

AESO AIES 2017 Transmission Bus Loss Factors

2017 Non-Binding Loss Factors - Scenario D: With south of Calgary wind increased by 500 MW of installed capacity

1	The loss factor values listed are determined at buses with base voltage of 138kV or above, and are illustrative only
2	The loss factor calculation does not include an assessment for voltage or congestion criteria
3	For accuracy, a full study for each proposed generator would be required and the loss factor calculated accordingly
4	Please refer to the AESO facility map for Area definitions
5	Bus kV of a fictitious bus is assigned as the highest Bus kV of the buses they represent for convenience of presentation
6	BC and SK intetie loss factors are not included as they have been presented in the original 2017 5th year loss factor posting

Area	Bus Number	Bus Name	Bus kV	LF
36 ALLIANCE	1491	BAT. RV7	138	6.37%
36 ALLIANCE	13491	757S702T	138	6.37%
36 ALLIANCE	14491	757S705T	138	6.37%
36 ALLIANCE	10491	757S701T	138	6.01%
43 SHEERNES	759	WINTHV	138	6.01%
36 ALLIANCE	1469	BAT RV79	240	5.92%
4 MEDICINE	294	TOTHILL1	138	5.91%
42 HANNA	1435	HALKIRK1	240	5.88%
43 SHEERNES	1484	ANDERSO4	240	5.86%
43 SHEERNES	1485	ANDERSON	138	5.84%
43 SHEERNES	10484	801S901T	240	5.83%
43 SHEERNES	1460	WINT HI7	138	5.83%
43 SHEERNES	10482	807S904T	240	5.77%
43 SHEERNES	1481	SHEER 14	240	5.77%
43 SHEERNES	1486	SHEER 24	240	5.77%
43 SHEERNES	10487	807S905T	240	5.77%
42 HANNA	10447	963S_M	240	5.72%
4 MEDICINE	839	600AL TA	138	5.72%
42 HANNA	10426	HANNA 6B	138	5.71%
43 SHEERNES	1463	BULLPON7	138	5.71%
4 MEDICINE	284	BUTTE7	138	5.69%
42 HANNA	1421	963_LV	138	5.68%
42 HANNA	1440	946S_HV	240	5.68%
43 SHEERNES	1431	SWITCH_H	240	5.67%
42 HANNA	1447	963S_HV	240	5.66%
36 ALLIANCE	1489	BAT RV80	240	5.64%
42 HANNA	1499	CORDEL 4	240	5.64%
43 SHEERNES	10460	804S701T	138	5.58%
43 SHEERNES	10485	801S701T	138	5.52%
42 HANNA	1426	HANNA 6	138	5.51%
43 SHEERNES	10463	803S701T	138	5.46%
53 FORT MAC	10418	ARD_TM1	138	5.38%
36 ALLIANCE	1007	HEIS_TP8	138	5.37%
36 ALLIANCE	1464	HEISLER7	138	5.36%
42 HANNA	11438	959S_MA	240	5.34%
42 HANNA	10438	959S_M	240	5.34%
42 HANNA	19438	959S_LV	138	5.34%
42 HANNA	1438	959S_HV	240	5.33%
42 HANNA	857	KSP4	138	5.33%
36 ALLIANCE	10464	764S701T	138	5.32%
42 HANNA	1459	EXCEL7	138	5.32%
42 HANNA	1474	OYEN 7	138	5.25%
36 ALLIANCE	1403	PAINTRT4	240	5.25%
37 PROVOST	1349	ARMIT7	138	5.24%
42 HANNA	10448	802S701T	138	5.12%
42 HANNA	1448	MICH. C7	138	5.12%
4 MEDICINE	531	WILDRO1	240	5.09%
4 MEDICINE	10132	547ST1_M	240	5.06%
4 MEDICINE	10134	547ST2_M	240	4.96%
4 MEDICINE	680	SOUTHRI9	138	4.95%
4 MEDICINE	271	BULLS H7	138	4.93%
42 HANNA	1419	932_HVA	240	4.91%
53 FORT MAC	10328	MACLEOD8	138	4.91%
42 HANNA	19419	932_LV	138	4.88%
42 HANNA	1471	MONITOR7	138	4.87%
18 HIGH LEV	1013	WIND01	138	4.84%
42 HANNA	11419	932S_MA	240	4.83%
42 HANNA	10419	932S_M	240	4.83%
53 FORT MAC	739	ARD_01	138	4.81%
42 HANNA	10474	767S701T	138	4.81%
4 MEDICINE	462	WR2WF1	240	4.80%

Area	Bus Number	Bus Name	Bus kV	LF
42 HANNA	1410	CURR_TAP	138	4.79%
47 BROOKS	225	WARE_JCT	240	4.78%
4 MEDICINE	10064	274ST1_M	240	4.78%
42 HANNA	1458	LOYALIS7	138	4.78%
32 WAINWRIG	78	SEDGEWI7	138	4.76%
42 HANNA	10471	774S701T	138	4.75%
37 PROVOST	1446	CURRANT7	138	4.69%
53 FORT MAC	10417	ARD_TM2	138	4.69%
37 PROVOST	649	HANSMAN7	240	4.68%
37 PROVOST	87	METIS644	240	4.68%
4 MEDICINE	10065	274ST2_M	240	4.68%
4 MEDICINE	477	ELKWATR1	240	4.67%
55 GLENWOOD	631	ACCNDAY_	138	4.66%
4 MEDICINE	659	EASTMEDH	138	4.65%
32 WAINWRIG	1427	NILREM3	240	4.60%
53 FORT MAC	5340	SUM12	138	4.57%
4 MEDICINE	669	MEDHAT2	240	4.55%
42 HANNA	1436	954S_HV	138	4.55%
37 PROVOST	648	HANSMAN9	138	4.55%
37 PROVOST	74	METIS647	138	4.53%
37 PROVOST	989	703ALTAP	138	4.53%
37 PROVOST	112	SUNKEN7	138	4.53%
53 FORT MAC	328	MACLEOD1	138	4.51%
4 MEDICINE	662	SUBD1	240	4.51%
42 HANNA	603	GHOSTPI1	138	4.51%
32 WAINWRIG	19427	NILREM5	138	4.47%
42 HANNA	1470	VETERAN7	138	4.46%
37 PROVOST	1425	EYRE_TAP	138	4.44%
18 HIGH LEV	1022	BLUMNOR7	138	4.42%
53 FORT MAC	358	SODER1	138	4.41%
47 BROOKS	430	W BROOK4	240	4.40%
47 BROOKS	918	CASS01	240	4.40%
32 WAINWRIG	483	TUCUMAN7	138	4.39%
53 FORT MAC	11328	MACLEO11	138	4.39%
47 BROOKS	1012	NEWELL2	240	4.39%
47 BROOKS	1618	NEWELL1	240	4.39%
47 BROOKS	1620	POI1	240	4.39%
47 BROOKS	1621	POI2	240	4.39%
42 HANNA	1477	RIBSTON1	138	4.38%
53 FORT MAC	748	608AL_TP	138	4.37%
42 HANNA	716	LAKESEN7	138	4.35%
32 WAINWRIG	73	HARDIST7	138	4.35%
37 PROVOST	809	EXPRESTP	138	4.34%
32 WAINWRIG	37	HRT EXP7	138	4.34%
32 WAINWRIG	715	CLIPP_TP	138	4.33%
32 WAINWRIG	484	CLIPPER7	138	4.33%
32 WAINWRIG	373	IPL HAR7	138	4.33%
42 HANNA	602	GHOSTPI3	138	4.32%
48 EMPRESS	260	JENNER 4	240	4.32%
47 BROOKS	276	W BROOK7	138	4.29%
37 PROVOST	1451	EYRE7	138	4.27%
48 EMPRESS	5260	JENNERE9	240	4.24%
18 HIGH LEV	10022	832S701T	138	4.23%
48 EMPRESS	6260	JENNER 9	240	4.23%
49 STAVELY	736	BSR_1	240	4.23%
37 PROVOST	75	HUGHEND7	138	4.21%
53 FORT MAC	901	MCBRIDE1	138	4.17%
42 HANNA	1433	3 HILLS7	138	4.16%
4 MEDICINE	611	SUBC_240	240	4.16%
55 GLENWOOD	293	STIRLIN7	138	4.16%
47 BROOKS	256	BROOKS 7	138	4.08%
48 EMPRESS	677	CYPRES2	240	4.08%
37 PROVOST	86	PROVOST7	138	4.07%
53 FORT MAC	652	SC1A	240	4.06%
53 FORT MAC	653	SC1B	240	4.06%
17 RAINBOW	20000	BC BORDE	138	4.04%
48 EMPRESS	6262	163ST1	240	4.03%
53 FORT MAC	336	SUMMER01	138	4.03%
48 EMPRESS	674	CYPRES1	138	4.02%
48 EMPRESS	5262	163ST2	240	4.02%
48 EMPRESS	1453	KSP_TAP	138	4.00%

