

TABLE 1A																									
RMERF, ALBERTA FRONT RANGES FALL COUNTS: PRINCIPAL SITES 1992-2020																									
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU
1992	33	280.38	0	0	194	3	194	36	136	3	0	29	0	16	2044	2	3	1	0	0	0	0	0	0	0
1993	55	474.8	0	2	455	13	217	46	82	5	0	47	1	59	4532	1	4	8	4	1	2	0	0	1	0
1994	83	737.24	0	1	370	8	210	40	32	15	1	63	0	42	3836	11	21	2	5	7	5	4	1	0	0
1995	82	671.7	0	9	378	37	309	39	11	9	2	71	0	69	3704	4	16	4	4	3	1	5	0	1	0
1996	83	701.52	0	6	297	20	219	42	9	27	0	59	1	65	3913	20	13	0	5	4	1	6	0	0	0
1997	85	858.1	0	4	607	66	589	39	11	0	1	100	1	210	3853	23	22	15	9	6	7	5	0	7	5
1998	95	850	1	5	317	30	152	44	32	20	1	131	2	89	3395	18	8	6	3	4	8	5	1	2	4
1999	101	1007.1	0	14	312	35	238	41	30	26	4	76	0	70	3475	7	12	13	6	1	15	3	1	2	13
2000	94	623.63	0	2	510	15	175	25	140	3	0	17	0	68	4587	1	12	2	1	1	7	0	1	1	6
2001	101	1112.3	0	9	448	15	291	41	118	5	1	109	0	56	3683	9	22	6	7	2	15	2	0	3	2
2002	14	83.75	0	0	54	4	35	12	4	0	0	1	0	10	1522	1	5	0	0	0	3	2	1	0	1
2003	82	896.87	0	11	276	17	198	46	61	6	3	62	0	34	3783	6	19	1	5	1	20	4	2	0	13
2004	96	1094.7	0	18	418	24	179	50	69	6	1	41	0	71	3774	14	13	9	14	4	19	2	5	1	20
2005	75	844.23	0	5	304	7	96	22	46	6	1	18	1	80	3949	2	7	3	2	3	16	2	2	2	10
2006	84	892.41	0	11	482	76	1247	220	154	10	2	283	1	141	4400	33	45	6	14	18	45	6	6	3	14
2007	100	1048	0	17	700	56	1219	191	166	13	1	188	4	83	5445	37	27	9	35	18	57	2	12	2	7
2008	95	1037	0	27	466	49	1452	235	245	20	3	209	1	97	5209	18	32	3	35	17	59	11	32	3	15
2009	103	1142.8	0	49	684	100	1015	302	136	45	7	195	10	85	4293	65	29	10	48	12	35	7	4	3	11
2010	55	577.18	0	4	165	6	67	15	34	1	0	44	1	23	3222	2	2	0	4	4	16	9	12	1	10
2011	55	590.77	0	3	137	2	113	33	42	0	0	28	0	41	3466	2	6	2	10	2	3	2	2	3	2
2012	52	530.09	0	2	128	6	63	10	30	1	0	26	0	61	2635	0	5	1	6	2	5	2	2	1	1
2013	51	516.85	0	1	95	7	97	18	25	0	0	20	0	32	2782	1	6	0	4	1	6	5	5	3	2
2014	56	583.4	0	5	157	17	96	20	35	5	0	53	0	48	2845	2	7	3	9	1	8	5	12	3	1
2015	57	599.5	0	1	188	14	255	31	43	6	0	30	1	59	3388	2	22	5	9	4	16	15	13	1	3
2016	56	577.05	0	5	213	9	133	11	32	5	1	27	1	24	2973	4	8	0	10	2	13	9	11	3	5
2017	51	532.67	0	2	190	6	82	18	30	1	0	29	1	29	3233	3	5	4	7	6	3	10	8	3	2
2018	53	536.29	0	3	217	7	69	7	37	1	1	27	0	36	2698	0	4	2	2	3	8	5	35	4	4
2019	53	532.4	0	1	148	7	57	8	41	0	0	11	1	14	2398	0	5	0	1	2	8	4	24	3	2
2020	53	552.55	0	6	207	14	104	22	69	4	2	68	0	26	2619	2	11	2	6	4	6	6	29	8	3
TOTAL	2053	20485	1	223	9117	670	9171	1628	1900	243	32	2062	27	1738	101656	288	391	117	265	133	407	138	221	64	156
L	MOUNT LORETTE																								
PM	PLATEAU MOUNTAIN																								
P-SL	PIITAISTAKIS-SOUTH LIVINGSTONE																								
TABLE 1B																									
RMERF, MOUNT LORETTE FALL COUNTS 1992-2020																									
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU

1992	33	280.38	0	0	194	3	194	36	136	3	0	29	0	16	2044	2	3	1	0	0	0	0	0	0		
1993	55	474.8	0	2	455	13	217	46	82	5	0	47	1	59	4532	1	4	8	4	1	2	0	0	1	0	
1994	83	737.24	0	1	370	8	210	40	32	15	1	63	0	42	3836	11	21	2	5	7	5	4	1	0	0	
1995	82	671.7	0	9	378	37	309	39	11	9	2	71	0	69	3704	4	16	4	4	3	1	5	0	1	0	
1996	83	701.52	0	6	297	20	219	42	9	27	0	59	1	65	3913	20	13	0	5	4	1	6	0	0	0	
1997*	85	37.25	0	2	10	1	38	4	2	1	0	2	0	10	164	0	3	0	1	0	6	0	0	0	2	
1998	95	850	1	5	317	30	152	44	32	20	1	131	2	89	3395	18	8	6	3	4	8	5	1	2	4	
1999	101	1007.1	0	14	312	35	238	41	30	26	4	76	0	70	3475	7	12	13	6	1	15	3	1	2	13	
2000	94	623.63	0	2	510	15	175	25	140	3	0	17	0	68	4587	1	12	2	1	1	7	0	1	1	6	
2001	101	1112.3	0	9	448	15	291	41	118	5	1	109	0	56	3683	9	22	6	7	2	15	2	0	3	2	
2002	14	83.75	0	0	54	4	35	12	4	0	0	1	0	10	1522	1	5	0	0	0	3	2	1	0	1	
2003	82	896.87	0	11	276	17	198	46	61	6	3	62	0	34	3783	6	19	1	5	1	20	4	2	0	13	
2004	96	1094.7	0	18	418	24	179	50	69	6	1	41	0	71	3774	14	13	9	14	4	19	2	5	1	20	
2005	75	844.23	0	5	304	7	96	22	46	6	1	18	1	80	3949	2	7	3	2	3	16	2	2	2	10	
2006*	32	355.25	0	3	89	7	200	27	29	5	0	23	0	80	2263	1	11	0	0	1	3	1	4	0	1	
2007*	25	249.5	0	0	64	3	48	29	10	1	0	10	0	2	1953	0	3	1	3	3	8	1	3	7	1	
2008*	30	314.4	0	1	66	7	25	10	18	3	0	4	0	12	2047	1	6	0	1	1	2	6	13	4	7	
2009*	46	492.33	0	4	100	5	57	10	25	1	0	18	0	16	2367	1	4	1	4	2	3	0	1	1	3	
2010	55	577.18	0	4	165	6	67	15	34	1	0	44	1	23	3222	2	2	0	4	4	16	9	12	1	10	
2011	55	590.77	0	3	137	2	113	33	42	0	0	28	0	41	3466	2	6	2	10	2	3	2	2	3	2	
2012	52	530.09	0	2	128	6	63	10	30	1	0	26	0	61	2635	0	5	1	6	2	5	2	2	1	1	
2013	51	516.85	0	1	95	7	97	18	25	0	0	20	0	32	2782	1	6	0	4	1	6	5	5	3	2	
2014	56	583.4	0	5	157	17	96	20	35	5	0	53	0	48	2845	2	7	3	9	1	8	5	12	3	1	
2015	57	599.5	0	1	188	14	255	31	43	6	0	30	1	59	3388	2	22	5	9	4	16	15	13	1	3	
2016	56	577.05	0	5	213	9	134	11	32	5	1	27	1	24	2973	4	7	0	11	2	13	9	11	3	5	
2017	51	532.67	0	2	190	6	82	18	30	1	0	29	1	29	3233	3	5	4	7	6	3	10	8	3	2	
2018	53	536.29	0	3	217	7	69	7	37	1	1	27	0	36	2698	0	4	2	2	3	8	5	35	4	4	
2019	53	532.4	0	1	148	7	57	8	41	0	0	11	1	14	2398	0	5	0	1	2	8	4	24	3	2	
2020	53	552.55	0	6	207	14	104	22	69	4	2	68	0	26	2619	2	11	2	6	4	6	6	29	8	3	
TOTAL	1804	16956	1	125	6507	346	4018	721	1272	166	18	1144	10	1242	87250	115	262	76	134	69	226	115	188	58	118	
1997*																										
2006-2009*																										

main count at Plateau Mountain

main count at Piitaistakis-South Livingstone

2661	
5480	
4674	
4676	
4707	
246	
4278	
4394	
5574	
4844	
1655	
4568	
4752	
4584	
2748	
2150	
2234	
2623	
3642	
3899	
2987	
3110	
3332	
4106	
3500	
3672	
3170	
2735	
3218	
104219	

TABLE 2																													
Mount Lorette, Alberta, fall 2020																													
September 20 to November 15 (53 days, 552.6 hours)																													
day																											PO	PA	
#	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL			
1	2019-09-20	12.5	0	0	1	0	2	0	1	0	2	2	0	0	31	0	0	0	0	0	2	0	1	0	0	42	LA	CL	
2	2019-09-21	12.75	0	2	2	1	7	1	5	0	0	1	0	0	50	0	0	0	0	0	1	0	0	0	0	70	GD	CHa	
3	2019-09-22	12.33	0	1	6	3	33	3	1	0	0	5	0	0	20	0	0	0	4	1	0	0	0	0	77	GH	DP		
4	2019-09-23	12.58	0	0	2	1	2	0	2	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	0	72	BWi	GW	
5	2019-09-24	12.25	0	0	1	0	4	1	3	0	0	0	0	0	23	1	1	0	0	0	0	0	0	0	0	34	GD	RR	
6	2019-09-25	11.67	0	0	2	0	1	0	1	0	0	3	0	1	76	0	1	0	0	0	0	1	0	0	0	86	CL	PkF	
7	2019-09-26	12.16	0	0	4	0	6	0	2	0	0	0	0	0	26	0	1	0	0	0	0	0	0	0	0	39	BWe	HU	
8	2019-09-27	12.5	0	0	2	2	2	1	0	3	0	2	0	1	45	0	0	0	0	0	0	0	0	1	0	59	LA	PkF	
9	2019-09-28	11.67	0	0	2	1	2	1	2	1	0	3	0	1	19	0	0	0	1	0	1	0	1	0	0	35	CL	GD	
10	2019-09-29	12.25	0	0	1	0	5	0	5	0	0	6	0	0	35	0	4	0	0	0	0	0	0	0	0	56	GH	DP	
11	2019-09-30	12.33	0	0	3	0	6	2	3	0	0	5	0	2	32	0	0	0	1	0	0	0	0	1	1	56	BWi	CHa	
	September	134.99	0	3	26	8	70	9	25	4	2	27	0	5	422	1	7	0	6	1	4	1	2	2	1	626			
12	2019-10-01	12	0	1	23	0	6	2	4	0	0	13	0	4	159	0	0	0	0	1	0	0	1	0	0	214	GD	JDu	
13	2019-10-02	12.5	0	0	1	0	1	1	0	0	0	1	0	0	27	0	0	0	0	0	0	0	0	0	1	32	JDu	CL	
14	2019-10-03	11.5	0	1	2	0	2	0	0	0	0	2	0	0	63	0	0	0	0	0	0	0	0	0	0	70	BWe	HU	
15	2019-10-04	12	0	0	1	0	3	0	0	0	0	1	0	0	92	0	0	0	0	0	0	0	2	1	0	100	LA	PkF	
16	2019-10-05	11.83	0	0	2	0	3	1	1	0	0	6	0	0	275	0	2	0	0	1	1	0	1	2	0	295	CL	GD	
17	2019-10-06	11.75	0	0	2	0	5	0	5	0	0	2	0	1	255	0	1	1	0	0	0	0	0	0	0	272	GH	DP	
18	2019-10-07	12.18	0	0	5	0	3	2	1	0	0	2	0	3	106	0	0	0	0	0	0	0	3	0	0	125	BWi	GW	
19	2019-10-08	11.25	0	0	6	0	1	1	5	0	0	0	0	0	152	1	0	0	0	0	0	0	0	1	0	167	GD	JDu	
20	2019-10-09	10.75	0	0	1	1	2	0	0	0	0	1	0	0	45	0	0	0	0	0	0	0	2	0	0	52	JDu	RR	
21	2019-10-10	10.33	0	0	1	0	1	0	3	0	0	0	0	0	95	0	0	0	0	0	0	0	2	0	0	102	BWe	SG	
22	2019-10-11	11	0	0	4	0	0	0	0	0	0	1	0	1	65	0	1	0	0	0	0	0	6	1	0	79	LA	PkF	
23	2019-10-12	11	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	GD	RR	
24	2019-10-13	5.25	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4	GH	DP	
25	2019-10-14	11.08	0	0	3	0	0	0	2	0	0	1	0	0	88	0	0	0	0	0	1	0	0	0	1	96	BWi	CL	
26	2019-10-15	11.25	0	1	9	0	0	3	3	0	0	1	0	5	203	0	0	0	0	1	0	0	0	0	0	226	GD	GW	
27	2019-10-16	5.58	0	0	0	0	0	0	2	0	0	2	0	0	12	0	0	0	0	0	0	0	0	0	0	16	CL	CHa	
28	2019-10-17	10.33	0	0	5	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	9	BWe		
29	2019-10-18	10	0	0	1	0	0	0	0	0	0	0	0	0	6	0	0	1	0	0	0	2	0	0	0	10	LA	PkF	
30	2019-10-19	10.33	0	0	8	0	1	0	2	0	0	0	0	3	86	0	0	0	0	0	0	0	0	0	0	100	CL	GD	
31	2019-10-20	10.67	0	0	2	0	0	0	1	0	0	2	0	1	160	0	0	0	0	0	0	0	0	0	0	166	DP	RR	
no	2019-10-21	NO OBSERVATION (WEATHER)																									no	BWi	CHa
32	2019-10-22	9.75	0	0	5	1	2	0	1	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	21	GD		
no	2019-10-23	NO OBSERVATION (WEATHER)																									no		
33	2019-10-24	9.83	0	0	21	0	0	0	1	0	0	1	0	0	21	0	0	0	0	0	0	0	3	0	0	47	BWe	AF	
34	2019-10-25	10	0	0	5	1	0	0	0	0	0	1	0	0	56	0	0	0	0	0	0	0	1	0	0	64	LA	PkF	
35	2019-10-26	10.5	0	0	2	0	0	0	0	0	0	1	0	0	40	0	0	0	0	0	0	0	0	0	0	43	CL	CHa	
36	2019-10-27	10.25	0	0	2	0	1	1	2	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	25	GH	DP	
37	2019-10-28	10.5	0	0	3	0	0	0	1	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	14	BWi	GW	
38	2019-10-29	8.5	0	0	1	1	0	2	1	0	0	1	0	0	24	0	0	0	0	0	0	0	0	1	0	31	GD	RR	
39	2019-10-30	8.75	0	0	5	0	0	0	1	0	0	0	0	0	29	0	0	0	0	0	0	0	2	0	0	37	CL	SG	
40	2019-10-31	10.16	0	0	5	1	2	0	2	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	24	BWe	AF	

