

AESO AIES 2012 Recalculated Transmission Bus Loss Factors
2012 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
36 ALLIANCE	14491	757S705T	138	1	5.28%
36 ALLIANCE	13491	757S702T	138	1	5.28%
40 LAKE WAB	421	KEEPHIL5	240	1	5.26%
40 LAKE WAB	500	KEEPHIL1	138	1	5.22%
40 LAKE WAB	423	KEEPHIL7	138	1	5.22%
40 LAKE WAB	431	KEEP_3	138	1	5.22%
40 LAKE WAB	897	GENESE T	138	1	5.22%
40 LAKE WAB	984	HIGHVL T	138	1	5.11%
40 LAKE WAB	459	ROSEVAL1	138	1	5.11%
36 ALLIANCE	10491	757S701T	138	1	5.10%
40 LAKE WAB	7526	GENTC1A	500	1	5.01%
40 LAKE WAB	8526	GENTC2A	500	1	5.01%
40 LAKE WAB	526	GENESE7	138	1	5.00%
40 LAKE WAB	510	KEEPHIL3	500	1	5.00%
43 SHEERNES	1431	SWITCH_H	240	1	4.60%
60 EDMONTON	258	ELLERSLI	500	1	4.57%
43 SHEERNES	1485	ANDERSON	138	1	4.53%
43 SHEERNES	10484	801S901T	240	1	4.53%
43 SHEERNES	10487	807S905T	240	1	4.53%
43 SHEERNES	1486	SHEER 24	240	1	4.53%
43 SHEERNES	1481	SHEER 14	240	1	4.53%
43 SHEERNES	10482	807S904T	240	1	4.53%
40 LAKE WAB	983	MARION T	138	1	4.45%
36 ALLIANCE	1489	BAT RV80	240	1	4.43%
42 HANNA	1499	CORDEL 4	240	1	4.43%
40 LAKE WAB	302	MARION 7	138	1	4.43%
40 LAKE WAB	132	SUNDANC7	138	1	4.18%
43 SHEERNES	10485	801S701T	138	1	4.17%
30 DRAYTON	49	KEYSTON7	138	1	4.10%
36 ALLIANCE	1403	PAINTRT4	240	1	4.03%
43 SHEERNES	1463	BULLPON7	138	1	4.02%
60 EDMONTON	512	DOME 4	240	1	4.02%
60 EDMONTON	128	ELLERSLI	240	1	3.96%
60 EDMONTON	511	SUMMERS1	240	1	3.95%
43 SHEERNES	1460	WINT HI7	138	1	3.95%
60 EDMONTON	518	ARGYLL E	240	1	3.73%
43 SHEERNES	10460	804S701T	138	1	3.69%
60 EDMONTON	506	BELLAMY4	240	1	3.68%
60 EDMONTON	509	ARGYLL W	240	1	3.68%
50 BACKBONE	764	1058JOIN	240	1	3.68%
60 EDMONTON	521	PETROLIA	240	1	3.67%
25 FORT MCM	1610	MCCLE_01	240	1	3.66%
25 FORT MCM	1277	BLK_FLY1	240	1	3.65%
43 SHEERNES	10463	803S701T	138	1	3.65%
25 FORT MCM	1276	S-SHINE1	240	1	3.65%
60 EDMONTON	513	LAMBTON4	240	1	3.63%
40 LAKE WAB	133	WABAMUN4	240	1	3.61%
60 EDMONTON	893	908 TP	240	1	3.61%
60 EDMONTON	546	EAST IN2	240	1	3.61%
50 BACKBONE	891	904AL TP	240	1	3.60%
50 BACKBONE	785	1059A_TP	240	1	3.57%
60 EDMONTON	545	EAST IN4	240	1	3.57%
40 LAKE WAB	488	CHERHIL1	240	1	3.54%
60 EDMONTON	136	E EDMON4	240	1	3.53%
40 LAKE WAB	134	WABAMUN7	138	1	3.52%
25 FORT MCM	11402	977S901T	240	1	3.44%
60 EDMONTON	514	CLOVERB4	240	1	3.43%
25 FORT MCM	1409	QUIGL1	138	1	3.38%
25 FORT MCM	1402	SALTCR1	240	1	3.31%
40 LAKE WAB	964	WHITE TP	138	1	3.29%
40 LAKE WAB	143	WHITEWO7	138	1	3.28%
25 FORT MCM	1405	SALTCR2	138	1	3.27%
60 EDMONTON	505	JASPER 4	240	1	3.24%
56 VEGREVIL	76	IPPL ST7	138	1	3.23%
47 BROOKS	225	WARE JCT	240	1	3.21%
32 WAINWRIG	78	SEDGEWI7	138	1	3.21%

Area	Bus Number	Bus Name	Bus kV	Type	LF
60 EDMONTON	89	E EDMON7	138	1	3.17%
60 EDMONTON	938	STEL TAP	138	1	3.15%
60 EDMONTON	303	STELCO 1	138	1	3.15%
60 EDMONTON	378	STELCO 2	138	1	3.15%
33 FORT SAS	750	761L_TP	138	1	3.14%
60 EDMONTON	540	CELANES7	138	1	3.14%
60 EDMONTON	56	IPPL ED7	138	1	3.14%
60 EDMONTON	110	IPL EDM7	138	1	3.14%
60 EDMONTON	125	YASAA7	138	1	3.13%
60 EDMONTON	955	PDMAKER1	240	1	3.12%
60 EDMONTON	55	GULF OI7	138	1	3.11%
60 EDMONTON	173	BRETV A7	138	1	3.11%
60 EDMONTON	66	IOL 737L	138	1	3.10%
60 EDMONTON	970	746L JCT	138	1	3.08%
60 EDMONTON	515	BROADMO7	138	1	3.07%
60 EDMONTON	137	N CALDE4	240	1	3.05%
60 EDMONTON	887	CAN L TP	138	1	3.05%
60 EDMONTON	438	CAN LIQ7	138	1	3.04%
