

HABITAT USE BY SNAG-ASSOCIATED SPECIES:
A BIBLIOGRAPHY FOR SPECIES OCCURRING
IN OREGON AND WASHINGTON

by

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Photograph by Rebecca Goggans

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Introduction

Fifty-seven species of wildlife rely on or frequently use snags for breeding, roosting, or denning in Oregon and Washington. Several publications offer information on use of snags by wildlife, influence of management activities on snags and snag users, and approaches to managing snags to benefit wildlife. Because of the diverse information available and the variety of sources in which it is published, it can be difficult for a biologist or land manager to compile information needed to understand habitat needs of a given species. To help compile information on species in Oregon and Washington, that use snags, we developed a comprehensive bibliography of published literature on ecology of species of wildlife closely associated with snags. Here we present it in a user-friendly format.

Methods used and scope of the database

We searched seven bibliographic databases available through Oregon State University's Valley Library to compile our bibliography (Table 1). Additional information on the databases may be found at <http://osulibrary.orst.edu>. Although at times snags provide important habitat for many species, we limited our search to species of wildlife that are closely associated with snags and that occur in Oregon or Washington. We defined “closely associated species” as those species

that require or very frequently use snags for breeding, roosting, denning, or foraging. Certain species that sometimes use snags but rely primarily on other structures for these activities were not included.

We searched each database for citations matching either the common or scientific name of each species. For example, to find citations on hairy woodpeckers, we entered “hairy woodpecker or *Picoides villosus*.” This generated a list of citations that included either the common or scientific name anywhere in the citation (title, abstract, or keywords). Current common and scientific names were used as defined by the 7th edition of the American Ornithologist's Union checklist of North American birds (American Ornithologist's Union 1998) and *Revised checklist of North American mammals north of Mexico, 1991* (Jones et al. 1992). For species whose common or scientific name had recently changed, we searched using old and new common and scientific names (e.g., the plain titmouse recently had been split into two, the juniper titmouse and the oak titmouse). We used two additional words in our search: "cavity-nesting" and "snag." These words helped us locate many citations that had pertinent information but did not list species names in the abstract, title, or keywords.

Because the literature base on the ecology of the 57 species of interest is immense, we further stratified our search by developing secondary criteria for including or excluding citations. We established separate criteria for primary cavity-nesting birds and for other snag users. We defined primary cavity-nesting birds as those that excavate cavities for nesting or roosting in snags. We included the woodpeckers and nuthatches in this category. For primary cavity-nesting birds, we included papers on nesting, foraging, roosting, or habitat associations of the species.

We defined other snag users as species that frequently use snags for breeding, roosting, denning, or foraging but that do not excavate cavities for nesting. Some of these species, such as chickadees, sometimes will excavate their own cavities, but more frequently nest in existing cavities. For other snag users we included citations only on the use of snags for nesting, roosting, or denning.

We excluded papers that focused primarily on physiology, song patterns, identification, distribution or distributional records, dominance or social dynamics, use of bird feeders, or use of nest boxes. We did, however, include some citations regarding breeding biology of birds in nest boxes for species that have a limited base of literature on breeding biology in natural cavities. In addition, if a citation included information on multiple aspects of the biology of a species, including some of the criteria for exclusion, it was included if it appeared to provide substantive information on the topics of interest. When we were unable to determine whether a paper met our criteria for inclusion but suspected that it contained pertinent information; we included its citation in our bibliography. For example, we included many papers on habitat use by secondary cavity-nesting birds and mammals even though we could not ascertain whether the study actually included information on the use of snags as nesting, roosting, or denning sites.

In addition to the organism-based citations, we also included citations that contained information on creation and management of snags. Additional citations not uncovered during systematic searching were added based on suggestions by anonymous reviewers and the authors' personal knowledge.

Selection of keywords

After generating a list of citations, we downloaded them into ProCite© using Bibliolink© software, or entered them manually. We used our personal knowledge of the literature, information present in the downloaded citation, and in some cases the actual article to determine the content of each paper. We then characterized content of each paper based on a list of keywords (Tables 2-4). For each paper, we listed species of study, geographic location of the study, habitat type, and biological aspects studied.

