

INVENTORYING AND MONITORING
PROTOCOLS OF VERTEBRATES IN
NATIONAL PARK AREAS OF THE EASTERN
UNITED STATES: THE BIBLIOGRAPHIC REPORT

Richard H. Yahner,¹ Gerald L. Storm,²
Gregory S. Keller,¹ and
Ronald W. Rohrbaugh, Jr.¹

Technical Report NPS/MAR/NRTR - 94/057

¹School of Forest Resources
Ferguson Building
The Pennsylvania State University
University Park, PA 16802

²National Biological Survey
Pennsylvania Cooperative Fish and
Wildlife Research Unit
The Pennsylvania State University

Cooperative Agreement
4000-9-8004
Supplemental Agreement 21

March 1994

National Park Service
Mid-Atlantic Regional Office
Division of Resource Management and Visitor Protection
143 South Third Street
Philadelphia, PA 19106-2878

Executive Summary

We conducted an extensive search of the scientific literature for journal articles, books, technical reports, and theses regarding inventorying and monitoring protocols for terrestrial vertebrate species (excluding white-tailed deer [*Odocoileus virginianus*] and black bear [*Ursus americanus*]). This search was part of a long-term project (1992-1996) in four national park areas in the eastern United States: Gettysburg National Military Park, Eisenhower National Historic Site, Hopewell Furnace National Historic Site, and Valley Forge National Historical Park. We located 908 bibliographic citations and entered these into the computer bibliographic database called *Pro-Cite*. Citations in *Pro-Cite* may be searched by author, article title, journal title, and year. The citation bibliography also may be searched by key terms that index each citation in five categories: 1) taxon, 2) season, 3) habitat, 4) level of information, and 5) protocol.

Of the 908 citations, 503 (55%) were studies on birds. Studies of passerines, upland groundbirds, and raptors were cited the most, with 100, 86, and 82 citations, respectively. Studies of mammals totaled 244 (27%), with over half of these involving Rodentia. Relatively few studies of reptiles (9%) and amphibians (6%) were found. Over half (56%) of the 297 studies that

specified habitat were conducted in forest; other habitats were not well-represented.

We found 48 different protocols referenced in the citation bibliography. As with the number of citations for each taxonomic group, most protocols in the bibliography were associated with surveys of birds (60%) and mammals (56%), and very few gave protocols for reptiles (33%) and amphibians (31%). The largest number of studies (169) citing protocols involved trapping, such as live-traps and pitfall traps.

We developed a list of all protocols that were cited for each class of vertebrates, based on information provided by the citations. This list included information on taxa, habitats, and seasons for which each protocol was appropriate; information provided by the protocol (e.g., relative abundance); and cost, labor, materials, and expertise necessary to carry out the protocol. With this information, a resource management specialist could select the most time-, labor-, and cost-effective protocol that provided the desired level of information for taxa and habitats to be studied.

Table of Contents

Executive Summary	i
Introduction	1
Objectives of the Bibliographic Report	2
Methods	4
Description of Literature Search	4
Description of <i>Pro-Cite</i>	5
Description of NPS Citation Bibliography in <i>Pro-Cite</i>	6
Searching the NPS Citation Bibliography	8
Adding Citations to <i>Pro-Cite</i>	12
Results	14
Numbers of Citations	14
Description of the Protocols	15
Future Goals	18
Field-testing the Protocols	18
Conclusions	20
<i>Pro-Cite</i> Citation Bibliography	21
Literature Cited	156
Appendix 1	157
Appendix 2	161
Appendix 3	165
Appendix 4	175
Appendix 5	189

Introduction

We initiated a long-term project (1992-1996) that was designed to provide a comprehensive review of vertebrates (amphibians, reptiles, birds, and mammals) in four national park areas in the eastern United States: Gettysburg National Military Park, Eisenhower National Historic Site, Hopewell Furnace National Historic Site, and Valley Forge National Historical Park. Information on presence/absence, relative abundance, and distribution of vertebrates on these public lands are important to National Park Service (NPS) personnel (hereafter referred to as Resource Management Specialists) who are mandated to manage natural resources. As large tracts of public lands, such as national park areas, become more insular with increased habitat fragmentation due to agriculture, urbanization, or other land use, these public lands increasingly will be valuable for the long-term maintenance of faunal diversity and assurance of the functional integrity of landscapes and ecosystems in the eastern United States (Ambrose and Bratton 1990).

In year 1 of this long-term project, we surveyed existing literature on cost-, labor-, and time-effective protocols for inventorying and long-term monitoring of vertebrate fauna in the four national park areas. Although we placed most of our emphasis on birds and mammals, we also included protocols for surveying amphibians and reptiles. These protocols were

organized in a hierarchial fashion, depending on specific goals and types of data needed at a given area. We also intended that these hierarchial protocols will be tested and applied in the eastern deciduous forest region so that trends in fauna can be monitored on a regional basis.

Objectives of the Bibliographic Report

The objectives specific to this report were to:

- 1) develop a citation bibliography from an extensive search of the scientific literature for inventorying and monitoring protocols for terrestrial vertebrate species occupying national park areas in the eastern United States;
- 2) evaluate each protocol identified in the bibliography to determine taxa, habitats, and seasons for which the protocol is appropriate; and
- 3) determine for each protocol the cost and labor involved and the type of data provided by the protocol.

This report and citation bibliography can be used with the Technical Report NPS/MAR/NRTR-94/058, which is entitled "Inventorying and Monitoring Protocols of Vertebrates in National Park Areas of the Eastern United States: The Faunal Report" (Yahner et al. 1994). When used together, the two reports

synthesize comprehensive information on inventorying and monitoring protocols, and ecological, biological, and legal data for vertebrates in the eastern deciduous forest.

Methods

Description of Literature Search

We completed an extensive literature search to identify protocols that previously have been used to survey terrestrial vertebrate species. The scope of this literature search included all scientific research articles, books, and technical reports that describe a protocol to inventory or monitor amphibians, reptiles, birds, or mammals, excluding white-tailed deer (*Odocoileus virginianus*) and black bear (*Ursus americanus*).

We limited the search to taxa or habitats that could be found in the eastern United States. This limitation excluded taxa and habitats not found in the eastern United States, such as greater roadrunners (*Geococcyx californianus*) of western desert habitats. If a species were not found in the eastern U.S. but were similar ecologically to a species that was found in the eastern U.S., such as least chipmunks (*Tamias minimus*), which are closely related to eastern chipmunks (*Tamias striatus*), the citation was included. Similarly, if the habitat type were not found in the eastern U.S. but the general taxonomic group studied were, e.g., scaled quail (*Callipepla squamata*) nesting in desert grasslands, then the citation was included.

Sources of scientific literature for the initial search included: 1) the bibliography of *Inventory and Monitoring of*

Wildlife Habitat, edited by Cooperrider et al. (1986), which was a reference book on survey protocols; 2) *The 1982 CRC Handbook of Census Methods for Terrestrial Vertebrates* by Davis (1982); 3) the U.S. Fish and Wildlife Service Reference Service literature database, which was a bibliographic database accessed by key index terms; 4) the National Park Service literature database of research projects completed at the national parks; 5) the publication *Wildlife Review*, which provided a list of all scientific publications, including journal articles, conference proceedings, and masters and doctoral theses, that have been published each quarter; and 6) the National Park Service *Natural Resource Inventory and Monitoring Bibliography*, compiled by Drost and Stohlgren (1993).

These sources of scientific literature provided the author(s), title, year, journal and volume or technical report number, and pages of the cited work. Although much information concerning the protocols used and taxa studied could be obtained solely on the title of the citation, more detailed information from a scientific work may be desired. This could be accomplished by referring to the actual journal article, technical report, conference proceedings, book, or thesis cited.

Description of *Pro-Cite*

All of the scientific citations meeting the search conditions were compiled and entered into *Pro-Cite*. *Pro-Cite* is

a computer bibliographic database, allowing input and management of bibliographic citations. The program may be loaded and accessed at any IBM-compatible personal computer. This computer database allows a user to input, store, sort, search, or print any or all of a citation bibliography. *Pro-Cite* automatically sorts and stores individual citations alphabetically by author when inserting citations. Citations of all forms (e.g., theses, books, conference proceedings) may be entered into *Pro-Cite*, and all necessary information about the scientific work may be included in the citation. Information about *Pro-Cite* may be acquired through Personal Bibliographic Software, Inc., P.O. Box 4250, Ann Arbor, MI, 48106, (PH.# 313-996-1580).

Description of NPS Citation Bibliography in *Pro-Cite*

The citations from the scientific literature search were entered into *Pro-Cite* under the name NPSBIB, which consisted of four files: 1) NPSBIB.DAT, which contained all the bibliographic information for the citations; 2) NPSBIB.SRT, which was an index to the authors' names in the citation bibliography; 3) NPSBIB.PMT, which included information concerning the style of the printed bibliography; and 4) NPSBIB.REC, which stored the record numbers for each citation. Information describing a single citation was inserted into a numbered record, which was composed of several fields (e.g., author, date of publication).