TABLE 3																						
MOUNT LORETTE, FALL 2020																						
SUMMARY WEATHER																						
											% TIME											
											RIDGES		#	SITE								
TEMP											RIDGE-WIND		CLOUD	CLOUD	PRECIPITATION & NOTES				OBSCURED		migrant	
Day #			Max	Min	Direction	Velocity	Max%	Min%	type		East	West	raptors									
1	Sep	20	19	7	WSW-SW	M	90	20	Cu				42	HM								
2	Sep	21	15	7	WSW-SSW	M-S	100	10	Ci,As				70	HM								
3	Sep	22	14	-1	var	L-M	100	40	Cu,Ci	smoke haze in am	tr	10	77	HM								
4	Sep	23	13.5	1.5	SW-WSW	S-VS	100	80	Cu,As				72	HM								
5	Sep	24	14	6	SW	S-VS	70	40	Sc,Cu	light rain at 1800		10	34	HM								
6	Sep	25	10	8	WSW-SSW	S-VS	100	70	Cu,As	v light showers in pm		20	86	HM								
7	Sep	26	8	4	WSW-SW	M-S	90	50	Cu,Ac,Ci,Cs	rain 1450-1510 and 1645-1800	10	20	39	HM								
8	Sep	27	9	-3	WSW-SW	M-S	30	0	As				59	HM								
9	Sep	28	14	2	WSW-SW	S-VS	100	70	As,Cs,Cu				35	HM								
10	Sep	29	20	12	WSW-SW	M-S	90	20	Cu,Cs				56	HM								
11	Sep	30	15	7.5	var	L	100	0	Sc	cloudless after 1400	40	40	56	HM								
12	Oct	1	19	-8	WSW-SW	M-S	100	0	St,Cs,Ci	slight smoke haze			214	HM								
13	Oct	2	19	-2	var	L	80	0	Ci	smoke haze and Ci after 1700			32	HM								
14	Oct	3	21	1	SW-WSW	L-M	50	0	Cs,Cc				70	HM								
15	Oct	4	18	4	SW-WSW	M-S	100	20	As,Ac	smoke increasing in pm; showers after 1400			100	HM								
16	Oct	5	19	3	SW-WSW	M-S	80	0	Cu,As,Ci				295	HM								
17	Oct	6	18	15.5	SW-WSW	M-S	100	90	St,Cu	drizzle for most of the day	tr	40	272	HM								
18	Oct	7	14	7	S-WSW	L-M	100	70	Cu,St,Ci	light showers at 1200 and 1300	30	50	125	HM								
19	Oct	8	18	13	SW-WSW	M-S	100	70	Sc	smoke in am, light rain in pm		tr	167	HM								
20	Oct	9	14	3	SW-WSW	M-S	100	60	Cu,Sc,As,Ci	v light rain after 1500	tr	10	52	HM								
21	Oct	10	14	10	SW-WSW	S-VS	100	60	Cu,Ac,Ci,Cc,Cs				102	HM								
22	Oct	11	7.5	3	SW-WSW	M-S	100	20	Cu,Sc,Ac	snow 1100-1200, light snow after 1800	10	30	79	HM								
23	Oct	12	4	0	W-WSW	M-S	100	70	Sc	snow to 1100, then light snow for rest of day	90	100	3	HM								
24	Oct	13	1	-1	SW-WSW	M-S	100	100	Sc	Snow after 1100 (11 cm)	80	80	4	HM								
25	Oct	14	1.5	0	var	L-S	100	40	St,Cu	light snow to 1500	50	60	96	HM								
26	Oct	15	3	-5	SW-WSW	M-S	70	30	Cu,Ci				226	HM								
27	Oct	16	6	3	SW-ENE	S-L	100	80	St,Cu	cold front at 1130, move to LC to1405, snow	10	60	16	HM,LC								
28	Oct	17	-4	-8	C-var	C-L	100	90	Cu,Sc,Ci	snow to 1100	60	80	9	HM								
29	Oct	18	-6	-11	C-var	C-L	100	40	Cu,Sc	snow or light snow throughout	80	90	10	HM								
30	Oct	19	4	-10	SW-SSW	M-S	100	70	Cu,St,Cs	light rain at 1500 and 1600	10	50	100	HM								
31	Oct	20	3	-4	WSW-SSW	M-S	50	40	Cu		10	tr	166	HM								
no	Oct	21	-4	-5.5	ENE-NE	M	100	100	Sc	moderate to heavy snow all day	100	100	no									
32	Oct	22	-9	-13	NNE-SSW	C-L	100	60	Sc,Cu	periods of light snow to 1500	90	80	21	WC								
no	Oct	23			SSW-NE	C-M	100	100	Sc	light snow all day	100	100	no									
33	Oct	24	-11	-16	NNE-E	L-M	70	10	Cu,Ci	light snow to 1000	10	60	47	HM								
34	Oct	25	-2	-23	WNW-WSW	L-M	80	0	Ac,As	light mist in am, cloud after 1500			64	HM								
35	Oct	26	1	-8	SW-WSW	M-S	100	40	As,Cs				43	HM								
36	Oct	27	8	5	WSW-W	S-VS	100	40	Cu,As,Cs,St			10	25	HM								
37	Oct	28	7.5	-1	SW-WSW	M-S	100	70	Cu,St		tr	10	14	HM								
38	Oct	29	6	1	SSW-SW	M-S	100	80	Sc	periods of light rain throughout	20	50	31	HM								
39	Oct	30	7	4	SSW-WSW	S-VS	90	70	Cu,St	rain in am; showers and occ sleet in pm	10	80	37	LC,WC, HM								

TABLE 4																									
MOUNT LORETTE SUMMARY TOTALS, September 20 - November 15, 1993-1996, 1998-2001, 2003-2005, 2009-2020																									
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU
1993	55	474.8	0	2	455	13	217	46	82	5	0	47	1	59	4532	1	4	8	4	1	2	0	0	1	0
1994	56	516.84	0	0	294	7	175	29	25	15	0	39	0	37	3788	2	15	2	5	4	1	2	1	0	0
1995	54	463.31	0	2	296	27	251	31	11	5	2	52	0	67	3591	4	12	3	4	2	1	3	0	1	0
1996	53	485.61	0	2	271	11	173	23	8	25	0	32	1	65	3881	8	9	0	5	2	0	4	0	0	0
1998	52	483.15	1	1	174	12	80	20	28	14	0	59	1	82	3209	8	2	5	5	1	6	2	0	1	3
1999	57	596.55	0	4	193	13	134	21	25	18	1	32	0	67	3302	1	6	5	8	1	5	1	1	2	7
2000	57	623.63	0	2	510	15	175	25	140	3	0	17	0	68	4587	1	12	2	2	1	7	0	1	1	6
2001	57	646.45	0	4	330	11	183	18	101	3	0	43	0	52	3592	2	9	5	6	0	4	2	0	3	0
2003	55	615.63	0	3	258	4	131	25	59	1	1	40	0	33	3744	3	8	1	5	1	11	2	2	0	10
2004	57	658.71	0	4	338	15	125	26	57	5	1	14	0	70	3610	2	8	9	11	4	10	1	4	1	16
2005	57	662.06	0	3	242	6	89	19	41	6	1	16	1	78	3821	2	3	1	2	3	14	2	2	2	8
2009	46	492.33	0	4	100	5	57	10	25	1	0	18	0	16	2367	1	4	1	4	2	3	0	1	1	3
2010	55	577.18	0	4	165	6	67	15	34	1	0	44	1	23	3222	2	2	0	4	4	16	9	12	1	10
2011	55	590.77	0	3	137	2	113	33	42	0	0	28	0	41	3466	2	6	2	10	2	3	2	2	3	2
2012	52	530.09	0	2	128	6	63	10	30	1	0	26	0	61	2635	0	5	1	6	2	5	2	2	1	1
2013	51	516.85	0	1	95	7	97	18	25	0	0	20	0	32	2782	1	6	0	4	1	6	5	5	3	2
2014	56	583.4	0	5	157	17	96	20	35	5	0	53	0	48	2845	2	7	3	9	1	8	5	12	3	1
2015	57	599.5	0	1	188	14	255	31	43	6	0	30	1	59	3388	2	22	5	9	4	16	15	13	1	3
2016	56	577.05	0	5	213	9	133	11	32	5	1	27	1	24	2973	4	8	0	10	2	13	9	11	3	5
2017	51	532.67	0	2	190	6	82	18	30	1	0	29	1	29	3233	3	5	4	7	6	3	10	8	3	2
2018	53	536.29	0	3	217	7	69	7	37	1	1	27	0	36	2698	0	4	2	2	3	8	5	35	4	4
2019	53	532.4	0	1	148	7	57	8	41	0	0	11	1	14	2398	0	5	0	1	2	8	4	24	3	2
2020	53	552.55	0	6	207	14	104	22	69	4	2	68	0	26	2619	2	11	2	6	4	6	6	29	8	3
TOTAL	1248	12848	1	64	5306	234	2926	486	1020	125	10	772	9	1087	76283	53	173	61	129	53	156	91	165	46	88
Av 93-19	54.32	558.88	0.04545	2.6364	231.8	10	128.3	21.09	43.23	5.5	0.36364	32	0.40909	48.23	3348.36	2.31818	7.3636	2.6818	5.591	2.2273	6.8182	3.8636	6.1818	1.7273	3.864
20 cf Av	-2.4	-1.1	-100.0	127.6	-10.7	40.0	-18.9	4.3	59.6	-27.3	450.0	112.5	-100.0	-46.1	-21.8	-13.7	49.4	-25.4	7.3	79.6	-12.0	55.3	369.1	363.2	-22.4
2009	Count ended Nov 9, but considered valid																								
1992	short reconnaissance count																								
1997	count at Plateau Mountain																								
2002	no systematic count																								
2006-08	anomalously low, short counts not included in table																								

T
5480
4441
4365
4520
3714
3847
5575
4368
4342
4331
4362
2623
3642
3899
2987
3110
3332
4106
3499
3672
3170
2735
3218
89338
3914.5455
-17.8

TABLE 5A																								
SEPTEMBER 20-30, SUMMARY TOTALS, MOUNT LORETTE (excluding 1992,1997,2002,2006,2007,2008)																								
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF
1993	10	102.59	0	2	31	6	98	37	7	0	0	40	1	10	1004	1	1	0	1	0	2	0	0	0
1994	11	108.4	0	0	11	1	100	15	6	1	0	21	0	0	218	2	8	0	1	3	1	0	0	0
1995	11	105.75	0	2	36	20	75	22	1	2	2	26	0	2	222	1	4	0	0	0	1	2	0	0
1996	10	89.99	0	2	13	3	103	13	1	17	0	19	1	2	131	6	4	0	4	0	0	1	0	0
1998	10	100.8	1	1	8	7	40	14	10	10	0	44	1	0	170	6	1	0	0	1	6	1	0	0
1999	11	110.1	0	3	5	7	47	11	1	2	1	22	0	2	278	1	4	2	0	0	2	1	0	0
2000	11	118.56	0	1	33	7	63	9	1	0	0	5	0	1	497	0	5	1	0	0	6	0	0	0
2001	11	133.98	0	4	25	3	52	9	2	0	0	18	0	3	363	1	5	0	2	0	1	1	0	1
2003	11	132.58	0	3	23	1	69	18	14	1	1	29	0	1	433	3	5	0	3	0	6	0	0	0
2004	11	141.66	0	4	29	11	76	18	22	1	0	9	0	5	954	1	2	0	6	1	1	1	2	0
2005	11	133.67	0	2	13	2	45	9	3	5	1	10	0	0	379	0	1	0	0	1	9	1	0	1
2009	11	133.27	0	3	10	3	38	7	11	0	0	15	0	3	355	1	0	0	0	2	0	0	0	0
2010	11	117.17	0	2	30	2	34	4	10	0	0	22	1	1	223	1	0	0	0	1	3	1	0	0
2011	11	134.57	0	1	11	2	25	3	3	0	0	5	0	1	169	2	0	0	4	0	1	0	0	0
2012	11	124.49	0	2	17	4	16	4	6	0	0	11	0	0	273	0	4	0	1	0	2	0	1	0
2013	10	112.76	0	1	10	2	12	4	5	0	0	12	0	0	162	0	2	0	2	0	2	1	1	0
2014	11	121.08	0	5	9	5	35	9	9	0	0	14	0	0	92	0	3	0	4	0	5	2	0	1
2015	11	126.42	0	0	14	4	73	4	14	1	0	5	1	1	611	1	4	1	3	2	6	4	3	0
2016	11	121.33	0	3	17	4	85	6	19	3	1	17	0	2	459	3	2	0	2	0	9	3	1	1
2017	10	120.59	0	1	28	2	44	9	10	1	0	15	0	3	276	0	2	0	3	0	1	2	2	0
2018	10	100.74	0	3	12	6	33	4	14	1	0	11	0	7	273	0	1	0	0	3	2	3	7	1
2019	9	88.73	0	1	8	3	9	3	3	0	0	4	0	1	236	0	3	0	0	0	2	2	1	2
2020	11	134.99	0	3	26	8	70	9	25	4	2	27	0	5	422	1	7	0	6	1	4	1	2	2
TOTAL	245	2714	1	49	419	113	1242	241	197	49	8	401	5	50	8200	31	68	4	42	15	72	27	20	9
Av 93-19	10.6	117.2	0.0	2.1	17.9	4.8	53.3	10.5	7.8	2.0	0.3	17.0	0.2	2.0	353.5	1.4	2.8	0.2	1.6	0.6	3.1	1.2	0.8	0.3
20 cf Av	3.4	15.1		43.5	45.5	67.6	31.4	-14.7	219.8	95.6	633.3	58.8		144.4	19.4	-26.7	152.5		266.7	57.1	29.4	-15.4	144.4	528.6
TABLE 5B																								
OCTOBER SUMMARY TOTALS, MOUNT LORETTE (excluding 1992,1997,2002,2006,2007)																								
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF
1993	30	263.81	0	0	342	6	119	9	60	5	0	7	0	46	3347	0	2	3	3	0	0	0	0	1
1994	30	284.8	0	0	187	5	75	14	14	14	0	16	0	22	3404	0	6	1	4	1	0	2	0	0
1995	29	254.32	0	0	125	6	174	8	8	3	0	25	0	51	3052	3	8	3	2	2	0	1	0	1
1996	31	313.63	0	0	193	8	70	10	5	8	0	13	0	63	3552	2	5	0	1	2	0	3	0	0
1998	30	287.45	0	0	95	4	40	4	10	3	0	14	0	61	2837	2	0	1	4	0	0	1	0	1
1999	31	336.1	0	1	126	6	85	10	21	15	0	9	0	58	2752	0	2	5	6	1	3	0	1	2
2000	31	353.4	0	1	337	7	112	15	110	3	0	12	0	65	3817	1	7	1	1	1	1	0	0	1
2001	31	354.4	0	0	208	8	126	9	66	3	0	23	0	48	2903	0	4	3	4	0	2	1	0	2
2003	30	342.47	0	0	150	3	60	5	42	0	0	11	0	31	3216	0	3	0	2	1	5	2	1	0
2004	31	358.14	0	0	175	3	49	8	34	4	1	5	0	63	2588	1	4	6	4	3	9	0	1	0
2005	31	369.4	0	1	188	4	44	10	32	1	0	6	1	73	3297	1	2	0	0	2	5	1	2	1
2008	30	314.4	0	1	66	7	25	10	18	3	0	4	0	12	2047	1	6	0	1	1	2	6	13	4