60 EDMONTON	953	FIBE TAP	138	1	3.04%
60 EDMONTON	537	FIBERGL7	138	1	3.03%
60 EDMONTON	718	WESWOOD	138	1	3.00%
60 EDMONTON	520	VICTORIA	240	1	2.99%
42 HANNA	1422	NEVIS 4	240	1	2.99%
60 EDMONTON	519	CASTLEDN	240	1	2.98%
25 FORT MCM	1242	KINOSIS2	138	1	2.96%
60 EDMONTON	987	CIL TAP7	138	1	2.95%
60 EDMONTON	541	ATP 4R 7	138	1	2.95%
60 EDMONTON	538	ATP 5R 7	138	1	2.94%
42 HANNA	10448	802S701T	138	1	2.94%
25 FORT MCM	10245	KINOSIS5	240	1	2.93%
42 HANNA	602	GHOSTPI3	138	1	2.92%
42 HANNA	1427	NILREM3	240	1	2.92%
60 EDMONTON	69	IOL 738L	138	1	2.91%
42 HANNA	1423	NEVIS 7	138	1	2.91%
42 HANNA	10422	766S901T	240	1	2.90%
60 EDMONTON	47	SHERWOO7	138	1	2.89%
33 FORT SAS	63	LAMOURE7	138	1	2.89%
25 FORT MCM	1245	KINOSIS1	240	1	2.89%
40 LAKE WAB	947	GAINTAP2	138	1	2.87%
40 LAKE WAB	437	TMPL2GA7	138	1	2.87%
33 FORT SAS	57	LAMOURE4	240	1	2.86%
25 FORT MCM	369	CHRISLK1	240	1	2.86%
33 FORT SAS	961	746L JNC	138	1	2.86%
33 FORT SAS	931	746L NO	138	1	2.86%
42 HANNA	19427	NILREM5	138	1	2.85%
33 FORT SAS	62	SHERRIT7	138	1	2.82%
31 WETASKIW	81	BIGSTON4	240	1	2.82%
60 EDMONTON	58	FORT SA7	138	1	2.80%
25 FORT MCM	348	LEISMER4	240	1	2.79%
25 FORT MCM	468	LEISMER7	138	1	2.78%
42 HANNA	10423	766S701T	138	1	2.77%
25 FORT MCM	920	ROUND01	240	1	2.77%
60 EDMONTON	40	N CALDE7	138	1	2.76%
60 EDMONTON	898	GENSTR T	138	1	2.76%
42 HANNA	1448	MICH. C7	138	1	2.75%
53 FORT MAC	5339	SUMV11	138	1	2.74%
33 FORT SAS	313	JOSEPH1	240	1	2.73%
25 FORT MCM	1411	WADDELL7	138	1	2.71%
60 EDMONTON	209	BRETONA1	138	1	2.70%
33 FORT SAS	871	943TAPA	240	1	2.70%
33 FORT SAS	771	AMELIA1	240	1	2.70%
60 EDMONTON	549	INLANDCT	138	1	2.70%
25 FORT MCM	1289	JACKPINE	240	1	2.70%
37 PROVOST	649	HANSMAN7	240	1	2.69%
37 PROVOST	87	METIS644	240	1	2.69%
33 FORT SAS	109	DEERLAN4	240	1	2.66%
33 FORT SAS	106	DEERLAN7	138	1	2.65%
33 FORT SAS	952	DIAM TAP	138	1	2.65%
33 FORT SAS	48	DIAM SH7	138	1	2.65%
25 FORT MCM	1251	HORMIN9	240	1	2.64%
25 FORT MCM	1680	BITUMONT	240	1	2.64%
25 FORT MCM	666	DOVER	240	1	2.63%
33 FORT SAS	314	JOSEPH2	138	1	2.63%
25 FORT MCM	6603	T9902	240	1	2.63%
25 FORT MCM	1603	KEARL240	240	1	2.63%

Area	Bus Number	Bus Name	Bus kV	Type	LF
25 FORT MCM	5603	T9901	240	1	2.63%
33 FORT SAS	821	708ALTAP	138	1	2.63%
42 HANNA	1429	948S_HV	138	1	2.63%
53 FORT MAC	5340	SUM12	138	1	2.60%
29 HINTON/E	90	BICKERD4	240	1	2.60%
33 FORT SAS	391	ALBCHEM7	138	1	2.59%
42 HANNA	1433	3 HILLS7	138	1	2.59%
33 FORT SAS	734	SHELL A1	138	1	2.59%
33 FORT SAS	735	SHELL TP	138	1	2.59%
33 FORT SAS	67	BRUDERH7	138	1	2.59%
33 FORT SAS	394	ASTOTIN	138	1	2.59%
31 WETASKIW	374	BIGSTON7	138	1	2.56%
31 WETASKIW	804	803/804X	138	1	2.56%
42 HANNA	1436	954S_HV	138	1	2.56%
60 EDMONTON	366	VISCOUNT	138	1	2.55%
48 EMPRESS	260	JENNER 4	240	1	2.51%
33 FORT SAS	60	BEAMER 7	138	1	2.50%
25 FORT MCM	10201	848S704T	138	1	2.49%
48 EMPRESS	5260	JENNERE9	240	1	2.45%
29 HINTON/E	88	BICKERD7	138	1	2.45%
48 EMPRESS	6260	JENNER 9	240	1	2.45%
48 EMPRESS	1473	MCNEILL	138	1	2.40%
47 BROOKS	276	W BROOK7	138	1	2.40%
47 BROOKS	430	W BROOK4	240	1	2.39%
25 FORT MCM	11200	848S902T	240	1	2.39%
32 WAINWRIG	483	TUCUMAN7	138	1	2.39%
25 FORT MCM	10200	848S901T	240	1	2.39%
31 WETASKIW	803	803/804N	138	1	2.38%
32 WAINWRIG	73	HARDIST7	138	1	2.35%
40 LAKE WAB	26	ENTWIST7	138	1	2.35%
32 WAINWRIG	715	CLIPP_TP	138	1	2.34%
32 WAINWRIG	484	CLIPPER7	138	1	2.34%
