

**Williamson's Sapsucker (*Sphyrapicus thyroideus*)
Pre-harvest Surveys in
Cutting Permits 807 and 809 in Canfor's
Operating Area, East Kootenay**



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Table of Contents

1.0	INTRODUCTION	1
2.0	METHODS	2
3.0	RESULTS	4
3.1	New Williamson's Sapsucker detections.....	4
3.2	Known Williamson's Sapsucker areas	6
3.3	Other features of importance.....	6
4.0	DISCUSSION	7
5.0	LITERATURE CITED	8
	APPENDIX A. Raw data from field observations, sorted by Block No.....	10

List of Figures

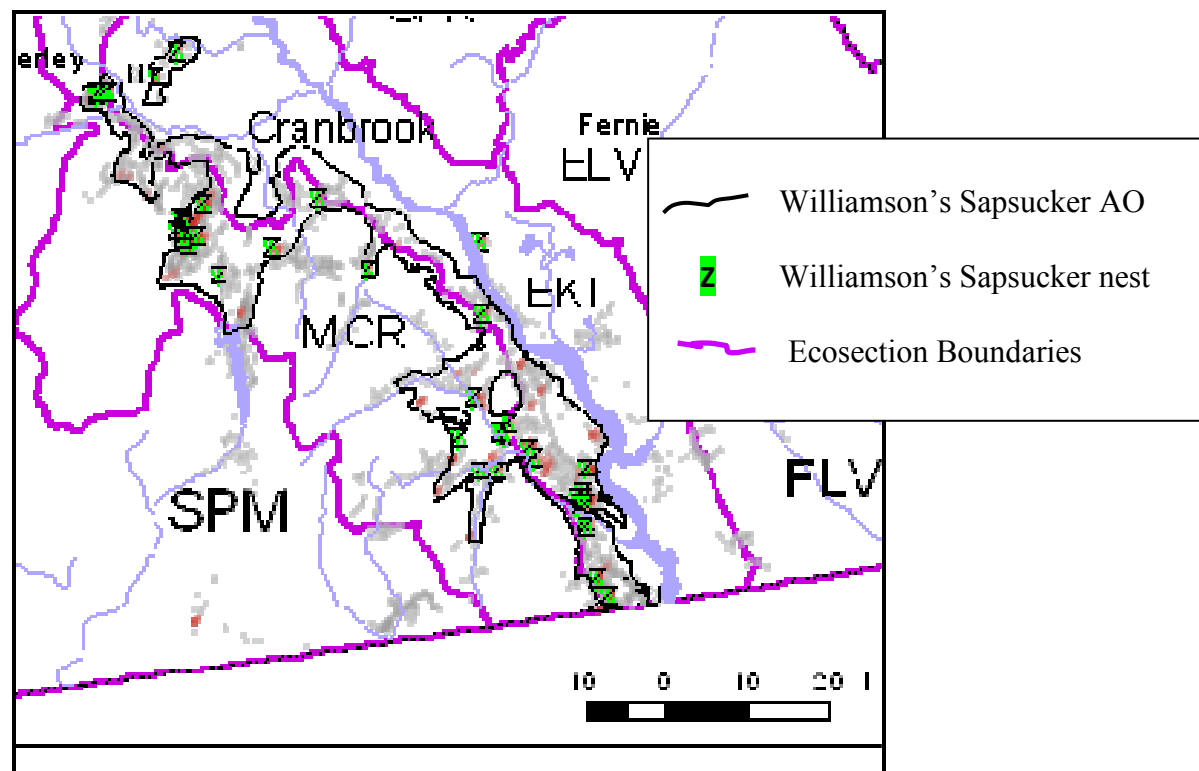
Figure 1	Provisional Williamson's Sapsucker Area of Occupancy in the East Kootenay (—).....	1
Figure 2	Overview of Williamson's Sapsucker CPB stations in the northern portion of CP 807/809 (top) and in the southern portion of CP 807/809 (bottom)	3
Figure 3	Location of WISA detection (W-1) and area covered by follow-up nest searches	4
Figure 4	Location of WISA detection (W-2) and area covered by follow-up nest searches	5
Figure 5	Locations of wildlife trees and other features of importance in CP809	6

1.0 INTRODUCTION

The Williamson's Sapsucker, *Sphyrapicus thyroideus nataliae*, is a federally endangered woodpecker on Schedule 1 under the Species at Risk Act (SARA) (COSEWIC 2005). Provincially the species is "Red-listed" (BC Min. of Environment 2007) and included in the BC Identified Wildlife Management Strategy (IWMS 2004). As part of Canfor's commitment to recovery of the Williamson's Sapsucker, this project was undertaken to conduct pre-harvest surveys in two new cutting permits, CP 807 and CP 809. The proposed blocks are located within the designated Area of Occupancy for the endangered Williamson Sapsucker (WISA) (Fig. 1). Some of these blocks are adjacent to Wildlife Habitat Areas (WHAs) that were legally established for Williamson's Sapsucker (IWMS 2004). As such, they have a high probability of containing a territory and/or nest.

