

Picoides dorsalis

This species is complete.

December 14, 2010 by Michael Case

Author(s) Expertise:

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Sensitivity Factor	Sensitivity 1 - 7 (one being least sensitive, seven being most sensitive)	Confidence 1 - 5 (one being least sensitive, five being most sensitive)
Generalist/Specialist	5 High	4 Good
Physiology	2 Medium-Low	3 Fair
Life History	4 Medium-High	4 Good
Habitat	7 Extremely High	5 Very Good
Dispersal Ability	3 Medium	4 Good
Disturbance Regimes	4 Medium-High	4 Good
Ecology	3 Medium	3 Fair
Non-Climatic	4 Medium-High	3 Fair
Other (weight)		4 Good

Sensitivity Score : 57 Medium

Sensitivity Score

$100 * [(0.5 * (\text{Dispersal Distance} + \text{Dispersal Barriers}) + \text{Disturbance Regimes} + (0.5 * \text{Generalist/Specialist}) + \text{Physiology} + (0.5 * \text{Life History}) + \text{Sensitive Habitats} + \text{Ecology} + \text{Non-Climatic Stressors} + (\text{Other} * \text{Weight}) / 49 + (7 * \text{Weight})]$

Note: if Sensitive Habitats are identified, this factor automatically gets a value of seven, otherwise it remains zero.

Confidence Score : 3 Fair

Confidence Score

The Confidence Score is an average of the Confidence column above.

Overall User Ranking: 4 Medium-High

Common Name:

American Three-toed Woodpecker

Is this Species completed:

Yes

Taxonomy

This is a description of the whole group

Scientific Name:

Picoides dorsalis

Geography:

Idaho

Realm:

Terrestrial

Kingdom:

Animal

Phylum:

Craniata

Class:

Aves

Order:

Piciformes

Family:

Picidae

Genus:

Picoides

Global Rank:

G5 (2003)

Rounded Global Rank:

G5 - Secure

IUCN:

Least Concern ver 3.1 - 2009

US Endangered Species Act Code:

Not Listed

Species Element Code:

ABNYF07110

Generalist/Specialist

Broadly, where does this species fall on the spectrum of generalist to specialist? :

5

Confidence in your assessment of the degree to which the species is a generalist or specialist:

4 Good

Please specify which factors, if any, make the species more of a specialist:

foraging dependency

Please further describe the relationships that make the species more of a specialist:

Restricted to higher elevation montane and boreal forests; prey on bark beetle and cerambycids

Citations:

BNA account by D. L. Leonard 2001

Physiology

Species' physiological sensitivity:

2

Confidence in how physiologically sensitive the species is to climate change:

3 Fair

Please specify whether or not this species is physiologically sensitive to one or more of the following:

temperature

Please describe any specific physiological sensitivities:

Potential for physiological sensitivity related to higher temperatures

Life History

Species' reproductive strategy:

4

Confidence in your assessment of the species' reproductive strategy:

4 Good

Is the species polycyclic, iteroparous, or semelparous?:

Iteroparous (reproduces in successive cycles--characteristic of K-strategists)

Average length of time to reproductive maturity:

365

How many surviving young can an individual produce during a single reproductive

event under optimal conditions?:

2-4

How many reproductive events can an individual undergo in a single year under optimal conditions?:

1

Citations:

BNA account Leonard 2001

Sensitive Habitats

Depends on the following sensitive habitat types:

Grasslands/balds

Confidence in whether the species depends on the listed sensitive habitat types:

5 Very Good

Level of philopatry:

high

Comments:

occupy montane and boreal coniferous forests

Dispersal Ability

Maximum annual dispersal distance:

25-50km

Confidence in maximum annual dispersal distance:

3 Fair

Within the context of dispersal distance above, do barriers to dispersal exist?:

3

Confidence in barriers to dispersal exists:

5 Very Good

Comments:

Based on lack of available data on specific dispersal distances, we used the median dispersal distance for *Picoides borealis* of 42 km.

Disturbance Regimes

How sensitive is this species to one or more disturbance regimes:

4 moderately sensitive

Confidence in how sensitive is this species on one or more disturbance regimes:

4 Good

Please check all disturbance regimes upon which the species is sensitive:

Fire
Flooding
Disease

Please describe the disturbance regimes upon which the species is sensitive (frequency, timing, severity, duration):

low frequency, high-severity stand-replacing fires; disease related to forest health

Comments:

We included disease here in the context of insect outbreaks as well as heartrot that creates nesting opportunities. Flooding here is in the context of insect outbreaks.

Ecological Relationships

Please specify which of the following (if any) are sensitive to climate change for this species:

habitat
competition

Confidence in how sensitive the species is to other effects of climate change on its ecology:

3 Fair

Which types of climate and climate-driven changes in the environment affect these aspects of the species' ecology?:

precipitation

How sensitive is this species? ecological relationships to the effects of climate change?:

3

Comments:

We included temperature and precipitation in the context of moist coniferous forests.

Interacting non-climatic stressors

To what degree do other, non-climate-related threats, to the species make it more sensitive to climate change?:

4

Confidence in the degree to which non-climate-related threats affect the species' sensitivity to climate change:

3 Fair

Please check all of the stressors that make the species more sensitive to climate change:

habitat loss or degradation

Comments:

sensitive to timber harvest and forest fragmentation, altered fire regimes

Citations:

BNA account by Leonard 2001

Other Sensitivities**Confidence in other critical factors:**

4 Good

Confidence in the degree to which these factors make this species sensitive to climate change:

4 Good

Overall User Ranking**In your opinion, how would you rank the overall sensitivity of this species to climate change?:**

4(moderate sensitivity)

Confidence in your overall assessment of the sensitivity of this species to climate change:

3 Fair

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[1] <http://climatechangesensitivity.org/printpdf/657>