The five types of citations and the information entered into the *Pro-Cite* fields for each citation are:

1) Journal Articles: Author(s), Date of Publication, Title of Citation, Journal Name, Volume Number, Issue Number, Location of Citation within the Journal (i.e., pages).

2) Books: Author(s), Date of Publication, Title of Book, Publisher, Place of Publication, Total Number of Pages.

3) Theses/Dissertations: Author, Date of Publication, Title of Citation, Type of Work (e.g., masters thesis), University, Location of University, Total Number of Pages.

4) Conference Proceedings: Author(s), Date of Conference, Title of Citation, Title of Conference, Place of Conference, Total Number of Pages.

5) Technical Reports: Author(s), Date of Publication, Report Title, Report Identification Number, Agency, Agency Location, and Total Number of Pages. Editor(s), Volume Title, and Volume Length were included if the report was published in a compilation of works, such as a symposium.

A diskette containing the NPSBIB file of the citation bibliography in *Pro-Cite* can be obtained from the National Park Service Mid-Atlantic Regional Office, Division of Resource Management and Visitor Protection, 143 South Third Street, Philadelphia, PA 19106-2878. Specific directions for inputting new citations and managing the existing NPSBIB file may be found in the *Pro-Cite* manual (*Pro-Cite* Version 1.4, 1988).

Searching the NPS Citation Bibliography

The *Pro-Cite* citation bibliography may be searched by author, article title, year of publication, and journal or conference title. In addition, each citation within the bibliography has been indexed and can be searched with key terms, which were entered into the "Index" field of the citation. Key terms were divided into five categories, and information for each category was included if available (Appendix 1). The five categories (and their abbreviations) for the index key terms are:

1) Taxon (TX): the taxonomic group of the vertebrate species. For amphibians, reptiles, and mammals, the taxonomic order or family (e.g., Sciuridae for squirrels, woodchucks, chipmunks) was the most specific group in which a species was placed. However, for birds, the groups were informal names (e.g., Raptor for all hawks, falcons, eagles, and vultures).

2) Season (SSN): the time of the year in which the research project was conducted (e.g., Spring).

3) Habitat (HBT): the major habitat type in which the research project was conducted (e.g., Deciduous Forest).

4) Level of Information (LV): the type of data collected by the study (e.g., Density).

5) Protocol (PTC): the name of the inventorying or monitoring protocol that was used to survey the vertebrates.

The key terms for the Taxon category were organized in a hierarchy. For instance, a journal article on live-trapping eastern chipmunks (*Tamias striatus*) was indexed first as "Mammalia," followed by "Rodentia," "Sciuridae," "Eastern Chipmunk," and "*Tamias striatus*." Similarly, a study on white-footed mice (*Peromyscus leucopus*) was indexed by "Mammalia," "Rodentia," "Muridae," "White-footed Mouse," and "*Peromyscus leucopus*." If either the Latin name (species name) or the common name of the study animal were provided, both names were included as key terms. Therefore, a resource management specialist who wanted to inventory the rodents within a given park could enter "Rodentia" as a search term, and all citations that referenced a protocol to survey rodents would be selected. If the resource management specialist wanted to inventory deer mice within the park, "Muridae" could be entered for all studies on mice, rats, voles, and muskrats, or "Deer Mouse" or "*Peromyscus maniculatus*" could be entered for the protocols pertaining to that species.

A key term was included in the Index field of the citation in *Pro-Cite* if the information for that category was available (Appendix 1). Key terms were chosen from the citation and journal titles. For example, the journal article by Tilghman and Rusch (1981) in *Studies of Avian Biology* entitled "Comparison of Line-transect Methods for Estimating Breeding Bird Densities in Deciduous Woodlots" (#8270) provided the following key terms in the five categories: 1) Taxon: Aves; 2) Habitat: Deciduous Forest; 3) Season: Spring, Summer; 4) Level of Information:

Density; 5) Protocol: Line-transect. This information was provided by the title of the article except for the taxon, which was provided by the title of the article and the title of the journal.

If information for a given category were not known based solely on the title or journal of a citation, the information was collected by inspection of the original article or report, if it were accessible. For example, in the article by Aubrey et al. (1988) entitled "Use of Woody Debris by Plethodontid Salamanders in Douglas-fir Forests in Washington" (#400), the following information was provided by the title: 1) Taxon: Amphibia, Caudata; 2) Habitat: Coniferous Forest; 3) Season: unknown; 4) Level of Information: unknown; 5) Protocol: unknown. Because the last three categories were unknown, the following information was collected by inspection of the original article: 3) Season: Spring, Summer; 4) Level of Information: Relative Abundance; 5) Protocol: Timed Search, Log-turning. In addition, the following information was added to the Taxon category from the article: Amphibia, Caudata, Western Red-backed Salamander, *Plethodon vehiculum*. If information were collected from the original article or report, the phrase "Article Collected" was entered into the "Note" field in *Pro-Cite*.

In addition to the key terms, the abbreviation for each of the five categories (e.g., TX for Taxon) was entered in the Index field for a citation if a key term for that category was included. For the example of the journal article by Tilghman and

Rusch (1981), the key terms "Aves" and "Deciduous Forest" were included in the "Taxon" and "Habitat" categories, respectively, and the abbreviations "TX" and "HBT" were entered in the Index field.

If the information for a category were not included in the article or if the article were not available, the category was left blank. For example, the journal article by Clark and Campbell (1983) entitled "A Small Carnivore Survey Technique" (#1800) was collected, and the key terms taken from the original article were: 1) Taxon: Mammalia, Carnivora, Rodentia, Sciuridae; 2) Habitat: unknown; 3) Season: unknown; 4) Level of Information: Presence; 5) Protocol: Scent Station. Habitat and Season categories, therefore, would be left blank.

If the information for the key terms were not available from the title or the article or if the original article were not available, the abbreviation for that category was included in the Index field with the letters "NA." For the Clark and Campbell (1983) journal article, the abbreviations "NAHBT" and "NASSN" were included in the Index.

Some articles may involve several taxa, protocols, habitats, or seasons. For instance, the article by Conner et al. (1983) entitled "Scent-station Indices as Measures of Population Abundance for Bobcats, Raccoons, Gray Foxes, and Opossums" (#1920) was indexed by various taxonomic groups (i.e., Mammalia; Carnivora; Bobcat, *Felis rufus*; Raccoon, *Procyon lotor*; Gray Fox, *Urocyon cinereoargenteus*; Didelphimorphia; Virginia Opossum,

Didelphis virginiana), and by "TX." Therefore, the total number of citations for key terms within the TX category are not additive and sum up to a number greater than the total number of citations for that category. This was also true for the other index categories.

In summary, the Index field of the citation bibliography could be searched by a variety of key terms (Appendix 1). A single term or any combination of terms connected by a Boolean operator (e.g., and, or, not) may be used for the search. A general search also may be conducted using the abbreviations for the five index categories to yield a list of all articles that provide a key term in the chosen category. Once a list of citations has been obtained, the user may search the selected group of records with another search condition to further limit the scope of the citations.

Adding Citations to *Pro-Cite*

Although the list of citations in *Pro-Cite* was completed in January 1994, the NPSBIB file can be updated continually by inserting new citations as articles and reports are published. Newly published journal articles and technical reports may be accessed through the *Wildlife Review* and the *Science Citation Index*. Both the Review and the Index provide a listing of the most recently published journal articles, masters and Ph.D. theses, and conference proceedings, and both sources are

available at most college and university libraries. *Wildlife Review* also is available through the U.S. Fish and Wildlife Service, Office of Information and Transfer, Database Section, 1201 Oak Ridge Drive, Suite 200, Fort Collins, CO, 80525-5589, (Ph. #303-226-9401). By inserting articles in the citation bibliography with the key terms (Appendix 1), the newly entered citations may be searched with the rest of the bibliography.

Results

Numbers of Citations

The extensive literature search for citations involving inventorying and monitoring of terrestrial vertebrates resulted in a total of 908 citations, which were entered into *Pro-Cite*. Two-hundred ninety-three (32%) of the actual articles were examined. Of the 908 citations, 92% provided information on the Taxonomic group inventoried or monitored (Appendix 2). Over one-half (55%) of the 908 citations were on birds, and hence, indexed by the "Aves" key term. Of these, most studies were on Passerines, Upland Groundbirds, and Raptors (100, 86, and 82 citations, respectively). In contrast, there was a relatively low number (53 citations, 6%) of citations indexed by "Amphibia," mostly involving the taxon Caudata. Reptiles were indexed in 79 of the citations (9%), with the number of studies ranging from 31 for snakes to 26 each for lizards and turtles. Of the 244 studies of mammals, most citations involved Rodentia (129 citations, 53%), Insectivora (55 citations, 23%) and Carnivora (49 citations, 20%).