The objective of this project was to determine if Williamson's Sapsucker were present in the proposed CP 807/809 blocks. Data collected will be used to assist in the development of site plans for these blocks and modification of block boundaries if necessary. In addition, occurrence information will assist Environment Canada (specifically, the Canadian Wildlife Service) with their long-term population monitoring of Williamson's Sapsuckers.

Figure 1. Provisional Williamson's Sapsucker Area of Occupancy (AO) in the East Kootenay



(after Gyug 2010)

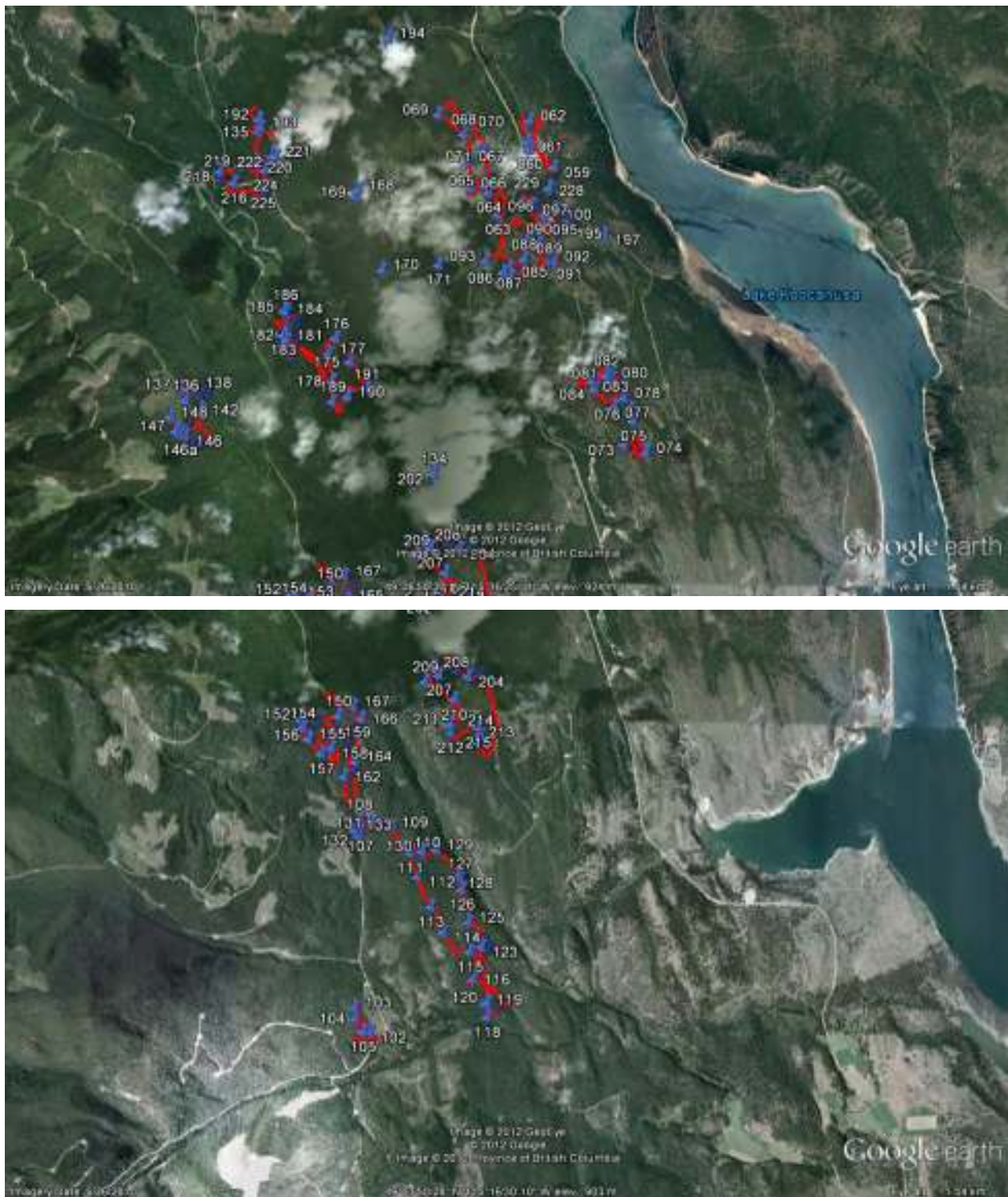
2.0 METHODS

To locate Williamson's Sapsuckers, we conducted call play-back surveys on transects in all the blocks in CP 807/809 (Fig. 2), using the standard methodology developed by the Forest Investment Account (FIA 2006). That protocol was as follows: the observer listened passively for 30 seconds to detect spontaneous drumming or calling. Then, a CD recording consisting of 2 drums followed by several cheeur calls and scold/alarm calls was broadcast using a TOA ER-604W megaphone in 3 directions, with 20 seconds of silence between each 10 seconds of playback. After each broadcast, the observer listened for a minimum of 2 minutes before moving on to the next cpb station. Call playbacks took place between April 23 and May 12, 2012, to coincide with the time at which the Williamson's Sapsucker are highly territorial and therefore, most detectable. Environmental conditions (wind speed, cloud cover and precipitation) and the time were also recorded on datasheets at each stop. Surveys were suspended during rain showers or when wind speeds exceeded Beaufort 4 (20-29 km per hr).

