

LANDBIRD MONITORING OBJECTIVES FOR BCR 13 IN ONTARIO

Trend Objectives:

For all species with regular breeding in BCR 13 Ontario (Relative Density > 1):

- Power to detect 50% decline over 20 years within BCR 13 Ontario [PIF objective], or
- Power to detect 50% decline over 20 years range-wide AND imprecise trend available within BCR 13 Ontario [e.g., BBS trends available, $df > 5$]
- Species-specific trend information on all Endangered/Threatened Species

Contribute to range-wide monitoring for species poorly monitored at Continental Level, especially PIF Species of Continental Importance (PIF North American Landbird Plan 2004)

- Conduct migration monitoring and/or winter surveys (e.g., CBC) to detect trends in poorly monitored species breeding further north

Distribution Objective:

Power to detect 15% change in size of breeding range at intervals of 20 years – continue to conduct Breeding Bird Atlases at 20 year intervals – [15% decline matches PIF PT = 4 criterion]

Demographic Objective:

Productivity, Survival and Fidelity tracked for species or study areas of high management concern / interest – e.g., selected species at risk, or birds within selected protected areas (to be identified).

Habitat Monitoring Objective:

Measure and report changes in land cover and land use, for the entire planning area, at regular intervals (5 years or less), ensuring data are directly comparable among time periods. [level of habitat detail feasible? needed?]

Ability to identify and track critical habitat for Species at Risk (?)

BACKGROUND to Trend Objectives:

Landbirds with Relative Density (RD) Score of 2 or more in BCR 13 Ontario: 110 species

- Species with power to detect 50% decline in 20 yr in BCR 13 Ontario: 64 species
- Less precise trends in BCR 13 Ontario, but objective met continentally: 31 species
- Of the remaining 15 species:
 - 5 have imprecise trends in Ontario and continentally (Ruffed Grouse, Osprey, Wild Turkey, Blue-headed Vireo, Black-throated Green Warbler)
 - 2 are Species at Risk (Henslow's Sparrow, Louisiana Waterthrush)
 - 3 are Owls (Northern Saw-whet Owl, Long-eared Owl, Eastern Screech-Owl)
 - 3 are Hawks (Cooper's Hawk, Northern Goshawk, Merlin)
 - 2 are Forest interior species with some Forest Bird Monitoring trend data (Brown Creeper, Cerulean Warbler)

Landbirds with RD=1 but on BCR 13 Breeding season Priority List: 11 species

- 7 species are listed Species at Risk, objectives set through SAR recovery programs as required (Bald Eagle, Barn Owl, Loggerhead Shrike, Northern Bobwhite, Peregrine Falcon, Red-shouldered Hawk, Yellow-breasted Chat)
- 4 species are very low density or peripheral breeding species in Ontario portion of BCR 13 (Bay-breasted Warbler, Prairie Warbler, Rusty Blackbird, Short-eared Owl)

Species of Continental Importance with inadequate northern coverage (<2/3rds range covered)::

- 18 species regularly monitored at migration monitoring stations in southern Ontario: Yellow-bellied Sapsucker, Alder Flycatcher, Yellow-bellied Flycatcher, Bay-breasted Warbler, Cape May Warbler, Magnolia Warbler, Tennessee Warbler, Black-throated Green Warbler, Canada Warbler, Mourning Warbler, Philadelphia Vireo, Blue-headed Vireo, Lincoln's Sparrow, Swamp Sparrow, White-throated Sparrow, Lapland Longspur, Snow Bunting, Rusty Blackbird.
- 5 species are adequately monitored within BCR 13 Ontario portion of breeding range: Yellow-bellied Sapsucker, Alder Flycatcher, Magnolia Warbler, Mourning Warbler, White-throated Sparrow.