	4.12%
33 FORT SAS	771	AMELIA1	240	1	4.12%
33 FORT SAS	871	943TAPA	240	1	4.12%
33 FORT SAS	313	JOSEPH1	240	1	4.12%
60 EDMONTON	173	BRETV A7	138	1	4.13%
60 EDMONTON	55	GULF OI7	138	1	4.13%
33 FORT SAS	62	SHERRIT7	138	1	4.13%
33 FORT SAS	109	DEERLAN4	240	1	4.13%
60 EDMONTON	125	YASAA7	138	1	4.14%
60 EDMONTON	110	IPL EDM7	138	1	4.16%
60 EDMONTON	56	IPPL ED7	138	1	4.16%
60 EDMONTON	378	STELCO 2	138	1	4.17%
60 EDMONTON	303	STELCO 1	138	1	4.17%
60 EDMONTON	938	STEL TAP	138	1	4.17%
33 FORT SAS	57	LAMOURE4	240	1	4.17%
40 LAKE WAB	143	WHITEWO7	138	1	4.17%

Area	Bus Number	Bus Name	Bus kV	Type	LF
60 EDMONTON	540	CELANES7	138	1	4.18%
33 FORT SAS	750	761L_TP	138	1	4.18%
40 LAKE WAB	964	WHITE TP	138	1	4.18%
60 EDMONTON	89	E EDMON7	138	1	4.18%
27 ATHABASC	321	HEARTLAK	138	1	4.19%
33 FORT SAS	63	LAMOURE7	138	1	4.19%
27 ATHABASC	10282	898ST1	240	1	4.21%
50 BACKBONE	505	JASPER 4	240	1	4.22%
28 COLD LAK	1313	MARG LK7	138	1	4.25%
28 COLD LAK	10312	826S901T	240	1	4.26%
28 COLD LAK	11312	826S902T	240	1	4.26%
28 COLD LAK	1304	MAHNO1	138	1	4.27%
28 COLD LAK	1303	MAHIHKA7	138	1	4.27%
51 NORTHBAC	1312	MARG LK4	240	1	4.29%
25 FORT MCM	1222	PARS CR7	138	1	4.31%
27 ATHABASC	282	HEARTLAK	240	1	4.31%
43 SHEERNES	10485	801S701T	138	1	4.38%
40 LAKE WAB	134	WABAMUN7	138	1	4.38%
51 NORTHBAC	1348	WHITFISH	240	1	4.40%
28 COLD LAK	800	PRIM TAP	138	1	4.45%
56 VEGREVIL	76	IPPL ST7	138	1	4.46%
28 COLD LAK	1310	LEMING 7	138	1	4.48%
60 EDMONTON	514	CLOVERB4	240	1	4.48%
28 COLD LAK	1300	WOLF LK7	138	1	4.48%
50 BACKBONE	133	WABAMUN4	240	1	4.49%
50 BACKBONE	136	E EDMON4	240	1	4.53%
50 BACKBONE	545	EAST IN4	240	1	4.56%
50 BACKBONE	785	1059A_TP	240	1	4.56%
50 BACKBONE	891	904AL TP	240	1	4.58%
60 EDMONTON	546	EAST IN2	240	1	4.59%
60 EDMONTON	893	908 TP	240	1	4.59%
50 BACKBONE	513	LAMBTON4	240	1	4.60%
50 BACKBONE	509	ARGYLL W	240	1	4.62%
50 BACKBONE	506	BELLAMY4	240	1	4.62%
60 EDMONTON	521	PETROLIA	240	1	4.62%
50 BACKBONE	764	1058JOIN	240	1	4.64%
25 FORT MCM	10227	CROWLK17	138	1	4.64%
50 BACKBONE	518	ARGYLL E	240	1	4.66%
25 FORT MCM	1227	CROWLK7	138	1	4.67%
43 SHEERNES	1485	ANDERSON	138	1	4.67%
43 SHEERNES	10484	801S901T	240	1	4.68%
25 FORT MCM	204	MCMILLA4	240	1	4.69%
25 FORT MCM	309	MCMILLA7	138	1	4.71%