32 WAINWRIG	373	IPL HAR7	138	1	2.34%
37 PROVOST	809	EXPRESTP	138	1	2.34%
32 WAINWRIG	37	HRT EXP7	138	1	2.34%
37 PROVOST	648	HANSMAN9	138	1	2.32%
40 LAKE WAB	138	N BARRH4	240	1	2.32%
37 PROVOST	74	METIS647	138	1	2.32%
60 EDMONTON	357	STALBE7	138	1	2.31%
37 PROVOST	989	703ALTAP	138	1	2.31%
37 PROVOST	112	SUNKEN7	138	1	2.31%
40 LAKE WAB	41	N BARRH7	138	1	2.27%
28 COLD LAK	1348	WHITFISH	240	1	2.26%
48 EMPRESS	292	JENNER7	138	1	2.25%
25 FORT MCM	11201	848S703T	138	1	2.24%
40 LAKE WAB	364	CARVEL01	138	1	2.22%
47 BROOKS	256	BROOKS 7	138	1	2.20%
30 DRAYTON	812	BUCK TAP	138	1	2.19%
48 EMPRESS	344	WARLOW7	138	1	2.18%
33 FORT SAS	59	REDWATE7	138	1	2.13%
37 PROVOST	75	HUGHEND7	138	1	2.12%
31 WETASKIW	93	WETASKI7	138	1	2.12%
35 RED DEER	155	BENALTO4	240	1	2.11%
60 EDMONTON	101	COOKING7	138	1	2.10%
31 WETASKIW	899	TRUE W T	138	1	2.09%
31 WETASKIW	440	TRUE WEL	138	1	2.09%
25 FORT MCM	10204	885ST1	240	1	2.08%
29 HINTON/E	830	MARLBTAP	138	1	2.08%
53 FORT MAC	334	SUMMER04	138	1	2.08%
25 FORT MCM	204	MCMILLA4	240	1	2.07%
25 FORT MCM	309	MCMILLA7	138	1	2.06%
28 COLD LAK	1312	MARG LK4	240	1	2.06%
27 ATHABASC	282	HEARTLAK	240	1	2.05%
60 EDMONTON	363	NW CARD7	138	1	2.04%
29 HINTON/E	415	MARLBOR1	138	1	2.04%
25 FORT MCM	1203	RUTH LK7	138	1	2.01%
53 FORT MAC	748	608AL_TP	138	1	2.01%
25 FORT MCM	1227	CROWLK7	138	1	2.00%
47 BROOKS	826	831A TAP	138	1	2.00%
47 BROOKS	445	CUTNG L7	138	1	2.00%
25 FORT MCM	1202	RUTH LA7	138	1	2.00%
30 DRAYTON	331	VIOL GR7	138	1	1.98%
27 ATHABASC	19	WESGEN T	138	1	1.98%
27 ATHABASC	10282	898ST1	240	1	1.97%
27 ATHABASC	321	HEARTLAK	138	1	1.96%

Area	Bus Number	Bus Name	Bus kV	Type	LF
48 EMPRESS	677	CYPRES2	240	1	1.96%
28 COLD LAK	11312	826S902T	240	1	1.95%
28 COLD LAK	10312	826S901T	240	1	1.95%
31 WETASKIW	105	PIGEON 7	138	1	1.95%
53 FORT MAC	837	SODGLTAP	138	1	1.95%
48 EMPRESS	674	CYPRES1	138	1	1.94%
28 COLD LAK	1313	MARG LK7	138	1	1.93%
28 COLD LAK	1300	WOLF LK7	138	1	1.93%
37 PROVOST	86	PROVOST7	138	1	1.93%
25 FORT MCM	10227	CROWLK17	138	1	1.91%
48 EMPRESS	6262	163ST1	240	1	1.90%
48 EMPRESS	5262	163ST2	240	1	1.89%
25 FORT MCM	1602	LIVOCKPS	240	1	1.89%
50 BACKBONE	995	W.GRN TP	240	1	1.88%
30 DRAYTON	150	WILLES4	240	1	1.88%
40 LAKE WAB	905	105S TAP	138	1	1.87%
40 LAKE WAB	723	BILBY 1	138	1	1.87%
47 BROOKS	250	DUCHESS7	138	1	1.87%
31 WETASKIW	356	BON GLE7	138	1	1.86%
28 COLD LAK	1310	LEMING 7	138	1	1.86%
53 FORT MAC	409	KETTLES	138	1	1.85%
29 HINTON/E	20	EDSON 7	138	1	1.85%
40 LAKE WAB	888	106S TAP	138	1	1.84%
40 LAKE WAB	779	PADDLE R	138	1	1.84%
53 FORT MAC	166	PEIGAN 7	138	1	1.82%
28 COLD LAK	800	PRIM TAP	138	1	1.81%
35 RED DEER	99	BENALTO7	138	1	1.77%
27 ATHABASC	16	FLATBUS7	138	1	1.75%
47 BROOKS	877	BASNTAP	138	1	1.72%
48 EMPRESS	267	DOVE EM7	138	1	1.72%
48 EMPRESS	111	SANDHIL7	138	1	1.72%
48 EMPRESS	53	SANDYPT7	138	1	1.72%
48 EMPRESS	266	EMPRESA7	138	1	1.72%
48 EMPRESS	5053	204ST1	138	1	1.72%
31 WETASKIW	65	BARDO 7	138	1	1.71%
27 ATHABASC	934	FLAT TAP	138	1	1.71%
53 FORT MAC	296	GOOSEL7	138	1	1.70%
35 RED DEER	152	RED DEE4	240	1	1.70%
47 BROOKS	943	MILO 1	240	1	1.70%
60 EDMONTON	91	NISKU 7	138	1	1.69%
32 WAINWRIG	892	WAIN TP7	138	1	1.68%
28 COLD LAK	1303	MAHIHKA7	138	1	1.68%
28 COLD LAK	1304	MAHNO1	138	1	1.68%
27 ATHABASC	4	WESTLOC7	138	1	1.67%
35 RED DEER	147	GAETZ 4	240	1	1.67%
29 HINTON/E	913	G.ROBB T	138	1	1.66%