The season in which the study was conducted was indexed in 333 (36%) of the 908 citations. The largest number of the citations that specified the season were completed during the

summer (239 citations, 72%), followed by spring (220 citations, 66%), winter (88 citations, 26%), and fall (84 citations, 25%).

Of the 297 (33%) studies specifying the particular habitat in which the research was conducted, over half (167 citations, 56%) were carried out in Forest, followed by 80 (27%) citations in Wetlands. Other habitats were not well-represented.

A total of 514 (57%) citations was indexed based on the Level of Information (LV). Of these citations, 203 (39%) were studies on population trends, and 141 (27%) and 106 (21%) of the studies provided information on density and relative abundance, respectively, of a vertebrate species.

Forty-eight different protocols were identified in the 606 (67%) citations in which the protocol(s) were specified. The largest number of studies cited the use of various Trapping protocols (169 citations, 28%), followed by Transect protocols (92 citations, 15%), Marking animals (76 citations, 13%), using a Communication Index (61 citations, 10%), Netting animals (56 citations, 9%), and using an Aerial Census (50 citations, 8%).

Description of the Protocols

The *Pro-Cite* index was searched to determine which protocols have been documented as appropriate for different taxa, habitats, or seasons. This information was included in tabular form for amphibians and reptiles (Appendix 3), birds (Appendix 4), and mammals (Appendix 5). Each appendix included the following

information taken directly from the *Pro-Cite* citations for each documented protocol:

- 1) name of protocol,
- 2) selected citations from *Pro-Cite* for the protocol,
- 3) taxa for which the protocol is appropriate,
- 4) habitats in which the protocol may be used,
- 5) seasons during which the protocol may be used, and
- 6) level of information gained from the protocol.

The citation for the protocol was provided with the last name(s) of the author(s) and the year in which the study was published. Because there may be several articles with the same author and year, the record number of the *Pro-Cite* citation was included with the record after the name(s) of the author(s). Taxa, habitats, seasons, and level of information were the same categories and key terms used in the index field for *Pro-Cite*. The term "unknown" was entered for any category for which the information was not available.

In addition to these six categories, the following information was estimated for each protocol:

- 1) relative cost of the protocol,
- 2) labor needed to use the protocol,
- 3) materials necessary for the protocol, and
- 4) level of expertise required of the researcher to use the protocol.

The relative cost of the protocol was a qualitative measure of the money and time involved to carry out the protocol, ranging

from low to extremely high, and the cost was relative to other protocols within the same major taxonomic group. Similarly, the labor was the relative amount of labor required to carry out the protocol. The expertise needed to carry out a protocol also was a relative measure. We assumed that a researcher conducting a protocol had at least some ability to identify a given taxon, but this probably varied with years of experience, etc. As with the other categories, if the information for a given category for a protocol in the appendix were unknown or not available, "unknown" was entered for that category. Such information, such as the labor required to dig and monitor pitfall traps, will become available through field-testing the protocols and through future published scientific research.

Future Goals

Field-testing the Protocols

Because there are many protocols available to survey certain abundant taxa (e.g., Aves, Rodentia), we will select and field-test a subset of these protocols to determine the labor-, time-, and cost-effectiveness of these protocols as part of our long-term project in the four national park areas of Pennsylvania. For example, we tentatively will test point counts, fixed-width transects, and variable-width transects for surveying passerine birds in various habitats during all seasons at Gettysburg National Military Park. Some taxonomic groups (e.g., reptiles and amphibians) that are less abundant within the park areas (Yahner et al. 1994) also have relatively few documented protocols in which to survey them. Although we will not place as much emphasis on surveying these taxa, we will attempt to determine presence or abundance of these species with the appropriate protocols. For example, we tentatively will test pitfall traps and coverboards to survey reptiles and amphibians in various habitats at Gettysburg National Military Park.

A select set of protocols will be field-tested at Gettysburg National Military Park and Eisenhower National Historic Site in 1993-94, at Hopewell Furnace National Historic Site in 1994-95, and tentatively at Valley Forge National Historical Park in 1995-

96. We will attempt to determine the abundance and distribution of terrestrial vertebrates within representative habitats in these park areas while assessing the relative effectiveness of the protocols identified in our literature search.

Conclusions

We hope that the citation bibliography in this report is an important and useful tool to resource management specialists. This report provides a specialist with essential information necessary to implement a survey of the vertebrate diversity within a park. We hope that from the information provided by the citation bibliography and by the future field-tests of the protocols we will be able to pinpoint the appropriate protocol for any given combination of taxa, habitats, and seasons for a desired level of information, based on the available resources and management objectives within a park. Ultimately, we believe that this information will be valuable to other national park areas in the eastern United States concerning the appropriate protocols to use given specific goals concerning natural resource management.

Pro-Cite Citation Bibliography

- Abernathy, R. K., G. W. Peterson, and J. G. Gosselink. 1985. A small mammal trapping study of the floating freshwater marshes surrounding Lake Boeuf, Louisiana. *Northeast Gulf Sci.* 7:177-180.
Index Terms: TX/Mammalia/Insectivora/Rodentia/PTC/Trapping/HBT/Wetlands/NALV/NASSN/
Record #10
- Adams, A. W. 1963. Wildlife Surveys and Investigations: Furbearer Investigations. White-Tailed Jackrabbit Research Needs. N.D. State Game and Fish Dept. N.D. W-067-R-02. 26 pp.
Index Terms: TX/Mammalia/Lagomorpha/White-Tailed Jackrabbit/Lepus townsendii/NAHBT/NAPTC/NALV/NASSN/
Record #20
- Adams, C. C. 1909. An ecological survey of Isle Royale, Lake Superior. Univ. Michigan Museum Rep. State Biological Survey and part of the Rep. of the Board of the Geol. Survey. 468 pp.
Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #30
- Adams, L. 1959. An analysis of a population of Snowshoe Hares in northwestern Montana. *Ecol. Monogr.* 29:141-170.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/LV/Population/Density/Habitat Use/HBT/Coniferous Forest/SSN/Spring/Summer/Fall/Winter/PTC/Scat Index/Trapping/Live-trap
Record #40
- Adler, G. H. 1988. The role of habitat structure in organizing small mammal populations and communities. Pages 289-299 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Mammalia/Insectivora/Rodentia/Muridae/HBT/Mixed Forest/Deciduous Forest/LV/Population/Community/PTC/Trapping/Live-trap/NASSN/
Record #50
- Albers, P. H. 1976. Determining population size of territorial Red-winged Blackbirds. *J. Wildl. Manage.* 40:761-768.
Index Terms: TX/Passerine/Red-winged Blackbird/Agelaius phoeniceus/LV/Population/Territory/SSN/Spring/Summer/Breeding/HBT/Agriculture/Wetlands/PTC/Circular-plot/Road Census/
Record #60

Alcorn, J. R. A discussion of Coyote censusing techniques. U.S. Bur. Sport Fish. and Wildl., Div Wildl Serv. 8 pp.

Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/PTC/
Comparison/NAHBT/NALV/NASSN/
Record #70

Allan, D. 1990. Raptor road counts--The effect of variation in observer speed. Gabar 5:1-2.

Index Terms: TX/Aves/Raptor/PTC/Road Census/NAHBT/NALV/NASSN/
Record #80

Allan, P. F., and P. R. Sime. 1943. Hawk census on a Texas panhandle highway. Wilson Bull. 55:29-39.

Index Terms: TX/Aves/Raptor/SSN/Spring/Summer/Fall/Winter/HBT/
Grassland/Riparian/Shrub/Scrub/LV/Relative Abundance/PTC/Road
Census
Record #90

Allen, G. T. 1987. Estimating Prairie Falcon and Golden Eagle nesting populations in North Dakota. J. Wildl. Manage. 51:739-744.

Index Terms: TX/Raptor/Prairie Falcon/Falco mexicanus/Golden
Eagle/Aquila chrysaetos/LV/Density/Population/SSN/Spring/
Summer/Breeding/HBT/Riparian/Grassland/PTC/Quadrats/Aerial
Census/
Record #100

Allen, G. T., S. E. Fast, B. J. Langstaff, D. W. Tomrdle, and B. L. Troutman. 1978. Census of Canada Geese on the Palouse River, Washington, during the spring of 1977. Murrelet 59:96-100.

Index Terms: TX/Waterfowl/Canada Goose/Branta canadensis/SSN/
Spring/HBT/Wetlands/Riparian/Cliff/LV/Population/Habitat Use/
PTC/Boat Census
Record #110

Allen, S. H., and A. B. Sargeant. 1975. A rural mail-carrier index of North Dakota Red Foxes. Wildl. Soc. Bull. 3:74-77.