Area	Bus Number	Bus Name	Bus kV	LF
53 FORT MAC	5339	SUMV11	138	3.99%
49 STAVELY	737	SW_SUB_1	240	3.97%
55 GLENWOOD	251	GARDN1	138	3.97%
48 EMPRESS	292	JENNER7	138	3.96%
53 FORT MAC	543	OLDMAN1	138	3.95%
53 FORT MAC	334	SUMMER04	138	3.95%
48 EMPRESS	267	DOVE EM7	138	3.92%
48 EMPRESS	266	EMPRESA7	138	3.92%
48 EMPRESS	53	SANDYPT7	138	3.92%
48 EMPRESS	5053	204ST1	138	3.92%
53 FORT MAC	837	SODGLTAP	138	3.92%
48 EMPRESS	111	SANDHIL7	138	3.91%
53 FORT MAC	402	KETTLES1	138	3.90%
48 EMPRESS	1452	CVD_TAP	138	3.90%
47 BROOKS	826	831A TAP	138	3.90%
47 BROOKS	445	CUTNG L7	138	3.90%
53 FORT MAC	722	WINDYTP	138	3.89%
48 EMPRESS	344	WARLOW7	138	3.88%
48 EMPRESS	911	EMPLIQTP	138	3.88%
55 GLENWOOD	451	MONTANA1	240	3.87%
48 EMPRESS	1454	BINDLOS7	138	3.87%
47 BROOKS	877	BASNTAP	138	3.86%
48 EMPRESS	1456	CAVDISH1	138	3.86%
42 HANNA	1429	948S_HV	138	3.85%
48 EMPRESS	263	EMP LIQ7	138	3.83%
53 FORT MAC	752	FIDLER02	138	3.83%
53 FORT MAC	409	KETTLES	138	3.82%
54 LETHBRID	869	CHIN CH	138	3.80%
47 BROOKS	250	DUCHESS7	138	3.79%
55 GLENWOOD	694	MAGRATH7	138	3.79%
55 GLENWOOD	794	MAGRATH9	138	3.79%
53 FORT MAC	230	OLDMAN D	138	3.79%
53 FORT MAC	536	HERITAG1	240	3.78%
53 FORT MAC	166	PEIGAN 7	138	3.77%
53 FORT MAC	751	FIDLER01	240	3.73%
56 VEGREVIL	76	IPPL ST7	138	3.72%
53 FORT MAC	221	CRR-W1	240	3.71%
54 LETHBRID	406	CHIN CH7	138	3.70%
53 FORT MAC	234	CASTRIV1	138	3.70%
53 FORT MAC	346	GOOSEL4	240	3.69%
47 BROOKS	943	MILO 1	240	3.68%
53 FORT MAC	296	GOOSEL7	138	3.68%
53 FORT MAC	224	PINCHER7	138	3.67%
54 LETHBRID	167	N LETHB4	240	3.67%
53 FORT MAC	823	725BL	138	3.63%
17 RAINBOW	12028	791S703T	138	3.63%
17 RAINBOW	1028	RBW LAK7	138	3.63%
53 FORT MAC	656	RUSSEL1	138	3.62%
47 BROOKS	399	BASSAN7	138	3.59%
17 RAINBOW	83	RBCUPIL7	138	3.58%
17 RAINBOW	1054	ARCENC1	138	3.56%
53 FORT MAC	165	PEIGAN 4	240	3.56%
17 RAINBOW	11028	791S702T	138	3.54%
42 HANNA	1422	NEVIS 4	240	3.54%
53 FORT MAC	229	170AL-TA	138	3.53%
54 LETHBRID	692	N LETHB7	138	3.48%
54 LETHBRID	691	LETH241S	138	3.44%
54 LETHBRID	419	ABG1_138	138	3.43%
17 RAINBOW	10028	791S701T	138	3.42%
54 LETHBRID	696	LETH146S	138	3.41%
55 GLENWOOD	233	DRYWOOD7	138	3.40%
42 HANNA	1423	NEVIS 7	138	3.38%
42 HANNA	10422	766S901T	240	3.37%
53 FORT MAC	4458	CHAPR2	240	3.35%
53 FORT MAC	237	FORT MA7	138	3.35%
54 LETHBRID	699	RIVERBN7	138	3.35%
54 LETHBRID	697	LETH593S	138	3.34%
17 RAINBOW	1023	SULPH PT	138	3.32%
42 HANNA	10423	766S701T	138	3.31%
53 FORT MAC	939	RVBD TAP	138	3.31%
54 LETHBRID	679	LETH111S	138	3.30%