Species

Species' common names were designated as keywords (see Table 2). Birds were further described by the keywords “primary cavity-nesting bird” or “secondary cavity-nesting bird.” Mammals were described by the keyword “mammal”, and bats were given the additional keyword “bat.”

Geographic area

Geographic areas were given keywords representing the continent and country where the research took place. North American areas were further subdivided by state or province. Areas within Oregon were given one of the following keywords: Coast Range, Cascade Range, Willamette Valley, Siskiyou-Klamath, C Oregon, NE Oregon, or SE Oregon. Areas within Washington were given one of the following keywords: Puget Sound-Olympic Peninsula, Cascade Range, NE Washington, SE Washington, or Columbia Basin.

Habitat

When possible, we characterized habitats in which the studies took place with one or more of the following keywords: conifer forest, hardwood forest, mixed conifer-hardwood forest, boreal forest, grassland, desert, scrub vegetation, agricultural area, and riparian forest. For North American temperate forests, habitats were given keywords representing the common names of the dominant tree species present (Table 3).

Biological aspects

We described the biological content of each paper by using one or more keywords Table 4. If we were not able to determine whether a certain biological aspect was actually examined in the paper, we listed the appropriate keyword followed by a question mark.

Special fields

We included two additional fields in our bibliography, one to note how the citation was located, and the other to note how the paper was described.

Notes

This Procite field shows how the citation was located. If it was located during a systematic search, “Search” was entered; if it was suggested by a reviewer and identified by our own personal knowledge, “Not found in search” was entered.

Call number

This Procite field shows how the paper was described. If we consulted the actual paper, "From article" was entered. If we used the title, abstract, or keywords from a bibliographic database to describe the paper, "From abstract" was entered.

Using the Searchable Bibliography

The user can search for citations and download them in one of the following format types:

Procite©, Reference Manager©, or Endnote©. For users who do not have one of these programs, a copy of the database is available as text only, MS Word 2000© or lower, or as WordPerfect 8© or lower. You may obtain a copy by downloading it at

<http://www.fsl.orst.edu/cfer/snags/bibliography.html>. The authors do not maintain a complete library of the citations listed in the bibliography and should not be contacted regarding distribution or locations of copies.

Manipulating the search page

You can search the database by keyword, authors' names, title, year, and journal title. To search using a particular field, change the "Field to Search" button and enter the search criteria in "Data to Locate." The bibliography is best searched through use of keywords or authors. It is important to realize that the list of keywords may represent an incomplete description of actual content of many of the papers. Because of this, we strongly advocate using a conservative search strategy using few keywords to obtain the most comprehensive list of citations.

IMPORTANT: You must search in the “Advanced Search Mode.” When first entering the web page, the Advanced Search Mode will be the default. When searching, use the “Start Search” button and not the “Quick Search” button. Searching in the “Quick Search” will result in an inaccurate list of citations. If a keyword has more than one word, be sure to enter all words; failure to do so may result in an incomplete list of citations. If searching on an author’s name, enter the last name only. If searching on a title, you can enter either the entire title or a key phrase from the title. If you wish to search for titles based on multiple words in the title that do not appear consecutively, you should enter them on multiple lines on the search screen (see below).

Modifying your search with Booleans

You can search on multiple criteria by changing the “Field to Search” and “Boolean” buttons and by adding different data in the “Data to Locate” area. The “Boolean” button can be used to limit or expand your search. For example by changing the “field to search” button to “keyword” and entering “brown creeper” in the “data to locate” on the first line and by changing the “field to search” button to “author” and by entering “Smith” in the “data to locate” on the second line you can get different results by also changing the “Boolean” button on the second line. If the “Boolean” is set to AND, the search will retrieve all citations for studies on the brown creeper that were conducted by authors with the name “Smith.” If the “Boolean” is set to OR, it will retrieve all citations for all studies on the brown creeper, regardless of author, and all studies conducted by the author Smith. If the “Boolean is set to NOT, it will retrieve all citations on brown creepers except those authored by Smith.