Index Terms: TX/Carnivora/Red Fox/Vulpes vulpes/LV/Density/
Population/Abundance/SSN/Spring/Fall/Summer/HBT/Agriculture/PTC
Road Census/Aerial Census/
Record #120

Alsop, F. J. 1968. A census of breeding bird populations in a virgin spruce forest on Mt. Guyot, Great Smoky Mountains National Park. M.S. thesis, Univ. Tennessee, Knoxville. 69 pp.

Index Terms: TX/Aves/HBT/Coniferous Forest/LV/Community/SSN/
Breeding/Spring/Summer/NAPTC
Record #130

Alsop, F. J. 1970. A census of breeding bird populations in a virgin spruce/fir forest on Mt. Guyot, Great Smoky Mountains, Tennessee. Migrant 41:49-55.

Index Terms: TX/Aves/Passerine/HBT/Coniferous Forest/LV/Density/Community/SSN/Breeding/Spring/Summer/PTC/Spot-mapping
Record #140

Ambrose, R. 1980. Results of the 1980 Peregrine Falcon survey on the Yukon-Charley and Colville Rivers, Alaska. USFS Rep.

Index Terms: TX/Aves/Raptor/Peregrine Falcon/Falco peregrinus/HBT/Wetlands/NAPTC/NALV/NASSN/
Record #150

American Society of Mammalogists. 1987. Acceptable field methods in mammalogy: Preliminary guidelines approved by the American Society of Mammalogists. J. Mammal. Suppl. 68:1-18.

Index Terms: TX/Mammalia/NASSN/NALV/NAHBT/NAPTC
Record #160

Amman, G. D., and P. H. Baldwin. 1960. A comparison of methods for censusing woodpeckers in spruce-fir forests of Colorado. Ecology 41:699-706.

Index Terms: TX/Aves/Woodpecker/HBT/Coniferous Forest/NALV/NASSN/NAPTC
Record #170

Andelt, W. F., and S. H. Andelt. 1984. Diet bias in scat deposition-rate surveys of Coyote density. Wildl. Soc. Bull. 12:74-77.

Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/SSN/Spring/Summer/Fall/Winter/LV/Density/PTC/Scat Index/Road Census/NAHBT/
Record #180

Anderson, B. W., and R. D. Ohmart. 1981. Comparisons of avian census results using variable distance transect and variable circular-plot techniques. Pages 186-192 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/LV/Community/Density/SSN/Breeding/Summer/Spring/HBT/Riparian/Forest/PTC/Variable-width Transect/Variable Circular-Plot/
Record #190

Anderson, B. W., R. D. Ohmart, and J. Rice. 1981. Seasonal changes in avian densities and diversities. Pages 262-264 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/Fall/Winter/HBT/Riparian/LV/Density/Community/PTC/Variable-width Transect/
Record #200

- Anderson, D. J. 1982. The home range: A new nonparametric estimation technique. Ecology 63:103-112.
Index Terms: LV/Home Range/NATX/NAHBT/NAPTC/NASSN/
Record #210
- Anderson, D. W., R. M. Jurek, and J. D. Keith. 1977. The status of Brown Pelicans at Anacapa Island in 1975. California Fish and Game 63:4-10.
Index Terms: TX/Aves/Waterfowl/Brown Pelican/Pelecanus occidentalis/NAHBT/NAPTC/NALV/NASSN/
Record #220
- Anderson, D. R., J. L. Laake, B. R. Crain, and K. P. Burnham. 1976. Guidelines for line transect sampling of biological populations. Utah Coop. Wildl. Res. Unit., Logan. 27 pp.
Index Terms: LV/Population/PTC/Line Transect/NATX/NAHBT/NASSN/
Record #230
- Anderson, D. R., and R. S. Pospahala. 1970. Correction of bias in belt transect studies of immobile objects. J. Wildl. Manage. 34:141-146.
Index Terms: TX/Aves/Waterfowl/SSN/Spring/Summer/PTC/Nest Count/Fixed-width Transect/NAHBT/NALV
Record #240
- Anderson, P. K., and C. L. Smith. 1950. An electrical apparatus for herpetological collecting. Copeia 1950:322.
Index Terms: TX/Reptilia/Serpentes/Lacertilia/Amphibia/PTC/Capture/NAHBT/NALV/NASSN/
Record #250
- Anderson, R. K., and F. Hamerstrom. 1967. Hen decoys aid in trapping cock prairie chickens with bownets and noose. J. Wildl. Manage. 31:829-832.
Index Terms: TX/Aves/Upland Groundbird/Greater Prairie Chicken/Tympanuchus cupido/SSN/Breeding/Spring/Summer/PTC/Trapping/Netting/NAHBT/NALV
Record #260
- Anderson, R. R., and S. R. Robinson. 1990. Ground brood counts to estimate duck production on two habitats in Western Alaska. Trans. West. Sect. Wildl. Soc. 26:32-36.
Index Terms: TX/Aves/Waterfowl/LV/Breeding Success/SSN/Breeding/Summer/Spring/PTC/Nest Count/NAHBT/
Record #270

Anderson, S. H., K. Mann, and H. H. Shugart. 1977. The effect of transmission line corridors on bird populations. Am. Midl. Nat. 97:216-221.

Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/Passerine/SSN/Spring/Summer/Breeding/HBT/Deciduous Forest/Scrub/Shrub/LV/Community/PTC/Transect

Record #280

Anderson, S. H., C. S. Robbins, J. R. Partelow, and J. S. Weske. 1981. Synthesis and evaluation of avian populations and habitat data for Pennsylvania. Eastern Energy and Land Use Team, Final Rep. U.S. Dep. Interior/U.S. Fish and Wildl. Serv., Washington, D.C.

Index Terms: TX/Aves/LV/Population/Community/NAHBT/NAPTC/NASSN/

Record #290

Andrezejewski, R., and H. Wrockawek. 1963. Metal cylinder as a live trap with a bait. Acta Theriol. 6:297-300.

Index Terms: PTC/Trapping/Live-trap/NATX/NAHBT/NALV/NASSN/

Record #300

Andrzejewski, R., and E. Rajska. 1972. Trapability of Bank Voles in pitfalls and live traps. Acta Theriol. 17:41-56.

Index Terms: TX/Mammalia/Rodentia/Bank Vole/Microtus/PTC/Comparison/Trapping/Pitfall/Live-trap/NAHBT/NALV/NASSN/

Record #310

Anisimov, V. D. 1985. A method of Long-eared Owls census by means of call. Zool. Zh. 64:753-765.

Index Terms: TX/Aves/Owl/Long-eared Owl/Asio otus/PTC/Communication/NASSN/NAHBT/NALV

Record #320

Anon. 1977. Summary of NCPA survey of feral animals in the National Park System. National Parks 51:16-20.

Index Terms: TX/Mammalia/NAHBT/NAPTC/NALV/NASSN/

Record #330

Anthony, R. M., W. Anderson, J. S. Sedinger, and L. L. McDonald. 1992. Estimating Brant populations with airborne video. N. Am. Arctic Goose Conf. Workshop. No. 2:20.

Index Terms: TX/Aves/Waterfowl/Brant/Branta bernicla/LV/Population/PTC/Aerial Census/NASSN/NAHBT

Record #340

Armbruster, M. H., T. S. Baskett, W. R. Goforth, and K. C. Sadler. 1978. Evaluating call count procedures for measuring local Mourning Dove populations. Trans Missouri Acad. Sci. 12: 75-90.

Index Terms: TX/Aves/Upland Groundbird/Mourning Dove/Zenaida macroura/LV/Population/Abundance/PTC/Communication/NAHBT/NASSN/Record #350

Armstrong, D. M. 1979. Ecological distribution of rodents in Canyonlands National Park, Utah. Great Basin Naturalist 39: 199-205.

Index Terms: TX/Mammalia/Rodentia/LV/Distribution/NAHBT/NAPTC/NASSN/Record #360

Armstrong, D. M. 1972. Preliminary observations on mammalian faunal relations in Canyonlands N.P. Utah. J. Colo.-Wyo. Acad. Sci. 7:41-42.

Index Terms: TX/Mammalia/LV/Community/NAHBT/NAPTC/NASSN/Record #370

Arnason, A. N., and L. Baniuk. 1980. A computer system for mark-recapture analysis of open populations. J. Wildl. Manage. 44:325-332.

Index Terms: LV/Population/PTC/Marking/Marking/Capture-recapture/NAHBT/NATX/NASSN/Record #380

Asherin, D. A., and J. J. Claar. 1976. Inventory of riparian habitats and associated wildlife along Columbia and Snake Rivers. Vol. III: Snake River-McNary Reservoir. Idaho Coop. Wildl. Res. Unit and U.S. Army Corps Eng., Walla Walla, Wash. 556 pp.