Area	Bus Number	Bus Name	Bus kV	LF
54 LETHBRID	367	CHINOOK1	138	3.30%
17 RAINBOW	10023	828S701T	138	3.28%
42 HANNA	10769	769S701T	138	3.28%
54 LETHBRID	698	LETH674S	138	3.28%
54 LETHBRID	916	MONAR TP	138	3.28%
42 HANNA	1428	769_HVR	138	3.27%
40 LAKE WAB	132	SUNDANC7	138	3.25%
45 STRATHMO	333	QUENSTWN	138	3.24%
45 STRATHMO	758	200S138	138	3.24%
54 LETHBRID	400	MONARCH7	138	3.20%
17 RAINBOW	1026	ZAMA LK7	138	3.16%
54 LETHBRID	389	HILLRIDG	138	3.13%
40 LAKE WAB	135	SUNDANC4	240	3.10%
17 RAINBOW	11026	795S702T	138	3.07%
17 RAINBOW	10026	795S701T	138	3.06%
59 RUTH LAK	1200	RUTH LK4	240	3.06%
40 LAKE WAB	983	MARION T	138	3.05%
54 LETHBRID	690	COALDAL7	138	3.04%
40 LAKE WAB	302	MARION 7	138	3.03%
18 HIGH LEV	1020	HIGH LV7	138	3.01%
40 LAKE WAB	420	KEEPHIL4	240	2.99%
49 STAVELY	244	VULCAN 7	138	2.96%
40 LAKE WAB	865	1043L-X4	240	2.95%
49 STAVELY	279	STAVELEY	138	2.92%
18 HIGH LEV	1038	OSB-TAP7	138	2.87%
18 HIGH LEV	1039	MELITO7	138	2.87%
40 LAKE WAB	864	1043L-N4	240	2.81%
40 LAKE WAB	421	KEEPHIL5	240	2.80%
40 LAKE WAB	984	HIGHVL T	138	2.80%
40 LAKE WAB	459	ROSEVAL1	138	2.79%
40 LAKE WAB	500	KEEPHIL1	138	2.77%
40 LAKE WAB	423	KEEPHIL7	138	2.77%
40 LAKE WAB	897	GENESE T	138	2.77%
52 VAUXHALL	928	ENCH TAP	138	2.77%
40 LAKE WAB	431	KEEP_3	138	2.76%
49 STAVELY	235	STAVELY7	138	2.76%
17 RAINBOW	1018	BASSET 7	138	2.74%
40 LAKE WAB	525	GENESEE4	500	2.70%
54 LETHBRID	834	CHIN_CHT	138	2.69%
35 RED DEER	623	DCGEN_P1	500	2.68%
35 RED DEER	630	SUNNYB1	500	2.68%
40 LAKE WAB	8526	GENTC2A	500	2.67%
40 LAKE WAB	7526	GENTC1A	500	2.67%
37 PROVOST	814	KILRY TP	138	2.65%
40 LAKE WAB	526	GENESEE7	138	2.65%
40 LAKE WAB	133	WABAMUN4	240	2.65%
40 LAKE WAB	510	KEEPHIL3	500	2.64%
40 LAKE WAB	610	KEEPHIL2	500	2.63%
18 HIGH LEV	11020	786S702T	138	2.63%
40 LAKE WAB	134	WABAMUN7	138	2.52%
53 FORT MAC	642	SC1C	240	2.52%
53 FORT MAC	643	SC1D	240	2.52%
52 VAUXHALL	286	ENCHANT7	138	2.52%
32 WAINWRIG	297	WAINWRI7	138	2.50%
34 ABRAHAM	103	BIG HOR7	138	2.49%
17 RAINBOW	213	HAIGRIVE	138	2.49%
32 WAINWRIG	1490	JAROW TP	138	2.45%
32 WAINWRIG	72	JARROW 7	138	2.45%
47 BROOKS	275	TILLEY 7	138	2.39%
52 VAUXHALL	343	TABERW1	138	2.26%
40 LAKE WAB	964	WHITE TP	138	2.22%
60 EDMONTON	258	ELLERSLI	500	2.21%
45 STRATHMO	247	CAVALIER	138	2.19%
40 LAKE WAB	488	CHERHIL1	240	2.18%
17 RAINBOW	1034	CHINCHA7	138	2.18%
52 VAUXHALL	401	HAYS 7	138	2.17%
52 VAUXHALL	274	VAUXHAL7	138	2.17%
17 RAINBOW	10034	779S701T	138	2.17%
45 STRATHMO	5247	CAV T101	138	2.15%
60 EDMONTON	92	HS_240	240	2.12%
60 EDMONTON	2092	HS_138	138	2.07%

Area	Bus Number	Bus Name	Bus kV	LF
33 FORT SAS	273	HRTLAND	500	2.06%
33 FORT SAS	1614	HRTLAND	500	2.06%
33 FORT SAS	1615	HTHFIELD	500	2.06%
45 STRATHMO	340	NAMAKA 7	138	2.05%
6 CALGARY	158	LANGDON2	500	2.02%
45 STRATHMO	5251	WYNDHAM	138	1.99%
52 VAUXHALL	828	PURSPRW4	138	1.98%
45 STRATHMO	252	CARSELA7	138	1.94%
52 VAUXHALL	2400	HULL	138	1.89%
60 EDMONTON	359	ACHESON	138	1.86%
60 EDMONTON	512	DOVE 4	240	1.84%
4 MEDICINE	320	CHAPPIC7	138	1.83%
4 MEDICINE	645	ESTMEDH2	138	1.82%
52 VAUXHALL	272	TABER 7	138	1.81%
40 LAKE WAB	360	STONY P7	138	1.80%
60 EDMONTON	128	ELLERSLI	240	1.80%
60 EDMONTON	511	SUMMERS1	240	1.80%
60 EDMONTON	521	PETROLIA	240	1.79%
19 PEACE RI	1053	RING CK7	138	1.79%
45 STRATHMO	315	HUSSAR	138	1.79%
40 LAKE WAB	905	105S TAP	138	1.78%
40 LAKE WAB	723	BILBY 1	138	1.78%
40 LAKE WAB	364	CARVEL01	138	1.78%
30 DRAYTON	49	KEYSTON7	138	1.77%
27 ATHABASC	21	WESGEN 7	138	1.73%
6 CALGARY	159	LANGDON4	240	1.73%
57 AIRDRIE	485	HVDC_P1	240	1.73%
6 CALGARY	5159	102ST4	240	1.72%
52 VAUXHALL	291	CONRAD 7	138	1.72%
60 EDMONTON	428	SG_B1	138	1.70%
52 VAUXHALL	31	FINCAST7	138	1.70%
45 STRATHMO	254	GLEICHE7	138	1.70%
60 EDMONTON	518	ARGYLL E	240	1.68%
19 PEACE RI	10053	853S701T	138	1.68%
60 EDMONTON	509	ARGYLL W	240	1.68%
60 EDMONTON	506	BELLAMY4	240	1.66%
40 LAKE WAB	947	GAINTAP2	138	1.65%
40 LAKE WAB	437	TMPL2GA7	138	1.65%
45 STRATHMO	253	BLACKIE7	138	1.65%
6 CALGARY	5158	102ST1	240	1.65%
37 PROVOST	362	EDGERTO7	138	1.64%
17 RAINBOW	1036	KEG RVR7	138	1.63%
60 EDMONTON	24	SAUL_01	240	1.62%
35 RED DEER	155	BENALTO4	240	1.61%
37 PROVOST	219	KILLARN7	138	1.60%
60 EDMONTON	505	JASPER 4	240	1.59%
33 FORT SAS	341	HEARTLAN	240	1.59%
60 EDMONTON	2024	SAUL_02	138	1.57%
60 EDMONTON	955	PDMAKER1	240	1.56%
60 EDMONTON	91	NISKU 7	138	1.54%
60 EDMONTON	764	1058JOIN	240	1.54%
35 RED DEER	152	RED DEE4	240	1.54%
27 ATHABASC	19	WESGEN T	138	1.53%
35 RED DEER	99	BENALTO7	138	1.51%
31 WETASKIW	788	WOLFCREK	240	1.50%
6 CALGARY	640	FOOTHLL2	138	1.50%
45 STRATHMO	259	STRATHM7	138	1.50%
60 EDMONTON	513	LAMBTON4	240	1.50%
60 EDMONTON	893	908 TP	240	1.50%
60 EDMONTON	546	EAST IN2	240	1.50%
6 CALGARY	617	FOOTHLL1	240	1.48%
46 HIGH RIV	453	458S_240	240	1.48%
46 HIGH RIV	768	SB_240	240	1.48%
60 EDMONTON	891	904AL TP	240	1.48%
60 EDMONTON	545	EAST IN4	240	1.46%
60 EDMONTON	785	1059A TP	240	1.46%
31 WETASKIW	789	WOLFCRE2	138	1.45%
60 EDMONTON	137	N CALDE4	240	1.45%
31 WETASKIW	95	PONOKA 7	138	1.44%
60 EDMONTON	136	E EDMON4	240	1.43%
27 ATHABASC	16	FLATBUS7	138	1.43%