2009	29	307.24	0	1	77	2	19	3	13	1	0	2	0	13	1831	0	4	1	4	0	3	0	2	1
2010	29	318.48	0	2	78	4	27	8	16	1	0	21	1	20	2648	1	2	0	4	3	11	8	9	1
2011	29	324.12	0	1	90	0	84	28	38	0	0	21	0	31	3168	0	5	2	6	0	1	2	2	3
2012	28	287.85	0	0	50	1	45	6	20	1	0	13	0	56	2045	0	1	1	4	2	3	2	1	0
2013	29	300.09	0	0	60	5	82	14	19	0	0	8	0	32	2573	1	4	0	2	1	2	3	4	3
2014	30	324.49	0	0	95	12	56	10	26	5	0	37	0	39	2365	2	3	0	4	1	3	1	11	2
2015	31	340.08	0	1	131	10	179	25	28	5	0	25	0	41	2575	1	18	3	6	2	10	11	8	1
2016	30	312.82	0	2	91	5	42	3	9	2	0	9	1	17	1923	1	5	0	6	1	3	3	2	1
2017	29	305.68	0	1	126	4	37	9	17	0	0	14	1	24	2896	3	3	4	4	6	2	8	4	3
2018	28	298.49	0	0	150	1	33	3	20	0	1	16	0	28	2253	0	2	2	2	0	6	2	26	3
2019	30	321.9	0	0	118	4	48	5	32	0	0	7	1	12	2091	0	1	0	1	2	6	2	21	1
2020	29	300.82	0	3	126	5	34	13	38	0	0	39	0	21	2120	1	4	2	0	3	2	2	23	6
TOTAL	716	7574	0	15	3384	120	1665	239	696	77	2	357	5	927	65300	21	101	38	75	35	79	61	131	38
Av 93-19	29.9	318.6	0.0	0.5	132.5	5.0	68.7	9.9	27.2	3.3	0.1	14.1	0.2	39.1	2719.7	0.9	4.3	1.5	3.3	1.5	3.5	2.7	4.9	1.4
20 cf Av	-2.9	-5.6		450.0	-4.9	0.9	-50.5	31.8	39.8			175.9		-46.3	-22.0	10.0	-7.4	33.3	-100.0	106.3	-42.9	-25.4	368.5	325.8

TABLE 5C

NOVEMBER 1-15, SUMMARY TOTALS, MOUNT LORETTE (excluding 1992,1997,2002,2006,2007,2008,2009)

	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF
1993	15	108.4	0	0	82	1	0	0	15	0	0	0	0	3	181	0	1	5	0	1	0	0	0	0
1994	15	123.64	0	0	96	1	0	0	5	0	0	2	0	15	166	0	1	1	0	0	0	0	1	0
1995	14	103.24	0	0	135	1	2	1	2	0	0	1	0	14	317	0	0	0	2	0	0	0	0	0
1996	12	81.99	0	0	65	0	0	0	2	0	0	0	0	0	198	0	0	0	0	0	0	0	0	0
1998	12	94.9	0	0	69	1	0	2	4	0	0	1	0	17	201	0	1	1	1	0	0	0	0	0
1999	15	150.35	0	0	62	0	2	0	3	1	0	1	0	7	272	0	0	0	0	0	0	0	0	0
2000	15	151.67	0	0	140	1	0	1	23	0	0	0	0	2	273	0	0	0	0	0	0	0	1	0
2001	15	158.07	0	0	97	0	5	0	33	0	0	2	0	1	326	1	0	2	0	0	1	0	0	0
2003	14	140.58	0	0	85	0	2	2	3	0	0	0	0	1	95	0	0	1	0	0	0	0	1	0
2004	15	158.91	0	0	134	1	0	0	1	0	0	0	0	2	68	0	2	3	1	0	0	0	1	1
2005	15	158.99	0	0	41	0	0	0	6	0	0	0	0	5	145	1	0	1	2	0	0	0	0	0
2010	15	142.73	0	0	57	0	6	3	8	0	0	0	0	2	351	0	0	0	0	0	2	0	3	0
2011	15	132.08	0	1	36	0	4	2	1	0	0	2	0	9	129	0	1	0	0	2	1	0	0	0
2012	13	117.75	0	0	61	1	2	0	4	0	0	2	0	5	317	0	0	0	1	0	0	0	0	1
2013	12	104	0	0	25	0	3	0	1	0	0	0	0	0	47	0	0	0	0	0	2	1	0	0
2014	15	137.83	0	0	53	0	5	1	0	0	0	2	0	9	388	0	1	3	1	0	0	2	1	0
2015	15	133	0	0	43	0	3	2	1	0	0	0	0	17	202	0	0	1	0	0	0	0	2	0
2016	15	142.9	0	0	105	0	6	2	4	0	0	1	0	5	591	0	1	0	2	1	1	3	8	1
2017	12	106.4	0	0	36	0	1	0	3	0	0	0	0	2	61	0	0	0	0	0	0	0	2	0
2018	15	137.06	0	0	55	0	3	0	3	0	0	0	0	1	172	0	1	0	0	0	0	0	2	0
2019	14	121.74	0	0	22	0	0	0	6	0	0	0	0	1	71	0	1	0	0	0	0	0	2	0
2020	13	116.74	0	0	55	1	0	0	6	0	0	2	0	0	77	0	0	0	0	0	0	3	4	0
TOTAL	311	2823	0	1	1554	8	44	16	134	1	0	16	0	118	4648	2	10	18	10	4	7	9	28	3
Av 93-19	14.2	128.9	0.0	0.0	71.4	0.3	2.1	0.8	6.1	0.0	0.0	0.7	0.0	5.6	217.7	0.1	0.5	0.9	0.5	0.2	0.3	0.3	1.1	0.1
20 cf Av	-8.4	-9.4			-22.9	200.0			-1.6			200.0			-64.6							950.0	250.0	

UU	T
0	1241
0	388
0	418
0	320
2	323
4	393
2	631
0	490
5	615
6	1149
3	485
1	449
2	337
1	228
1	342
1	217
1	194
1	753
3	640
1	400
0	381
1	279
1	626
36	11299
1.6	485.1
-37.1	29.0
UU	T
0	3950
0	3765
0	3472
0	3935
1	3078
3	3106
3	4495
0	3410
5	3537
9	2967
5	3676
7	2234

2	1979
5	2870
1	3483
0	2251
1	2814
0	2672
2	3082
2	2128
1	3167
4	2552
0	2352
2	2444
53	73419
2.3	3046.6
-13.7	-19.8
UU	T
0	289
0	288
0	475
0	265
0	298
0	348
1	442
0	468
0	190
1	215
0	201
3	435
0	188
0	394
0	79
0	466
0	271
0	731
0	105
0	237
1	104
0	148
6	6637
0.3	309.0
	-52.1

TABLE 6															
MOUNT LORETTE: GOLDEN EAGLE PASSAGE BY HOUR, FALL 2020															
	MST	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	n
		4	53	113	193	198	238	337	342	286	346	293	194	22	
-	MDT	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	
SEP	20	0	0	0	0	0	1	3	2	6	2	11	4	2	31
	21	3	3	4	0	0	4	8	6	2	15	3	2	0	50
	22	0	0	0	0	0	2	2	8	1	0	4	3	0	20
	23	0	14	11	3	9	1	10	3	3	6	1	4	0	65
	24	0	0	5	1	0	1	0	2	4	0	3	7	0	23
	25	0	3	3	2	7	10	13	15	4	14	4	1	0	76
	26	0	0	0	2	4	3	3	0	1	8	5	0	0	26
	27	0	0	4	6	3	2	4	0	8	1	6	8	3	45
	28	0	1	5	3	2	2	2	2	1	0	0	1	0	19
	29	0	0	3	5	3	0	1	8	1	9	3	2	0	35
	30	0	0	0	0	0	5	2	3	6	8	8	-	-	32
OCT	1	1	0	17	11	17	14	23	18	23	23	10	2	0	159
	2	0	0	0	0	0	1	8	15	0	2	0	1	-	27
	3	0	0	1	2	7	1	4	4	10	8	14	12	0	63
	4	0	0	4	9	1	9	14	3	9	8	19	15	1	92
	5	-	6	12	18	18	14	34	29	16	34	33	48	13	275
	6	0	3	2	7	36	49	42	36	13	12	37	18	0	255
	7	0	0	0	0	0	2	4	17	43	32	8	0	0	106
	8	0	2	14	46	20	14	17	15	11	9	1	3	-	152
	9	-	3	4	7	0	3	2	3	8	9	4	1	1	45
	10	-	0	1	13	10	12	17	18	14	8	1	1	-	95
	11	-	3	2	6	W	5	6	3	11	10	12	7	-	65
	12	(w)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(w)	(w)	0
	13	-	0	2	2	W	W	W	w	w	w	w	w	w	4
	14	w	W	W	W	W	W	2	23	11	20	8	22	2	88
	15	-	13	5	19	7	12	31	22	25	18	33	18	0	203
	16	(w)	(W)	(W)	W	1	7	4	W	w	w	w	w	w	12
	17	w	W	W	(W)	(W)	(W)	1	1	0	1	0	0	-	3
	18	-	(W)	(W)	(W)	(W)	2	1	3	(W)	(W)	W	w	w	6
	19	-	0	5	6	4	15	20	22	4	3	7	0	-	86
	20	-	0	0	2	20	23	27	21	10	23	24	10	0	160
	21	w	W	W	W	W	W	W	W	W	w	w	w	w	0
	22	-	0	1	3	4	0	0	1	1	0	1	-	-	11
	23	w	w	w	w	w	w	w	w	w	w	w	w	w	0
	24	(w)	(W)	(W)	0	3	3	1	4	3	6	1	0	-	21
	25	-	0	0	0	0	0	4	5	9	19	16	3	-	56
	26	-	1	5	2	0	0	5	9	3	10	5	0	-	40
	27	-	0	0	0	1	4	6	0	4	4	0	0	-	19
	28	-	0	0	0	0	4	1	1	0	2	2	0	-	10
	29	(w)	(W)	2	7	8	5	1	1	(W)	(W)	(w)	(w)	(w)	24
	30	(w)	(w)	(W)	4	4	0	2	9	4	2	4	0	-	29
	31	-	0	0	1	0	1	3	2	1	3	3	0	-	14
NOV	1	0	1	1	1	5	4	4	3	5	2	0	-	-	26
	2	0	0	0	5	3	0	0	0	3	0	0	-	-	11
	3	0	0	0	0	0	0	2	1	0	0	0	-	-	3
	4	0	0	0	0	0	0	1	1	0	0	-	-	-	2
	MDT	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	
	MST	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	
	5	w	w	W	W	W	W	W	w	w	w	w	w	w	0
	6	-	0	0	0	0	0	0	0	1	0	0	-	-	1
	7	-	-	0	0	0	1	(W)	(W)	W	W	W	w	w	1
	8	(w)	(w)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(w)	(w)	0
	9	-	-	0	0	0	0	0	2	1	6	1	0	-	10
	10	w	w	w	w	w	w	w	w	w	w	w	w	-	0
	11	(w)	(w)	(W)	(W)	0	0	0	1	0	7	0	1	-	9
	12	-	-	0	0	0	1	0	0	3	0	1	-	-	5
	13	-	-	0	0	0	0	0	0	0	0	0	-	-	0
	14	-	-	0	0	1	0	0	0	2	2	0	-	-	5
	15	-	-	0	0	W	1	2	0	1	W	w	w	w	4
	TOTALS	4	53	113	193	198	238	337	342	286	346	293	194	22	2619
	W	weather not conducive to raptor migration, directly observed.													

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TABLE 7							
MEDIAN PASSAGE DATES AND AGE RATIOS, MOUNT LORETTE, FALL 2020							
	Species		Adults		Immatures		imm:adult
OSPREY	22-Sep	3 days early					
BALD EAGLE	22-Oct	1 day early	22-Oct	2 days early	18-Oct	2 days early	0.71
NORTHERN HARRIER	27-Sep	6 days early	27-Sep		28-Sep		0.83
SHARP-SHINNED HAWK	26-Sep	7 days early	01-Oct	3 days early			0.14
COOPER'S HAWK	01-Oct	average	08-Oct	4 days late			
NORTHERN GOSHAWK	06-Oct	5 days early	07-Oct	4 days early	30-Sep	12 days early	0.37
BROAD-WINGED HAWK	27-Sep	7 days early					
RED-TAILED HAWK	01-Oct	1 day late	29-Sep	1 day early	05-Oct	4 days late	0.91
ROUGH-LEGGED HAWK	07-Oct	average					
GOLDEN EAGLE	07-Oct	5 days early	05-Oct	9 days early	07-Oct	1 day early	0.32
MERLIN	29-Sep	6 days early					
GYRFALCON							
PEREGRINE FALCON							
COMBINED SPECIES	01-Oct	7 days early					
(Note: statistics are not calculated for less than 4 birds)							