53 FORT MAC	346	GOOSEL4	240	1	1.64%
53 FORT MAC	656	RUSSEL1	138	1	1.64%
30 DRAYTON	36	BRAZEAU7	138	1	1.64%
31 WETASKIW	946	KING TAP	138	1	1.63%
40 LAKE WAB	360	STONY P7	138	1	1.62%
29 HINTON/E	18	GULF RO7	138	1	1.61%
27 ATHABASC	306	WINEFRE7	138	1	1.60%
60 EDMONTON	359	ACHESON	138	1	1.60%
35 RED DEER	780	SYLV_138	138	1	1.60%
31 WETASKIW	94	ERVICK 7	138	1	1.59%
31 WETASKIW	142	KINGMAN7	138	1	1.59%
35 RED DEER	117	RED DE A	138	1	1.57%
35 RED DEER	118	RED DE B	138	1	1.57%
32 WAINWRIG	72	JARROW 7	138	1	1.57%
31 WETASKIW	365	BUFORD 7	138	1	1.57%
32 WAINWRIG	1490	JAROW TP	138	1	1.57%
53 FORT MAC	229	170AL-TA	138	1	1.57%
60 EDMONTON	218	BLACKMUD	138	1	1.57%
31 WETASKIW	70	CAMROSE7	138	1	1.56%
48 EMPRESS	911	EMPLIQTP	138	1	1.54%
29 HINTON/E	912	740L JNC	138	1	1.53%
29 HINTON/E	324	COALSPU7	138	1	1.53%
53 FORT MAC	165	PEIGAN 4	240	1	1.52%
60 EDMONTON	96	DEVON 7	138	1	1.52%
48 EMPRESS	263	EMP LIQ7	138	1	1.49%
35 RED DEER	956	758L JCT	138	1	1.48%
56 VEGREVIL	68	N HOLDE7	138	1	1.48%
29 HINTON/E	395	NITON 7	138	1	1.46%
55 GLENWOOD	233	DRYWOOD7	138	1	1.46%

Area	Bus Number	Bus Name	Bus kV	Type	LF
35 RED DEER	148	GAETZ 7	138	1	1.46%
47 BROOKS	399	BASSAN7	138	1	1.45%
40 LAKE WAB	2	MAYERTH	138	1	1.45%
35 RED DEER	801	787LSKP1	138	1	1.45%
27 ATHABASC	5	CLYDE 7	138	1	1.45%
25 FORT MCM	1288	LIVOCK01	240	1	1.44%
25 FORT MCM	18288	LIVOCK03	138	1	1.44%
25 FORT MCM	10288	LIVOCK02	240	1	1.44%
25 FORT MCM	1006	GERMAIN1	138	1	1.44%
29 HINTON/E	397	PINEDAL7	138	1	1.43%
35 RED DEER	115	S RED DE	138	1	1.42%
35 RED DEER	97	ECKVILL7	138	1	1.41%
30 DRAYTON	35	LODGEPO7	138	1	1.38%
29 HINTON/E	326	COAL VA7	138	1	1.34%
35 RED DEER	802	787LSKP2	138	1	1.34%
35 RED DEER	119	N RED D7	138	1	1.34%
29 HINTON/E	915	CHEV TP	138	1	1.33%
29 HINTON/E	368	CHEVIOT1	138	1	1.33%
25 FORT MCM	1222	PARS CR7	138	1	1.31%
30 DRAYTON	38	BRAZ OUT	138	1	1.28%
35 RED DEER	664	PIPER CR	138	1	1.27%
53 FORT MAC	823	725BL	138	1	1.25%
28 COLD LAK	1320	ETHEL L7	138	1	1.24%
32 WAINWRIG	297	WAINWRI7	138	1	1.24%
37 PROVOST	1425	EYRE_TAP	138	1	1.21%
26 SWAN HIL	163	SAGITAW4	240	1	1.21%
55 GLENWOOD	794	MAGRATH9	138	1	1.18%
55 GLENWOOD	694	MAGRATH7	138	1	1.18%
40 LAKE WAB	844	ASBNE TP	138	1	1.17%
40 LAKE WAB	44	FT ASBN7	138	1	1.17%
35 RED DEER	398	BROOKFLD	138	1	1.17%
54 LETHBRID	167	N LETHB4	240	1	1.16%
26 SWAN HIL	164	SAGITAW7	138	1	1.16%
17 RAINBOW	12028	791S703T	138	1	1.13%
35 RED DEER	975	COMINTAP	138	1	1.12%
47 BROOKS	275	TILLEY 7	138	1	1.12%
4 MEDICINE	320	CHAPPIC7	138	1	1.11%
28 COLD LAK	10320	717S703T	138	1	1.11%
25 FORT MCM	1622	TWR_RD1	138	1	1.10%
35 RED DEER	387	COMINCO7	138	1	1.09%
37 PROVOST	1451	EYRE7	138	1	1.08%
48 EMPRESS	1453	KSP_TAP	138	1	1.07%
17 RAINBOW	1054	ARCENC1	138	1	1.05%
31 WETASKIW	95	PONOKA 7	138	1	1.03%
25 FORT MCM	11222	718S702T	138	1	1.02%
25 FORT MCM	10222	718S701T	138	1	1.02%
54 LETHBRID	692	N LETHB7	138	1	1.02%
35 RED DEER	113	BLACKFA7	138	1	1.01%
30 DRAYTON	815	TWP TAP7	138	1	1.01%
30 DRAYTON	215	TEX.W.P7	138	1	1.00%
30 DRAYTON	39	CYNTHIA7	138	1	0.99%
54 LETHBRID	691	LETH241S	138	1	0.98%
24 FOX CREE	412	BENBOW 7	138	1	0.98%
24 FOX CREE	962	KAYBOBTP	138	1	0.98%
24 FOX CREE	13	KAYBOB 7	138	1	0.98%
17 RAINBOW	11028	791S702T	138	1	0.97%
24 FOX CREE	924	CH KGT T	138	1	0.97%
24 FOX CREE	82	CHEVRON7	138	1	0.97%
24 FOX CREE	411	CHEV KG7	138	1	0.97%