Area	Bus Number	Bus Name	Bus kV	LF
40 LAKE WAB	138	N BARRH4	240	1.40%
31 WETASKIW	81	BIGSTON4	240	1.40%
60 EDMONTON	514	CLOVERB4	240	1.39%
39 DIDSBURY	661	HAZLWOD1	240	1.38%
35 RED DEER	147	GAETZ 4	240	1.38%
6 CALGARY	160	JANET 4	240	1.38%
40 LAKE WAB	41	N BARRH7	138	1.37%
35 RED DEER	780	SYLV_138	138	1.37%
6 CALGARY	772	ENMX25S7	240	1.37%
19 PEACE RI	1052	HAMBURG7	138	1.36%
39 DIDSBURY	787	HAZLWOD2	138	1.36%
60 EDMONTON	218	BLACKMUD	138	1.36%
57 AIRDRIE	312	E CROSS7	138	1.33%
35 RED DEER	117	RED DE A	138	1.32%
35 RED DEER	118	RED DE B	138	1.32%
57 AIRDRIE	156	E CROSS4	240	1.32%
57 AIRDRIE	988	CROSSF T	240	1.32%
56 VEGREVIL	68	N HOLDE7	138	1.29%
60 EDMONTON	519	CASTLEDN	240	1.29%
19 PEACE RI	10052	855S701T	138	1.29%
31 WETASKIW	192	NELSON L	138	1.29%
39 DIDSBURY	639	JOHNSON1	240	1.29%
17 RAINBOW	1044	KEMP RV7	138	1.28%
60 EDMONTON	520	VICTORIA	240	1.28%
39 DIDSBURY	120	INNISFA7	138	1.27%
6 CALGARY	544	ENMX65S4	240	1.26%
60 EDMONTON	96	DEVON 7	138	1.25%
60 EDMONTON	40	N CALDE7	138	1.24%
60 EDMONTON	898	GENSTR T	138	1.24%
35 RED DEER	148	GAETZ 7	138	1.24%
60 EDMONTON	357	STALBE7	138	1.23%
17 RAINBOW	10044	797S701T	138	1.22%
30 DRAYTON	995	W.GRN TP	240	1.22%
30 DRAYTON	150	WILLES4	240	1.22%
22 GRANDE C	1147	HR MILN7	138	1.22%
33 FORT SAS	8443	681ST2	240	1.22%
33 FORT SAS	7443	681ST1	240	1.22%
33 FORT SAS	443	BANN_B1	240	1.22%
35 RED DEER	115	S RED DE	138	1.22%
35 RED DEER	465	TL138	138	1.21%
33 FORT SAS	43	SCOTF_4	138	1.20%
35 RED DEER	956	758L JCT	138	1.19%
35 RED DEER	664	PIPER CR	138	1.19%
22 GRANDE C	10147	740S702T	138	1.19%
60 EDMONTON	366	VISCOUNT	138	1.18%
4 MEDICINE	270	SUFFIEL7	138	1.18%
35 RED DEER	119	N RED D7	138	1.18%
39 DIDSBURY	790	JOHNSON2	138	1.17%
33 FORT SAS	61	UN CARB9	138	1.17%
46 HIGH RIV	239	OKOTOKS7	138	1.16%
46 HIGH RIV	886	MAG TAP7	138	1.16%
46 HIGH RIV	242	HIGH RI7	138	1.16%
46 HIGH RIV	240	MAGCAN 7	138	1.16%
33 FORT SAS	57	LAMOURE4	240	1.16%
6 CALGARY	570	ENMX65S7	138	1.15%
60 EDMONTON	549	INLANDCT	138	1.15%
33 FORT SAS	63	LAMOURE7	138	1.15%
6 CALGARY	207	JANET 7	138	1.15%
31 WETASKIW	374	BIGSTON7	138	1.13%
31 WETASKIW	804	803/804X	138	1.13%
33 FORT SAS	313	JOSEPH1	240	1.12%
35 RED DEER	97	ECKVILL7	138	1.12%
6 CALGARY	162	E CALGAR	240	1.11%
30 DRAYTON	56153	BRAZEAU	240	1.11%
52 VAUXHALL	269	BURDETT7	138	1.11%
35 RED DEER	383	NOVA ST1	138	1.09%
6 CALGARY	187	BEDDING1	240	1.09%
35 RED DEER	398	BROOKFLD	138	1.09%
27 ATHABASC	934	FLAT TAP	138	1.07%
33 FORT SAS	314	JOSEPH2	138	1.06%
33 FORT SAS	952	DIAM TAP	138	1.06%

Area	Bus Number	Bus Name	Bus kV	LF
33 FORT SAS	48	DIAM SH7	138	1.06%
31 WETASKIW	803	803/804N	138	1.05%
33 FORT SAS	62	SHERRIT7	138	1.04%
6 CALGARY	589	ENMX26S7	138	1.03%
27 ATHABASC	4	WESTLOC7	138	1.03%
52 VAUXHALL	277	WESTFLD7	138	1.03%
33 FORT SAS	771	AMELIA1	240	1.03%
35 RED DEER	975	COMINTAP	138	1.02%
33 FORT SAS	734	SHELL A1	138	1.02%
33 FORT SAS	735	SHELL TP	138	1.01%
6 CALGARY	5290	BALZ T1	138	1.01%
6 CALGARY	574	ENMX37S7	138	1.01%
60 EDMONTON	58	FORT SA7	138	1.00%
6 CALGARY	590	ENMX24S7	138	1.00%
6 CALGARY	290	BALZ COG	138	0.99%
35 RED DEER	387	COMINCO7	138	0.99%
60 EDMONTON	363	NW CARD7	138	0.99%
22 GRANDE C	1149	KAKWA1	138	0.98%
57 AIRDRIE	933	AIRD TAP	138	0.97%
60 EDMONTON	89	E EDMON7	138	0.97%
33 FORT SAS	750	761L_TP	138	0.96%
60 EDMONTON	540	CELANES7	138	0.96%
6 CALGARY	198	BALZAC 7	138	0.95%
60 EDMONTON	938	STEL TAP	138	0.95%
60 EDMONTON	303	STELCO 1	138	0.95%
60 EDMONTON	378	STELCO 2	138	0.95%
39 DIDSBUY	957	166L JNC	138	0.95%
6 CALGARY	127	BEDDING2	138	0.94%
33 FORT SAS	821	708ALTAP	138	0.94%
57 AIRDRIE	318	W CROSSF	138	0.94%
60 EDMONTON	56	IPPL ED7	138	0.94%
60 EDMONTON	110	IPL EDM7	138	0.94%
39 DIDSBUY	126	SHELL H7	138	0.93%
46 HIGH RIV	972	BIGROCK1	138	0.93%
37 PROVOST	220	HAYTER 7	138	0.93%
33 FORT SAS	732	SKARO138	138	0.92%
33 FORT SAS	7732	109ST1	138	0.92%
31 WETASKIW	93	WETASKI7	138	0.92%
33 FORT SAS	8732	109ST2	138	0.92%
33 FORT SAS	106	DEERLAN7	138	0.92%
40 LAKE WAB	26	ENTWIST7	138	0.92%
60 EDMONTON	125	YASAA7	138	0.91%
27 ATHABASC	5	CLYDE 7	138	0.91%
33 FORT SAS	391	ALBCHEM7	138	0.91%
6 CALGARY	577	ENMX23S7	138	0.90%
60 EDMONTON	55	GULF OI7	138	0.90%
60 EDMONTON	173	BRETV A7	138	0.90%
57 AIRDRIE	503	SUMMIT_7	138	0.89%
6 CALGARY	547	ENMX54S7	138	0.89%
33 FORT SAS	109	DEERLAN4	240	0.89%
33 FORT SAS	67	BRUDERH7	138	0.89%
33 FORT SAS	394	ASTOTIN	138	0.89%
6 CALGARY	579	ENMX31S7	138	0.88%
33 FORT SAS	50	RIVERSID	138	0.88%
6 CALGARY	161	SARCEE 4	240	0.88%
31 WETASKIW	440	TRUE WEL	138	0.87%
31 WETASKIW	899	TRUE W T	138	0.87%
60 EDMONTON	66	IOL 737L	138	0.87%
60 EDMONTON	718	WESWOOD	138	0.87%
39 DIDSBUY	121	OLDS 7	138	0.87%
6 CALGARY	6501	417S.2TR	138	0.86%
6 CALGARY	5501	417S.1TR	138	0.86%
6 CALGARY	501	ENMXBON	138	0.86%
6 CALGARY	585	ENMX9S 7	138	0.86%
6 CALGARY	208	ENMX2S 7	138	0.86%
33 FORT SAS	60	BEAMER 7	138	0.85%
6 CALGARY	573	ENMX38S7	138	0.84%
46 HIGH RIV	960	HART TAP	138	0.84%
46 HIGH RIV	243	HARTELL7	138	0.84%
57 AIRDRIE	729	SUMMITTP	138	0.84%
60 EDMONTON	970	746L JCT	138	0.84%