Call playback stations were located at a maximum of 400 m apart. throughout each proposed block to ensure full coverage of the blocks. Upon arrival at a station, the location and time were recorded on a Garmin GPS Map 70CSX unit for later download to MapSource and Ozi Explorer. The 'track' option of the GPS was also turned on while doing surveys.

Stations at which Williamson's Sapsuckers were detected were re-visited in early to mid-June for follow-up nest searches. Any stands of large larch trees, sapwell trees, raptor nests and wildlife trees/areas of importance were also recorded on datasheets and as waypoints on the GPS. Data was entered into an Excel spreadsheet that accompanies this report.

Figure 2. Overview of Williamson Sapsucker CPB Stations in the northern portion of CP 807/809 (top) and in the southern portion of CP 807/809 (bottom).

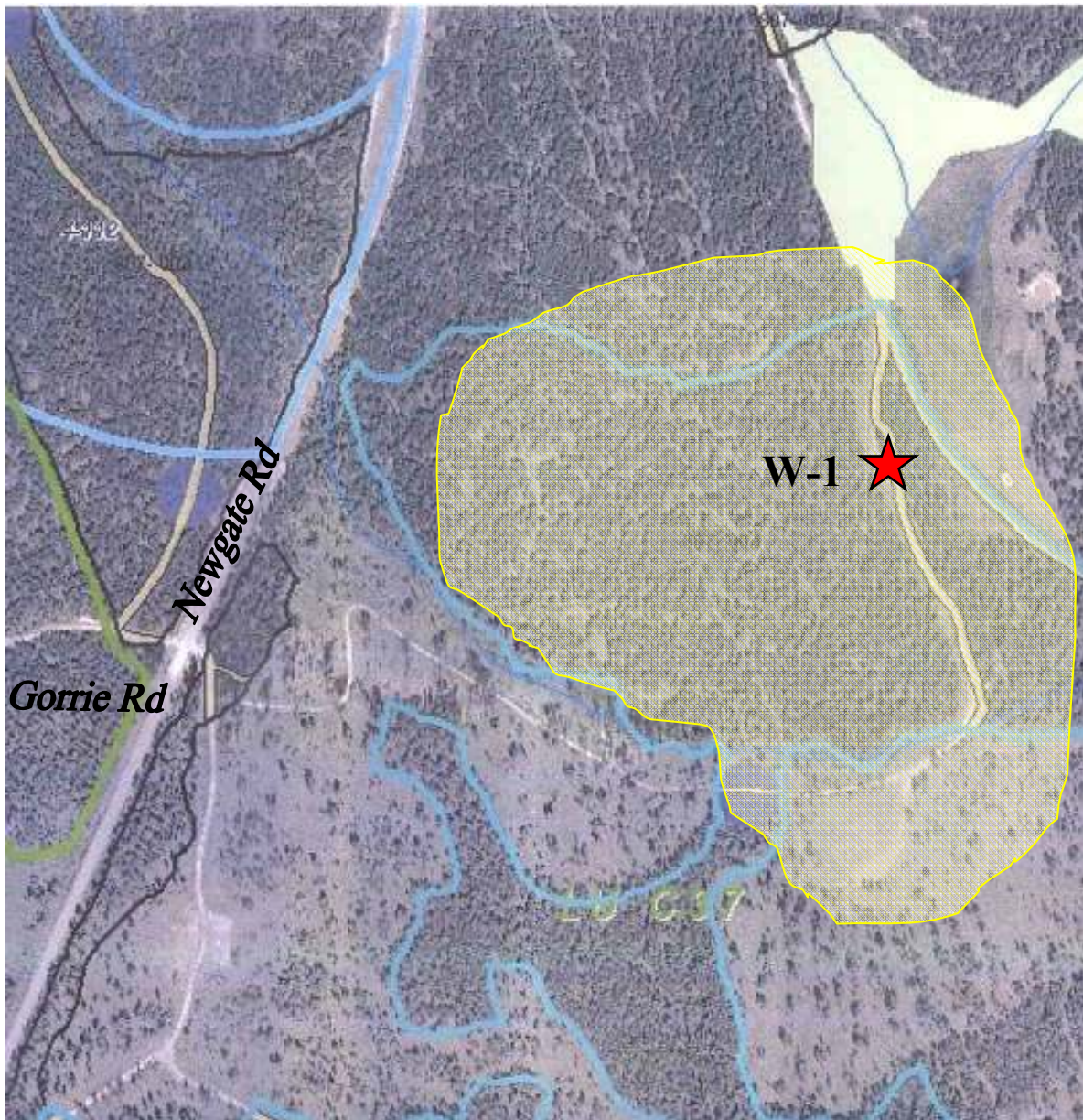


3.0 RESULTS

3.1 *Williamson's Sapsucker detections*

Two Williamson's Sapsucker detections were made. The first (W-1), a call rather than a drum, was given on April 23, east of the Gorrie Rd/Newgate Rd junction (UTM coordinates: 11 U 626513 5442670), within a proposed block¹. The location of the detection is shown in Fig. 3.