Viewing citations

After searching, a list of citations will appear on your screen, each containing the authors' names, year of publication, title of the article, and place of publication. Citations will appear in order of the year of publication and the primary author's last name. Ten citations appear on the screen at a time; the remaining citations can be viewed by clicking on the "go to page" buttons at the bottom of the screen.

You can view the entire contents of each citation by clicking on the icon that resembles pages of paper, located to the left of the citation. By clicking on the "page" icon, you can view the list of keywords that describes the citation and see information about how the citation was located and described.

Marking and downloading citations

As you find citations you want to keep, mark them for downloading. You can mark individual records by clicking on the small box to the left of each citation or, you can mark all citations found in a search by clicking on "Mark All." If you wish to export the records directly into Procite©, Endnote©, or Reference Manager©, you must first download the free RIS Auto Export Plug-in©, and then you must run the RISWEB.EXE file. After completing these steps, export the marked records in your preferred format by clicking on the "Export" button. You should see a "SAVE TO" window. Once the file is saved, you should be able to open it.

If you are having problems with the EXPORT feature, you may need to configure your web browser to recognize the MIME file. The configuration information is available in the "readme" file that was downloaded along with the RIS Auto Export Plug-in©.

For users that do not own Procite©, Reference Manager©, or Endnote©, you can download your searched records in a text format. To do this select the "RIS format" button. This feature will download the pertinent information; the file also includes some extra formatting text. The text file is not pretty, but it is functional and complete. If you are interested in downloading a full copy of the bibliography, you can do so at <http://www.fsl.orst.edu/cfer/snags/bibliography.html>.

Literature Cited

American Ornithologists' Union. 1998. *The A.O.U. check-list of North American birds*. Seventh edition. Online at <<http://pica.wru.umd.edu/AOU/birdlist.html>> (12/07/00)

Jones, JK, Jr., RS Hoffmann, DW Rice, C Jones, RJ Baker, and MD Engstrom. 1992. *Revised checklist of North American mammals north of Mexico, 1991*. Occasional Papers No. 146. The Museum, Texas Tech University, Lubbock, TX.

Table 1. Bibliographic databases used to search for citations on the ecology of snag-associated wildlife.

Bibliographic databases searched	Sub-databases included in main bibliographic databases used in search	Dates included in the search
Agricola		1970 - September, 2000
Biosis Preview	1) Biological Abstracts 2) Biological Abstracts/RRM	1990 – September, 2000
CAB Abstracts		1990 - July, 2000
Dissertation Abstracts		1861-September, 2000
Forestry Abstracts		1939 - 1995
Wildlife Worldwide	1) Wildlife Review Abstracts 2) Swiss Wildlife Information Service (Federal Offices of Environment, Forests, & Landscape and the University of Zurich) 3) Wildlife Databases (US Fish and Wildlife Service) 4) BIODOC (National University of Costa Rica) 5) Waterfowl and Wetlands Database (US National Biological Service)	1935 – September, 2000
Zoological Record		1993 - 1999

Table 2: Common and scientific names for the species included in the bibliography.