35 RED DEER	98	RIMBEY 7	138	1	0.97%
54 LETHBRID	696	LETH146S	138	1	0.97%
26 SWAN HIL	298	ALB NEWS	240	1	0.95%
26 SWAN HIL	8	WHI 3647	138	1	0.95%
35 RED DEER	116	W LACOMB	138	1	0.94%
48 EMPRESS	1454	BINDLOS7	138	1	0.94%
35 RED DEER	388	ELLIS 7	138	1	0.94%
35 RED DEER	384	UC PRENT	138	1	0.94%
54 LETHBRID	916	MONAR TP	138	1	0.92%
54 LETHBRID	697	LETH593S	138	1	0.90%
29 HINTON/E	820	FICKL TP	138	1	0.89%
57 AIRDRIE	312	E CROSS7	138	1	0.89%
54 LETHBRID	699	RIVERBN7	138	1	0.89%
25 FORT MCM	1224	HANGSTO7	138	1	0.87%
54 LETHBRID	679	LETH111S	138	1	0.87%
53 FORT MAC	939	RVBD TAP	138	1	0.87%

Area	Bus Number	Bus Name	Bus kV	Type	LF
26 SWAN HIL	52	BLUERIDG	138	1	0.86%
29 HINTON/E	910	OBED TAP	138	1	0.85%
29 HINTON/E	141	DALEHUR7	138	1	0.85%
29 HINTON/E	909	DALEH TP	138	1	0.85%
17 RAINBOW	10028	791S701T	138	1	0.85%
54 LETHBRID	400	MONARCH7	138	1	0.85%
31 WETASKIW	192	NELSON L	138	1	0.85%
35 RED DEER	114	LACOMBE7	138	1	0.84%
54 LETHBRID	698	LETH674S	138	1	0.84%
29 HINTON/E	15	MTN COA7	138	1	0.83%
52 VAUXHALL	928	ENCH TAP	138	1	0.83%
30 DRAYTON	330	P C BRA7	138	1	0.82%
26 SWAN HIL	9	WHITECO7	138	1	0.81%
39 DIDSBUY	120	INNISFA7	138	1	0.79%
50 BACKBONE	988	CROSSF T	240	1	0.77%
57 AIRDRIE	156	E CROSS4	240	1	0.77%
28 COLD LAK	1315	LACOREY7	138	1	0.75%
53 FORT MAC	237	FORT MA7	138	1	0.73%
25 FORT MCM	179	MARIANA7	138	1	0.71%
27 ATHABASC	305	LAC LA 7	138	1	0.70%
42 HANNA	1471	MONITOR7	138	1	0.70%
37 PROVOST	814	KILRY TP	138	1	0.69%
6 CALGARY	159	LANGDON4	240	1	0.69%
6 CALGARY	5159	102ST4	240	1	0.69%
30 DRAYTON	813	ELKRIVTP	138	1	0.69%
30 DRAYTON	51	W PEMBI7	138	1	0.68%
30 DRAYTON	42	AMOCO BR	138	1	0.68%
6 CALGARY	5158	102ST1	240	1	0.67%
30 DRAYTON	651	ELKRIVE7	138	1	0.67%
25 FORT MCM	1238	7LA36TAP	138	1	0.65%
42 HANNA	856	KSP3	138	1	0.65%
29 HINTON/E	17	COLD CR7	138	1	0.65%
42 HANNA	1458	LOYALIS7	138	1	0.64%
26 SWAN HIL	85	MILLAR 7	138	1	0.64%
30 DRAYTON	1628	MOON LA7	138	1	0.63%
25 FORT MCM	1290	HORSERV7	138	1	0.62%
29 HINTON/E	605	WATSON C	138	1	0.62%
45 STRATHMO	5247	CAV T101	138	1	0.61%
42 HANNA	10471	774S701T	138	1	0.60%
52 VAUXHALL	286	ENCHANT7	138	1	0.58%
25 FORT MCM	1239	GREGOIRE	138	1	0.57%
25 FORT MCM	1293	ALGAR-17	138	1	0.57%
17 RAINBOW	1023	SULPH PT	138	1	0.56%
45 STRATHMO	340	NAMAKA 7	138	1	0.55%
57 AIRDRIE	933	AIRD TAP	138	1	0.52%
25 FORT MCM	144	ALGAR 7	138	1	0.51%
17 RAINBOW	10023	828S701T	138	1	0.51%
48 EMPRESS	1452	CVD_TAP	138	1	0.51%
57 AIRDRIE	318	W CROSSF	138	1	0.49%
28 COLD LAK	1332	GRND CTR	138	1	0.48%
27 ATHABASC	304	PLAMOND7	138	1	0.48%
48 EMPRESS	1456	CAVDISH1	138	1	0.47%
45 STRATHMO	315	HUSSAR	138	1	0.47%
25 FORT MCM	1294	MARIA-17	138	1	0.47%
54 LETHBRID	690	COALDAL7	138	1	0.46%
42 HANNA	857	KSP4	138	1	0.43%
42 HANNA	1474	OYEN 7	138	1	0.43%
27 ATHABASC	3	COLINTO7	138	1	0.43%
25 FORT MCM	1280	BRINTO2	240	1	0.43%
25 FORT MCM	10239	883STRMP	138	1	0.43%
42 HANNA	1459	EXCEL7	138	1	0.42%
17 RAINBOW	1026	ZAMA LK7	138	1	0.40%
6 CALGARY	160	JANET 4	240	1	0.38%
57 AIRDRIE	729	SUMMITTP	138	1	0.36%
57 AIRDRIE	425	NOSE CR7	138	1	0.35%
25 FORT MCM	10226	720S901T	240	1	0.35%
25 FORT MCM	1226	WABASCA4	240	1	0.34%
4 MEDICINE	271	BULLS H7	138	1	0.34%
45 STRATHMO	333	QUENSTWN	138	1	0.34%
27 ATHABASC	637	ALPACTAP	138	1	0.33%
17 RAINBOW	11026	795S702T	138	1	0.33%
27 ATHABASC	308	FLATLK-2	138	1	0.33%
17 RAINBOW	10026	795S701T	138	1	0.33%