Figure 3. Location of WISA detection (W-1) and area covered by follow-up nest searches (yellow shading)



¹ Originally, this point was located in block 4, later re-named block 3

The second WISA detection (W-2) was located north of Purcell Creek. It occurred on April 26, (UTM: 11 U 622569 5440494), and came from an area approximately 100 m east of Block 14's boundary, from within an existing, older cut block (Fig. 4). This was a spontaneous drum, not elicited by the call playback machine. No WISA were detected inside the block itself.

A follow-up visit consisting of CPBs and ground searches occurred on May 7, but this visit failed to detect any Williamson Sapsuckers at either of the original detection sites. Follow-up nest searches at both detection sites occurred on June 19, 2012 from 13:30 to 15:20 pm (3 persons), but again failed to detect any Williamson's Sapsuckers or their nests in the area of the original detections.

Figure 4 Location of WISA detection (W-2) and area covered by follow-up nest searches (yellow shading).



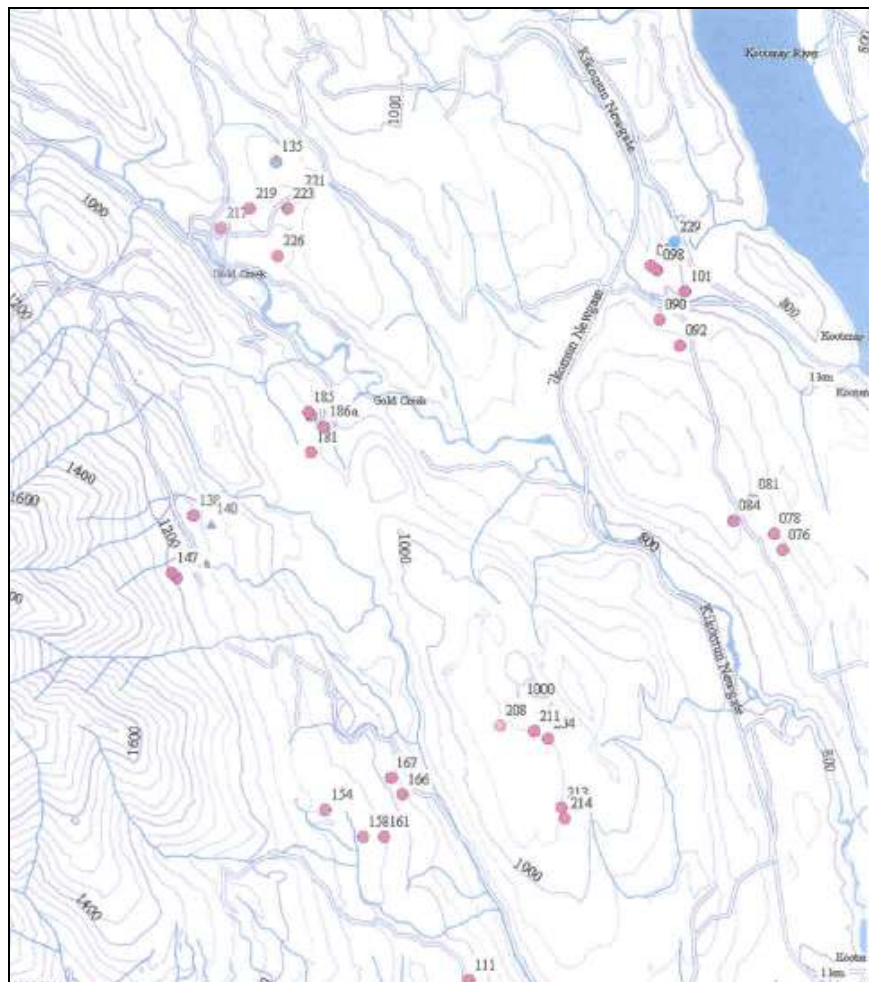
3.2 *Known Williamson's Sapsucker areas*

To assist in monitoring of Williamson's Sapsucker, five known nesting territories were visited during this project. Two of these, WNE028, off the Davis Meadow Branch 2 road, and WNE022, off Meadow Creek Rd, were occupied (Ohanjanian et al. 2008). No Williamson's Sapsucker were detected on three other territories, WNE017 and WNE018, as well as a territory near the Oestereich Road/Newgate Road junction.

3.3 *Other features of importance²*

Thirty two large diameter wildlife trees or groups of trees of importance to wildlife were found in blocks (Fig 5). One tree of note was a ponderosa pine wildlife tree (WTC3) with an active Pileated Woodpecker nest (hgt: 8 m, aspect: 140°) located in Block 4/3 (Waypoint 92, Fig 5). In addition, two large larches with sapsucker-sized nest holes were found in Blocks 7 and 12 (Waypoints 185 and 111, respectively, Fig 5).