Index Terms: LV/Community/HBT/Riparian/NASSN/NATX/NAPTC/Record #390

Aubry, K. B., L. C. L. Jones, and P. A. Hall. 1988. Use of woody debris by Plethodontid salamanders in Douglas-fir forests in Washington. Pages 32-37 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.

Index Terms: TX/Amphibia/Caudata/Ensatina/Western Redback Salamander/Plethodon vehiculum/Salientia/HBT/Coniferous Forest/LV/Relative Abundance/SSN/Spring/PTC/Timed Search/Log-turning/Record #400

Austin, G. T., and C. S. Tomoff. 1978. Relative abundance in bird populations. Am. Nat. 112:695-699.

Index Terms: TX/Aves/LV/Relative Abundance/NASSN/NAHBT/NAPTC/Record #410

Avery, M. L., and C. Van Riper III. Bird community survey at Pinnacles National Monument. National Park Service, Coop Parks Studies Unit, Univ. California, Davis, CA. Tech. Rep. No. 24. 88 pp.

Index Terms: TX/Aves/LV/Community/NASSN/NAHBT/NAPTC
Record #420

Avery, M. L., and C. Van Riper. 1988. An evaluation of the California wildlife-habitat relationships database for predicting bird community composition in Pinnacles. CPSU/UC Tech. Rep. 31 pp.

Index Terms: TX/Aves/LV/Community/NAHBT/NASSN/NAPTC
Record #430

Avery, M. L., and C. Van Riper. 1989. Seasonal changes in bird communities of the chaparral and blue oak woodlands in central California. Condor 91:288-295.

Index Terms: TX/Aves/Passerine/LV/Relative Abundance/
Community/HBT/Scrub/Shrub/Deciduous Forest/SSN/Winter/Spring/
PTC/Variable Circular-plot
Record #440

Azuma, D. L., J. A. Baldwin, and B. R. Noon. Estimating the occupancy of Spotted Owl habitat areas by sampling and adjusting for bias. U.S. For. Serv. Gen. Tech. Rep. PSW No. 124. 9 pp.

Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/LV/
Habitat Use/Presence/NAHBT/NAPTC/NASSN/
Record #450

Bacon, B. R. 1990. Ground count transects as an index to Wood Duck numbers in Wisconsin. Pages 213-217 in 1988 North American Wood Duck symposium.

Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/
Population/PTC/Transect/Ground Count/NAHBT/NASSN/
Record #460

Baggett, S. C. 1983. A comparison of two avian census methods: Strip transect and fixed circular plot. M.S. thesis, Stephen F. Austin State Univ. 80 pp.

Index Terms: TX/Aves/PTC/Strip Transect/Point Count/Fixed
Circular-plot/NASSN/NAHBT/NALV
Record #470

Bagley, F., and J. Jacobs. 1985. Census technique for endangered Big-eared Bats proving successful. Endang. Species Tech. Bull. 3:5-7.

Index Terms: TX/Mammalia/Chiroptera/Big-eared Bat/Idionycteris phyllotis/NAHBT/NALV/NASSN/NAPTC
Record #480

- Bailey, J. A. 1969. Trap response of wild cottontails. J. Wildl. Manage. 33:48-58.
Index Terms: TX/Mammalia/Lagomorpha/Eastern Cottontail/Sylvilagus floridanus/SSN/Spring/Fall/Winter/LV/Abundance/HBT/Mixed Forest/Grassland/Shrub/Scrub/PTC/Trapping/Live-trap
Record #490
- Bailey, N. T. J. 1951. On estimating the size of mobile populations from recapture data. Biometrika 38:293-306.
Index Terms: PTC/Trapping/Marking/Capture-recapture/NATX/NAHBT/NALV/NASSN/
Record #500
- Bailey, T. N., E. E. Bangs, and M. F. Portner. 1986. Trumpeter Swan surveys and studies on the Denai National Wildlife Refuge and Kenai Peninsula, Alaska, 1957-1984. Pap. Trumpeter Swan Soc. Conf. No. 9:64-65.
Index Terms: TX/Aves/Waterfowl/Trumpeter Swan/Cygnus buccinator/PTC/Aerial Census/NAHBT/NALV/NASSN/
Record #510
- Baillie, S. R. 1990. Integrated population monitoring of breeding birds in Britain and Ireland. Ibis 132:151-164.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/LV/Population/NAHBT/NAPTC
Record #520
- Baillie, S. R. 1991. Monitoring terrestrial breeding bird populations. Pages 112-132 in Goldsmith, F. B., ed. Monitoring for conservation and ecology. Chapman and Hall, London.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/LV/Population/NAHBT/NAPTC
Record #530
- Baillie, S. R., and J. H. Marchant. 1992. The use of breeding bird censuses to monitor common birds in Britain and Ireland--Current practice and future prospects. Vogelwelt 113:172-182.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/LV/Population/PTC/Breeding Bird Atlas/Breeding Bird Survey/NAHBT
Record #540
- Balasingh, J., and S. S./Subbaraj, R. Isaac. 1992. A convenient device for tagging bats in the field. Bat Res. News 33:6.
Index Terms: TX/Mammalia/Chiroptera/Indian False Vampire Bat/Megaderma lyra/PTC/Tagging/Banding/Capture-recapture/NAHBT/NALV/NASSN/
Record #550

- Balding, T., and E. Dibble. 1984. Responses of Red-tailed, Red-shouldered, and Broad-winged Hawks to high volume playback recordings. Passenger Pigeon 46:71-75.
Index Terms: TX/Aves/Raptor/Red-tailed Hawk/Buteo solitarius/Red-shouldered Hawk/Buteo lineatus/Broad-winged Hawk/Buteo platypterus/SSN/Spring/Summer/Breeding/LV/Presence/PTC/
Conspecific Recording/NAHBT
Record #560
- Balgooyen, T. G. 1977. Collecting methods for amphibians and reptiles. U.S. Dept. Inter., Bur Land Manage., Denver, Colorado. Tech. Note 299.
Index Terms: TX/Amphibia/Reptilia/PTC/Netting/Trapping/NAHBT/NALV/NASSN/
Record #570
- Baltosser, W. H. 1987. Seasonal analysis of a southwestern New Mexico riparian bird community. West. Birds 17:115-131.
Index Terms: TX/Aves/HBT/Riparian/LV/Community/NASSN/NAPTC
Record #580
- Banta, B. H. 1957. A simple trap for collecting desert reptiles. Herpetologica 13:174-176.
Index Terms: TX/Reptilia/Amphibia/HBT/Riparian/Desert/SSN/Spring/LV/Presence/PTC/Trapping/Pitfall/
Record #590
- Barnes, R. F. W., and S. C. Tapper. 1985. A method for counting hares by spotlight. J. Zool. 206:273-278.
Index Terms: TX/Mammalia/Lagomorpha/PTC/Nightlighting/NASSN/NALV/NAHBT
Record #600
- Barrett, R. H. 1983. Smoked aluminum track plots for determining furbearer distribution and relative abundance. California Fish and Game 69:188-190.
Index Terms: TX/Mammalia/Rodentia/Carnivora/SSN/Spring/Summer/Fall/Winter/LV/Distribution/Abundance/Presence/PTC/Tracking/Scent Station/NAHBT/
Record #610
- Bart, J. 1985. Causes of recording errors in singing bird surveys. Wilson Bull. 97:161-172.
Index Terms: TX/Aves/Upland Groundbird/Passerine/SSN/Breeding/Summer/LV/Presence/PTC/Breeding Bird Survey/NAHBT/
Record #620

Bart, J., and S. P. Klosiewski. 1989. Use of presence-absence to measure changes in avian density. J. Wildl. Manage. 53:847-852.

Index Terms: TX/Aves/Passerine/LV/Presence/Density/SSN/
Breeding/Spring/Summer/PTC/Breeding Bird Survey/NAHBT/
Record #630

Bart, J., and J. D. Schoultz. 1984. Reliability of singing bird surveys: Changes in observer efficiency with avian density. Auk 101:307-318.

Index Terms: TX/Aves/Passerine/LV/Density/SSN/Summer/Breeding/
HBT/Forest/Scrub/Shrub/PTC/Breeding Bird Survey/Road Census/
Communication/Comparison/
Record #640

Bart, J., R. A. Stehn, J. A. Herrick, N. A. Heaslip, T. A. Bookhout, and J. R. Stenzel. 1984. Survey methods for breeding Yellow Rails. J. Wildl. Manage. 48:1382-1386.

Index Terms: TX/Aves/Wader/Yellow Rail/Coturnicops noveboracensis/LV/Population/HBT/Wetlands/Shrub/Scrub/SSN/
Breeding/Summer/PTC/Line Transect/Strip Transect/Communication
Record #650

Bashore, T. L., and P. M. Krim. 1986. Census and ecological aspects of the Red Fox breeding population within Assateague Island Seashore, 1985. Wildlife Ecology Consultants, Hillsboro, NH. Final Rep.

Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/LV/
Population/NAHBT/NASSN/NAPTC
Record #660

Bauer, A. M., and R. A. Sadlier. 1992. The use of mouse glue traps to capture lizards. Herpetol. Rev. 23:112-113.

Index Terms: TX/Reptilia/Lacertilia/SSN/Summer/LV/Presence/
Abundance/HBT/Coniferous Forest/PTC/Trapping/
Record #670

Beacham, T. D., and C. J. Krebs. 1980. Pitfall versus live-trap enumeration of fluctuating populations of Microtus townsendii. J. Mammal. 61:486-499.

Index Terms: TX/Mammalia/Rodentia/Muridae/Microtus townsendii/
Townsend Vole/LV/Density/Population/SSN/Spring/Summer/Fall/
Winter/HBT/Agriculture/Grassland/PTC/Trapping/Pitfall/Live-
trap/
Record #680

Beatty, W. H. 1977. Attracting Screech Owls. Redstart 44:102-104.

Index Terms: TX/Aves/Owl/Screech Owl/Otus asio/NAHBT/NAPTC/
NALV/NASSN/
Record #690

Beaver, R. D., and V. Lewin. 1981. Scheduling censuses of breeding white pelicans (Pelecanus erythrorhynchos) in northern Alberta. Can. Field-Nat. 95:198-201.

Index Terms: TX/Aves/Waterfowl/American White Pelican/Pelecanus erythrorhynchos/SSN/Breeding/Spring/Summer/NALV/NAHBT/NAPTC

Record #700

Becker, E. F. J. 1991. A terrestrial furbearer estimator based on probability sampling. J. Wildl. Manage. 55:730-737.

Index Terms: TX/Mammalia/Carnivora/Lynx/Felis lynx/Wolverine/Gulo gulo/LV/Abundance/HBT/Coniferous Forest/SSN/Winter/PTC/Tracking/Aerial Census/

Record #710

Belant, J. L. 1992. Efficacy of three types of live traps for capturing weasels, Mustela spp.. Can. Field-Nat. 106:394-397.

Index Terms: TX/Mammalia/Carnivora/Weasel/Mustela/PTC/Trapping/Live-trap/Comparison/NASSN/NAHBT/NALV

Record #720

Belant, J. L., J. F. Olson, and R. K. Anderson. 1993. Evaluation of the single survey technique for assessing Common Loon populations. J. Field Ornithol. 64:77-83.

Index Terms: TX/Aves/Waterfowl/Common Loon/Gavia immer/LV/Population/NASSN/NAPTC/NAHBT

Record #730

Bell, B. D., C. K. Catchpole, K. J. Corbett, and R. J. Hornby. 1973. The relationship between census results and breeding populations of some marshland passerines. Bird Study 20:127-140.

Index Terms: TX/Aves/Passerine/SSN/Breeding/Spring/Summer/LV/Population/HBT/Wetlands/NAPTC

Record #740

Bell, R. E. 1964. A sound triangulation method for counting Barred Owls. Wilson Bull. 76:292-294.

Index Terms: TX/Aves/Owl/Barred Owl/Strix varia/LV/Population/Distribution/Density/HBT/Deciduous Forest/SSN/Breeding/Spring/Summer/PTC/Communication/

Record #750

Berger, D. D., and F. Hameerstrom. 1962. Protecting a trapping station from raptor predation. J. Wildl. Manage. 26:203.

Index Terms: PTC/Trapping/NAHBT/NALV/NASSN/NATX

Record #760

Best, L. B. 1975. Interpretational errors in the "mapping method" as a census technique. Auk 92:452-460.

Index Terms: TX/Aves/PTC/Spot-mapping/NAHBT/NALV/NASSN/
Record #770

Best, L. B. 1990. Marking passerine tail feathers with colored tape. Wilson Bull. 102:710-714.

Index Terms: TX/Aves/Passerine/PTC/Marking/Netting/Mist-net/
NAHBT/NALV/NASSN/
Record #780

Best, L. B. 1981. Seasonal changes in detection of individual bird species. Pages 252-261 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Upland Groundbird/Woodpecker/Passerine/
HBT/Deciduous Forest/Riparian/SSN/Breeding/Spring/Summer/LV/
Community/Density/PTC/Spot-mapping/Transect/
Record #790

Best, R. G., R. Fowler, D. Hause, and M. Wehde. 1982. Aerial thermal infrared census of Canada Geese in South Dakota.

Photogr. Eng. Remote Sens. 48:1869-1877.

Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/
PTC/Photography/Aerial Census/NASSN/NALV/NAHBT
Record #800

Bibby, C. J., and S. T. Buckland. 1987. Bias of bird census results due to detectability varying with habitat. Acta Oecol. Oecol. Gen. 8:103-112.

Index Terms: TX/Aves/NASSN/NAHBT/NALV/NAPTC
Record #810

Birkan, M. 1991. The validity of various spring census methods as applied to Grey Partridge and Red-legged Partridge pair counts. Trans. Congr. Int. Union Game Biol. 20:238-243.

Index Terms: TX/Aves/Upland Groundbird/Grey Partridge/Perdix perdix/Red-legged Partridge/Alectoris rufa/SSN/Spring/NALV/
NAPTC/NAHBT
Record #820

Bishop, R. A., and R. Barrat. 1969. Capturing waterfowl in Iowa by night-lighting. J. Wildl. Manage. 33:956-960.

Index Terms: TX/Aves/Waterfowl/Wader/Mammalia/Rodentia/
Muridae/Muskrat/Ondatra zibethicus/SSN/Summer/LV/Population/
HBT/Wetlands/PTC/Nightlighting/Netting/
Record #830

Bjork, J. 1988. Peregrine Falcon monitoring at Padre Island.
Park Science 8:7-9.

Index Terms: TX/Aves/Raptor/Peregrine Falcon/Falco peregrinus/
NALV/NASSN/NAHBT/NAPTC
Record #840

Bjorklund, J. 1983. Small mammal collecting in the North
Cascades. North Cascades National Park. Misc. Res. Paper NCT-
18. 7 pp.

Index Terms: TX/Mammalia/Rodentia/Insectivora/NAHBT/NALV/
NASSN/NAPTC
Record #850

Blacklock, G. W., D. R. Blanikship, S. D. Kenndy, K. A. King, R.
T. Paul, R. D. Slack, J. C. Smith, and R. C. Telfair II,
compilers. 1978. Texas Colonial Waterbird Census, 1973-1976.
Texas Park Wildl. Dept. FA Rep. 15.

Index Terms: TX/Aves/Shorebird/Wader/NAHBT/NALV/NASSN/NAPTC
Record #860

Blair, W. F. 1941. Techniques for the study of mammal
populations. J. Mammal. 22:148-157.

Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/LV/
Population/Density/Distribution/PTC/Trapping/Live-trap/NAHBT/
NASSN/
Record #870

Blake, J. G., J. M. Hanowski, G. J. Niemi, and P. T. Collins.
1991. Hourly variation in transect counts of birds. Ornith.
Fenn. 68:139-147.

Index Terms: TX/Aves/Woodpecker/Passerine/HBT/Mixed Forest/
Coniferous Forest/Deciduous Forest/SSN/Breeding/Summer/Fall/LV/
Abundance/PTC/Fixed-width Transect/
Record #880

Blanchard, F. N., and E. B. Finster. 1933. A method of marking
living snakes for future recognition, with a discussion of some
problems and results. Ecology 14:334-347.

Index Terms: TX/Reptilia/Serpentes/PTC/Marking/NAHBT/NALV/
NASSN/
Record #890

Blankenship, L. H. 1957. Michigan Woodcock Investigations:
Investigations of the American Woodcock in Michigan. Mich.
Dept. of Conservation. W-090-R-04. 222 pp.