Area	Bus Number	Bus Name	Bus kV	LF
6 CALGARY	583	ENMX32S7	138	0.83%
35 RED DEER	113	BLACKFA7	138	0.83%
6 CALGARY	576	ENMX47S7	138	0.83%
57 AIRDRIE	425	NOSE CR7	138	0.83%
60 EDMONTON	515	BROADMO7	138	0.82%
60 EDMONTON	887	CAN L TP	138	0.79%
57 AIRDRIE	810	AMOCOTAP	138	0.79%
38 CAROLINE	104	STRACHA7	138	0.79%
35 RED DEER	388	ELLIS 7	138	0.78%
35 RED DEER	116	W LACOMB	138	0.78%
35 RED DEER	384	UC PRENT	138	0.78%
60 EDMONTON	438	CAN LIQ7	138	0.78%
60 EDMONTON	953	FIBE TAP	138	0.78%
6 CALGARY	581	ENMX12S7	138	0.78%
60 EDMONTON	537	FIBERGL7	138	0.77%
22 GRANDE C	11147	740S703T	138	0.77%
33 FORT SAS	961	746L JNC	138	0.77%
60 EDMONTON	931	746L NO	138	0.77%
46 HIGH RIV	238	BLACK D7	138	0.75%
6 CALGARY	601	2.83 TAP	138	0.74%
6 CALGARY	591	ENMX40S7	138	0.73%
35 RED DEER	114	LACOMBE7	138	0.73%
6 CALGARY	572	ENMX39S7	138	0.72%
33 FORT SAS	936	808L_TAP	138	0.72%
60 EDMONTON	209	BRETONA1	138	0.71%
30 DRAYTON	36	BRAZEAU7	138	0.71%
44 SEEBE	193	KANANAS7	138	0.69%
6 CALGARY	592	ENMX41S7	138	0.69%
6 CALGARY	202	SARCEE 7	138	0.69%
60 EDMONTON	987	CIL TAP7	138	0.69%
60 EDMONTON	541	ATP 4R 7	138	0.69%
60 EDMONTON	538	ATP 5R 7	138	0.68%
6 CALGARY	551	ENMX28S7	138	0.68%
6 CALGARY	20202	SARCEE M	138	0.68%
6 CALGARY	5161	SARCEE M	138	0.68%
39 DIDSBURY	982	MADDEN T	138	0.68%
19 PEACE RI	10080	834S901T	240	0.68%
19 PEACE RI	11080	834S902T	240	0.68%
19 PEACE RI	1082	WESLY C7	138	0.68%
19 PEACE RI	747	WT 144	138	0.68%
19 PEACE RI	1074	CC 240	240	0.68%
19 PEACE RI	1080	WESLY C4	240	0.67%
60 EDMONTON	47	SHERWOO7	138	0.66%
26 SWAN HIL	163	SAGITAW4	240	0.66%
57 AIRDRIE	295	DRYCREEK	138	0.66%
6 CALGARY	571	ENMX43S7	138	0.66%
6 CALGARY	568	ENMX5S 7	138	0.66%
6 CALGARY	594	ENMX33S7	138	0.65%
6 CALGARY	559	ENMX13S7	138	0.65%
6 CALGARY	567	ENMX1S 7	138	0.65%
44 SEEBE	171	SEEBE 7	138	0.65%
33 FORT SAS	948	808_BNDY	138	0.65%
6 CALGARY	588	ENMX8S 7	138	0.65%
60 EDMONTON	69	IOL 738L	138	0.64%
6 CALGARY	548	ENMX10S7	138	0.64%
6 CALGARY	569	ENMX3S 7	138	0.64%
60 EDMONTON	101	COOKING7	138	0.63%
44 SEEBE	216	BARRIER7	138	0.62%
6 CALGARY	587	ENMX6S7	138	0.62%
6 CALGARY	586	ENMX30S7	138	0.61%
6 CALGARY	550	ENMX22S7	138	0.59%
6 CALGARY	561	ENMX11S7	138	0.59%
19 PEACE RI	1090	MEIKLE1	138	0.59%
35 RED DEER	98	RIMBEY 7	138	0.58%
6 CALGARY	566	ENMX20S7	138	0.58%
29 HINTON/E	90	BICKERD4	240	0.57%
6 CALGARY	552	ENMX21S7	138	0.57%
19 PEACE RI	1050	HOTCHKS7	138	0.56%
31 WETASKIW	105	PIGEON 7	138	0.56%
44 SEEBE	211	MOUNT A7	138	0.55%
33 FORT SAS	59	REDWATE7	138	0.55%

Area	Bus Number	Bus Name	Bus kV	LF
57 AIRDRIE	177	AIRDRIE	138	0.54%
26 SWAN HIL	164	SAGITAW7	138	0.53%
33 FORT SAS	1420	WEASEL1	138	0.53%
6 CALGARY	5571	43.1TR	138	0.53%
31 WETASKIW	65	BARDO 7	138	0.51%
40 LAKE WAB	2	MAYERTH	138	0.50%
31 WETASKIW	356	BON GLE7	138	0.50%
6 CALGARY	6571	43.2TR	138	0.49%
39 DIDSBURY	122	MADDEN 7	138	0.48%
32 WAINWRIG	79	BUFFALO7	138	0.47%
33 FORT SAS	954	ABEE_01	138	0.47%
19 PEACE RI	1083	CARMON 7	138	0.47%
30 DRAYTON	1628	MOON LA7	138	0.47%
39 DIDSBURY	903	HARMAT1	138	0.47%
39 DIDSBURY	124	HARMATT7	138	0.47%
44 SEEBE	925	JUMP TP2	138	0.46%
6 CALGARY	596	ENMX7S7	138	0.46%
44 SEEBE	201	JUMPPND7	138	0.46%
44 SEEBE	444	SPRINGB7	138	0.45%
44 SEEBE	310	SPRAY S	138	0.45%
38 CAROLINE	100	ROCKY M7	138	0.44%
44 SEEBE	180	GHOST 7	138	0.42%
29 HINTON/E	88	BICKERD7	138	0.40%
28 COLD LAK	56789	MAHKESES	138	0.38%
44 SEEBE	184	BEARSPAW	138	0.38%
44 SEEBE	900	JUMP TP1	138	0.38%
44 SEEBE	195	RUNDLE S	138	0.38%
44 SEEBE	950	742L JCT	138	0.38%
44 SEEBE	169	CAN CEM7	138	0.38%
6 CALGARY	564	ENMX36S7	138	0.37%
60 EDMONTON	311	LEDUC1	138	0.37%
44 SEEBE	285	BAYMAG	138	0.36%
44 SEEBE	965	54L JNC	138	0.36%
26 SWAN HIL	298	ALB NEWS	240	0.35%
44 SEEBE	283	CANMORE7	138	0.34%
44 SEEBE	210	SJPC_TP	138	0.34%
44 SEEBE	217	SJP_CRK	138	0.33%
6 CALGARY	5550	22.1TR	138	0.33%
19 PEACE RI	10050	788S701T	138	0.33%
44 SEEBE	199	SHELL J7	138	0.33%
6 CALGARY	555	ENMX14S7	138	0.31%
26 SWAN HIL	8	WHI 3647	138	0.31%
30 DRAYTON	812	BUCK TAP	138	0.31%
31 WETASKIW	946	KING TAP	138	0.30%
31 WETASKIW	365	BUFORD 7	138	0.30%
30 DRAYTON	80	BUCKLAK7	138	0.30%
19 PEACE RI	1088	DAISHOW7	138	0.29%
6 CALGARY	6550	22.3TR	138	0.29%
40 LAKE WAB	888	106S TAP	138	0.29%
40 LAKE WAB	779	PADDLE R	138	0.29%
40 LAKE WAB	844	ASBNE TP	138	0.28%
40 LAKE WAB	44	FT ASBN7	138	0.28%
31 WETASKIW	433	QL138	138	0.27%
31 WETASKIW	142	KINGMAN7	138	0.27%
19 PEACE RI	1041	BC01	138	0.23%
26 SWAN HIL	52	BLUERIDG	138	0.22%
44 SEEBE	191	ANG COCH	138	0.18%
38 CAROLINE	882	SCHRA TP	138	0.18%
38 CAROLINE	385	SHELL SC	138	0.18%
22 GRANDE C	1170	SIMONET7	138	0.14%
30 DRAYTON	331	VIOL GR7	138	0.13%
26 SWAN HIL	9	WHITECO7	138	0.13%
13 LLOYDMIN	862	PV-TAP7	138	0.13%
44 SEEBE	923	W.CASC T	138	0.12%
22 GRANDE C	1144	DOME CU7	138	0.12%
44 SEEBE	175	CASCADE7	138	0.09%
31 WETASKIW	94	ERVICK 7	138	0.09%
29 HINTON/E	830	MARLBTAP	138	0.08%
29 HINTON/E	20	EDSON 7	138	0.07%
13 LLOYDMIN	1314	BRIKER1	138	0.05%
29 HINTON/E	415	MARLBOR1	138	0.05%