45 STRATHMO	254	GLEICHE7	138	1	0.32%
4 MEDICINE	270	SUFFIEL7	138	1	0.29%

Area	Bus Number	Bus Name	Bus kV	Type	LF
57 AIRDRIE	810	AMOCOTAP	138	1	0.29%
52 VAUXHALL	401	HAYS 7	138	1	0.28%
54 LETHBRID	834	CHIN_CHT	138	1	0.28%
45 STRATHMO	252	CARSELA7	138	1	0.27%
21 HIGH PRA	1228	MIT S E.4	240	1	0.26%
38 CAROLINE	100	ROCKY M7	138	1	0.25%
21 HIGH PRA	10228	732S901T	240	1	0.25%
6 CALGARY	5290	BALZ T1	138	1	0.24%
21 HIGH PRA	11228	732S902T	240	1	0.24%
27 ATHABASC	7	BOYLE 7	138	1	0.23%
56 VEGREVIL	1367	VEGREVL7	138	1	0.22%
17 RAINBOW	1018	BASSET 7	138	1	0.22%
6 CALGARY	198	BALZAC 7	138	1	0.21%
52 VAUXHALL	274	VAUXHAL7	138	1	0.21%
21 HIGH PRA	1229	MIT S E.7	138	1	0.21%
21 HIGH PRA	1234	OTAUWU7	138	1	0.21%
6 CALGARY	127	BEDDING2	138	1	0.20%
6 CALGARY	576	ENMX47S7	138	1	0.20%
24 FOX CREE	12	FOX CREE	138	1	0.20%
54 LETHBRID	869	CHIN CH	138	1	0.19%
26 SWAN HIL	1260	LOU CR.4	240	1	0.18%
21 HIGH PRA	841	OTAU_TP	138	1	0.18%
4 MEDICINE	284	BUTTE7	138	1	0.18%
21 HIGH PRA	11234	729S702T	138	1	0.16%
42 HANNA	1470	VETERAN7	138	1	0.16%
56 VEGREVIL	10367	709S701T	138	1	0.14%
45 STRATHMO	259	STRATHM7	138	1	0.13%
56 VEGREVIL	1350	WHITBY 7	138	1	0.10%
21 HIGH PRA	1230	AEC MILL	138	1	0.09%
56 VEGREVIL	1357	VILNA 7	138	1	0.06%
38 CAROLINE	104	STRACHA7	138	1	0.06%
6 CALGARY	162	E CALGAR	240	1	0.04%
42 HANNA	1477	RIBSTON1	138	1	0.04%
26 SWAN HIL	1261	LOU CR.7	138	1	0.03%
6 CALGARY	207	JANET 7	138	1	0.03%
26 SWAN HIL	11260	809S902T	240	1	0.02%
26 SWAN HIL	10260	809S901T	240	1	0.02%
21 HIGH PRA	10230	844S701T	138	1	0.02%
21 HIGH PRA	11230	844S702T	138	1	0.02%
57 AIRDRIE	295	DRYCREEK	138	1	0.00%
55 GLENWOOD	293	STIRLIN7	138	1	-0.01%
52 VAUXHALL	828	PURSPRW4	138	1	-0.01%
42 HANNA	716	LAKESEN7	138	1	-0.03%
17 RAINBOW	213	HAIGRIVE	138	1	-0.03%
6 CALGARY	574	ENMX37S7	138	1	-0.05%
6 CALGARY	161	SARCEE 4	240	1	-0.08%
49 STAVELY	279	STAVELEY	138	1	-0.09%
26 SWAN HIL	1266	SARAH L7	138	1	-0.10%
57 AIRDRIE	177	AIRDRIE	138	1	-0.11%
32 WAINWRIG	79	BUFFALO7	138	1	-0.12%
26 SWAN HIL	1271	MORSE RV	138	1	-0.12%
26 SWAN HIL	1270	ESSO JU7	138	1	-0.13%
26 SWAN HIL	10270	785S701T	138	1	-0.13%
37 PROVOST	362	EDGERTO7	138	1	-0.13%
6 CALGARY	573	ENMX38S7	138	1	-0.13%
28 COLD LAK	1344	BONNY 7	138	1	-0.16%
6 CALGARY	572	ENMX39S7	138	1	-0.19%
26 SWAN HIL	10266	743S701T	138	1	-0.21%
26 SWAN HIL	1272	FIELDGA7	138	1	-0.23%
45 STRATHMO	253	BLACKIE7	138	1	-0.25%
37 PROVOST	219	KILLARN7	138	1	-0.26%
52 VAUXHALL	31	FINCAST7	138	1	-0.26%
52 VAUXHALL	291	CONRAD 7	138	1	-0.28%
6 CALGARY	590	ENMX24S7	138	1	-0.28%
6 CALGARY	577	ENMX23S7	138	1	-0.28%
52 VAUXHALL	272	TABER 7	138	1	-0.30%
28 COLD LAK	11344	700S702T	138	1	-0.30%
6 CALGARY	202	SARCEE 7	138	1	-0.32%
6 CALGARY	5161	SARCEE M	138	1	-0.32%
49 STAVELY	244	VULCAN 7	138	1	-0.32%
6 CALGARY	551	ENMX28S7	138	1	-0.33%
17 RAINBOW	1034	CHINCHA7	138	1	-0.34%
17 RAINBOW	10034	779S701T	138	1	-0.35%
42 HANNA	1410	CURR_TAP	138	1	-0.36%
42 HANNA	10474	767S701T	138	1	-0.37%

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6 CALGARY	550	ENMX22S7	138	1	-0.37%
6 CALGARY	561	ENMX11S7	138	1	-0.38%
6 CALGARY	208	ENMX2S 7	138	1	-0.40%
6 CALGARY	581	ENMX12S7	138	1	-0.40%
37 PROVOST	1446	CURRANT7	138	1	-0.42%
24 FOX CREE	1175	FOX CRK7	138	1	-0.42%
6 CALGARY	579	ENMX31S7	138	1	-0.42%
52 VAUXHALL	269	BURDETT7	138	1	-0.44%