Common name	Scientific name¹
Primary cavity-nesting birds	
pileated woodpecker	<i>Dryocopus pileatus</i>
hairy woodpecker	<i>Picoides villosus</i>
downy woodpecker	<i>Picoides pubescens</i>
Lewis' woodpecker	<i>Melanerpes lewis</i>
acorn woodpecker	<i>Melanerpes formicivorus</i>
three-toed woodpecker	<i>Picoides tridactylus</i>
black-backed woodpecker	<i>Picoides arcticus</i>
white-headed woodpecker	<i>Picoides albolarvatus</i>
northern flicker	<i>Colaptes auratus</i>
red-naped sapsucker	<i>Sphyrapicus nuchalis</i>
red-breasted sapsucker	<i>Sphyrapicus ruber</i>
Williamson's sapsucker	<i>Sphyrapicus thyroideus</i>
red-breasted nuthatch	<i>Sitta canadensis</i>
white-breasted nuthatch	<i>Sitta carolinensis</i>
pygmy nuthatch	<i>Sitta pygmaea</i>
Secondary cavity-nesting birds	
chestnut-backed chickadee	<i>Poecile rufescens</i>
	<i>Parus rufescens</i>
black-capped chickadee	<i>Poecile atricapillus</i>
	<i>Parus atricapillus</i>
boreal chickadee	<i>Poecile hudsonicus</i>
	<i>Parus atricapillus</i>
mountain chickadee	<i>Poecile gambeli</i>
	<i>Parus atricapillus</i>
brown creeper	<i>Certhia americana</i>
plain titmouse	<i>Parus inornatus</i>
juniper titmouse	<i>Baeolophus griseus</i>
oak titmouse	<i>Baeolophus inornatus</i>
house wren	<i>Troglodytes aedon</i>
wood duck	<i>Aix sponsa</i>
Barrow's goldeneye	<i>Bucephala islandica</i>
bufflehead	<i>Bucephala albeola</i>
common merganser	<i>Mergus merganser</i>
hooded merganser	<i>Lophodytes cucullatus</i>
western screech owl	<i>Otus kennicotti</i>
northern pygmy-owl	<i>Glaucidium gnoma</i>
northern saw-whet owl	<i>Aegolius acadicus</i>
boreal owl	<i>Aegolius funereus</i>
flamulated owl	<i>Otus flammeolus</i>
American kestrel	<i>Falco sparverius</i>
Vaux's swift	<i>Chaetura vauxi</i>

Table 2 (continued).

Common name	Scientific name
Secondary cavity-nesting birds	
ash-throated flycatcher	<i>Myiarchus cinerascens</i>
tree swallow	<i>Tachycineta bicolor</i>
violet-green swallow	<i>Tachycineta thalassina</i>
purple martin	<i>Progne subis</i>
western bluebird	<i>Sialia mexicana</i>
mountain bluebird	<i>Sialia currucoides</i>
house sparrow	<i>Passer domesticus</i>
European starling	<i>Sturnus vulgaris</i>
Mammals	
Fisher ²	<i>Martes pennanti</i>
American marten	<i>Martes americana</i>
northern flying squirrel	<i>Glaucomys sabrinus</i>
California myotis	<i>Myotis californicus</i>
Yuma myotis	<i>Myotis yumanensis</i>
little brown myotis	<i>Myotis lucifugus</i>
Long-eared myotis	<i>Myotis evotis</i>
long-legged myotis	<i>Myotis volans</i>
fringed myotis	<i>Myotis thysanodes</i>
Keen's myotis	<i>Myotis keenii</i>
western small-footed myotis	<i>Myotis ciliolabrum</i>
silver-haired bat	<i>Lasionycteris noctivagans</i>
big brown bat	<i>Eptesicus fuscus</i>

1. More than one scientific name is provided for species for which the taxonomy has recently changed or for which there is a disagreement over taxonomic nomenclature. Searches were conducted using both scientific names for those species
2. Citations regarding fishers were searched based only on scientific name. Searching based on common name resulted in too many non-pertinent records, such as studies conducted by authors named "Fisher."

Table 3: Keywords used to describe habitat; scientific names are given where appropriate.