Figure 5 Locations of wildlife trees and other features of importance in CP809



²Locations and UTM coordinates of these are included in Appendix A and a separate shape file that accompanies this report

An active osprey nest was detected at Block 4 (Waypoint 229, Fig 5) and a goshawk was observed in Block 11 (Waypoint 135). During the May 7 visit an active goshawk nest was found in this block, and the block boundary subsequently adjusted. An ungulate lick was found just outside of Block 10 (Waypoint 208, Fig 5).

In addition to wildlife features of importance, an archaeological site consisting of beach terraces was identified in Block 14 (Waypoint 140).

4.0 DISCUSSION

The call playback surveys for Williamson's Sapsucker in this project took place at the optimal time for detecting this species, during territorial establishment. However, the two detections that were made could not be confirmed during a follow-up visit and did not result in any nests being found. This may have been because a) the birds were unmated or passing through at the time of the original detection and did not establish a territory there, b) nests were built outside the proposed blocks and were not found, and/or c) nests were present but failed between the initial detection and subsequent nest search and thus were not found. In addition, it is possible that the first detection, W-1, which was of a call rather than a drum, was actually that of a Red-naped Sapsucker, rather than a Williamson's Sapsucker (the calls of the two species can sound very similar). During the follow-up visit on May 7 a red-naped sapsucker was observed drumming on a snag very close to the CPB station.

It is recommended that follow-up surveys be carried out two to five years following harvest of the blocks to see if Williamson's Sapsucker occupy the modified habitat. Despite the fact that no Williamson Sapsuckers were detected during these surveys, because the proposed blocks fall within the area of occurpany, it is hoped that wildlife trees, especially western larch and ponderosa pine, are retained and that the stand structure that remains after harvesting is compatible with the guidelines set by the Williamson's Sapsucker Recovery Team and IWMS.

5.0 LITERATURE CITED

- COSEWIC. 2005. COSEWIC Status Report on Williamson's Sapsucker *Sphyrapicus thyroideus*. Prepared for the Committee on the Status of Endangered Wildlife in Canada. URL: <http://www.sararegistry.gc.ca>
- FIA. 2006. Information Gathering and Management Component, Resource Inventories Activity Area, Wildlife and Wildlife Habitat Activities, specifically Williamson's Sapsucker Inventory, Stand-level Habitat Assessment and Nest Productivity Assessment Standards. Forest Investment Account. BC Ministry of Forests and Range, Victoria. URL: http://www.env.gov.bc.ca/fia/documents/WISA_inventory_LBIP_standards.pdf
- Gyug, L. 2010. Williamson's Sapsucker Final Species Account for Species-habitat Model for the East Kootenay. Report prepared for Ecosystems Branch, Ministry of Environment, Victoria, BC, and Canadian Wildlife Service, Environment Canada, Delta, BC
- IWMS. 2004. Williamson's Sapsucker. Accounts and Measures for Managing Identified Wildlife – Accounts V. Prep. By J. Cooper and E.T. Manning.
- Ohanjanian, P., P. Davidson, S. Hansen and J. Beare. 2008. Williamson's Sapsucker in the East Kootenay Region: Results of 2008 Inventory. Report for Tembec Industries, Inc., B.C. Forest Investment Account and B.C. Min. of Environment. 43 pp

APPENDIX A. Raw data from field observations, sorted by Block Number.

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
2	59	CPB	April 22, 2012	11 U 626487 5443170	746 m	
2	60	CPB	April 22, 2012	11 U 626199 5443378	817 m	
2	61	OBS	April 22, 2012	11 U 626167 5443465	829 m	
2	62	CPB	April 22, 2012	11 U 626192 5443712	856 m	
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
3	63	CPB	April 22, 2012	11 U 625842 5442589	838 m	
3	64	OBS	April 22, 2012	11 U 625727 5442849	863 m	Packrat nest
3	65	CPB	April 22, 2012	11 U 625673 5442926	865 m	
3	66	NST	April 22, 2012	11 U 625514 5442891	898 m	Occupied Osprey nest
3	67	CPB	April 22, 2012	11 U 625484 5443205	904 m	
3	68	CPB	April 22, 2012	11 U 625420 5443530	861 m	
3	69	CPB	April 22, 2012	11 U 625121 5443750	892 m	
3	70	CPB	April 22, 2012	11 U 625464 5443683	860 m	
3	71	CPB	April 22, 2012	11 U 625640 5443331	847 m	
3	72	CPB	April 22, 2012	11 U 625757 5442995	842 m	
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
4	85	OBS	April 23, 2012	11 U 626011 5441852	920 m	Packrat nest
4	86	OBS	April 23, 2012	11 U 625920 5441897	914 m	Packrat nest
4	87	CPB	April 23, 2012	11 U 625986 5441947	908 m	
4	88	OBS	April 23, 2012	11 U 626160 5442064	865 m	Packrat nest
4	89	CPB	April 23, 2012	11 U 626176 5442253	853 m	
4	90	WLT	April 23, 2012	11 U 626329 5442260	840 m	Class 3 Lw with cavities
4	91	CPB	April 23, 2012	11 U 626416 5441959	877 m	
4	92	WLT	April 23, 2012	11 U 626510 5442044	863 m	Class 3 Py with cavities - PIWO nest aspect 140° 25 feet height
4	93	CPB	April 23, 2012	11 U 625710 5442034	846 m	
4	94	CPB	April 23, 2012	11 U 626330 5442384	809 m	
4	95	OBS	April 23, 2012	11 U 626359 5442486	808 m	Packrat nest
4	96	CPB	April 23, 2012	11 U 626103 5442700	830 m	
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
4	97	WLT	April 23, 2012	11 U 626241 5442716	835 m	Class 2 Py with cavities
4	98	WLT	April 23, 2012	11 U 626296 5442680	828 m	Recent Fd stub
4	99	OBS	April 23, 2012	11 U 626476 5442687	819 m	Packrat nest
4	100	CPB	April 23, 2012	11 U 626513 5442670	811 m	WISA detection