25 FORT MCM	10204	885ST1	240	1	4.72%
40 LAKE WAB	302	MARION 7	138	1	4.73%
40 LAKE WAB	459	ROSEVAL1	138	1	4.75%
40 LAKE WAB	984	HIGHVL T	138	1	4.75%
40 LAKE WAB	983	MARION T	138	1	4.75%
40 LAKE WAB	132	SUNDANC7	138	1	4.80%
43 SHEERNES	1481	SHEER 14	240	1	4.82%
43 SHEERNES	10482	807S904T	240	1	4.82%
43 SHEERNES	10487	807S905T	240	1	4.82%
43 SHEERNES	1486	SHEER 24	240	1	4.82%
60 EDMONTON	511	SUMMERS1	240	1	4.86%
50 BACKBONE	128	ELLERSLI	240	1	4.87%
25 FORT MCM	1666	DOVERPS	240	1	4.87%
50 BACKBONE	512	DOVE 4	240	1	4.92%
25 FORT MCM	985	JACK_TAP	240	1	5.03%
25 FORT MCM	1203	RUTH LK7	138	1	5.06%
25 FORT MCM	1202	RUTH LA7	138	1	5.08%
42 HANNA	19574	NILREM5	138	1	5.09%
42 HANNA	1574	NILREM3	240	1	5.15%
50 BACKBONE	1403	PAINTRT4	240	1	5.20%
25 FORT MCM	11201	848S703T	138	1	5.29%
30 DRAYTON	49	KEYSTON7	138	1	5.37%
50 BACKBONE	258	ELLERSLI	500	1	5.42%
25 FORT MCM	10200	848S901T	240	1	5.45%
25 FORT MCM	11200	848S902T	240	1	5.45%
25 FORT MCM	1411	WADDEL7	138	1	5.47%
50 BACKBONE	1499	CORDEL 4	240	1	5.53%
36 ALLIANCE	1489	BAT RV80	240	1	5.54%
25 FORT MCM	468	LEISMER7	138	1	5.54%
25 FORT MCM	348	LEISMER4	240	1	5.54%
25 FORT MCM	10201	848S704T	138	1	5.54%
17 RAINBOW	1508	KLC_TAP	138	1	5.55%

Area	Bus Number	Bus Name	Bus kV	Type	LF
17 RAINBOW	1510	KLC-1	138	1	5.55%
25 FORT MCM	369	CHRISLK1	240	1	5.61%
25 FORT MCM	666	DOVER	240	1	5.66%
25 FORT MCM	1603	KEARL240	240	1	5.72%
25 FORT MCM	6603	T9902	240	1	5.72%
25 FORT MCM	5603	T9901	240	1	5.72%
25 FORT MCM	1680	BITUMONT	240	1	5.72%
25 FORT MCM	1251	HORMIN9	240	1	5.72%
40 LAKE WAB	526	GENESEE7	138	1	5.79%
25 FORT MCM	1604	EDD-0085	138	1	5.80%
40 LAKE WAB	7526	GENTC1A	500	1	5.80%
40 LAKE WAB	8526	GENTC2A	500	1	5.80%
25 FORT MCM	1289	JACKPINE	240	1	5.83%
25 FORT MCM	833	KINO_TAP	240	1	5.85%
25 FORT MCM	1245	KINOSIS1	240	1	5.85%
25 FORT MCM	10245	KINOSIS5	240	1	5.94%
17 RAINBOW	1017	FTNELSON	138	1	5.97%
25 FORT MCM	1242	KINOSIS2	138	1	5.98%
40 LAKE WAB	421	KEEPHIL5	240	1	6.08%
43 SHEERNES	1431	SWITCH_H	240	1	6.16%
36 ALLIANCE	10491	757S701T	138	1	6.34%
36 ALLIANCE	13491	757S702T	138	1	6.40%
36 ALLIANCE	14491	757S705T	138	1	6.40%
40 LAKE WAB	897	GENESE T	138	1	6.46%
40 LAKE WAB	431	KEEP_3	138	1	6.47%
40 LAKE WAB	423	KEEPHIL7	138	1	6.47%