Table 8																													
Vicki Ridge, Alberta fall 2020																													
September 20 to November 15 (days, hours)																													
day																													
#	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL	species		
1	2019-09-20	11.25	1	0	1	2	30	10	0	1	0	21	1	0	28	1	1	0	0	0	3	0	0	0	0	100	11		
2	2019-09-21	11.25	0	1	6	2	41	13	1	4	1	19	0	0	31	3	1	0	0	1	0	0	0	1	0	125	13		
3	2019-09-22	10.25	0	0	0	0	4	3	1	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	13	6		
4	2019-09-23	11.25	2	2	3	1	57	8	1	1	0	15	0	1	60	1	5	0	0	1	0	1	0	0	0	159	14		
5	2019-09-24	10.75	0	0	3	0	8	3	1	0	0	4	0	0	51	0	0	0	0	0	0	0	0	1	0	71	6		
6	2019-09-25	11	0	1	3	0	40	3	0	0	1	6	0	4	113	0	2	0	1	0	0	2	0	0	0	176	10		
7	2019-09-26	10.5	2	0	5	1	93	13	0	1	0	21	0	2	51	1	1	0	1	0	0	1	0	0	0	193	12		
8	2019-09-27	11	1	0	2	1	53	14	1	3	0	17	0	1	25	3	1	0	0	0	0	0	0	0	0	122	12		
9	2019-09-28	11.33	0	0	3	0	54	7	0	2	0	9	0	4	14	0	0	0	0	0	0	2	1	0	0	96	7		
10	2019-09-29	11.33	0	0	5	1	77	8	1	0	1	6	0	2	15	1	0	0	0	0	0	0	0	0	0	117	10		
11	2019-09-30	11	0	0	0	0	2	1	2	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	8	5		
	September	120.91	6	4	31	8	459	83	8	12	3	121	1	14	391	10	13	0	2	2	3	6	2	1	0	1180	17		
12	2019-10-01	10.75	0	1	3	2	30	8	4	0	0	3	0	4	19	1	1	0	1	0	0	0	0	0	0	77	12		
13	2019-10-02	11.16	0	0	0	2	11	3	0	2	0	18	0	3	48	2	0	0	0	2	3	1	0	0	0	95	10		
14	2019-10-03	11.25	0	1	3	3	52	7	5	1	0	10	0	1	40	0	3	0	0	0	0	0	0	0	0	126	11		
15	2019-10-04	11	0	0	1	1	20	0	0	1	0	9	0	0	42	0	2	0	0	0	0	0	0	0	0	76	7		
16	2019-10-05	11.33	0	0	2	1	29	1	0	1	0	4	0	3	67	0	2	0	0	0	0	0	3	0	0	113	9		
17	2019-10-06	11	0	0	0	0	34	1	0	0	0	8	0	6	65	0	1	0	0	0	0	0	0	0	0	115	6		
18	2019-10-07	10.33	0	0	0	1	5	3	0	1	0	3	0	1	10	0	0	0	0	0	0	0	0	0	0	24	7		
19	2019-10-08	11.25	0	0	6	0	47	5	2	0	0	5	0	6	274	0	1	0	0	0	0	0	0	0	0	346	8		
20	2019-10-09	11	0	0	1	2	67	8	3	0	0	8	1	8	48	0	1	0	0	0	1	0	0	0	0	148	10		
21	2019-10-10	9.25	0	0	0	0	10	2	0	0	0	2	0	0	46	0	0	0	0	0	0	0	0	0	0	60	4		
22	2019-10-11	10.83	0	0	6	1	35	2	0	0	0	4	0	16	188	0	0	0	1	0	0	0	0	0	0	253	8		
23	2019-10-12	9	0	0	3	1	3	0	0	0	0	4	0	5	15	0	0	0	0	0	0	0	0	0	0	31	6		
24	2019-10-13	7.33	0	0	1	0	2	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	1	9	4		
25	2019-10-14	8.33	0	0	2	1	29	4	4	0	0	0	0	20	156	0	0	0	0	0	0	0	0	0	0	216	7		
26	2019-10-15	11	0	0	10	1	28	6	16	0	0	4	0	8	172	1	0	1	0	0	0	0	3	0	0	250	10		
27	2019-10-16	10.75	0	0	16	0	9	1	2	0	0	2	0	61	108	0	0	0	0	0	0	0	0	0	0	199	7		
	2019-10-17	NO OBSERVATION (WEATHER)																									0		
28	2019-10-18	2.5	0	0	1	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	5	3		
29	2019-10-19	10.83	0	0	18	0	11	2	1	1	0	1	0	8	161	0	0	0	0	0	0	0	0	0	0	203	8		
30	2019-10-20	10.75	0	0	31	2	20	4	11	0	0	4	0	12	162	1	0	0	0	0	0	0	1	0	0	248	9		
	2019-10-21	NO OBSERVATION (WEATHER)																										0	
31	2019-10-22	7	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	1		
32	2019-10-23	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33	2019-10-24	6	0	0	2	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	0	0	0	0	0	14	3		
34	2019-10-25	10.75	0	0	17	0	1	0	2	0	0	0	0	1	107	0	0	0	0	0	0	0	1	0	0	129	5		
35	2019-10-26	10	0	0	8	0	5	0	5	0	0	0	0	0	132	0	0	0	2	0	0	0	0	0	0	152	5		
36	2019-10-27	10.5	0	0	7	0	7	1	2	0	0	0	0	3	33	0	0	0	0	0	0	0	0	0	0	53	6		
37	2019-10-28	10.33	0	0	25	0	14	3	2	0	0	0	0	6	46	1	0	0	0	0	0	0	2	0	0	99	7		
38	2019-10-29	10.25	0	0	43	0	10	1	4	0	0	1	0	4	29	0	1	0	1	0	0	1	17	0	0	112	9		
39	2019-10-30	10.25	0	0	15	0	3	0	3	0	0	0	0	12	17	0	0	0	0	0	0	0	0	0	0	50	5		
40	2019-10-31	10.5	0	0	19	0	8	1	12	0	0	0	0	25	60	0	0	0	0	0	0	0	2	0	0	127	6		

	October	277.72	0	2	240	18	490	63	78	7	0	90	1	220	2062	6	12	1	5	2	4	2	29	0	1	3333	16	
41	2019-11-01	10.5	0	0	11	0	0	0	6	0	0	1	0	19	24	0	0	0	0	0	0	0	0	0	0	0	61	5
42	2019-11-02	10.5	0	0	7	0	4	2	1	0	0	0	0	7	16	0	0	0	0	0	0	0	0	1	0	0	38	6
43	2019-11-03	10.5	0	0	8	0	1	0	2	0	0	0	0	3	10	0	0	0	1	1	0	0	0	0	0	0	26	7
44	2019-11-04	10.5	0	0	7	0	3	1	2	0	0	0	0	19	8	0	0	0	0	0	0	0	0	0	0	0	40	6
45	2019-11-05	8.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
	2019-11-06	NO OBSERVATION (WEATHER)																										
	2019-11-07	NO OBSERVATION (WEATHER)																										
	2019-11-08	NO OBSERVATION (WEATHER)																										
46	2019-11-09	10	0	0	17	0	0	0	0	0	0	2	0	1	16	0	0	0	0	1	0	0	0	0	0	0	37	5
47	2019-11-10	5.75	0	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	5	3
48	2019-11-11	10	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2
49	2019-11-12	10.16	0	0	6	0	0	0	0	0	0	0	0	2	14	0	0	0	0	0	0	0	0	1	0	0	23	3
50	2019-11-13	10	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	4	4	
51	2019-11-14	10.08	0	0	20	0	1	0	3	0	0	1	0	8	23	0	0	0	0	0	0	0	0	0	0	0	56	6
52	2019-11-15	10.16	0	0	6	0	0	0	2	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	15	4
	November	116.4	0	0	84	0	9	3	20	0	0	4	0	66	116	0	0	0	3	2	0	0	3	0	0	310	9	
	TOTALS	515.03	6	6	355	26	958	149	106	19	3	215	2	300	2569	16	25	1	10	6	7	8	34	1	1	4823	18	
	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL		

PO	Assistants	Others
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA		
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	
PS, HA		
PS, HA	TL (1615-1730)	
PS, HA	GP, CS (WT 68); D&TD, DC-A, RT, JK on ridge	
PS, HA	GP, CS (WT 68)	
PS, HA	GP, DmcN at N end of ridge.	
PS, HA	GP (WT 68)	
PS, HA	GP, CS (WT 68), RT 1615-1705	
PS, HA	GP, CS (WT 68, DC-A, RT at N end of ridge	
PS, HA	GP (WT 68), Phil Nicholas (1100-1745)	
PS, HA	GP (WT 68), D&TD (1015-1615), TL (1600-1715)	
PS, HA	GP (WT 68), C&C Van Rike (1350-1445)	
PS, HA	GP, CS (WT 68), Pat Lucas (1530-1800)	
PS, HA	DC-A principal 1500-1720; RT 1555-1710	
PS, HA		
PS, HA	GP (WT 68)	
PS, HA	WT 68: GP (0825-1210), DC-A, PL, RT (1337-1740)	
PS, HA	PN (0945-1345), PL (1110-1400); GP (WT 68)	
PS, HA		
PS, HA	GP (WT 68)	
PS, HA	PL (1210-1845), PN (1345-1845), GP (WT 68)	
PS, HA		
PS		
PS, HA		
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	PN (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	PN (1145-1720), GP (WT 68)	

PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA		
PS, HA	GP (WT 68)	
PS, HA		
PS, HA	GP (WT 68)	
PS, HA	GP (WT 68)	
PS, HA		
PS, HA	GP, CS (WT 68)	
PS, HA	GP, CS (WT 68)	

	October	277.72	0	1	167	14	229	30	49	6	0	73	1	100	1181	6	7	1	4	2	4	1	4	0	1	1881			
41	2019-11-01	10.5	0	0	2	0	0	0	2	0	0	1	0	7	11	0	0	0	0	0	0	0	0	0	0	0	23		5
42	2019-11-02	10.5	0	0	2	0	3	1	0	0	0	0	0	2	8	0	0	0	0	0	0	0	0	1	0	0	17		5
43	2019-11-03	10.5	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	1	0	0	0	0	0	0	0	6		3
44	2019-11-04	10.5	0	0	2	0	2	0	2	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0	0	0	17		5
45	2019-11-05	8.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1		1	
	2019-11-06	NO OBSERVATION (WEATHER)																											
	2019-11-07	NO OBSERVATION (WEATHER)																											
	2019-11-08	NO OBSERVATION (WEATHER)																											
46	2019-11-09	10	0	0	6	0	0	0	0	0	0	2	0	0	8	0	0	0	0	1	0	0	0	0	0	0	17		4
47	2019-11-10	5.75	0	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	5		3
48	2019-11-11	10	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		2
49	2019-11-12	10.16	0	0	3	0	0	0	0	0	0	0	0	1	12	0	0	0	0	0	0	0	0	0	0	0	16		3
50	2019-11-13	10	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	4		4	
51	2019-11-14	10.08	0	0	11	0	1	0	1	0	0	0	0	4	17	0	0	0	0	0	0	0	0	0	0	0	34		5
52	2019-11-15	10.16	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4		3
	November	116.4	0	0	28	0	6	1	10	0	2	3	0	22	71	0	0	0	3	1	0	0	2	0	0	147			
	TOTALS	515.03	4	3	215	21	438	56	65	16	2	144	2	125	1455	10	17	1	9	4	7	6	6	0	1	2607			
	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL			
		PS	Peter Sherrington																										
		HA	Hilary Atkinson																										
		GP	Gord Petersen																										
		CS	Cathy Scrimshaw																										
		DCA	Denise Cocciolone-Amatto																										
		RT	Raymond Toal																										
		TL	Trevor Lewis																										
		D&TD	Doug & Teresa Dolmen																										
		PL	Pat Lucas																										
		AW	Asher Warkentin																										
		PN	Phil Nicholas																										
		DmN	David McNeil																										
		JK	John Kinnear																										

TABLE 8B																												
Vicki Ridge (WT68), Alberta fall 2020																												
September 20 to November 15 (52 days, 515 hours)																												
day																												
#	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL	species	
1	2019-09-20	5.25	0	0	0	0	12	7	0	1	0	5	0	0	14	0	0	0	0	0	0	0	0	0	0	39	5	
2	2019-09-21	5.5	0	0	3	1	34	10	1	0	0	7	0	0	22	1	1	0	0	0	0	0	0	1	0	81	9	
	2019-09-22	NO OBSERVATION																									0	
3	2019-09-23	5.83	0	1	1	0	29	5	0	0	0	10	0	1	29	0	1	0	0	1	0	0	0	0	0	78	9	
4	2019-09-24	5.5	0	0	2	0	4	3	1	0	0	3	0	0	47	0	0	0	0	0	0	0	1	0	0	61	6	
5	2019-09-25	5.83	0	1	1	0	21	1	0	0	1	1	0	4	34	0	0	0	0	0	0	0	0	0	0	64	8	
6	2019-09-26	5.67	1	0	1	0	50	12	0	1	0	15	0	1	19	1	1	0	0	0	0	0	0	0	0	102	10	
7	2019-09-27	6.58	1	0	1	0	42	10	0	0	0	8	0	1	14	3	0	0	0	0	0	0	0	0	0	80	8	
8	2019-09-28	5.5	0	0	0	0	26	4	0	0	0	3	0	2	5	0	0	0	0	0	0	1	1	0	0	42	5	
9	2019-09-29	5.92	0	0	2	0	38	6	0	0	0	1	0	2	4	1	0	0	0	0	0	0	0	0	0	54	7	
	2019-09-30	NO OBSERVATION																									0	
	September	51.58	2	2	11	1	256	58	2	2	1	53	0	11	188	6	3	0	0	1	0	1	2	1	0	601		
	2019-10-01	NO OBSERVATION																									0	
10	2019-10-02	5.16	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	5	2	
11	2019-10-03	5.16	0	1	1	0	29	5	0	0	0	1	0	0	23	0	2	0	0	0	0	0	0	0	0	62	7	
	2019-10-04	NO OBSERVATION																									0	
12	2019-10-05	5.67	0	0	1	0	21	0	0	0	0	1	0	1	38	0	1	0	0	0	0	0	3	0	0	66	6	
13	2019-10-06	9.25	0	0	0	0	30	0	0	0	0	4	0	4	45	0	1	0	0	0	0	0	0	0	0	84	5	
14	2019-10-07	7.58	0	0	0	0	2	1	0	0	0	1	0	0	8	0	0	0	0	0	0	0	0	0	0	12	4	
15	2019-10-08	8.08	0	0	3	0	30	2	1	0	0	3	0	4	131	0	0	0	0	0	0	0	0	0	0	174	7	
16	2019-10-09	5.83	0	0	0	2	40	7	0	0	0	3	0	4	19	0	0	0	0	0	0	0	0	0	0	75	6	
17	2019-10-10	4.92	0	0	0	0	7	1	0	0	0	2	0	0	33	0	0	0	0	0	0	0	0	0	0	43	4	
18	2019-10-11	6.75	0	0	4	0	28	2	0	0	0	1	0	14	79	0	0	0	1	0	0	0	0	0	0	129	7	
	2019-10-12	NO OBSERVATION																									0	
	2019-10-13	NO OBSERVATION																									0	
19	2019-10-14	3.83	0	0	1	1	17	2	3	0	0	0	0	6	92	0	0	0	0	0	0	0	0	0	0	122	7	
20	2019-10-15	7.83	0	0	5	0	20	4	6	0	0	1	0	3	90	0	0	0	0	0	0	0	2	0	0	131	7	
21	2019-10-16	9.75	0	0	8	0	6	1	2	0	0	0	0	54	81	0	0	0	0	0	0	0	0	0	0	152	6	
	2019-10-17	NO OBSERVATION (WEATHER)																									0	
	2019-10-18	NO OBSERVATION																									0	
22	2019-10-19	5.16	0	0	5	0	6	2	0	1	0	0	0	3	57	0	0	0	0	0	0	0	0	0	0	74	6	
23	2019-10-20	8.83	0	0	8	1	9	2	3	0	0	0	0	3	73	0	0	0	0	0	0	0	1	0	0	100	7	
	2019-10-21	NO OBSERVATION (WEATHER)																									0	
	2019-10-22	NO OBSERVATION																									0	
	2019-10-23	NO OBSERVATION																									0	
	2019-10-24	NO OBSERVATION																									0	
24	2019-10-25	8.83	0	0	4	0	0	0	2	0	0	0	0	0	21	0	0	0	0	0	0	0	1	0	0	28	3	
25	2019-10-26	4.92	0	0	3	0	0	0	2	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	28	3	
26	2019-10-27	4.83	0	0	4	0	2	1	0	0	0	0	0	2	11	0	0	0	0	0	0	0	0	0	0	20	5	
27	2019-10-28	4.16	0	0	9	0	6	2	2	0	0	0	0	5	25	0	0	0	0	0	0	0	1	0	0	50	6	
28	2019-10-29	1.58	0	0	7	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	15	0	0	27	5	
29	2019-10-30	3.16	0	0	6	0	1	0	2	0	0	0	0	0	9	11	0	0	0	0	0	0	0	0	0	29	5	
30	2019-10-31	4.92	0	0	4	0	5	0	6	0	0	0	0	8	16	0	0	0	0	0	0	0	2	0	0	41	5	