4	101	WLT	April 23, 2012	11 U 626537 5442508	807 m	Class 3 Py vet with cavities
4	195	CPB	May 7, 2012	11 U 626640 5442447	797 m	
4	196	CPB	May 7, 2012	11 U 626715 5442606	790 m	
4	197	CPB	May 7, 2012	11 U 627096 5442384	792 m	
4	228	OBS	May 12, 2012	11 U 626432 5442890	878 m	Kari's Osprey nest observation location
4	229	NST	May 12, 2012	11 U 626436 5442922	813 m	Confirmed occupied Osprey nest - outside block boundary
4	230	CPB	May 12, 2012	11 U 626561 5442655	795 m	
4	231	CPB	May 12, 2012	11 U 626563 5442378	802 m	Sapwells in Fd

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
7	174	CPB	April 29, 2012	11 U 624368 5440494	951 m	
7	175	CPB	April 29, 2012	11 U 624171 5440809	979 m	
7	176	CPB	April 29, 2012	11 U 623997 5441078	977 m	
7	177	CPB	April 29, 2012	11 U 623923 5440897	979 m	
7	178	CPB	April 29, 2012	11 U 623969 5440576	965 m	
7	179	CPB	April 29, 2012	11 U 623485 5440835	954 m	
7	180	OBS	April 29, 2012	11 U 623333 5441010	940 m	Wetland
7	181	WLT	April 29, 2012	11 U 623416 5441043	957 m	Class 3 Lw with OBT within WTP
7	182	OBS	April 29, 2012	11 U 623386 5441105	950 m	DANGER TREE within WTP
7	183	CPB	April 29, 2012	11 U 623377 5441106	957 m	
7	184	WLT	April 29, 2012	11 U 623407 5441356	936 m	Class 2 Lw (large dia)
7	185	WLT	April 29, 2012	11 U 623386 5441381	936 m	Class 2 Lw with sapsucker sized nest hole
7	186	CPB	April 29, 2012	11 U 623392 5441406	936 m	
7	186a	WLT	May 3, 2012	11 U 623518 5441259		Class 2 Lw with cavities just outside WTP
7	187	CPB	April 29, 2012	11 U 623467 5441221	941 m	
7	188	CPB	April 29, 2012	11 U 623524 5441010	942 m	
7	189	CPB	April 29, 2012	11 U 623977 5440337	963 m	

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
7	190	CPB	April 29, 2012	11 U 624157 5440401	1007 m	
7	191	SWT	April 29, 2012	11 U 624365 5440494	956 m	Many sapwells in many Fd along road

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
8	73	CPB	April 23, 2012	11 U 627376 5439895	913 m	
8	74	CPB	April 23, 2012	11 U 627636 5439806	904 m	

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
9	75	CPB	April 23, 2012	11 U 627481 5440177	904 m	
9	76	WLT	April 23, 2012	11 U 627437 5440314	898 m	Class 2 Py with cavities
9	77	CPB	April 23, 2012	11 U 627246 5440338	900 m	
9	78	WLT	April 23, 2012	11 U 627362 5440450	895 m	Class 4/5 Py vet with cavities
9	79	OBS	April 23, 2012	11 U 627360 5440500	893 m	Packrat nest