Index Terms: TX/Aves/Upland Groundbird/American Woodcock/
Scolopax minor/LV/Population/NAHBT/NAPTC/NASSN/
Record #900

Bleitz, D. Mist nets and their use. Bleitz Wildlife Foundation, 5334 Hollywood Blvd., Hollywood, CA. 18 pp.
Index Terms: PTC/Netting/Mist-net/NATX/NAHBT/NALV/NASSN/
Record #910

Block, W. M., M. L. Morrison, C. Slaymaker, and G. Jongejan. 1988. Design considerations for the study of amphibians, reptiles, and small mammals in California's oak woodlands: Temporal and spatial patterns. Pages 247-253 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/Amphibia/Salientia/Caudata/Reptilia/Lacertilia/Serpentes/HBT/Deciduous Forest/LV/Relative Abundance/PTC/Trapping/Pitfall/NASSN/
Record #920

Blondel, J., C. Ferry, and B. Frochot. 1981. Point counts with unlimited distance. Pages 414-420 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Passerine/HBT/Coniferous Forest/Deciduous Forest/LV/Density/Community/PTC/Unlimited-distance Point Count/Spot-mapping/NASSN/
Record #930

Blondel, J., C. Ferry, and B. Frochot. 1970. The punctual indexes of abundance (P.I.A.) method or avifauna census by means of listening stations. Alauda 38:55-71.
Index Terms: TX/Aves/PTC/Point Count/NAHBT/NASSN/NALV
Record #940

Blondel, J., and B. Frochot. 1987. Bird census and atlas studies. Acta Oecol. Oecol. Gen. 8:89-344.
Index Terms: TX/Aves/PTC/Breeding Bird Atlas/NASSN/NAHBT/NALV
Record #950

Bock, C. E., and L. W. Lepthien. 1975. Patterns of bird species diversity revealed by Christmas counts versus breeding bird surveys. Western Birds 6:95-100.
Index Terms: TX/Aves/LV/Community/SSN/Breeding/Spring/Summer/Winter/PTC/Comparison/Breeding Bird Survey/Christmas Bird Count/NAHBT/
Record #960

- Boeker, E. L. 1974. Status of the Golden Eagle surveys in the western states. Wildl. Soc. Bull. 2:46-49.
Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/LV/Population/SSN/Breeding/Spring/Summer/Winter/PTC/Aerial Census/Transect/Nest Count/Banding/NAHBT/
Record #970
- Boeker, E. L. 1970. Use of aircraft to determine Golden Eagle (Aquila chrysaetos) nesting activity. Southwest. Nat. 15:136-137.
Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/LV/Nesting success/PTC/Aerial Census/NAHBT/NASSN/
Record #980
- Bonaccorso, F. J., N. Smythe, and S. R. Humphrey. 1976. Improved techniques for marking bats. J. Mammal. 57:181-182.
Index Terms: TX/Mammalia/Chiroptera/PTC/Marking/NAHBT/NALV/NASSN/
Record #990
- Bonaccorso, F. J., and N. Smythe. 1972. Punch-marking: An alternative to banding. J. Mammal. 53:389-390.
Index Terms: TX/Mammalia/Chiroptera/PTC/Comparison/Marking/Banding/NAHBT/NALV/NASSN/
Record #1000
- Bondrup-Nielsen, S. 1983. Density estimation as a function of live-trapping grid and home range size. Can. J. Zool. 61:2361-2365.
Index Terms: TX/Mammalia/LV/Density/Home Range/PTC/Trapping/Live-trap/Quadrat/NASSN/NAHBT
Record #1010
- Boonstra, R., M. Kanter, and C. J. Krebs. 1992. A tracking technique to locate small mammals at low densities. J. Mammal. 73:683-685.
Index Terms: TX/Mammalia/Rodentia/Muridae/Microtus oeconomus/Tundra Vole/Dicrostonyx kilangmiutak/Collared Lemming/HBT/Tundra/Grassland/LV/Presence/SSN/Summer/PTC/Tracking/
Record #1020
- Boonstra, R., and C. J. Krebs. 1978. Pitfall trapping of Microtus townsendii. J. Mammal. 59:136-148.
Index Terms: TX/Mammalia/Rodentia/Muridae/Microtus townsendii/Townsend Vole/HBT/Grassland/LV/Density/SSN/Spring/Summer/Fall/PTC/Trapping/Pitfall/Live-trap/
Record #1030

- Boonstra, R., and F. H. Rodd. 1984. Efficiency of pitfalls versus live traps in enumeration of populations of Microtus pennsylvanicus. Can. J. Zool. 62:758-765.
Index Terms: TX/Mammalia/Rodentia/Muridae/Microtus pennsylvanicus/Meadow Vole/SSN/Spring/LV/Population/HBT/Scrub/Shrub/Grassland/PTC/Comparison/Trapping/Pitfall/Live-trap/Capture-recapture/
Record #1040
- Bosakowski, T. 1987. Census of Barred Owls and Spotted Owls. U.S. For. Serv. Gen. Tech. Rep. RM-142. Pages 307-308.
Index Terms: TX/Aves/Owl/Barred Owl/Strix varia/Spotted Owl/Strix occidentalis/NASSN/NALV/NAHBT/NAPTC
Record #1050
- Bouffard, S. H., and D. Hein. 1978. Census methods for Eastern Gray Squirrels. J. Wildl. Manage. 42:550-557.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Eastern Gray Squirrel/Sciurus carolinensis/HBT/Deciduous Forest/SSN/Summer/Fall/LV/Abundance/Density/PTC/Trapping/Live-trap/Conspecific Recording/Communication/Comparison/
Record #1060
- Bournaud, M., and M. Corbille. 1979. The determination of species richness of bird communities in heterogeneous habitats: The influence of the number of "census spots". Terre Vie 33: 71-94.
Index Terms: TX/Aves/LV/Community/NAHBT/NASSN/NAPTC
Record #1070
- Brackney, A. W. 1979. Population ecology of common gallinules in Southwestern Lake Erie Marshes. M.S. thesis, Ohio State Univ., Ohio Coop. Wildlife Research Unit. 80 pp.
Index Terms: TX/Aves/Wader/Common Gallinule/Gallinula chloropus/LV/Population/HBT/Wetlands/NASSN/NAPTC
Record #1080
- Brady, J. R., and M. R. Pelton. 1978. A comparison of some census techniques for the cottontail rabbit. Proc. Annu. Conf. Southeast. Assoc. Fish Wildl. Agencies 30:546-551.
Index Terms: TX/Mammalia/Lagomorpha/Cottontail/Sylvilagus/NALV/NASSN/NAHBT/NAPTC
Record #1090
- Braithwaite, L. W., M. P. Austin, M. Clayton, J. Turner, and A. O. Nicholls. 1989. On predicting the presence of birds in eucalyptus forest types. Biol. Conserv. 50:33-50.
Index Terms: TX/Aves/LV/Presence/HBT/Deciduous Forest/NASSN/NAPTC
Record #1100

Brakage, D. H. 1990. Techniques currently used for monitoring Wood Duck populations. Pages 201-203 in 1988 North American Wood Duck symposium.

Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/
Population/NAHBT/NASSN/NAPTC
Record #1110

Brandt, C. A., and W. H. Rickard Jr. 1992. Effects of survey frequency on bird density estimates in the shrub-steppe environment. Northwest Sci. 66:172-181.

Index Terms: TX/Aves/LV/Density/HBT/Shrub/Scrub/NASSN/NAPTC
Record #1120

Braun, C. E., R. K. Schmidt Jr., and G. E. Rogers. 1973. Census of Colorado White-tailed Ptarmigan with tape-recorded calls. J. Wildl. Manage. 37:90-93.

Index Terms: TX/Aves/Upland Groundbird/White-tailed Ptarmigan/
Lagopus leucurus/SSN/Spring/Summer/Fall/LV/Population/PTC/
Communication/Conspecific Recordings/Netting/NAHBT
Record #1130

Brazell, R. E., G. W. Workman, and D. D. May. 1977. A preliminary survey on Beaver in Canyonlands National Park. Final Rep. NPS. 38 pp.

Index Terms: TX/Mammalia/Rodentia/Castoridae/Beaver/NAHBT/
NAPTC/NALV/NASSN/
Record #1140

Brenner, F. J. 1984. Evaluation of drift fence as census for terrestrial vertebrate communities. J. Pa. Acad. Sci. (Suppl.) 64:183.

Index Terms: TX/Mammalia/Reptilia/Amphibia/LV/Community/PTC/
Drift Fence/NASSN/NAHBT
Record #1150

Brewer, R. 1972. An evaluation of winter bird population studies. Wilson Bull. 84:261-277.

Index Terms: TX/Aves/Upland Groundbird/Woodpecker/Passerine/
HBT/Mixed Forest/Deciduous Forest/LV/Density/Population/
Community/SSN/Winter/PTC/Winter Bird Population Study/
Record #1160

Briese, L. A., and M. H. Smith. 1974. Seasonal abundance and movement of nine species of small mammals. J. Mammal. 55:615-629.