Keyword	Scientific name	Keyword	Scientific name
alder	<i>Alnus</i> sp.	Fir	<i>Abies</i> sp.
Amabilis fir	<i>Abies amabilis</i>	Florida slash pine	<i>Pinus elliotti</i>
American basswood	<i>Tilia americana</i>	foothill pine	<i>Pinus</i>
American beech	<i>Fagus grandifolia</i>	Fremont cottonwood	<i>Populus fremontii</i>
American elm	<i>Ulmus americana</i>	Gambel oak	<i>Quercus gambelii</i>
American sycamore	<i>Platanus occidentalis</i>	giant sequoia	<i>Sequoiadendron giganteum</i>
aspen	<i>Populus</i> sp.	grand fir	<i>Abies grandis</i>
bald cypress	<i>Taxodium distichum</i>	gray birch	<i>Betula populifolia</i>
balsam fir	<i>Abies balsamea</i>	green ash	<i>Fraxinus pennsylvanica</i>
balsam poplar	<i>Populus balsamifera</i>	hackberry	<i>Celtis</i> sp.
basswood	<i>Tilia</i> sp.	hawthorne	<i>Crataegus</i> sp.
beech	<i>Fagus</i> sp.	hemlock	<i>Tsuga</i> sp.
big-leaf maple	<i>Acer macrophyllum</i>	hickory	<i>Carya</i> sp.
big-tooth aspen	<i>Populus grandidentata</i>	incense cedar	<i>Calocedrus decurrens</i>
big-tooth maple	<i>Acer grandidentatum</i>	interior live oak	<i>Quercus wislizenii</i>
birch	<i>Betula</i> sp.	jack pine	<i>Pinus banksiana</i>
black birch	<i>Betula lenta</i>	Jeffrey pine	<i>Pinus jeffreyi</i>
black cherry	<i>Prunus serotina</i>	juniper	<i>Juniperus</i> sp.
black cottonwood	<i>Populus balsamifera</i>	Juniper	<i>Juniperus communis</i>
black gum	<i>Nyssa sylvatica</i>	limber pine	<i>Pinus flexilis</i>
black oak	<i>Quercus velutina</i>	live oak	<i>Quercus virginiana</i>
black spruce	<i>Picea mariana</i>	loblolly pine	<i>Pinus taeda</i>
black walnut	<i>Juglans nigra</i>	lodgepole pine	<i>Pinus contorta</i>
blue beech	<i>Carpinus caroliniana</i>	longleaf pine	<i>Pinus palustris</i>
blue oak	<i>Quercus douglasii</i>	madrone	<i>Arbutus menziesii</i>
blue spruce	<i>Picea pungens</i>	Manitoba maple	<i>Acer negundo</i>
bottomland hardwood		maple	<i>Acer</i> sp.
boxelder	<i>Acer negundo</i>	mesquite	<i>Prosopis</i> sp.
Bristlecone pine	<i>Pinus longaeva</i>	mountain ash	<i>Sorbus americana</i>
broadleaf cottonwood	<i>Populus deltoides</i>	mountain hemlock	<i>Tsuga mertensiana</i>
Bur oak	<i>Quercus macrocarpa</i>	narrow-leaf cottonwood	<i>Populus angustifolia</i>
California black oak	<i>Quercus kelloggii</i>	noble fir	<i>Abies procera</i>
California sycamore	<i>Platanus racemosa</i>	northern red oak	<i>Quercus rubra</i>
canyon live oak	<i>Quercus chrysolepis</i>	northern white cedar	<i>Thuja occidentalis</i>
cedar		oak	<i>Quercus</i> sp.
chestnut oak	<i>Quercus prinus</i>	oak woodland	
chokecherry	<i>Prunus virginiana</i>	oak-hickory	
coast live oak	<i>Quercus agrifolia</i>	oak-pine woodland	
Colorado blue spruce	<i>Picea pungens</i>	Oregon ash	<i>Fraxinus latifolia</i>
Colorado pinyon	<i>Pinus edulis</i>	Oregon white oak	<i>Quercus garryana</i>
corkbark fir	<i>Abies lasiocarpa</i>	overcup oak	<i>Quercus lyrata</i>
cottonwood	<i>Populus</i> sp.	Pacific madrone	<i>Arbutus menziesii</i>
cucumbertree	<i>Magnolia acuminata</i>	pacific silver fir	<i>Abies amabilis</i>
cypress	<i>Taxodium</i> sp.	paper birch	<i>Betula papyifera</i>
Digger Pine	<i>Pinus sabiniana</i>	peach-leaf willow	<i>Salix amygdaloides</i>
dogwood	<i>Cornus</i> sp.	pignut hickory	<i>Carya glabra</i>
Douglas-fir	<i>Pseudotsuga menziesii</i>	pin oak	<i>Quercus palustris</i>
eastern cottonwood	<i>Populus deltoides</i>	pine	<i>Pinus</i> sp.
eastern hemlock	<i>Tsuga canadensis</i>	pinyon pine	<i>Pinus edulis</i>
eastern redcedar	<i>Juniperus silicicola</i>	pitch pine	<i>Pinus rigida</i>
eastern white pine	<i>Pinus strobus</i>	plains Cottonwood	<i>Populus sargentii</i>
elm	<i>Ulmus</i> sp.	ponderosa pine	<i>Pinus ponderosa</i>
Engelmann spruce	<i>Picea engelmannii</i>	poplar	