6 CALGARY	559	ENMX13S7	138	1	-0.44%
6 CALGARY	601	2.83 TAP	138	1	-0.45%
6 CALGARY	589	ENMX26S7	138	1	-0.45%
6 CALGARY	585	ENMX9S 7	138	1	-0.46%
6 CALGARY	552	ENMX21S7	138	1	-0.47%
6 CALGARY	586	ENMX30S7	138	1	-0.47%
26 SWAN HIL	1275	VIRGINI7	138	1	-0.50%
6 CALGARY	568	ENMX5S 7	138	1	-0.50%
6 CALGARY	569	ENMX3S 7	138	1	-0.51%
6 CALGARY	567	ENMX1S 7	138	1	-0.51%
6 CALGARY	588	ENMX8S 7	138	1	-0.51%
38 CAROLINE	882	SCHRA TP	138	1	-0.51%
38 CAROLINE	385	SHELL SC	138	1	-0.51%
6 CALGARY	596	ENMX7S7	138	1	-0.52%
6 CALGARY	583	ENMX32S7	138	1	-0.53%
6 CALGARY	566	ENMX20S7	138	1	-0.53%
6 CALGARY	587	ENMX6S7	138	1	-0.53%
6 CALGARY	571	ENMX43S7	138	1	-0.55%
6 CALGARY	594	ENMX33S7	138	1	-0.58%
19 PEACE RI	1053	RING CK7	138	1	-0.58%
6 CALGARY	591	ENMX40S7	138	1	-0.58%
6 CALGARY	5550	22.1TR	138	1	-0.59%
6 CALGARY	592	ENMX41S7	138	1	-0.59%
6 CALGARY	564	ENMX36S7	138	1	-0.60%
6 CALGARY	555	ENMX14S7	138	1	-0.62%
6 CALGARY	6550	22.3TR	138	1	-0.63%
52 VAUXHALL	277	WESTFLD7	138	1	-0.63%
19 PEACE RI	10053	853S701T	138	1	-0.66%
6 CALGARY	5571	43.1TR	138	1	-0.67%
6 CALGARY	6571	43.2TR	138	1	-0.70%
26 SWAN HIL	10272	824S701T	138	1	-0.72%
39 DIDSBUY	121	OLDS 7	138	1	-0.75%
44 SEEBE	444	SPRINGB7	138	1	-0.77%
18 HIGH LEV	1020	HIGH LV7	138	1	-0.77%
18 HIGH LEV	1038	OSB-TAP7	138	1	-0.79%
18 HIGH LEV	1039	MELITO7	138	1	-0.79%
28 COLD LAK	795	LINDB TP	138	1	-0.79%
28 COLD LAK	10444	969ST1	138	1	-0.79%
28 COLD LAK	1444	LINDBER7	138	1	-0.79%
38 CAROLINE	890	AMOCO TP	138	1	-0.80%
37 PROVOST	220	HAYTER 7	138	1	-0.85%
38 CAROLINE	881	RAVEN TP	138	1	-0.85%
38 CAROLINE	370	SHELL C7	138	1	-0.86%
18 HIGH LEV	10020	786S701T	138	1	-0.88%
26 SWAN HIL	1243	EDITH L7	138	1	-0.88%
38 CAROLINE	382	SHELL RA	138	1	-0.89%
17 RAINBOW	1036	KEG RVR7	138	1	-0.90%
19 PEACE RI	1052	HAMBURG7	138	1	-0.91%
19 PEACE RI	10052	855S701T	138	1	-0.96%
44 SEEBE	900	JUMP TP1	138	1	-0.98%
18 HIGH LEV	1022	BLUMNOR7	138	1	-0.99%
44 SEEBE	925	JUMP TP2	138	1	-1.01%
44 SEEBE	201	JUMPPND7	138	1	-1.01%
23 VALLEYVI	1163	L. SMOKY	240	1	-1.01%
13 LLOYDMIN	1383	VERMILO7	138	1	-1.02%
44 SEEBE	199	SHELL J7	138	1	-1.02%
18 HIGH LEV	11020	786S702T	138	1	-1.03%
23 VALLEYVI	1180	GOOSE R7	138	1	-1.03%
18 HIGH LEV	10022	832S701T	138	1	-1.03%
17 RAINBOW	1044	KEMP RV7	138	1	-1.08%
13 LLOYDMIN	10383	710S701T	138	1	-1.11%
17 RAINBOW	10044	797S701T	138	1	-1.12%
39 DIDSBUY	123	DIDSBUY	138	1	-1.12%
26 SWAN HIL	10243	739S701T	138	1	-1.19%
19 PEACE RI	1080	WESLY C4	240	1	-1.20%
44 SEEBE	211	MOUNT A7	138	1	-1.22%
38 CAROLINE	205	AMOCO R7	138	1	-1.22%

Area	Bus Number	Bus Name	Bus kV	Type	LF
39 DIDSBURY	957	166L JNC	138	1	-1.24%
39 DIDSBURY	126	SHELL H7	138	1	-1.26%
44 SEEBE	170	COCHRAN7	138	1	-1.26%
19 PEACE RI	1082	WESLY C7	138	1	-1.27%
19 PEACE RI	11080	834S902T	240	1	-1.27%
19 PEACE RI	10080	834S901T	240	1	-1.27%
13 LLOYDMIN	862	PV-TAP7	138	1	-1.28%
39 DIDSBURY	982	MADDEN T	138	1	-1.29%
38 CAROLINE	883	EAGLE TP	138	1	-1.29%
38 CAROLINE	107	SUNDRE 7	138	1	-1.29%
23 VALLEYVI	11163	813S902T	240	1	-1.31%
23 VALLEYVI	10163	813S901T	240	1	-1.31%
39 DIDSBURY	124	HARMATT7	138	1	-1.32%
23 VALLEYVI	1164	L.SMOKY7	138	1	-1.33%
23 VALLEYVI	1165	STURGEO7	138	1	-1.33%
13 LLOYDMIN	1377	IRISH C7	138	1	-1.33%
38 CAROLINE	386	SHELL EA	138	1	-1.33%
13 LLOYDMIN	1314	BRIKER1	138	1	-1.35%
44 SEEBE	950	742L JCT	138	1	-1.39%