Area	Bus Number	Bus Name	Bus kV	LF
38 CAROLINE	890	AMOCO TP	138	0.02%
44 SEEBE	64	BANFF 7	138	0.02%
30 DRAYTON	38	BRAZ OUT	138	0.00%
44 SEEBE	170	COCHRAN7	138	0.00%
26 SWAN HIL	85	MILLAR 7	138	0.00%
38 CAROLINE	881	RAVEN TP	138	-0.01%
31 WETASKIW	70	CAMROSE7	138	-0.02%
38 CAROLINE	382	SHELL RA	138	-0.04%
26 SWAN HIL	1260	LOU CR.4	240	-0.08%
26 SWAN HIL	1111	MASK01	240	-0.09%
38 CAROLINE	370	SHELL C7	138	-0.14%
29 HINTON/E	395	NITON 7	138	-0.15%
23 VALLEYVI	1172	STURG_1	138	-0.16%
23 VALLEYVI	1163	L. SMOKY	240	-0.16%
13 LLOYDMIN	766	BAUERTAP	138	-0.18%
56 VEGREVIL	1367	VEGREVL7	138	-0.18%
13 LLOYDMIN	1113	BAUER1	138	-0.18%
23 VALLEYVI	11163	813S902T	240	-0.19%
23 VALLEYVI	10163	813S901T	240	-0.19%
23 VALLEYVI	1164	L.SMOKY7	138	-0.21%
23 VALLEYVI	1165	STURGE07	138	-0.21%
23 VALLEYVI	10165	734S701T	138	-0.22%
38 CAROLINE	883	EAGLE TP	138	-0.24%
38 CAROLINE	107	SUNDRE 7	138	-0.24%
26 SWAN HIL	1261	LOU CR.7	138	-0.26%
29 HINTON/E	397	PINEDAL7	138	-0.26%
26 SWAN HIL	1674	CC01	138	-0.27%
26 SWAN HIL	973	199A_TAP	138	-0.28%
26 SWAN HIL	11260	809S902T	240	-0.28%
26 SWAN HIL	10260	809S901T	240	-0.28%
38 CAROLINE	386	SHELL EA	138	-0.30%
19 PEACE RI	1076	7L12_TP	138	-0.32%
19 PEACE RI	1000	HV_144	138	-0.32%
22 GRANDE C	10144	810S701T	138	-0.33%
22 GRANDE C	11144	810S702T	138	-0.33%
56 VEGREVIL	10367	709S701T	138	-0.33%
30 DRAYTON	35	LODGEPO7	138	-0.35%
38 CAROLINE	205	AMOCO R7	138	-0.39%
23 VALLEYVI	1155	VALLEYV7	138	-0.40%
29 HINTON/E	913	G.ROBB T	138	-0.41%
26 SWAN HIL	1271	MORSE RV	138	-0.41%
26 SWAN HIL	1270	ESSO JU7	138	-0.42%
26 SWAN HIL	10270	785S701T	138	-0.42%
23 VALLEYVI	1180	GOOSE R7	138	-0.42%
19 PEACE RI	1085	PEACE RV	138	-0.43%
29 HINTON/E	910	OBED TAP	138	-0.45%
29 HINTON/E	141	DALEHUR7	138	-0.45%
29 HINTON/E	909	DALEH TP	138	-0.45%
29 HINTON/E	18	GULF RO7	138	-0.45%
29 HINTON/E	15	MTN COA7	138	-0.48%
26 SWAN HIL	1266	SARAH L7	138	-0.50%
26 SWAN HIL	1275	VIRGINI7	138	-0.50%
23 VALLEYVI	10155	794S701T	138	-0.51%
26 SWAN HIL	1272	FIELDGA7	138	-0.52%
29 HINTON/E	912	740L JNC	138	-0.54%
29 HINTON/E	324	COALSPU7	138	-0.54%
19 PEACE RI	10085	793S701T	138	-0.55%
29 HINTON/E	791	VISTAB1	138	-0.64%
28 COLD LAK	1301	FOSTERCK	138	-0.66%
28 COLD LAK	1351	NABIYE_5	138	-0.69%
13 LLOYDMIN	1455	LLOYD 7	138	-0.69%
29 HINTON/E	820	FICKL TP	138	-0.73%
26 SWAN HIL	10266	743S701T	138	-0.73%
29 HINTON/E	326	COAL VA7	138	-0.74%
29 HINTON/E	915	CHEV TP	138	-0.75%
29 HINTON/E	368	CHEVIOT1	138	-0.75%
21 HIGH PRA	1228	MIT S E.4	240	-0.76%
61 CHRISTIN	1162	WEMBY 4	240	-0.77%
24 FOX CREE	12	FOX CREE	138	-0.79%
13 LLOYDMIN	1383	VERMILO7	138	-0.82%
24 FOX CREE	412	BENBOW 7	138	-0.85%