Table 3 (continued).

Keyword	Scientific name	Keyword	Scientific name
quaking aspen	<i>Populus tremuloides</i>	white birch	<i>Betula papyifera</i>
red alder	<i>Alnus rubra</i>	white fir	<i>Abies concolor</i>
red ash	<i>Fraxinus pennsylvanica</i>	white oak	<i>Quercus alba</i>
redcedar	<i>Juniperus silicicola</i>	white pine	<i>Pinus strobus</i>
red fir	<i>Abies magnifica</i>	white spruce	<i>Picea glauca</i>
red maple	<i>Acer rubrum</i>	whitebark pine	<i>Pinus albicaulis</i>
red oak	<i>Quercus falcata</i>	willow	<i>Salix</i> sp.
red pine	<i>Pinus resinosa</i>	yellow cedar	<i>Chamaecyparis nootkatensis</i>
red spruce	<i>Picea rubens</i>	yellow poplar	<i>Liriodendron tulipifera</i>
redwood	<i>Sequoia sempervirens</i>		
river birch	<i>Betula nigra</i>		
Rocky Mountain juniper	<i>Juniperus scopulorum</i>		
Saguaro cacti	<i>Carnegiea gigantea</i>		
scarlet oak	<i>Quercus coccinea</i>		
shagbark hickory	<i>Carya ovata</i>		
shortleaf pine	<i>Pinus echinata</i>		
silver maple	<i>Acer saccharinum</i>		
single-leaf pinyon	<i>Pinus Monophylla</i>		
Sitka spruce	<i>Picea sitchensis</i>		
slash pine	<i>Pinus elliotii</i>		
southwestern white pine	<i>Pinus strobiformis</i>		
speckled alder	<i>Alnus rugosa</i>		
spruce	<i>Picea</i> sp.		
subalpine fir	<i>Abies lasiocarpa</i>		
sugar maple	<i>Acer saccharum</i>		
sugar pine	<i>Pinus lambertiana</i>		
sugarberry	<i>Celtis laevigata</i>		
sweetgum	<i>Liquidambar styraciflua</i>		
sycamore	<i>Platanus</i> sp.		
tamarack	<i>Larix laricina</i>		
tanoak	<i>Lithocarpus densiflorus</i>		
trembling aspen	<i>Populus tremuloides</i>		
tulip poplar	<i>Liriodendron tulipifera</i>		
tupelo	<i>Nyssa</i> sp.		
tupelo gum	<i>Nyssa aquatica</i>		
Utah Juniper	<i>Juniperus Osteosperma</i>		
valley oak	<i>Quercus lobata</i>		
Virginia pine	<i>Pinus virginiana</i>		
water oak	<i>Quercus nigra</i>		
western hemlock	<i>Tsuga heterophylla</i>		
western larch	<i>Larix occidentalis</i>		
western redcedar	<i>Thuja plicata</i>		
western white pine	<i>Pinus monticola</i>		
western yellow pine	<i>Pinus jeffreyi</i>		
western yew	<i>Taxus brevifolia</i>		
white alder	<i>Alnus rhombifolia</i>		
white ash	<i>Fraxinus americana</i>		

Table 4. Description of keywords used to describe the biological content of each citation.