9	80	CPB	April 23, 2012	11 U 627209 5440684	911 m	
9	81	WLT	April 23, 2012	11 U 627171 5440735	917 m	Class 4/5 Py vet with cavities
9	82	OBS	April 23, 2012	11 U 627148 5440712	920 m	Packrat nest
9	83	CPB	April 23, 2012	11 U 626984 5440641	937 m	
9	84	WLT	April 23, 2012	11 U 627016 5440550	940 m	Class 6 Py with cavities
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
10	203	CPB	May 12, 2012	11 U 625626 5438681	1009 m	
10	204	WLT	May 12, 2012	11 U 625489 5438659	1041 m	Large diameter Lw stub
10	205	WLT	May 12, 2012	11 U 625369 5438721	1041 m	Class 1 Lw with "mutated" lower branch - with stick nest
10	206	CPB	May 12, 2012	11 U 625320 5438768	1039 m	
10	207	OBS	May 12, 2012	11 U 625156 5438667	1053 m	Poss hawk alarm 100m @ 270°
10	208	OBS	May 12, 2012	11 U 625081 5438759	1056 m	Ungulate lick - outside block in WHA
10	209	CPB	May 12, 2012	11 U 625000 5438582	1065 m	
10	210	CPB	May 12, 2012	11 U 625335 5438384	1070 m	
10	211	WLT	May 12, 2012	11 U 625293 5438094	1066 m	Class 2 Fd with branching structure - future nesting site?
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
10	212	CPB	May 12, 2012	11 U 625299 5438001	1063 m	
10	213	WLT	May 12, 2012	11 U 625615 5438077	1050 m	small dia Lw with nest holes - flagged - value?
10	214	WLT	May 12, 2012	11 U 625644 5437983	1045 m	Large dia Class 6 Py - numerous recent use cavities
10	215	CPB	May 12, 2012	11 U 625622 5437897	1046 m	
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
11	135	OBS	April 26, 2012	11 U 623038 5443492	1251 m	Kari's Goshawk observation location
11	192	NST	April 29, 2012	11 U 623035 5443640	927 m	Small sticknest in Fd
11	193	NST	April 29, 2012	11 U 623057 5443548	933 m	Occupied sticknest in Fd (poss Goshawk)
11	216	CPB	May 12, 2012	11 U 622749 5442890	878 m	
11	217	WLT	May 12, 2012	11 U 622587 5442917	870 m	Class 2 Lw with DML - future nesting site?
11	218	CPB	May 12, 2012	11 U 622585 5443022	881 m	
11	219	WLT	May 12, 2012	11 U 622824 5443093	892 m	Large dia Class 6/7 Lw - within WTP
11	220	CPB	May 12, 2012	11 U 623016 5443137	912 m	
11	221	WLT	May 12, 2012	11 U 623238 5443206	922 m	Large dia Class 6/7 Lw - flagged
11	222	CPB	May 12, 2012	11 U 623199 5443203	917 m	
11	223	WLT	May 12, 2012	11 U 623148 5443103	906 m	Large dia Class 2 Lw (dead top/forked) - inside block
11	224	WLT	May 12, 2012	11 U 623115 5443045	902 m	Stick nest in Class 1 Py
11	225	CPB	May 12, 2012	11 U 623088 5442834	883 m	
11	226	WLT	May 12, 2012	11 U 623075 5442696	876 m	Pothole slough with Class 2 Lw - Potential WTP
11	227	OBS	May 12, 2012	11 U 623081 5442655	876 m	South of road GPS track follows significant movement corridor
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
12	106	CPB	April 24, 2012	11 U 624296 5436833	1013 m	

12	107	CPB	April 24, 2012	11 U 624289 5436830	1040 m	
12	108	CPB	April 25, 2012	11 U 624276 5436967	1016 m	
12	109	SWT	April 25, 2012	11 U 624641 5436886	1016 m	Old sapwells in Fd
12	110	CPB	April 25, 2012	11 U 624788 5436652	1025 m	
12	111	WLT	April 25, 2012	11 U 624867 5436592	1022 m	Class 2 Lw with sapsucker sized nest hole
12	112	CPB	April 25, 2012	11 U 624961 5436317	1007 m	

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
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12	113	CPB	April 25, 2012	11 U 625115 5435967	982 m	
12	114	CPB	April 25, 2012	11 U 625264 5435674	951 m	
12	115	CPB	April 25, 2012	11 U 625578 5435448	925 m	
12	116	CPB	April 25, 2012	11 U 625622 5435124	935 m	
12	117	CPB	April 25, 2012	11 U 625934 5434831	915 m	
12	118	CPB	April 25, 2012	11 U 625795 5434683	933 m	
12	119	CPB	April 25, 2012	11 U 625773 5434831	938 m	
12	120	SWT	April 25, 2012	11 U 625793 5434857	927 m	Sapwells in Fd
12	121	SWT	April 25, 2012	11 U 625797 5435486	911 m	Sapwells in Fd
12	122	SWT	April 25, 2012	11 U 625766 5435482	917 m	Old sapwells in Fd
12	123	SWT	April 25, 2012	11 U 625711 5435511	924 m	Old sapwells in Fd
12	124	CPB	April 25, 2012	11 U 625716 5435560	921 m	
12	125	CPB	April 25, 2012	11 U 625551 5435795	951 m	
12	126	CPB	April 25, 2012	11 U 625467 5436179	931 m	
12	127	CPB	April 25, 2012	11 U 625443 5436313	931 m	
12	128	OBS	April 25, 2012	11 U 625407 5436318	930 m	Area of DML
12	129	CPB	April 25, 2012	11 U 625164 5436642	951 m	
12	130	CPB	April 25, 2012	11 U 625003 5436615	1024 m	
12	131	CPB	April 25, 2012	11 U 624426 5436933	1012 m	
12	132	CPB	April 25, 2012	11 U 624263 5436782	1038 m	
12	133	OBS	April 25, 2012	11 U 624227 5436844	1052 m	Packrat nest