Area	Bus Number	Bus Name	Bus kV	LF
24 FOX CREE	962	KAYBOBTP	138	-0.85%
24 FOX CREE	13	KAYBOB 7	138	-0.85%
29 HINTON/E	17	COLD CR7	138	-0.85%
24 FOX CREE	924	CH KGT T	138	-0.86%
24 FOX CREE	82	CHEVRON7	138	-0.86%
24 FOX CREE	411	CHEV KG7	138	-0.86%
29 HINTON/E	605	WATSON C	138	-0.88%
56 VEGREVIL	1366	WATT_TAP	138	-0.90%
56 VEGREVIL	1361	WATTLAKE	138	-0.90%
21 HIGH PRA	10228	732S901T	240	-0.90%
13 LLOYDMIN	1393	HILL 7	138	-0.91%
21 HIGH PRA	11228	732S902T	240	-0.92%
26 SWAN HIL	10272	824S701T	138	-0.92%
13 LLOYDMIN	1387	KITSCOT7	138	-0.93%
21 HIGH PRA	1229	MITSE.7	138	-0.93%
21 HIGH PRA	1234	OTAUWAW7	138	-0.94%
61 CHRISTIN	10162	2004ST1	240	-0.95%
20 GRANDE P	1132	WAP JCT7	138	-0.96%
26 SWAN HIL	1243	EDITH L7	138	-0.97%
24 FOX CREE	1175	FOX CRK7	138	-0.99%
13 LLOYDMIN	10393	751S701T	138	-0.99%
20 GRANDE P	1145	BRDGE C7	138	-1.01%
20 GRANDE P	1143	BIG MTN7	138	-1.02%
21 HIGH PRA	11234	729S702T	138	-1.02%
20 GRANDE P	1142	BEARCK1	138	-1.02%
20 GRANDE P	1138	BCTAP	138	-1.02%
38 CAROLINE	257	LIMESTO7	138	-1.03%
20 GRANDE P	10142	679STMP	138	-1.03%
21 HIGH PRA	1230	AEC MILL	138	-1.03%
20 GRANDE P	1137	AWTAP	138	-1.03%
20 GRANDE P	1139	ALBRIGHT	138	-1.04%
19 PEACE RI	1150	DONNELL7	138	-1.04%
21 HIGH PRA	1283	SLAVE L7	138	-1.04%
19 PEACE RI	1055	CADOTTE7	138	-1.07%
30 DRAYTON	815	TWP TAP7	138	-1.08%
23 VALLEYVI	1153	TRIANGL7	138	-1.09%
30 DRAYTON	215	TEX.W.P7	138	-1.09%
30 DRAYTON	813	ELKRIVTP	138	-1.11%
20 GRANDE P	1135	WAPITI 7	138	-1.11%
21 HIGH PRA	10230	844S701T	138	-1.11%
21 HIGH PRA	11230	844S702T	138	-1.11%
19 PEACE RI	10055	783S701T	138	-1.12%
30 DRAYTON	651	ELKRIVE7	138	-1.13%
21 HIGH PRA	1336	HIGHPR9	138	-1.13%
26 SWAN HIL	10243	739S701T	138	-1.14%
20 GRANDE P	825	CGETAP	138	-1.14%
30 DRAYTON	42	AMOCO BR	138	-1.16%
20 GRANDE P	1101	GPEP7	138	-1.18%
28 COLD LAK	1304	MAHNO1	138	-1.21%
30 DRAYTON	39	CYNTHIA7	138	-1.21%
20 GRANDE P	1126	FLYINGS7	138	-1.28%
20 GRANDE P	1140	P&G 7	138	-1.28%
20 GRANDE P	10118	790S701T	138	-1.29%
30 DRAYTON	51	W PEMBI7	138	-1.34%
20 GRANDE P	10135	823S701T	138	-1.35%
58 DOVER	10226	720S901T	240	-1.38%
20 GRANDE P	10126	749S701T	138	-1.38%
58 DOVER	1226	WABASCA4	240	-1.38%
20 GRANDE P	1120	LOWE1	138	-1.40%
56 VEGREVIL	1357	VILNA 7	138	-1.48%
56 VEGREVIL	1350	WHITBY 7	138	-1.49%
20 GRANDE P	1123	SADHL TP	138	-1.51%
58 DOVER	1280	BRINTO2	240	-1.52%
20 GRANDE P	1118	POPLAR 7	138	-1.52%
28 COLD LAK	1300	WOLF LK7	138	-1.56%
28 COLD LAK	1310	LEMING 7	138	-1.57%
28 COLD LAK	800	PRIM TAP	138	-1.57%
28 COLD LAK	1348	WHITFISH	240	-1.57%
28 COLD LAK	1312	MARG LK4	240	-1.57%
30 DRAYTON	330	P C BRA7	138	-1.58%
28 COLD LAK	1303	MAHIHKA7	138	-1.59%

Area	Bus Number	Bus Name	Bus kV	LF
28 COLD LAK	1309	BOURQUE	138	-1.62%
20 GRANDE P	1160	BEZANSON	138	-1.62%
28 COLD LAK	10312	826S901T	240	-1.64%
28 COLD LAK	1313	MARG LK7	138	-1.65%
28 COLD LAK	11312	826S902T	240	-1.65%
13 LLOYDMIN	11393	751S702T	138	-1.65%
20 GRANDE P	1121	CRYST L7	138	-1.68%
28 COLD LAK	1302	PRIM_25	138	-1.70%
20 GRANDE P	1124	SADDLE 7	138	-1.74%
20 GRANDE P	1110	MERC TAP	138	-1.81%
20 GRANDE P	1117	CLAIR L	138	-1.82%
20 GRANDE P	10121	722S701T	138	-1.85%
20 GRANDE P	1109	MERCER 7	138	-1.86%
20 GRANDE P	11121	722S702T	138	-1.90%
28 COLD LAK	1322	NORG_TP	138	-1.92%
28 COLD LAK	1340	NORB01	138	-1.93%
19 PEACE RI	1105	FRIEDEN7	138	-1.97%
58 DOVER	1602	LIVOCKPS	240	-1.98%
19 PEACE RI	10205	800S702T	138	-1.99%
28 COLD LAK	19348	WHIT_138	138	-2.01%
20 GRANDE P	10160	862S701T	138	-2.01%
20 GRANDE P	1134	ELMWORT7	138	-2.04%
19 PEACE RI	10105	800S701T	138	-2.04%
58 DOVER	1288	LIVOCK01	240	-2.04%
58 DOVER	10288	LIVOCK02	240	-2.04%
58 DOVER	18288	LIVOCK03	138	-2.04%
58 DOVER	1008	SALE01	138	-2.05%
58 DOVER	1006	GERMAIN1	138	-2.05%
19 PEACE RI	1060	NORCEN 7	138	-2.08%
20 GRANDE P	1119	GOODFAR7	138	-2.09%
28 COLD LAK	1320	ETHEL L7	138	-2.13%
28 COLD LAK	1319	MR01	138	-2.16%
28 COLD LAK	1315	LACOREY7	138	-2.18%
19 PEACE RI	1075	SEAL LK7	138	-2.18%
19 PEACE RI	1284	NARROWS	138	-2.19%
28 COLD LAK	1344	BONNY 7	138	-2.21%
28 COLD LAK	1346	BONN SVC	138	-2.21%
61 CHRISTIN	405	CONKLIN2	240	-2.25%
27 ATHABASC	7	BOYLE 7	138	-2.26%
27 ATHABASC	392	ALPAC1	138	-2.28%
19 PEACE RI	1102	BOUCH C7	138	-2.30%
56 VEGREVIL	1372	ST. PAU7	138	-2.31%
19 PEACE RI	10102	829S701T	138	-2.32%
27 ATHABASC	282	HEARTLAK	240	-2.35%
20 GRANDE P	1114	UPDIKE1	138	-2.35%
19 PEACE RI	10060	812S701T	138	-2.37%
28 COLD LAK	1318	7LA24_TP	138	-2.38%
13 LLOYDMIN	1377	IRISH C7	138	-2.38%
27 ATHABASC	10282	898ST1	240	-2.39%
27 ATHABASC	321	HEARTLAK	138	-2.39%
19 PEACE RI	10075	SEAL LK6	138	-2.41%
28 COLD LAK	10320	717S703T	138	-2.43%
59 RUTH LAK	1208	TARSLDB	240	-2.44%
28 COLD LAK	11344	700S702T	138	-2.46%
28 COLD LAK	1112	BEARTRA1	138	-2.46%
28 COLD LAK	795	LINDB_TP	138	-2.49%
59 RUTH LAK	1205	SYNC_UE6	240	-2.50%
28 COLD LAK	1332	GRND CTR	138	-2.51%
19 PEACE RI	1065	LUBICON7	138	-2.54%
61 CHRISTIN	879	SC240	240	-2.57%
61 CHRISTIN	2902	BCKSP_02	138	-2.57%
61 CHRISTIN	902	BCKSP_01	240	-2.57%
27 ATHABASC	1949	ILAKE_01	240	-2.59%
61 CHRISTIN	974	PIKE_01	240	-2.61%
27 ATHABASC	637	ALPACTAP	138	-2.63%
27 ATHABASC	308	FLATLK-2	138	-2.63%
61 CHRISTIN	2974	PIKE_02	138	-2.64%
27 ATHABASC	3	COLINTO7	138	-2.65%
61 CHRISTIN	920	ROUND01	240	-2.65%
27 ATHABASC	417	WAUP1	138	-2.66%
58 DOVER	1274	MACKAY2	240	-2.67%