	October	126.2	0	1	73	4	261	33	29	1	0	17	0	120	881	0	5	0	1	0	0	1	25	0	0	1452		
31	2019-11-01	4.58	0	0	9	0	0	0	4	0	0	0	0	12	13	0	0	0	0	0	0	0	0	0	0	0	38	4
32	2019-11-02	4.83	0	0	5	0	1	1	1	0	0	0	0	5	8	0	0	0	0	0	0	0	0	0	0	0	21	6
33	2019-11-03	4.25	0	0	8	0	1	0	2	0	0	0	0	1	7	0	0	0	0	1	0	0	0	0	0	0	20	6
34	2019-11-04	4.16	0	0	5	0	1	1	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	23	5
	2019-11-05	NO OBSERVATION																										
	2019-11-06	NO OBSERVATION (WEATHER)																										
	2019-11-07	NO OBSERVATION (WEATHER)																										
	2019-11-08	NO OBSERVATION (WEATHER)																										
35	2019-11-09	4	0	0	11	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0	20	3
	2019-11-10	NO OBSERVATION																										
36	2019-11-11	4.42	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
37	2019-11-12	3.33	0	0	3	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	0	7	3
	2019-11-13	NO OBSERVATION																										
38	2019-11-14	4.75	0	0	9	0	0	0	2	0	0	1	0	4	6	0	0	0	0	0	0	0	0	0	0	0	22	5
39	2019-11-15	4.16	0	0	5	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	11	3
	November	38.48	0	0	56	0	3	2	10	0	0	1	0	44	45	0	0	0	0	1	0	0	0	1	0	0	163	
	TOTALS	216.26	2	3	140	5	520	93	41	3	1	71	0	175	1114	6	8	0	1	2	0	2	28	1	0	2216		
	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL		
		GP	Gord Petersen																									
		CS	Cathy Scrimshaw																									
		DCA	Denise Cocciolone-Amatto																									
		RT	Raymond Toal																									
		PL	Pat Lucas																									
		PN	Phil Nicholas																									

PO
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TABLE 9												
VICKI RIDGE, FALL 2020												
SUMMARY WEATHER												
			TEMP		RIDGE WIND		CLOUD			SITE	#	
Day			Max	Min	Direction	Velocity	%	type	PRECIPITATION & NOTES		migrant raptors	
#						(km/h)						
1	Sep	20	16.5	12	WSW-W	15-40g50	100-30	Sc,Cu	light showers to 1030; sunny after 1500	61, 68	100	
2	Sep	21	19	10	WSW-W	30-40g50	0-100	Cs,Ci,Ac,As,	Arch 1230-1630	61, 68	125	
3	Sep	22	13.5	9	C-var E-S	0-15	100-10	Cu,As,Ci,St,Ac	100%cloud to 1600, sunny after 1700	61	13	
4	Sep	23	19.5	10	WSW-W	15-40g65	20-100	As,Ac,St,Cu,lent	sunny periods	61, 68	159	
5	Sep	24	14	8	WSW-WNW	40-70g100	100-10	Cu,Ac,Sc	showers and rain to 1530, then sunny	61, 68	71	
6	Sep	25	10.5	7.5	W-WSW	30-60g80	100-40	Cu,Ac,Ci,lent	light rain 1100-1600, sunny after 1400	61, 68	176	
7	Sep	26	11.5	5	W-WSW-WNW	30-40g70	20-100	Cu,Sc	rain after 1730 ended count at 1830	61, 68	193	
8	Sep	27	11.5	4	W-WSW	25-35g45	0-10	lent	10% lent after 1515	61, 68	122	
9	Sep	28	16	9	W-WSW	30-50g75	100-90	As arch	sunny 1735-1831	61, 68	96	
10	Sep	29	23.5	13	WSW-W-E	30-40g55	30-60	Ac,Ci,lent	shift to E at 1840; sunny, thin cloud	61, 68	117	
11	Sep	30	14	7	E-SE	5-10g15	100-0	Sc,Cu	cloudless after 1400	61	8	
12	Oct	1	21	13	NW-W	20-30	70-100	As,Ac,Ci,lent	smoke haze	61	77	
13	Oct	2	20	6	ENE-SE	5-10g20	0		light smoke haze	61, 68	95	
14	Oct	3	23	9	W-WSW	20-40g50	60-0	Cs,As	cloudless after 1200	61, 68	126	
15	Oct	4	21	14	W-WSW	30-50g70	0-90	Ac,As,lent, Ci	cloudless to 1100, light smoke haze	61	76	
16	Oct	5	21	11	W-WSW	50-70g85	0-70	Ac,As,Ci,Cc,lent	cloudless to 1000, light smoke haze	61, 68	113	
17	Oct	6	21	14	WSW-W	30-60g80	30-60	Ac,lent,Ci,Cu	wind moderating after 1800, smoke haze	61, 68	115	
18	Oct	7	15	4	E-S	0-10	90-10	Cu,Ac,Ci,As,lent	calm to 1120, light smoke haze	61, 68	24	
19	Oct	8	20	14	WSW-W	30-40g60	10-100	Cu,As,Ac,Ci	dark Cu and rain at 2000, smoke haze	61, 68	346	
20	Oct	9	16	1	C-WSW-W	20-30g60	70-90	As,Ac,Cu,Ci,Cs	calm to 1000; wind moderating after 1720	61, 68	148	
21	Oct	10	16	9	WSW	20-40g80	70-100	Cu,Ac,Ci,As,lent	light rain 1230, rain 1400-1715, smoke	61, 68	60	
22	Oct	11	7	3	WSW-W	50-70g90	10-100	Cu,St,As,Ac,Ci	flurries and periods of snow after 1300	61, 68	253	
23	Oct	12	10	5	WSW-W	15-25g55	100-70	Cu,Sc	rain to 1045, then light rain, showers,sleet	61	31	
24	Oct	13	4	1	W-WSW	10-15g45	100-70	St,Cu	snow in am, rain 1500-1800 (5 cm)	61	9	
25	Oct	14	6.5	-1	E-ESE-W	5-10g30	100-0	St,Cu	St to 1300,fog then Cu and 0% at end.	61, 68	216	
26	Oct	15	7	-2	WSW-W	20-30g60	0-70	Cu,Ac,lent,Ci	wind chill in pm	61, 68	250	
27	Oct	16	9	0	W-WSW-NE	60-70g100	100-30	Ci,Cu,Ac,Sc,lent,St	rain in pm, cold front at 1812 : snow	61, 68	199	
	Oct	17	NO OBSERVATION							light snow all day (8cm), all obscured		no
28	Oct	18	-8	-9	SE-E	5-10g15	100	Sc	light snow to 1415 (16cm fresh) &after 1645	61	5	
29	Oct	19	7	-7	W-WSW	5-40g60	100-30	Sc,Cu,As,Ac	occ. v light rain showers	61, 68	203	
30	Oct	20	6	-5	E-WSW-W	5-30g50	100-10	Ac,Cu,Ci	mainly sunny in pm	61, 68	248	
	Oct	21	NO OBSERVATION							snow to 1800 (24cm), then fog and snow		no
31	Oct	22	-9	-10	ESE-SSE	5-10g15	80-60-100	Cu,Sc	snow to 1130 (35cm fresh), then light snow	61	3	
32	Oct	23	-11	-13	C-ESE	0-12	100	St,Cu	light to mod.snow; ridges clear to 1100	61	0	
33	Oct	24	-13	-19	E-SSE	3-8g13	100-60	Sc,Cs,Ac	snow to 1230 (15 cm); v light snow to 1300	61	14	
34	Oct	25	-3	-20	ENE-WNW	5-20g60	0-70	lent,Ac	W flow after 0900: blowing snow.0% to 1700	61, 68	129	
35	Oct	26	-1	-6	W	30-40g70	100-10	As,Ac,lent,Ci	10% cloud at 1600	61, 68	152	
36	Oct	27	5	1	W	40-60g90	100-80	As,Ac,Ci,Cs,Cu	Arch to 1230	61, 68	53	
37	Oct	28	7	3	W-WSW	15-30g50	100-80	Sc,Cs,Ac,Cu,As	wind light after 1700; mainly gloomy	61, 68	99	
38	Oct	29	9	5	WSW	10-20g60	100-90	Cs,Cu,Ac,Sc,As	mainly gloomy	61, 68	112	
39	Oct	30	9	4	WSW-W	30-50g90	100-40	St,Cu,Ac	rain/hail 0935-1330, rain showers to 1550	61, 68	50	

40	Oct	31	9	1	W-WSW	10-30g60	0-60	Ac,lent	cloudless to 1300	61, 68	127	
41	Nov	1	13	6	WSW-WNW	30-40g80	30-100	Ac,lent,Ac,Ci	wind light after 1700	61, 68	61	
42	Nov	2	15	10	W-WSW	30-40g90	70-20	Ac,lent,Ci		61, 68	38	
43	Nov	3	16	10	W-WSW	30-40g90	90-10	As,Ac,lent	Arch to 1330	61, 68	26	
44	Nov	4	12	7	WSW-W	30-40g65	100-70	Sc,Cu,Ac	moderate rain to 0850; light showers in pm	61, 68	40	
45	Nov	5	9	6	WSW	30-40g60	100	Sc	light to moderate rain all day; ridges clear	61	1	
	Nov	6	NO OBSERVATION						light rain , fog in am, then light snow (6cm)		0	
	Nov	7	NO OBSERVATION						light snow all day (8cm), all obscured		0	
	Nov	8	NO OBSERVATION						light to moderate snow all day (25cm)		0	
46	Nov	9	-3.5	-8	WSW-W	40-50g85	0-30	Ci	blowing snow all day; cloudless to 1100	61, 68	37	
47	Nov	10	-1	-5	W	30-40g65	60-100	Ac,Cu,St	light snow at 1200, mod. and all obsc. At 1400	61, 68	5	
48	Nov	11	-6	-11	E-ESE-W	10-20	100-20	St,Cu,Sc,Ac	blowing snow and light snow to 1335 (3cm)	61, 68	4	
49	Nov	12	-1.5	-6	W	50-60g85	30-100	Cu,lent,Cc,Ci,As	blowing snow and persistent v light snow	61, 68	23	
50	Nov	13	-0.5	-3	W	30-50g90	100-90	St	light snow becoming heavy after 1430	61	4	
51	Nov	14	1	-2	WSW-W	25-40g60	100-10	Sc,Cu,As,Ac	light snow to 1400	61, 68	56	
52	Nov	15	2	-2	WSW	40-50g90	20-100	Cu,St	light to mod. and occ. heavy snow all day	61, 68	15	
											4823	
	OBSERVATION SITES											
	61		Waterton 61 wellsite on western flank of Vicki Ridge									
	68		Waterton 68 wellsite on western flank of Kyllio Ridge, 2 km W of VR site									

TABLE 9A

Comparison of raptor movement at WT 61 and 68 relative to wind direction and velocity.

VICKI RIDGE, FALL 2020
SUMMARY WEATHER

Day #		TEMP		RIDGE WIND		WT61	WT68	WIND
		Max	Min	Direction	Velocity (km/h)			70km/h+
1	Sep 20	16.5	12	WSW-W	15-40g50	61	39	
2	Sep 21	19	10	WSW-W	30-40g50	44	81	
3	Sep 22	13.5	9	C-var E-S	0-15	13	0	
4	Sep 23	19.5	10	WSW-W	15-40g65	81	78	
5	Sep 24	14	8	WSW-WNW	40-70g100	10	61	
6	Sep 25	10.5	7.5	W-WSW	30-60g80	112	64	
7	Sep 26	11.5	5	W-WSW-WNW	30-40g70	91	102	
8	Sep 27	11.5	4	W-WSW	25-35g45	42	80	
9	Sep 28	16	9	W-WSW	30-50g75	54	42	
10	Sep 29	23.5	13	WSW-W-E	30-40g55	63	54	
11	Sep 30	14	7	E-SE	5-10g15	8	0	
12	Oct 1	21	13	NW-W	20-30	77	0	
13	Oct 2	20	6	ENE-SE	5-10g20	90	5	
14	Oct 3	23	9	W-WSW	20-40g50	64	62	
15	Oct 4	21	14	W-WSW	30-50g70	76	0	
16	Oct 5	21	11	W-WSW	50-70g85	47	66	
17	Oct 6	21	14	WSW-W	30-60g80	31	84	
18	Oct 7	15	4	E-S	0-10	12	12	
19	Oct 8	20	14	WSW-W	30-40g60	172	174	
20	Oct 9	16	1	C-WSW-W	20-30g60	73	75	
21	Oct 10	16	9	WSW	20-40g80	17	43	
22	Oct 11	7	3	WSW-W	50-70g90	124	129	
23	Oct 12	10	5	WSW-W	15-25g55	31	0	
24	Oct 13	4	1	W-WSW	10-15g45	9	0	
25	Oct 14	6.5	-1	E-ESE-W	5-10g30	94	122	
26	Oct 15	7	-2	WSW-W	20-30g60	119	131	
27	Oct 16	9	0	W-WSW-NE	60-70g100	47	152	
	Oct 17	NO OBSERVATION				0	0	
28	Oct 18	-8	-9	SE-E	5-10g15	5	0	
29	Oct 19	7	-7	W-WSW	5-40g60	129	74	
30	Oct 20	6	-5	E-WSW-W	5-30g50	148	100	
	Oct 21	NO OBSERVATION				0	0	
31	Oct 22	-9	-10	ESE-SSE	5-10g15	3	0	
32	Oct 23	-11	-13	C-ESE	0-12	0	0	
33	Oct 24	-13	-19	E-SSE	3-8g13	14	0	
34	Oct 25	-3	-20	ENE-WNW	5-20g60	101	28	
35	Oct 26	-1	-6	W	30-40g70	124	28	
36	Oct 27	5	1	W	40-60g90	33	20	
37	Oct 28	7	3	W-WSW	15-30g50	49	50	
38	Oct 29	9	5	WSW	10-20g60	85	27	
39	Oct 30	9	4	WSW-W	30-50g90	21	29	
40	Oct 31	9	1	W-WSW	10-30g60	86	41	
41	Nov 1	13	6	WSW-WNW	30-40g80	23	38	
42	Nov 2	15	10	W-WSW	30-40g90	17	21	
43	Nov 3	16	10	W-WSW	30-40g90	6	20	
44	Nov 4	12	7	WSW-W	30-40g65	17	23	
45	Nov 5	9	6	WSW	30-40g60	1	0	
	Nov 6	NO OBSERVATION				0	0	
	Nov 7	NO OBSERVATION				0	0	
	Nov 8	NO OBSERVATION				0	0	
46	Nov 9	-3.5	-8	WSW-W	40-50g85	17	20	
47	Nov 10	-1	-5	W	30-40g65	5	0	
48	Nov 11	-6	-11	E-ESE-W	10-20	3	1	
49	Nov 12	-1.5	-6	W	50-60g85	16	7	
50	Nov 13	-0.5	-3	W		4	0	
51	Nov 14	1	-2	WSW-W	25-40g60	34	22	
52	Nov 15	2	-2	WSW	40-50g90	4	11	

2607

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OBSERVATION SITES

- 61 Waterton 61 wellsite on western flank of Vicki Ridge
- 68 Waterton 68 wellsite on western flank of Kyllø Ridge, 2 km W of VR site

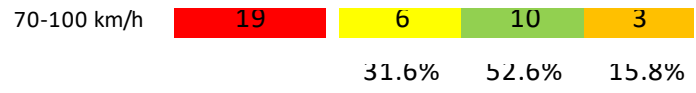
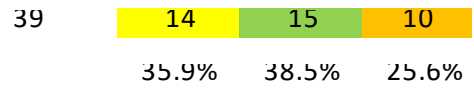