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
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13	102	CPB	April 24, 2012	11 U 624442 5434481	981 m	
13	103	CPB	April 24, 2012	11 U 624262 5434769	1004 m	
13	104	OBS	April 24, 2012	11 U 624275 5434641	1003 m	Area of DML
13	105	SWT	April 24, 2012	11 U 624364 5434487	1006 m	Heavy use

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
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14	136	CPB	April 26, 2012	11 U 622344 5440336	1164 m	
14	137	SWT	April 26, 2012	11 U 622290 5440460	1172 m	Sapwells in Fd
14	138	WLT	April 26, 2012	11 U 622430 5440479	1144 m	Small cluster of class 5/6 Lw

14	139	OBS	April 26, 2012	11 U 622569 5440494	1110 m	WISA detection
14	140	OBS	April 26, 2012	11 U 622587 5440413	1114 m	Beach terraces - archaeology concerns?
14	141	SWT	April 26, 2012	11 U 622501 5440376	1138 m	Old sapwells in Fd
14	142	SWT	April 26, 2012	11 U 622517 5440228	1142 m	Old sapwells in Fd
14	143	SWT	April 26, 2012	11 U 622526 5439832	1165 m	Sapwells in Fd
14	144	CPB	April 26, 2012	11 U 622432 5439796	1188 m	
14	145	SWT	April 26, 2012	11 U 622435 5439805	1183 m	In upper 1/3 of Fd 50m @ 090°
14	146	SWT	April 26, 2012	11 U 622358 5439933	1192 m	In midsection of Fd 50m @ 014°
14	146a	WLT	May 3, 2012	11 U 622303 5439947		Group of Class 2/3/4 Lw with DML
14	147	WLT	April 26, 2012	11 U 622261 5439986	1210 m	Class 1 Lw - large diameter - 35m @ 162°
14	148	CPB	April 26, 2012	11 U 622194 5440142	1208 m	
14	149	SWT	April 26, 2012	11 U 622388 5440034	1178 m	Many sapwells in many Fd

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
99	150	CPB	April 28, 2012	11 U 624009 5438168	985 m	
99	151	OBS	April 28, 2012	11 U 623772 5438078	1060 m	DML
99	152	CPB	April 28, 2012	11 U 623581 5438107	1064 m	
99	153	OBS	April 28, 2012	11 U 623642 5438075	1078 m	Unfamiliar bird call - confirmed Raven
99	154	WLT	April 28, 2012	11 U 623612 5438009	1089 m	Class 2(3) Lw
99	155	CPB	April 28, 2012	11 U 623682 5437882	1086 m	
99	156	OBS	April 28, 2012	11 U 623691 5437869	1090 m	UNK Raptor call 250m @ 283°
99	157	CPB	April 28, 2012	11 U 623831 5437717	1066 m	
99	158	WLT	April 28, 2012	11 U 623939 5437786	1073 m	Class 2(3) Lw
99	159	CPB	April 28, 2012	11 U 623963 5437912	1074 m	
99	160	CPB	April 28, 2012	11 U 624141 5437939	1037 m	
99	161	OBS	April 28, 2012	11 U 624117 5437790	1046 m	patch of large dia Lw with DML
99	162	CPB	April 28, 2012	11 U 624090 5437460	1052 m	
99	163	SWT	April 28, 2012	11 U 624212 5437548	1034 m	Sapwells in Fd
Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:

99	164	OBS	April 28, 2012	11 U 624213 5437646	1036 m	sapsucker sized nest hole in Lw 70m @ 266°
99	165	SWT	April 28, 2012	11 U 624207 5438020	1020 m	Sapwells in Fd
99	166	WLT	April 28, 2012	11 U 624262 5438156	979 m	Large diameter Class 2 Lw
99	167	WLT	April 28, 2012	11 U 624166 5438295	990 m	Many larger Class 2/3/4 Lw

Blk #	Stn. #	Feature	Date	UTM (NAD 83)	Elev.	Comments:
N/A	134	CPB	April 25, 2012	11 U 625170 5439527	1032 m	Known WISA nesting site
N/A	168	CPB	April 28, 2012	11 U 624212 5442829	940 m	Known WISA nesting site - Detection
N/A	169	OBS	April 28, 2012	11 U 624187 5442752	917 m	Visual observation of WISA pair at old nest tree
N/A	170	CPB	April 28, 2012	11 U 624510 5441900	873 m	Known WISA nesting site
N/A	171	CPB	April 28, 2012	11 U 625160 5441974	843 m	Known WISA nesting site
N/A	172	OBS	April 28, 2012	11 U 626208 5460970	795 m	Badger observation - April 21, 2012 @ approx 1200 hrs
N/A	173	CPB	April 28, 2012	11 U 626985 5450478	821 m	Known WISA area

N/A	194	CPB	May 7, 2012	11 U 624522 5444634	933 m	Occupied Osprey nest in WTP
N/A	202	CPB	May 12, 2012	11 U 625169 5439524	1017 m	Known WISA area