Information	Keywords, their definitions, and criteria for use in the bibliography
Nesting	<p>nest selection—a study of the use or selection of nesting habitat. Includes papers describing snags used for nesting or the habitat immediately adjacent to the nest snag</p> <p>breeding biology—includes information regarding reproductive biology (e.g., incubation rates, fledging rates, gestation period)</p> <p>breeding ecology—includes information regarding some aspect of breeding ecology such as breeding-related behaviors</p> <p>nest success—includes estimates of reproductive success (nest success, survival, etc.)</p> <p>nest predation-parasitism—includes information regarding predation or parasitism of avian nests</p> <p>roost selection—a study of the use or selection of roosts. For bats, includes maternal as well as resting roosts. For birds, only includes roosts used for non-breeding purposes.</p> <p>roosting ecology—includes information regarding some aspect of roosting other than the actual use or selection of the roost (e.g., behavior of bats emerging from roosts, thermal regulation)</p> <p>den selection—selection of breeding or resting den sites by mammals other than bats. Includes papers regarding subnivean access points used by <i>Martes</i></p>
Foraging	<p>foraging selection— a study of the use or selection of foraging habitat. Includes papers describing various scales of foraging habitat</p> <p>foraging ecology— includes information regarding some aspect of foraging other than selection, such as foraging behaviors or techniques</p> <p>diet—includes information food items eaten or brought back to the breeding site</p> <p>pest control—includes information on control of forest pests by predators</p>

Table 4 (continued).

Information	Keywords and their definitions and criteria for use in the bibliography
Habitat	<p>habitat association—includes information on use or selection of general habitat types, often relating abundance of the species to habitat characteristics</p> <p>effects of forestry— includes information on the effects of forestry or on habitat use in harvested forests</p> <p>effects of fire—directly or indirectly studies the effects of fire</p> <p>fragmentation—includes some information regarding the effects of fragmentation. Some studies examine issues only partly related to fragmentation, such as patch size</p> <p>home range—includes information regarding home range or territory size; many have estimates of size of home range or territory</p> <p>habitat suitability index—presents a habitat suitability index or a test of an HSI model</p>
Management	<p>sampling methodology—includes information regarding techniques such as estimating abundance or capturing animals</p> <p>habitat management—includes suggestions on how habitat can be managed to benefit the species of concern</p> <p>animal damage—paper on the damaging effects of the animal (e.g., damage of telephone poles or cones)</p>
Study type	<p>landscape study—sampled beyond the scale of single stands; many used indexes of fragmentation such as patch size, amount of edge.</p> <p>nest box—A study only looking at animals using nest boxes and not natural cavities</p> <p>bibliography—a bibliography of past literature</p> <p>review—review of past literature</p> <p>modeling study—used models to project population changes, effects of forestry, or other factors</p> <p>seasonal study—study conducted during more than one season</p>

Table 4 (continued).

Information Type	Keywords and their definitions and criteria for use in the bibliography
Other	<p>natural history—includes information on some aspect of the organisms biology, but the exact information could not be determined from the keywords or abstract</p> <p>migration—includes information regarding migration, dispersal, or localized movements</p> <p>population—includes some estimate of population size. This keyword was used only if some direct estimate of population, such as density, was made or for studies that used indirect indices such as breeding bird survey data to compare populations over time or regions. Papers that used indirect indices, such as number of birds per point count, were not given this keyword (those papers were frequently given the keyword “habitat association”</p> <p>competition—includes information regarding competition for nest or foraging sites</p>
Snags	<p>snag management—includes information regarding management of snags for wildlife</p> <p>snag creation—includes information regarding anthropogenic creation of snags</p> <p>cavity study—was at least in part, a study of cavities in snags (indirect study of cavity use)</p> <p>snag sampling—includes information regarding methodologies used to sample snags</p> <p>artificial snag—includes information regarding the use of artificial snags made from materials other than wood</p>

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Keywords: secondary cavity-nesting bird/ flammulated owl/ North America/ United States/ New Mexico/ habitat association/ population