TABLE 10																									
YEARLY SUMMARY FALL TOTALS, VICKI RIDGE 2014-2020 (2020=combined WT61 and WT68 count)																									
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU
2014	11	37.28	0	1	33	4	62	15	32	2	0	28	0	103	114	1	0	0	1	1	7	1	0	0	0
2015	34	134.8	2	2	135	10	253	32	39	4	0	60	0	110	635	9	12	2	0	4	12	1	9	0	9
2016	43	282.63	1	3	253	16	521	49	77	7	0	117	3	313	1424	17	22	1	13	5	6	4	15	1	0
2017	52	418.89	0	11	350	19	751	94	109	33	1	234	6	515	2001	21	20	5	17	5	6	19	18	2	0
2018	50	434.9	0	8	445	15	627	74	103	24	2	176	8	436	2735	12	21	5	9	10	7	25	7	2	4
2019	54	482.08	3	4	427	14	513	80	102	20	2	137	7	458	2778	18	18	4	13	3	4	6	28	2	1
2020	52	515.03	6	6	355	26	958	149	106	19	3	215	2	300	2569	16	25	1	10	6	7	8	34	1	1
TOTAL	296	2306	12	35	1998	104	3685	493	568	109	8	967	26	2235	12256	94	118	18	63	34	49	64	111	8	15
COMPLETE COUNTS (September 20-November 15)																									
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU
2017	52	418.89	0	11	350	19	751	94	109	33	1	234	6	515	2001	21	20	5	17	5	6	19	18	2	0
2018	50	434.9	0	8	445	15	627	74	103	24	2	176	8	436	2735	12	21	5	9	10	7	25	7	2	4
2019	54	482.08	3	4	427	14	513	80	102	20	2	137	7	458	2778	18	18	4	13	3	4	6	28	2	1
2020	52	515.03	6	6	355	26	958	149	106	19	3	215	2	300	2569	16	25	1	10	6	7	8	34	1	1
Av 17-19	52.0	445.3	1.0	7.7	407.3	16.0	630.3	82.7	104.7	25.7	1.7	182.3	7.0	469.7	2504.7	17.0	19.7	4.7	13.0	6.0	5.7	16.7	17.7	2.0	1.7
20 cf Av	0.0	15.7	500	-21.7	-12.8	62.5	52.0	80	1.3	-26.0	80.0	17.9	-71.4	-36.1	2.6	-5.9	27.1	-78.6	-23.1	0.0	23.5	-52.0	92.5	-50.0	-40
September																									
2017	11	90.8	0	7	11	9	368	48	33	14	1	70	4	1	112	16	11	1	7	0	1	2	0	0	0
2018	7	64.0	0	5	17	11	264	34	13	13	2	51	2	10	181	8	12	0	5	2	0	1	1	1	1
2019	9	78.6	3	4	13	9	226	36	11	4	2	73	5	5	140	13	6	0	3	1	2	4	2	1	0
2020	11	120.9	6	4	31	8	459	83	8	12	3	121	1	14	391	10	13	0	2	2	3	6	2	1	0
Av 17-19	9.0	77.8	1.0	5.3	13.7	9.7	286.0	39.3	19.0	10.3	1.7	64.7	3.7	5.3	144.3	12.3	9.7	0.3	5.0	1.0	1.0	2.3	1.0	0.7	0.3
20 cf Av	22.2	55.4	500	-25.0	126.8	-17.2	60.5	111	-57.9	16.1	80.0	87.1	-72.7	162.5	170.9	-18.9	34.5	-100.0	-60.0	100.0	200.0	157.1	100.0	50.0	-100
October																									
2017	29	242	0	4	186	10	382	46	65	19	0	164	2	486	1694	5	9	2	10	4	5	16	14	2	0
2018	28	254	0	3	297	4	362	40	80	11	0	122	6	392	2309	4	8	4	4	3	7	24	4	1	3
2019	30	287	0	0	251	4	281	44	61	15	0	64	2	399	2454	5	12	4	7	2	1	2	16	1	1
2020	29	278	0	2	240	18	490	63	78	7	0	90	1	220	2062	6	12	1	5	2	4	2	29	0	1
Av 17-19	29.0	261.0	0.0	2.3	244.7	6.0	341.7	43.3	68.7	15.0	0.0	116.7	3.3	425.7	2152.3	4.7	9.7	3.3	7.0	3.0	4.3	14.0	11.3	1.3	1.3
20 cf Av	0.0	6.4		-14.3	-1.9	200.0	43.4	45	13.6	-53.3		-22.9	-70.0	-48.3	-4.2	28.6	24.1	-70.0	-28.6	-33.3	-7.7	-85.7	155.9		-25
November																									
2017	12	86	0	0	153	0	1	0	11	0	0	0	0	28	195	0	0	2	0	1	0	1	4	0	0
2018	15	117	0	0	131	0	1	0	10	0	0	3	0	34	245	0	1	1	0	5	0	0	2	0	0
2019	15	116	0	0	163	1	6	0	30	1	0	0	0	54	184	0	0	0	3	0	0	0	10	0	0
2020	12	116	0	0	84	0	9	3	20	0	0	4	0	66	116	0	0	0	3	2	0	0	3	0	0

Av 17-19	14.0	106.5	0.0	0.0	149.0	0.3	2.7	0.0	17.0	0.3	0.0	1.0	0.0	38.7	208.0	0.0	0.3	1.0	1.0	2.0	0.0	0.3	5.3	0.0	0.0	
20 cf Av	-14.3	9.3			-43.6		237.5		17.6			300.0		70.7	-44.2				200.0	0.0			-43.8			
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU	
TABLE 10A																										
YEARLY SUMMARY FALL TOTALS, VICKI RIDGE 2014-2020 with WT61 data only for 2020																										
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU	
2014	11	37.28	0	1	33	4	62	15	32	2	0	28	0	103	114	1	0	0	1	1	7	1	0	0	0	
2015	34	134.8	2	2	135	10	253	32	39	4	0	60	0	110	635	9	12	2	0	4	12	1	9	0	9	
2016	43	282.63	1	3	253	16	521	49	77	7	0	117	3	313	1424	17	22	1	13	5	6	4	15	1	0	
2017	52	418.89	0	11	350	19	751	94	109	33	1	234	6	515	2001	21	20	5	17	5	6	19	18	2	0	
2018	50	434.9	0	8	445	15	627	74	103	24	2	176	8	436	2735	12	21	5	9	10	7	25	7	2	4	
2019	54	482.08	3	4	427	14	513	80	102	20	2	137	7	458	2778	18	18	4	13	3	4	6	28	2	1	
2020	52	515.03	4	3	215	21	438	56	65	16	2	144	2	125	1455	10	17	1	9	4	7	6	6	0	1	
TOTAL	296	2306	10	32	1858	99	3165	400	527	106	7	896	26	2060	11142	88	110	18	62	32	49	62	83	7	15	
COMPLETE COUNTS (September 20-November 15)																										
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU	
2017	52	418.89	0	11	350	19	751	94	109	33	1	234	6	515	2001	21	20	5	17	5	6	19	18	2	0	
2018	50	434.9	0	8	445	15	627	74	103	24	2	176	8	436	2735	12	21	5	9	10	7	25	7	2	4	
2019	54	482.08	3	4	427	14	513	80	102	20	2	137	7	458	2778	18	18	4	13	3	4	6	28	2	1	
2020	52	515.03	4	3	215	21	438	56	65	16	2	144	2	125	1455	10	17	1	9	4	7	6	6	0	1	
Av 17-19	52.0	445.3	1.0	7.7	407.3	16.0	630.3	82.7	104.7	25.7	1.7	182.3	7.0	469.7	2504.7	17.0	19.7	4.7	13.0	6.0	5.7	16.7	17.7	2.0	1.7	
20 cf Av	0.0	15.7	300	-60.9	-47.2	31.3	-30.5	-32	-37.9	-37.7	20.0	-21.0	-71.4	-73.4	-41.9	-41.2	-13.6	-78.6	-30.8	-33.3	23.5	-64.0	-66.0		-40	
September																										
2017	11	90.8	0	7	11	9	368	48	33	14	1	70	4	1	112	16	11	1	7	0	1	2	0	0	0	
2018	7	64.0	0	5	17	11	264	34	13	13	2	51	2	10	181	8	12	0	5	2	0	1	1	1	1	
2019	9	78.6	3	4	13	9	226	36	11	4	2	73	5	5	140	13	6	0	3	1	2	4	2	1	0	
2020	11	120.9	4	2	20	7	203	25	6	10	2	68	1	3	203	4	10	0	2	1	3	5	0	0	0	
Av 17-19	9.0	77.8	1.0	5.3	13.7	9.7	286.0	39.3	19.0	10.3	1.7	64.7	3.7	5.3	144.3	12.3	9.7	0.3	5.0	1.0	1.0	2.3	1.0	0.7	0.3	
20 cf Av	22.2	55.4	300	-62.5	46.3	-27.6	-29.0	-36	-68.4	-3.2	20.0	5.2	-72.7	-43.8	40.6	-67.6	3.4	-100.0	-60.0	0.0	200.0	114.3			-100	
October																										
2017	29	242	0	4	186	10	382	46	65	19	0	164	2	486	1694	5	9	2	10	4	5	16	14	2	0	
2018	28	254	0	3	297	4	362	40	80	11	0	122	6	392	2309	4	8	4	4	3	7	24	4	1	3	
2019	30	287	0	0	251	4	281	44	61	15	0	64	2	399	2454	5	12	4	7	2	1	2	16	1	1	
2020	29	278	0	1	167	14	229	30	49	6	0	73	1	100	1181	6	7	1	4	2	4	1	4	0	1	
Av 17-19	29.0	261.0	0.0	2.3	244.7	6.0	341.7	43.3	68.7	15.0	0.0	116.7	3.3	425.7	2152.3	4.7	9.7	3.3	7.0	3.0	4.3	14.0	11.3	1.3	1.3	
20 cf Av	0.0	6.4		-57.1	-31.7	133.3	-33.0	-31	-28.6	-60.0		-37.4	-70.0	-76.5	-45.1	28.6	-27.6	-70.0	-42.9	-33.3	-7.7	-92.9	-64.7		-25	

November																										
2017	12	86	0	0	153	0	1	0	11	0	0	0	0	28	195	0	0	2	0	1	0	1	4	0	0	
2018	15	117	0	0	131	0	1	0	10	0	0	3	0	34	245	0	1	1	0	5	0	0	2	0	0	
2019	15	116	0	0	163	1	6	0	30	1	0	0	0	54	184	0	0	0	3	0	0	0	10	0	0	
2020	12	116	0	0	28	0	6	1	10	0	0	3	0	22	71	0	0	0	3	1	0	0	2	0	0	
Av 17-19	14.0	106.5	0.0	0.0	149.0	0.3	2.7	0.0	17.0	0.3	0.0	1.0	0.0	38.7	208.0	0.0	0.3	1.0	1.0	2.0	0.0	0.3	5.3	0.0	0.0	
20 cf Av	-14.3	9.3			-81.2		125.0		-41.2			200.0		-43.1	-65.9				200.0	-50.0			-62.5			
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU	

	raptors
T	/hour
405	10.86
1340	9.94
2868	10.15
4237	10.11
4755	10.93
4642	9.63
4823	9.36
23070	
T	
4237	10.11
4755	10.93
4641	9.63
4823	9.36
4544.3	10.2
6.1	-8.4
716	7.88
634	9.91
563	7.16
1180	9.76
637.7	8.3
85.0	17.3
3125	12.91
3688	14.53
3626	12.63
3333	12.00
3479.7	12.5
-4.2	-4.1
396	4.60
433	3.70
452	3.89
310	2.66

427.0	4.1
-27.4	-34.4
T	raptors
	/hour
	raptors
T	/hour
405	10.86
1340	9.94
2868	10.15
4237	10.11
4755	10.93
4642	9.63
2607	5.06
20854	
T	
4237	10.11
4755	10.93
4641	9.63
2607	5.06
4544.3	10.2
-42.6	-50.5
716	7.88
634	9.91
563	7.16
579	4.79
637.7	25.7
-9.2	-81.3
3125	12.91
3688	14.53
3626	12.63
1881	6.77
3479.7	12.5
-45.9	-45.9

396	4.60
433	3.70
452	3.89
147	1.26
427.0	-19.6
-65.6	-106.4
T	raptors
	/hour

		2		indeterminate juvenile					2		indeterminate juvenile		
		0		indeterminate					0		indeterminate		
		26		<i>Total species</i>					21		<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>	03-Oct					<i>Cumulative species</i>	<i>Median sp.</i>	
		9		<i>Total adults</i>					5		<i>Total adults</i>		
				<i>Cumulative adults</i>	<i>Median a.</i>	09-Oct					<i>Cumulative adults</i>	<i>Median a.</i>	
		15		<i>Total juveniles</i>					14		<i>Total juveniles</i>		
				<i>Cumulative juveniles</i>	<i>Median imm.</i>	02-Oct					<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	958	206	Sharp-shinned Hawk	adult	<i>imm:a</i>	0.24			434	134	Sharp-shinned Hawk	adult	<i>imm:a</i>
		49		juvenile						18		juvenile	
		703		indeterminate						282		indeterminate	
				<i>Total species</i>							<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>	01-Oct					<i>Cumulative species</i>	<i>Median sp.</i>	
				<i>Cumulative adults</i>	<i>Median a.</i>	01-Oct					<i>Cumulative adults</i>	<i>Median a.</i>	
				<i>Cumulative juveniles</i>	<i>Median imm.</i>	27-Sep					<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	149	47	Cooper's Hawk	adult	<i>imm:a</i>	0.47			59	30	Cooper's Hawk	adult	<i>imm:a</i>
		22		juvenile						5		juvenile	
		80		indeterminate						24		indeterminate	
				<i>Total species</i>							<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>	29-Sep					<i>Cumulative species</i>	<i>Median sp.</i>	
				<i>Cumulative adults</i>	<i>Median a.</i>	29-Sep					<i>Cumulative adults</i>	<i>Median a.</i>	
				<i>Cumulative juveniles</i>	<i>Median imm.</i>	27-Sep					<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	106	69	Northern Goshawk	adult	<i>imm:a</i>	0.26			66	50	Northern Goshawk	adult	<i>imm:a</i>
		18		juvenile						9		juvenile	
		19		indeterminate						7		indeterminate	
				<i>Total species</i>							<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>	20-Oct					<i>Cumulative species</i>	<i>Median sp.</i>	
				<i>Cumulative adults</i>	<i>Median a.</i>	26-Oct					<i>Cumulative adults</i>	<i>Median a.</i>	
				<i>Cumulative juveniles</i>	<i>Median imm.</i>	15-Oct					<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	7	0	Indeterminate Accipiter	indeterminate					7	0	Indeterminate Accipiter	indeterminate	
		0		Indeterminate Accipiter large						0		Indeterminate Accipiter large	
		7		Indeterminate Accipiter small						7		Indeterminate Accipiter small	
				<i>Total UA</i>							<i>Total UA</i>		
	19	9	Broad-winged Hawk	light adult	<i>imm:a</i>	0.64			16	7	Broad-winged Hawk	light adult	<i>imm:a</i>
		7		light juvenile						6		light juvenile	
		1		light indeterminate						1		light indeterminate	

