

## 2004 Red-shouldered Hawk & & Spring Woodpecker Survey

Please contact Susan Debreceni (1-888-448-2473, [sdebreceni@bsc-eoc.org](mailto:sdebreceni@bsc-eoc.org)) if you have any questions or problems or are unable to complete this survey. Please return completed forms by 15 May 2004 in the envelope provided to: **RSHA Survey, Bird Studies Canada, P.O. Box 160, Port Rowan, ON, N0E 1M0, Fax: 519-586-3532.**

**ROUTE NAME:** \_\_\_\_\_ **ROUTE #:** \_\_\_\_\_

Route Status (*circle one*):      Established route      Modified route      New route

Do you wish to participate next year? (*check one*)    Yes \_\_\_\_\_    No \_\_\_\_\_

**SURVEYOR:** \_\_\_\_\_ **ASSISTANT:** \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

? Telephone (home): \_\_\_\_\_ ? Telephone (home): \_\_\_\_\_

? Telephone (work): \_\_\_\_\_ ? Telephone (work): \_\_\_\_\_

 Email: \_\_\_\_\_  Email: \_\_\_\_\_

### BROADCAST EQUIPMENT (as actually used in the survey)

**Equipment supplied by BSC:**

\_\_\_\_\_ SANYO portable tape deck with treble horn speaker

\_\_\_\_\_ YAMAHA car stereo unit with treble horn speaker

BSC Stereo ID #: \_\_\_\_\_

**Personal Unit:**

\_\_\_\_\_ Small, portable tape player with single speaker

\_\_\_\_\_ Luggable stereo with dual speakers

\_\_\_\_\_ Other (please describe)

Make/Model (speaker output if known):

### RESULTS OF PRE-SURVEY EQUIPMENT TEST

When you tested your portable stereo, could you hear the Red-shouldered Hawk call (when playing the broadcast tape at maximum volume without distortion) at:

100 meters?      YES      NO

250 meters?      YES      NO

500 meters?      YES      NO

**COMMENTS:**

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**INSTRUCTIONS AND CODING INFORMATION** (see Citizen Scientist's Guide for details)

**SURVEY WINDOW:** 17 APRIL - 7 MAY 2004

**TIMING:** Please begin your survey shortly after sunrise. It should take about 4 hours to complete.

**WEATHER:** If possible, the survey should be conducted on a calm day with little wind (less than Beaufort Force 4, see below) and no precipitation.

**ROUTE:** Any proposed changes to the route configuration should be confirmed with the project coordinator prior to the survey. Survey routes are 19 km long. It is recommended that new surveyors scout their route prior to the survey.

**STOPS:** Each route consists of 20 stops. Stops should be located every 1.0 km along the survey route as much as possible. If a stop is unsafe, too close to a house, too noisy, etc. move to the next suitable location. If yours is a new route, be sure to include a detailed map with each stop clearly marked.

~ WEATHER CODES ~		☞ NOISE LEVEL CODES (Choose only one!) ☜
<p><b>WIND (Beaufort Scale)</b></p> <p>0. Calm, smoke rises vertically.</p> <p>1. Light air movement, smoke drifts.</p> <p>2. Slight breeze, wind felt on face.</p> <p>3. Gentle breeze, small twigs move.</p> <p>4. Moderate breeze, small branches move.</p> <p>5. Fresh breeze, small trees sway.</p>	<p><b>CLOUD COVER</b></p> <p>1. 0-25%</p> <p>2. 25-50%</p> <p>3. 50-75%</p> <p>4. 75-100%</p> <p>5. Fog</p>	<p>1. None or slight, relatively quiet, little interference.</p> <p>2. Moderate, some interference with broadcast and/or listening.</p> <p>3. High, substantial interference with broadcast and/or listening.</p> <p>4. Excessive noise, extreme interference with broadcast and/or listening.</p>
		<p>☞ TRAFFIC ☞</p> <p>Record number of vehicles which pass by during broadcast period.</p>

HAWK SPECIES CODES		
TUVU - Turkey Vulture	RSHA - Red-shouldered Hawk	UNKA - Unidentified Accipiter
OSPR - Osprey	BWHA- Broad-winged Hawk	UNKB - Unidentified Buteo
BAEA - Bald Eagle	RTHA - Red-tailed Hawk	UNKF - Unidentified Falcon
NOHA - Northern Harrier	RLHA - Rough-legged Hawk	
SSHA - Sharp-shinned Hawk	AMKE- American Kestrel	
COHA - Cooper's Hawk	MERL - Merlin	
NOGO - Northern Goshawk	PEFA - Peregrine Falcon	
WOODPECKER SPECIES CODES		
RHWO - Red-headed Woodpecker	DOWO - Downy Woodpecker	NOFL - Northern Flicker
RBWO- Red-bellied Woodpecker	HAWO - Hairy Woodpecker	PIWO - Pileated Woodpecker
YBSA - Yellow-Bellied Sapsucker	TTWO - Three-toed Woodpecker	UNKW - Unidentified Woodpecker
	BBWO - Black-backed Woodpecker	

# Red-shouldered Hawk and Spring Woodpecker Survey

Route #  

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Woodpecker Identification Skills									
	PIWA	YBSA	DOWO	HAWO	NOFL	RBWO	RHWO	BBWO	TTWO
<b>Sight:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Call:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Drumming:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mon Day

2	0	0	

Weather	Wind					Cloud Cover					Precipitation				Temperature			
Start of Survey:	0	1	2	3	4	5	1	2	3	4	5	None	Trace	Rain	Snow	+/-	<table border="1" style="width: 20px; height: 20px;"></table>	°C
End of Survey:	0	1	2	3	4	5	1	2	3	4	5	None	Trace	Rain	Snow	+/-	<table border="1" style="width: 20px; height: 20px;"></table>	°C

Stop #	Time (am)	Odometer (km)	HAWKS			WOODPECKERS			Traffic Count (# cars)	Noise Level (1-4)	Comments
			Species Code	Adult	Imm	Unk	Species Code	Total			
1	:										
2	:										
3	:										
4	:										
5	:										
6	:										
7	:										
8	:										
9	:										
10	:										

# Red-shouldered Hawk and Spring Woodpecker Survey

Stop #	Time (am)	Odometer (km)	HAWKS			WOODPECKERS			Traffic Count (# cars)	Noise Level (1-4)	Comments
			Species Code	Adult	Imm	Unk	Species Code	Total			
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

**Additional Hawks and Woodpeckers**

Use these lines for additional hawk or woodpecker species

Stop #	Species Code	Adult	Imm	Unk	Species Code	Total	Drum Only

For Office Use Only  
ID #

2004 Red-shouldered Hawk & Spring Woodpecker Survey **STOP DESCRIPTIONS**

PREPARED BY: _____	DATE: MM / DD / YY 0_ / ___ / 200_	ROUTE NAME: _____	ROUTE #: _____
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STOP #	Longitude (Easting)	Latitude (Northing)	NAD (83 or 27)	DESCRIPTION (location, habitat, etc.)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_