Area	Bus Number	Bus Name	Bus kV	LF
61 CHRISTIN	714	GRISTTAP	138	-2.70%
61 CHRISTIN	200	UW_01	138	-2.70%
58 DOVER	1263	JOSLYN4	240	-2.70%
58 DOVER	1670	BWC01	240	-2.71%
58 DOVER	1669	AMRBUS01	240	-2.71%
58 DOVER	1626	AMRBUS04	240	-2.71%
61 CHRISTIN	878	JFISH01	240	-2.72%
19 PEACE RI	1070	CRANBER7	138	-2.73%
28 COLD LAK	1444	LINDBER7	138	-2.74%
27 ATHABASC	2949	ILAKE_02	138	-2.77%
27 ATHABASC	306	WINEFRE7	138	-2.77%
61 CHRISTIN	369	CHRISLK1	240	-2.78%
58 DOVER	666	DOVER	240	-2.78%
61 CHRISTIN	434	189_240	240	-2.78%
28 COLD LAK	10444	969ST1	138	-2.81%
61 CHRISTIN	10204	885ST1	240	-2.81%
27 ATHABASC	832	788_TP	138	-2.82%
27 ATHABASC	858	THOMP02	138	-2.83%
61 CHRISTIN	309	MCMILLA7	138	-2.84%
27 ATHABASC	1483	KIRBY1	138	-2.84%
59 RUTH LAK	10201	848S704T	138	-2.85%
27 ATHABASC	304	PLAMOND7	138	-2.86%
61 CHRISTIN	1227	CROWLK7	138	-2.87%
61 CHRISTIN	10227	CROWLK17	138	-2.88%
27 ATHABASC	305	LAC LA 7	138	-2.90%
59 RUTH LAK	1691	MOOSER01	240	-2.92%
59 RUTH LAK	1693	SS350_02	240	-2.92%
59 RUTH LAK	1692	SS350_01	240	-2.92%
59 RUTH LAK	1694	SS351_01	240	-2.92%
59 RUTH LAK	11200	848S902T	240	-2.94%
61 CHRISTIN	204	MCMILLA4	240	-2.94%
59 RUTH LAK	10200	848S901T	240	-2.94%
59 RUTH LAK	1236	MUSKEG7	240	-2.96%
19 PEACE RI	249	878S	138	-2.97%
61 CHRISTIN	348	LEISMER4	240	-3.00%
61 CHRISTIN	468	LEISMER7	138	-3.01%
58 DOVER	1262	HORUP9	240	-3.01%
20 GRANDE P	1100	RYCROFT7	138	-3.01%
58 DOVER	1800	ER_01	240	-3.02%
59 RUTH LAK	11201	848S703T	138	-3.04%
58 DOVER	1251	HORMIN9	240	-3.04%
58 DOVER	726	ADR3_01	240	-3.05%
58 DOVER	745	ADR4_01	240	-3.07%
59 RUTH LAK	1680	BITUMONT	240	-3.09%
59 RUTH LAK	1289	JACKPINE	240	-3.09%
58 DOVER	765	STONE_01	240	-3.11%
61 CHRISTIN	1655	DAWES240	240	-3.16%
61 CHRISTIN	1293	ALGAR-17	138	-3.18%
59 RUTH LAK	1610	MCCLE_01	240	-3.18%
59 RUTH LAK	1603	KEARL240	240	-3.18%
59 RUTH LAK	5603	T9901	240	-3.18%
59 RUTH LAK	6603	T9902	240	-3.18%
19 PEACE RI	1285	NIPISI 7	138	-3.19%
61 CHRISTIN	717	SURM_240	240	-3.20%
59 RUTH LAK	1202	RUTH LA7	138	-3.20%
61 CHRISTIN	799	CHARD_TP	138	-3.21%
61 CHRISTIN	1010	CHARD_01	138	-3.21%
61 CHRISTIN	1291	KR01	240	-3.23%
61 CHRISTIN	1241	LONGLK19	138	-3.23%
59 RUTH LAK	1402	SALTCR1	240	-3.26%
61 CHRISTIN	18291	KR03	138	-3.27%
61 CHRISTIN	10291	KR02	240	-3.27%
59 RUTH LAK	1277	BLK_FLY1	240	-3.27%
59 RUTH LAK	11402	977S901T	240	-3.27%
19 PEACE RI	10285	796S701T	138	-3.28%
61 CHRISTIN	1286	S-SHINE4	240	-3.30%
61 CHRISTIN	1276	S-SHINE1	240	-3.30%
59 RUTH LAK	1203	RUTH LK7	138	-3.30%
59 RUTH LAK	1405	SALTCR2	138	-3.30%
61 CHRISTIN	1411	WADDELL7	138	-3.31%
61 CHRISTIN	1625	DAWES138	138	-3.31%

Area	Bus Number	Bus Name	Bus kV	LF
61 CHRISTIN	144	ALGAR 7	138	-3.32%
19 PEACE RI	11285	796S702T	138	-3.33%
20 GRANDE P	10100	730S701T	138	-3.34%
61 CHRISTIN	1687	BOHN_01	138	-3.37%
61 CHRISTIN	1256	SL_01	138	-3.42%
59 RUTH LAK	1675	7LA47_TP	138	-3.43%
59 RUTH LAK	1686	DOGRIB01	138	-3.46%
61 CHRISTIN	1245	KINOSIS1	240	-3.46%
61 CHRISTIN	10245	KINOSIS5	240	-3.48%
59 RUTH LAK	1224	HANGSTO7	138	-3.49%
61 CHRISTIN	1242	KINOSIS2	138	-3.50%
61 CHRISTIN	1292	MEAD_144	138	-3.50%
61 CHRISTIN	11245	KINOSIS6	240	-3.50%
59 RUTH LAK	1627	7LA97_TP	138	-3.51%
59 RUTH LAK	1673	HALF_01	138	-3.51%
59 RUTH LAK	1282	WILL01	138	-3.64%
59 RUTH LAK	1239	GREGOIRE	138	-3.67%
61 CHRISTIN	179	MARIANA7	138	-3.69%
59 RUTH LAK	1222	PARS CR7	138	-3.70%
59 RUTH LAK	1622	TWR_RD1	138	-3.72%
61 CHRISTIN	10623	2060S701	138	-3.73%
61 CHRISTIN	10624	2060S702	138	-3.73%
58 DOVER	1290	HORSERV7	138	-3.73%
59 RUTH LAK	10239	883STRMP	138	-3.74%
61 CHRISTIN	1623	ENGSTRM1	138	-3.75%
61 CHRISTIN	1409	QUIGL1	138	-3.78%
61 CHRISTIN	1294	MARIA-17	138	-3.88%
61 CHRISTIN	1672	EL01	138	-3.91%
48 EMPRESS	262	DOME EM4	240	-3.96%
59 RUTH LAK	11222	718S702T	138	-3.97%
59 RUTH LAK	10222	718S701T	138	-3.97%
20 GRANDE P	1104	KSIT RV7	138	-4.23%