		2		dark adult					2		dark adult			
		0		dark juvenile					0		dark juvenile			
		0		dark indeterminate					0		dark indeterminate			
		0		indeterminate morph/age					0		indeterminate morph/age			
				<i>Total species</i>							<i>Total species</i>			
				<i>Cumulative species</i>	<i>Median sp.</i>	27-Sep					<i>Cumulative species</i>	<i>Median sp.</i>		
				<i>Total adults</i>							<i>Total adults</i>			
				<i>Cumulative adults</i>	<i>Median a.</i>	28-Sep					<i>Cumulative adults</i>	<i>Median a.</i>		
				<i>Total juveniles</i>							<i>Total juveniles</i>			
				<i>Cumulative juveniles</i>	<i>Median imm.</i>	21-Sep					<i>Cumulative juveniles</i>	<i>Median imm.</i>		
	3	1	Swainson's Hawk	light adult	<i>imm.a</i>	n/a			2	0	Swainson's Hawk	light adult	<i>imm.a</i>	
		0		light juvenile					0		light juvenile			
		0		light indeterminate					0		light indeterminate			
		0		rufous adult					0		rufous adult			
		1		rufous juvenile					1		rufous juvenile			
		0		rufous indeterminate					0		rufous indeterminate			
		0		dark adult					0		dark adult			
		1		dark juvenile					1		dark juvenile			
		0		dark indeterminate					0		dark indeterminate			
		0		indeterminate morph/age					0		indeterminate morph/age			
				<i>Total species</i>							<i>Total species</i>			
				<i>Cumulative species</i>	<i>Median sp.</i>	n/a					<i>Cumulative species</i>	<i>Median sp.</i>		
	215	101	Red-tailed Hawk <i>calurus</i>	light adult	<i>imm.a</i>	0.13			144	76	Red-tailed Hawk <i>calurus</i>	light adult	<i>imm.a</i>	
		13		light juvenile						5		light juvenile		
		20		light indeterminate						15		light indeterminate		
		6		rufous adult						1		rufous adult		
		1		rufous juvenile						0		rufous juvenile		
		1		rufous indeterminate						1		rufous indeterminate		
		30		dark adult						23		dark adult		
		2		dark juvenile						1		dark juvenile		
		1		dark indeterminate						1		dark indeterminate		
		0	RTHA " <i>krideri</i> "	adult						0	RTHA " <i>krideri</i> "	adult		
		0		juvenile						0		juvenile		
		0		indeterminate						0		indeterminate		
		0	RTHA <i>borealis</i>	adult						0	RTHA <i>borealis</i>	adult		
		0		indeterminate						0		indeterminate		

	300	229	Rough-legged Hawk	light	<i>D:L</i>	0.21		125	102	Rough-legged Hawk	light	<i>D:L</i>
		0		"intermediate"					0		"intermediate"	
		48		dark					11		dark	
		23		indeterminate morph					12		indeterminate morph	
				<i>Total species</i>							<i>Total species</i>	
				<i>Cumulative species</i>	<i>Median sp.</i>	16-Oct					<i>Cumulative species</i>	<i>Median sp.</i>
	8	2	Indeterminate Buteo	indeterminate				6	1	Indeterminate Buteo	indeterminate	
		6		dark					5		dark	
		0		light					0		light	
				<i>Total UB</i>							<i>Total UB</i>	
				<i>Cumulative species</i>							<i>Cumulative species</i>	
	2569	1760	Golden Eagle	adult	<i>imm:a</i>	0.32		1455	1122	Golden Eagle	adult	<i>imm:a</i>
		139		subadult	<i>j:a/sa</i>	0.22			88		subadult	<i>j:a/sa</i>
		422		juvenile					200		juvenile	
		0		immature					0		immature	
		248		indeterminate					45		indeterminate	
				<i>Total species</i>							<i>Total species</i>	
				<i>Cumulative species</i>	<i>Median sp.</i>	14-Oct					<i>Cumulative species</i>	<i>Median sp.</i>
				<i>Cumulative adults</i>	<i>Median a.</i>	15-Oct			1122		<i>Cumulative adults</i>	<i>Median a.</i>
		569		<i>Total immatures</i>					289		<i>Total immatures</i>	
				<i>Cumulative immatures</i>	<i>Median imm.</i>	08-Oct			289		<i>Cumulative immatures</i>	<i>Median imm.</i>
				<i>Cumulative subadult</i>	<i>Median sa</i>	08-Oct			88		<i>Cumulative subadult</i>	<i>Median sa</i>
				<i>Cumulative juvenile</i>	<i>Median juv.</i>	08-Oct			200		<i>Cumulative juvenile</i>	<i>Median juv.</i>
	34	34	Indeterminate eagle					6	6	Indeterminate eagle		
	16	5	American Kestrel	male	<i>f:m</i>	1.4		10	5	American Kestrel	male	<i>f:m</i>
		7		female					5		female	
		4		indeterminate sex					0		indeterminate sex	
				<i>Total species</i>							<i>Total species</i>	
				<i>Cumulative species</i>	<i>Median sp.</i>	27-Sep					<i>Cumulative species</i>	<i>Median sp.</i>
	25	1	Merlin (<i>F.c.columbarius</i>)	adult male	<i>imm:a</i>	n/a		17	1	Merlin (<i>F.c.columbarius</i>)	adult male	<i>imm:a</i>
		0		juvenile male					0		juvenile male	
		5		indeterminate male					5		indeterminate male	
		1		adult female					1		adult female	
		3		juvenile female					0		juvenile female	
		2		indeterminate female					5		indeterminate female	
		7		indeterminate age/sex					4		indeterminate age/sex	

		0	MERL (<i>F.c.richardsoni</i>)	adult male					0	MERL (<i>F.c.richardsoni</i>)	adult male		
		0		female/juvenile					0		female/juvenile		
		3		indeterminate age/sex					0		indeterminate age/sex		
		3	MERL	indeterminate race					1	MERL	indeterminate race		
		25		<i>Total species</i>					17		<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>		30-Sep				<i>Cumulative species</i>	<i>Median sp.</i>	
		2		<i>Total adults</i>					2		<i>Total adults</i>		
				<i>Cumulative adults</i>	<i>Median a.</i>		n/a				<i>Cumulative adults</i>	<i>Median a.</i>	
		3		<i>Total juveniles</i>					0		<i>Total juveniles</i>		
				<i>Cumulative juveniles</i>	<i>Median imm.</i>		n/a				<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	1	1	Gyrfalcon	grey morph adult male	<i>imm:a</i>		n/a		1	1	Gyrfalcon	grey morph adult male	<i>imm:a</i>
		0		grey morph adult female					0		grey morph adult female		
		0		grey morph adult					0		grey morph adult		
		0		grey morph juvenile					0		grey morph juvenile		
		0		indeterminate grey morph					0		indeterminate grey morph		
		0		black morph adult male					0		black morph adult male		
		0		black morph adult female					0		black morph adult female		
		0		black morph adult					0		black morph adult		
		0		black morph juvenile					0		black morph juvenile		
		0		indeterminate black morph					0		indeterminate black morph		
		0		white morph adult male					0		white morph adult male		
		0		white morph adult female					0		white morph adult female		
		0		white morph adult					0		white morph adult		
		0		white morph juvenile					0		white morph juvenile		
		0		indeterminate white morph					0		indeterminate white morph		
		0		indeterminate morph					0		indeterminate morph		
		1		<i>Total species</i>					1		<i>Total species</i>		
				<i>Cumulative species</i>	<i>Median sp.</i>		n/a				<i>Cumulative species</i>	<i>Median sp.</i>	
		1		<i>Total adults</i>					1		<i>Total adults</i>		
				<i>Cumulative adults</i>	<i>Median a.</i>						<i>Cumulative adults</i>	<i>Median a.</i>	
		0		<i>Total juveniles</i>					0		<i>Total juveniles</i>		
				<i>Cumulative juveniles</i>	<i>Median imm.</i>						<i>Cumulative juveniles</i>	<i>Median imm.</i>	
	10	3	Peregrine Falcon	adult male	<i>imm:a</i>		0.2		9	3	Peregrine Falcon	adult male	<i>imm:a</i>
		0		juvenile male					0		juvenile male		
		2		indeterminate male					2		indeterminate male		
		1		adult female					1		adult female		

		0	juvenile female				0	juvenile female	
		1	indeterminate female				1	indeterminate female	
		1	adult indeterminate sex				1	adult indeterminate sex	
		1	juvenile indeterminate sex				0	juvenile indeterminate sex	
		1	indeterminate				1	indeterminate	
		10	<i>Total species</i>				9	<i>Total species</i>	
			<i>Cumulative species</i>	<i>Median sp.</i>	26-Oct			<i>Cumulative species</i>	<i>Median sp.</i>
		4	<i>Total adults</i>				4	<i>Total adults</i>	
			<i>Cumulative adults</i>	<i>Median a.</i>	28-Oct			<i>Cumulative adults</i>	<i>Median a.</i>
		0	<i>Total immatures</i>				0	<i>Total immatures</i>	
			<i>Cumulative immatures</i>	<i>Median imm.</i>	n/a			<i>Cumulative immatures</i>	<i>Median imm.</i>
	6	6	Prairie Falcon				4	4	Prairie Falcon
			<i>Cumulative species</i>	<i>Median sp.</i>	02-Oct			<i>Cumulative species</i>	<i>Median sp.</i>
	1	0	Indeterminate falcon indeterminate size				0	0	Indeterminate falcon indeterminate size
		1	Indeterminate falcon, small				0	Indeterminate falcon, small	
		0	Indeterminate falcon, large				0	Indeterminate falcon, large	
			<i>Total UF</i>					<i>Total UF</i>	
	1	0	Indeterminate raptor				1	0	Indeterminate raptor
		1	small				1	small	
		0	large				0	large	
			<i>Total UU</i>					<i>Total UU</i>	
		4823	TOTAL MIGRANTS				2607	TOTAL MIGRANTS	
			<i>Cumulative all species</i>	<i>Median all spp.</i>	11-Oct			<i>Cumulative all species</i>	<i>Median all spp.</i>
			Category percentages					Category percentages	
				combined					WT61
			Turkey Vulture	0.12				Turkey Vulture	0.15
			Osprey	0.12				Osprey	0.12
			Bald Eagle	7.36				Bald Eagle	8.25
			Northern Harrier	0.54				Northern Harrier	0.81
			<i>Accipiters</i>	25.29				<i>Accipiters</i>	21.7
			<i>Buteos</i>	11.34				<i>Buteos</i>	12.47
			Golden Eagle	53.27				Golden Eagle	55.81
			falcons	1.22				falcons	1.57
			indet	0.02				indet	0.04

			eagles	61.33				eagles	54.29
			TOTAL COUNT	4823				TOTAL COUNT	2607
			Species					Species	18
			migrants/hour	9.36				migrants/hour	5.06

				VICKY RIDGE (WT68), FALL 2020		
				September 20 to November 15		
n/a		2	1	Turkey Vulture adult	<i>imm:a</i>	n/a
			0	immature		
			1	indeterminate		
				<i>Total species</i>		
23-Sep				<i>Cumulative species</i>	<i>Median sp.</i>	n/a
		3	3	Osprey	<i>imm:a</i>	n/a
n/a				<i>Cumulative species</i>	<i>Median sp.</i>	n/a
0.67		140	85	Bald Eagle adult	<i>imm:a</i>	0.59
			9	subadult 3 ("adult 1")		
			3	subadult 2 (white-belly I)		
			1	subadult 1 (white belly I)		
			5	undifferentiated subadult (white belly)		
			32	Juvenile (dark belly)		
			0	undifferentiated immature		
			5	indeterminate		
				<i>Total species</i>		
26-Oct				<i>Cumulative species</i>	<i>Median sp.</i>	29-Oct
				<i>Total adults</i>		
28-Oct				<i>Cumulative adults</i>	<i>Median a.</i>	29-Oct
				<i>Total immatures</i>		
25-Oct				<i>Cumulative immatures</i>	<i>Median imm.</i>	25-Oct
2.8		5	3	Northern Harrier adult male	<i>imm:a</i>	0.25
			1	juvenile male		
			0	indeterminate male		
			1	adult female		
			0	juvenile female		
			0	indeterminate female		

		0		indeterminate juvenile		
		0		indeterminate		
		5		Total species		
02-Oct				Cumulative species	Median sp.	09-Oct
		4		Total adults		
03-Oct				Cumulative adults	Median a.	09-Oct
		1		Total juveniles		n/a
01-Oct				Cumulative juveniles	Median imm.	
0.13	520	71	Sharp-shinned Hawk	adult	imm:a	0.41
		29		juvenile		
		420		indeterminate		
				Total species		
01-Oct				Cumulative species	Median sp.	03-Oct
03-Oct				Cumulative adults	Median a.	29-Sep
27-Sep				Cumulative juveniles	Median imm.	27-Sep
0.17	93	16	Cooper's Hawk	adult	imm:a	1.25
		20		juvenile		
		57		indeterminate		
				Total species		
01-Oct				Cumulative species	Median sp.	27-Sep
02-Oct				Cumulative adults	Median a.	23-Sep
24-Sep				Cumulative juveniles	Median imm.	28-Sep
0.18	41	20	Northern Goshawk	adult	imm:a	0.45
		9		juvenile		
		12		indeterminate		
				Total species		
20-Oct				Cumulative species	Median sp.	26-Oct
20-Oct				Cumulative adults	Median a.	31-Oct
03-Oct				Cumulative juveniles	Median imm.	15-Oct
	0	0	Indeterminate Accipiter	indeterminate		
		0		Indeterminate Accipiter large		
		0		Indeterminate Accipiter small		
				Total UA		
0.67	3	2	Broad-winged Hawk	light adult	imm:a	n/a
		1		light juvenile		
		0		light indeterminate		

		0		dark adult		
		0		dark juvenile		
		0		dark indeterminate		
		0		indeterminate morph/age		
				<i>Total species</i>		
27-Sep				<i>Cumulative species</i>	<i>Median sp.</i>	n/a
				<i>Total adults</i>		
02-Oct				<i>Cumulative adults</i>	<i>Median a.</i>	n/a
				<i>Total juveniles</i>		
21-Sep				<i>Cumulative juveniles</i>	<i>Median imm.</i>	n/a
n/a	2	1	Swainson's Hawk	light adult	<i>imm.a</i>	n/a
		0		light juvenile		
		0		light indeterminate		
		0		rufous adult		
		0		rufous juvenile		
		0		rufous indeterminate		
		1		dark adult		
		0		dark juvenile		
		0		dark indeterminate		
		0		indeterminate morph/age		
				<i>Total species</i>		
n/a				<i>Cumulative species</i>	<i>Median sp.</i>	n/a
0.08	70	26	Red-tailed Hawk	<i>calurus</i> light adult	<i>imm.a</i>	0.27
		8		light juvenile		
		6		light indeterminate		
		7		rufous adult		
		1		rufous juvenile		
		0		rufous indeterminate		
		3		dark adult		
		1		dark juvenile		
		1		dark indeterminate		
		0	RTHA " <i>krideri</i> "	adult		
		0		juvenile		
		0		indeterminate		
		0	RTHA <i>borealis</i>	adult		
		0		indeterminate		