44 SEEBE	169	CAN CEM7	138	1	-1.39%
44 SEEBE	285	BAYMAG	138	1	-1.41%
19 PEACE RI	1090	MEIKLE1	138	1	-1.42%
44 SEEBE	965	54L JNC	138	1	-1.42%
19 PEACE RI	1050	HOTCHKS7	138	1	-1.44%
44 SEEBE	283	CANMORE7	138	1	-1.45%
19 PEACE RI	1284	NARROWS	138	1	-1.46%
39 DIDSBURY	122	MADDEN 7	138	1	-1.47%
19 PEACE RI	1083	CARMON 7	138	1	-1.49%
22 GRANDE C	10147	740S702T	138	1	-1.50%
22 GRANDE C	1149	KAKWA1	138	1	-1.53%
23 VALLEYVI	1155	VALLEYV7	138	1	-1.55%
46 HIGH RIV	239	OKOTOKS7	138	1	-1.56%
19 PEACE RI	10050	788S701T	138	1	-1.62%
23 VALLEYVI	10155	794S701T	138	1	-1.63%
44 SEEBE	923	W.CASC T	138	1	-1.66%
22 GRANDE C	11147	740S703T	138	1	-1.67%
46 HIGH RIV	886	MAG TAP7	138	1	-1.67%
46 HIGH RIV	240	MAGCAN 7	138	1	-1.67%
22 GRANDE C	1170	SIMONET7	138	1	-1.69%
44 SEEBE	64	BANFF 7	138	1	-1.75%
46 HIGH RIV	242	HIGH RI7	138	1	-1.79%
23 VALLEYVI	10165	734S701T	138	1	-1.80%
13 LLOYDMIN	1455	LLOYD 7	138	1	-1.81%
13 LLOYDMIN	1393	HILL 7	138	1	-1.84%
38 CAROLINE	257	LIMESTO7	138	1	-1.85%
13 LLOYDMIN	10393	751S701T	138	1	-1.91%
46 HIGH RIV	960	HART TAP	138	1	-2.08%
46 HIGH RIV	243	HARTELL7	138	1	-2.08%
23 VALLEYVI	1151	TAP7L487	138	1	-2.11%
13 LLOYDMIN	11393	751S702T	138	1	-2.14%
46 HIGH RIV	238	BLACK D7	138	1	-2.15%
19 PEACE RI	1055	CADOTTE7	138	1	-2.20%
19 PEACE RI	10055	783S701T	138	1	-2.24%
23 VALLEYVI	1153	TRIANGL7	138	1	-2.25%
19 PEACE RI	1150	DONNELL7	138	1	-2.33%
19 PEACE RI	1085	PEACE RV	138	1	-2.35%
19 PEACE RI	10085	793S701T	138	1	-2.44%
19 PEACE RI	1075	SEAL LK7	138	1	-2.48%
19 PEACE RI	10075	SEAL LK6	138	1	-2.53%
19 PEACE RI	1060	NORCEN 7	138	1	-2.66%
22 GRANDE C	1144	DOME CU7	138	1	-2.69%
19 PEACE RI	1065	LUBICON7	138	1	-2.72%
19 PEACE RI	1285	NIPISI 7	138	1	-2.78%
19 PEACE RI	10060	812S701T	138	1	-2.82%
19 PEACE RI	10285	796S701T	138	1	-2.84%
22 GRANDE C	10144	810S701T	138	1	-2.86%
22 GRANDE C	11144	810S702T	138	1	-2.86%
19 PEACE RI	11285	796S702T	138	1	-2.87%
19 PEACE RI	1070	CRANBER7	138	1	-2.89%
19 PEACE RI	249	878S	138	1	-3.09%
20 GRANDE P	1143	BIG MTN7	138	1	-4.16%
20 GRANDE P	1142	BEARCK1	138	1	-4.20%
20 GRANDE P	1138	BCTAP	138	1	-4.20%
20 GRANDE P	1140	P&G 7	138	1	-4.20%
20 GRANDE P	1137	AWTAP	138	1	-4.20%

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20 GRANDE P	1139	ALBRIGHT	138	1	-4.21%
19 PEACE RI	1105	FRIEDEN7	138	1	-4.34%
19 PEACE RI	10205	800S702T	138	1	-4.38%
19 PEACE RI	10105	800S701T	138	1	-4.39%
20 GRANDE P	825	CGETAP	138	1	-4.46%
20 GRANDE P	1160	BEZANSON	138	1	-4.73%
20 GRANDE P	1126	FLYINGS7	138	1	-4.73%
20 GRANDE P	10126	749S701T	138	1	-4.73%
19 PEACE RI	1102	BOUCH C7	138	1	-4.83%
19 PEACE RI	10102	829S701T	138	1	-4.85%
20 GRANDE P	10160	862S701T	138	1	-4.99%
20 GRANDE P	1121	CRYST L7	138	1	-5.16%
20 GRANDE P	10121	722S701T	138	1	-5.22%
20 GRANDE P	11121	722S702T	138	1	-5.23%
20 GRANDE P	1110	MERC TAP	138	1	-5.43%
20 GRANDE P	1117	CLAIR L	138	1	-5.47%
20 GRANDE P	1132	WAP JCT7	138	1	-5.47%
20 GRANDE P	1109	MERCER 7	138	1	-5.52%
20 GRANDE P	1135	WAPITI 7	138	1	-5.62%
20 GRANDE P	10135	823S701T	138	1	-5.74%
20 GRANDE P	1100	RYCROFT7	138	1	-5.98%
20 GRANDE P	10100	730S701T	138	1	-6.15%
20 GRANDE P	1123	SADHL TP	138	1	-6.67%
20 GRANDE P	10118	790S701T	138	1	-6.75%
20 GRANDE P	1124	SADDLE 7	138	1	-6.96%
20 GRANDE P	1114	UPDIKE1	138	1	-6.98%
20 GRANDE P	1119	GOODFAR7	138	1	-6.98%
20 GRANDE P	1104	KSIT RV7	138	1	-7.03%