		0		juvenile		
		1	RTHA <i>harlani</i>	dark adult		
		1		dark juvenile		
		0		dark indeterminate		
		2	RTHA <i>harlani</i>	light adult		
		0		light juvenile		
		2	RTHA <i>harlani</i>	intermediate adult		
		0		intermediate juvenile		
		1	RTHA	indeterminate race light		
		6	RTHA	indeterminate race dark		
		4	RTHA	indeterminate morph/age		
				<i>Total species</i>		
02-Oct				<i>Cumulative species</i>	<i>Median sp.</i>	26-Sep
				<i>Total adults</i>		
01-Oct				<i>Cumulative adults</i>	<i>Median a.</i>	26-Sep
				<i>Total immatures</i>		
04-Oct				<i>Cumulative juveniles</i>	<i>Median imm.</i>	26-Sep
				<i>Total calurus</i>		
01-Oct				<i>Cumulative calurus</i>	<i>median calurus</i>	26-Sep
				<i>Total Harlan's Hawk</i>		
03-Oct				<i>Cumulative Harlan's Hawk</i>	<i>Median Harlans</i>	06-Oct
n/a		0	0	Ferruginous Hawk light adult	<i>imm:a</i>	n/a
		0		light juvenile		
		0		light indeterminate		
		0		dark adult		
		0		dark juvenile		
		0		dark indeterminate		
		0		indeterminate morph/age		
				<i>Total species</i>		
n/a				<i>Cumulative species</i>	<i>Median sp.</i>	n/a
				<i>Total adults</i>		
n/a				<i>Cumulative adults</i>	<i>Median a.</i>	n/a
				<i>Total juveniles</i>		
n/a				<i>Cumulative juveniles</i>	<i>Median imm.</i>	n/a

0.11	175	127	Rough-legged Hawk	light	<i>D:L</i>	0.29
		0		"intermediate"		
		37		dark		
		11		indeterminate morph		
				<i>Total species</i>		
19-Oct				<i>Cumulative species</i>	<i>Median sp.</i>	16-Oct
	2	1	Indeterminate Buteo	indeterminate		
		1		dark		
		0		light		
				<i>Total UB</i>		
				<i>Cumulative species</i>		
0.26	1114	638	Golden Eagle	adult	<i>imm:a</i>	0.44
0.17		50		subadult	<i>j:a/sa</i>	0.32
		223		juvenile		
		0		immature		
		203		indeterminate		
				<i>Total species</i>		
14-Oct				<i>Cumulative species</i>	<i>Median sp.</i>	11-Oct
15-Oct		638		<i>Cumulative adults</i>	<i>Median a.</i>	14-Oct
		280		<i>Total immatures</i>		
08-Oct		280		<i>Cumulative immatures</i>	<i>Median imm.</i>	08-Oct
08-Oct		50		<i>Cumulative subadult</i>	<i>Median sa</i>	
08-Oct		223		<i>Cumulative juvenile</i>	<i>Median juv.</i>	08-Oct
	28	28	Indeterminate eagle			
1	6	0	American Kestrel	male	<i>f:m</i>	n/a
		2		female		
		4		indeterminate sex		
				<i>Total species</i>		
01-Oct				<i>Cumulative species</i>	<i>Median sp.</i>	
n/a	8	0	Merlin (<i>F.c.columbarius</i>)	adult male	<i>imm:a</i>	n/a
		0		juvenile male		
		0		indeterminate male		
		0		adult female		
		0		juvenile female		
		0		indeterminate female		
		2		indeterminate age/sex		

		0	MERL (<i>F.c.richardsoni</i>)	adult male			
		0		female/juvenile			
		3		indeterminate age/sex			
		3	MERL	indeterminate race			
		8		Total species			
27-Sep				Cumulative species	Median sp.	03-Oct	
		0		Total adults			
n/a				Cumulative adults	Median a.	n/a	
		0		Total juveniles			
n/a				Cumulative juveniles	Median imm.	n/a	
n/a		0	0	Gyrfalcon	grey morph adult male	imm:a	n/a
		0		grey morph adult female			
		0		grey morph adult			
		0		grey morph juvenile			
		0		indeterminate grey morph			
		0		black morph adult male			
		0		black morph adult female			
		0		black morph adult			
		0		black morph juvenile			
		0		indeterminate black morph			
		0		white morph adult male			
		0		white morph adult female			
		0		white morph adult			
		0		white morph juvenile			
		0		indeterminate white morph			
		0		indeterminate morph			
		0		Total species			
n/a				Cumulative species	Median sp.	n/a	
		0		Total adults			
n/a				Cumulative adults	Median a.	n/a	
		0		Total juveniles			
n/a				Cumulative juveniles	Median imm.	n/a	
0.25		1	0	Peregrine Falcon	adult male	imm:a	n/a
		0		juvenile male			
		0		indeterminate male			
		0		adult female			

				eagles	57.85
				TOTAL COUNT	2216
				Species	16
				migrants/hour	10.25

TABLE 12																												
Steeles, BC, fall 2020																												
September 20 to November 15 (23 days, 71.5 hours)																												
day																												
#	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL	Site	
no	2019-09-20	NO OBSERVATION																									0	
no	2019-09-21	NO OBSERVATION																									0	
no	2019-09-22	NO OBSERVATION																									0	
no	2019-09-23	NO OBSERVATION																									0	
no	2019-09-24	NO OBSERVATION																									0	
no	2019-09-25	NO OBSERVATION																									0	
no	2019-09-26	NO OBSERVATION																									0	
no	2019-09-27	NO OBSERVATION																									0	
no	2019-09-28	NO OBSERVATION																									0	
no	2019-09-29	NO OBSERVATION																									0	
no	2019-09-30	NO OBSERVATION																									0	
	September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
no	2019-10-01	NO OBSERVATION																									0	
1	2019-10-02	2	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	BN
2	2019-10-03	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	BN
3	2019-10-04	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	BN
no	2019-10-05	NO OBSERVATION																									0	
4	2019-10-06	1.75	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	BN
no	2019-10-07	NO OBSERVATION																									0	
no	2019-10-08	NO OBSERVATION (weather)																									0	
5	2019-10-09	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN
no	2019-10-10	NO OBSERVATION (weather)																									0	
6	2019-10-11	6.25	0	0	17	0	4	0	1	0	0	1	0	0	9	0	0	0	0	0	0	0	1	0	0	33	BN	
7	2019-10-12	6	0	0	19	0	5	0	0	0	0	1	0	0	14	0	0	0	0	0	0	0	0	0	0	39	BN	
no	2019-10-13	NO OBSERVATION (weather)																									0	
no	2019-10-14	NO OBSERVATION																									0	
8	2019-10-15	1.25	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	BN	
no	2019-10-16	NO OBSERVATION																									0	
9	2019-10-17	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	BN	
no	2019-10-18	NO OBSERVATION (weather)																									0	
no	2019-10-19	NO OBSERVATION (weather)																									0	
10	2019-10-20	1.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN	
no	2019-10-21	NO OBSERVATION																									0	
11	2019-10-22	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN	
no	2019-10-23	NO OBSERVATION (weather)																									0	
12	2019-10-24	4.5	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	BN	
13	2019-10-25	6	0	0	1	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	21	BN	
no	2019-10-26	NO OBSERVATION																									0	
14	2019-10-27	4	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	5	BN	
15	2019-10-28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	WC	
16	2019-10-29	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	WC	
17	2019-10-30	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	BN	
no	2019-10-31	NO OBSERVATION																									0	

	October	53	0	0	46	0	11	0	1	0	0	4	0	0	51	1	0	0	0	0	0	0	2	0	0	116		
18	2019-11-01	5	0	0	0	0	2	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	7	BN
19	2019-11-02	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN
no	2019-11-03	NO OBSERVATION (weather)																										
no	2019-11-04	NO OBSERVATION (weather)																										
no	2019-11-05	NO OBSERVATION (weather)																										
20	2019-11-06	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN
no	2019-11-07	NO OBSERVATION (weather)																										
21	2019-11-08	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	BN
no	2019-11-09	NO OBSERVATION (weather)																										
no	2019-11-10	NO OBSERVATION (weather)																										
no	2019-11-11	NO OBSERVATION (weather)																										
no	2019-11-12	NO OBSERVATION (weather)																										
no	2019-11-13	NO OBSERVATION (weather)																										
22	2019-11-14	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BN
23	2019-11-15	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DC
	November	18.5	0	0	2	0	2	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	9	
	TOTALS	71.5	0	0	48	0	13	0	2	0	4	0	1	54	1	0	0	0	0	0	0	0	2	0	0	125		
	Date	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL		
	Sites																											
	BN	Mount Bill Nye (20 days)																										
	WC	Wolf Creek (2 days)																										
	DC	Diorite Creek (1 day)																										

TABLE 13											
STEEPLES, FALL 2020, SUMMARY WEATHER											
Day #			RIDGE WIND		CLOUD		PRECIPITATION & NOTES	RIDGES	#	SITE	
			TEMP °C	Direction	Velocity	%		type		migrant raptors	
no	Sep	20								no	
no	Sep	21								no	
no	Sep	22								no	
no	Sep	23								no	
no	Sep	24								no	
no	Sep	25								no	
no	Sep	26								no	
no	Sep	27								no	
no	Sep	28								no	
no	Sep	29								no	
no	Sep	30								no	
no	Oct	1								no	
1	Oct	2	16	calm		0		slight smoke haze	clear	3	BN
2	Oct	3	20	calm		0			clear	1	BN
3	Oct	4	21	SW	L	100	As,Cu,lent		clear	1	BN
no	Oct	5								no	
4	Oct	6	23	SW-W	M-S, L	60	Cu	smoke haze from local burn	clear	1	BN
no	Oct	7								no	
no	Oct	8						rain after 1600		no	
5	Oct	9	18	S	M	100-60	Cu,As,lent		clear	0	BN
no	Oct	10						rain and neavy overcast	obscured	no	
6	Oct	11	11	S	M-S	89-70	As,Cu	cumulus dark	clear	33	BN
7	Oct	12	12	SW/E-SE/calm	M-C	100-60	As,Cu	partially sunny	obscured to 1200	39	BN
no	Oct	13						rain and wet snow	obscured	no	
no	Oct	14								no	
8	Oct	15	12	SW	L	50	Cu	sunny	clear	4	BN
no	Oct	16						rain and overcast to 1500	obscured	no	
9	Oct	17	7	N	L	70-100	St,As		obscured	1	BN
no	Oct	18						snow and rain all day	obscured	no	
no	Oct	19						low overcast	obscured	no	
10	Oct	20	8	calm		80	Cu		obscured to 1200	0	BN
no	Oct	21						snow beginning 1630	partially clear	no	
11	Oct	22	1	calm		60	Cu,Ac	sunny	obscured in am	0	BN
no	Oct	23						light snow all day	obscured	no	

TABLE 14																										
YEARLY SUMMARY FALL TOTALS, STEEPLES 2009-2020																										
	days	hrs.	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ME	GY	PG	PR	UA	UB	UE	UF	UU	T
2009	41	148	2	1	146	7	37	4	5	0	0	9	0	13	226	1	1	0	0	0	0	0	1	0	0	453
2010	34	145.5	0	1	191	2	18	0	2	0	0	7	0	8	162	0	0	0	0	0	0	4	4	0	0	399
2011	23	73.5	0	1	130	0	15	0	2	0	0	18	0	1	93	1	0	0	1	0	0	0	1	0	0	263
2012	12	36	1	0	74	1	3	0	2	0	0	0	0	5	22	0	0	0	0	0	0	0	0	0	0	108
2013	16	43	0	0	21	0	12	0	2	0	0	6	0	3	106	0	0	0	0	0	0	0	0	0	0	150
2014	37	126.5	0	2	128	3	31	0	5	0	0	38	0	2	64	4	0	0	0	0	0	0	0	0	0	277
2015	35	123.25	0	4	230	3	35	2	2	0	0	12	0	3	96	1	0	0	0	0	0	0	0	0	0	388
2016	37	161.75	1	7	222	8	103	2	9	0	0	49	0	11	206	6	2	0	2	1	0	0	0	0	0	629
2017	41	185	1	7	276	16	78	1	13	5	0	51	0	15	146	8	2	0	2	0	0	1	3	0	0	625
2018	50	212.5	1	2	116	14	72	4	8	3	0	75	0	3	177	3	3	1	1	0	0	0	2	0	1	486
2019	34	143.5	1	2	155	13	38	0	4	0	0	25	0	3	191	5	1	0	2	0	1	1	6	0	0	448
2020	23	71.5	0	0	48	0	13	0	2	0	0	4	0	1	54	1	0	0	0	0	0	0	2	0	0	125
TOTAL	383	1470	7	27	1737	67	455	13	56	8	0	294	0	68	1543	30	9	1	8	1	1	6	19	0	1	4351
Av 09-18	32.73	127.14	0.636	2.455	153.55	6.091	40.182	1.182	4.9091	0.7273	0	26.364	0	6.0909	135.3636	2.6364	0.818	0.0909	0.727	0.091	0.0909	0.545	1.545	0	0.091	384.18
19 cf Av	-29.72	-43.761	-100	-100	-68.74	-100	-67.65	-100	-59.259	-100		-84.83		-83.58	-60.1075	-62.07	-100	-100	-100	-100	-100	-100	29.41		-100	-67.46

raptors/hr
3.06
2.74
3.58
3.00
3.49
2.19
3.15
3.89
3.38
2.29
3.12
1.75
3.08
-43.24

TABLE 15																										
Comparison of the three RMERF sites, fall 2020																										
	DAYS	HRS	TV	OS	BE	NH	SS	CH	NG	BW	SW	RT	FH	RL	GE	AK	ML	GY	PG	PR	UA	UB	UE	UF	UU	TOTAL
Mount Lorette	53	552.55	0	6	207	14	104	22	69	4	2	68	0	26	2619	2	11	2	6	4	6	6	29	8	3	3218
Vicki Ridge	52	515.03	6	6	355	26	958	149	106	19	3	215	2	300	2569	16	25	1	10	6	7	8	34	1	1	4823
Steeple	23	71.5	0	0	48	0	13	0	2	0	0	4	0	1	54	1	0	0	0	0	0	0	2	0	0	125
TOTALS	75	1139.1	6	12	610	40	1075	171	177	23	5	287	2	327	5242	19	36	3	16	10	13	14	65	9	4	8166

raptors
/hr
5.82
9.36
1.75
7.17

TABLE 16A						
FALL 2020	SPECIES MEDIAN PASSAGE DATES			IMMATURE:ADULT AGE RATIOS		
	VICKI		MOUNT		VICKI	MOUNT
	RIDGE		LORETTE		RIDGE	LORETTE
TURKEY VULTURE	23-Sep					
OSPREY	23-Sep					
BALD EAGLE	28-Oct		22-Oct		0.64	0.71
NORTHERN HARRIER	03-Oct		27-Sep		1.67	0.83
SHARP-SHINNED HAWK	01-Oct		26-Sep		0.24	0.14
COOPER'S HAWK	29-Sep		01-Oct		0.47	0
NORTHERN GOSHAWK	20-Oct		06-Oct		0.26	0.37
BROAD-WINGED HAWK	27-Sep				0.64	
SWAINSON'S HAWK						
RED-TAILED HAWK	28-Sep		01-Oct		0.13	0.91*
FERRUGINOUS HAWK						
ROUGH-LEGGED HAWK	16-Oct		07-Oct			
GOLDEN EAGLE	14-Oct		07-Oct		0.32	0.32
AMERICAN KESTREL	27-Sep					
MERLIN	30-Sep					
GYRFALCON						
PEREGRINE FALCON	26-Oct		22-Sep		0	
PRAIRIE FALCON	02-Oct		01-Oct			
COMBINED SPECIES	11-Oct		06-Oct			
(Note: statistics are not calculated for less than 4 birds)						* anomalous
TABLE 16B	PERCENTAGE OF RAPTOR GROUPS					
	LORETTE	VICKI RIDGE	STEEPLES			