Index Terms: TX/Mammalia/Rodentia/Muridae/Vole/Microtus/Mouse/
Mus/Peromyscus/Oryzomys/Rice Rat/Reithrodontomys/Sigmodon/
Harvest Mouse/Cotton Rat/Insectivora/Sorex/Cryptotis/Blarina/
Condylura/Shrew/Mole/HBT/Shrub/Scrub/SSN/Breeding/Winter/
Summer/Fall/Spring/LV/Distribution/Abundance/PTC/Trapping/

Pitfall/Live-trap/Drift fence
Record #1170

Bromaghin, J. F. 1991. Sampling and parameter estimation in avian nesting studies. Ph.D. dissertation, Univ. Wyoming. 157 pp.
Index Terms: TX/Aves/LV/Nesting success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
Record #1180

Bromely, R. G., and B. Croft. 1992. Breeding population estimates inversely correlated to nest success in Greater White-fronted and Canada Geese. N. Am. Arctic Goose Conf. Workshop. No. 2:31.
Index Terms: TX/Aves/Waterfowl/Greater White-fronted Goose/Anser albifrons/Canada Goose/Branta canadensis/LV/Population/Nesting Success/SSN/Breeding/Spring/Summer/PTC/Aerial Census/NAHBT
Record #1190

Broome, L. S. 1985. Sightability as a factor in aerial survey of bird species and communities. Aust. Wildl. Res. 12:57-67.
Index Terms: TX/Aves/LV/Community/PTC/Aerial Census/NASSN/NAHBT
Record #1200

Broschart, M. R., C. A. Johnston, and R. J. Naiman. 1989. Predicting Beaver colony density in boreal landscapes. J. Wildl. Manage. 53:929-934.
Index Terms: TX/Mammalia/Rodentia/Castoridae/Beaver/Castor canadensis/LV/Density/HBT/Wetlands/Coniferous Forest/PTC/Index/Aerial Census/Photography/NASSN
Record #1210

Brower, J. E., and J. H. Zar. 1977. Capture-recapture sampling. in Brown, W. C. Field and Laboratory Methods for General Ecology. , Dubuque, Iowa.
Index Terms: PTC/Trapping/Capture-recapture/NATX/NAHBT/NALV/NASSN/
Record #1220

Brower, J. E., and J. H. Zar. 1984. Field and Laboratory Methods for General Ecology. 2nd ed. Wm. C. Brown Publishers, Dubuque, Iowa.
Record #1230

- Brown, D. E. 1982. The use of "clippings" to index Tassel-eared Squirrel population levels. J. Wildl. Manage. 46:520-525.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Tassel-eared Squirrel/Sciurus aberti/LV/Relative Density/Population/HBT/Coniferous Forest/SSN/Summer/PTC/Index/Transect
Record #1240
- Brown, D. E., N. B. Carmony, and R. M. Turner. 1977. Inventory of riparian habitats. U.S. For. Serv., Fort Collins, CO. Gen. Tech. Rep. RM-43.
Index Terms: HBT/Riparian/NATX/NASSN/NALV/NAPTC
Record #1250
- Brown, D. E., and R. H. Smith. 1976. Predicting hunter success from call counts of Mourning and White-winged Doves. J. Wildl. Manage. 40:743-749.
Index Terms: TX/Aves/Upland Groundbird/Mourning Dove/Zenaida macroura/White-winged Dove/Zenaida asiatica/SSN/Breeding/Spring/Summer/HBT/Desert/Grassland/Scrub/Shrub/Coniferous Forest/Deciduous Forest/LV/Population/PTC/Road Census/Communication/
Record #1260
- Brown, M., and J. R. Nassar. 1991. Estimating wintering Bald Eagle densities in the Mississippi Alluvial Valley. Raptor Res. 25:40-42.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/Waterfowl/Mallard/Anas platyrhynchos/LV/Density/SSN/Winter/HBT/Riparian/PTC/Aerial census/Transects/
Record #1270
- Brown, W. S., and W. S. Parker. 1976. A ventral scale clipping system for permanently marking snakes (Reptilia, Serpentes). J. Herpetol. 10:247-249.
Index Terms: TX/Reptilia/Serpentes/PTC/Marking/NAHBT/NALV/NASSN/
Record #1280
- Bryant, H. C. 1945. The status of game birds in Grand Canyon National Park, Arizona. Wildlife Sportsman 6:10-11.
Index Terms: TX/Aves/Waterfowl/Upland Groundbird/NAHBT/NAPTC/NALV/NASSN/
Record #1290
- Bub, H. 1991. Bird trapping and banding: A handbook for trapping methods all over the world. Translated from German by Hamerstrom, F., and K. Wuetz-Shaffer. Cornell Univ. Press, Cornell Univ. Press, 124 Roberts Pl., Ithaca, N.Y. 330pp.
Index Terms: TX/Aves/PTC/Trapping/Banding/Marking/Netting/NAHBT/NALV/NASSN/
Record #1300

Bub, H., and H. Oelke. 1989. The history of bird marking till the inception of scientific bird ringing. Ring. Int. Ornithol. Bull. 12:141-163.

Index Terms: TX/Aves/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #1310

Buhlmann, K. A., C. A. Pague, J. C. Mitchell, and R. B. Glasgow. 1988. Forestry operations and terrestrial salamanders: Techniques in a study of the Cow Knob Salamander, Plethodon punctatus. Pages 38-44 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the symposium, July 19-21, 1988, Flagstaff, Arizona.

Index Terms: TX/Amphibia/Caudata/Cow-Knob Salamander/Plethodon punctatus/HBT/Mixed Forest/LV/Relative Abundance/SSN/Spring/Summer/Winter/Fall/PTC/Trapping/Pitfall/Drift Fence/Timed Search/Log-turning/
Record #1320

Buhlmann, K. A., M. R. Vaughan, M. Lobb, D. Orth, and K. Jirka. 1987. A biological survey of the New River Gorge National River. Vol. 1. Mid-Atlantic Region Research/Resources Management Report MAR-23.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #1330

Buhlmann, K. A., and M. R. Vaughan. 1987. A biological survey of the New River Gorge National River. A survey of habitats and wildlife. Vol. 2. Mid-Atlantic Region Research/Resources Management Report MAR-23.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #1340

Bull, E. L. 1981. Indirect estimates of abundance of birds. Pages 76-80 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/LV/Abundance/Density/PTC/Pellet Index/Nest Count/Roost Count/Tracking/Scat Index/Communication/NAHBT/NASSN/
Record #1350

Bull, E. L., R. S. Holthausen, and L. R. Bright. 1992. Comparison of three techniques to monitor Marten. Wildl. Soc. Bull. 20:406-410.

Index Terms: TX/Mammalia/Carnivora/Marten/Martes americana/SSN/Winter/Summer/LV/Presence/HBT/Coniferous Forest/PTC/Tracking/Scent Station/Photography/
Record #1360

- Burgess, R. M., and R. J. Ritchie. 1992. Nest censuses and nest distribution in the Snow Goose colony on Howe Island, Alaska. N. Am. Arctic Goose Conf. Workshop. No. 2:33.
Index Terms: TX/Aves/Waterfowl/Snow Goose/Chen caerulescens/LV/Distribution/SSN/Breeding/Spring/Summer/PTC/Aerial Census/NAHBT
Record #1370
- Burn, J., P. Che, and J. Aubineau. 1990. Comparison of three census methods for partridges (Alectoris rufa and Perdix perdix) in a bocage habitat. Gibier Faune Sauvage 7:127-144.
Index Terms: TX/Aves/Upland Groundbird/Gray Partridge/Perdix perdix/Red-legged Partridge/Alectoris rufa/NASSN/NALV/NAHBT/NAPTC
Record #1380
- Burnham, K. P. 1972. Estimation of population size in multiple capture-recapture studies when capture probabilities vary among animals. Ph.D. dissertation, Oregon State Univ., Corvallis.
Index Terms: TX/Mammalia/LV/Population/PTC/Capture-recapture/Trapping/NAHBT/NASSN/
Record #1390
- Burnham, K. P., D. R. Anderson, and J. L. Laake. 1980. Estimation of density from line transect sampling of biological populations. Wildl. Monogr. 72:1-202.
Index Terms: LV/Density/PTC/Transect/NATX/NAHBT/NASSN/
Record #1400
- Burnham, K. P., and D. R. Anderson. 1984. The need for distance data in transect counts. J. Wildl. Manage. 48:1248-1254.
Index Terms: LV/Density/PTC/Line Transect/Strip Transect/NATX/NASSN/NAHBT
Record #1410
- Burnham, K. P., and W. S. Overton. 1969. A simulation study of live-trapping and estimation of population size. Oregon State Univ., Dept of Statistics. Tech. Rep. 14. 60 pp.
Index Terms: LV/Population/PTC/Trapping/Live-trap/NATX/NAHBT/NASSN/
Record #1420
- Burt, H. E., and B. P. Burt. 1982. Reliability of the Christmas bird count. Redstart 49:90-93.
Index Terms: TX/Aves/SSN/Winter/PTC/Christmas Bird Count/NAHBT/NALV/
Record #1430

Bury, R. B. 1982. Structure and composition of Mojave Desert reptile communities determined with a removal method. Herpetological Communities. U.S. Dept. Inter., Fish and Wildl. Serv. Wild. Res. Rep. 13.

Index Terms: TX/Reptilia/HBT/Desert/LV/Community/PTC/Trapping/Removal/NASSN/

Record #1440

Bury, R. B., and P. S. Corn. 1987. Evaluation of pitfall trapping in northwestern forests: Trap arrays with drift fences. J. Wildl. Manage. 51:112-119.

Index Terms: TX/Mammalia/Insectivora/Rodentia/Muridae/Reptilia/Lacertilia/Serpentes/Amphibia/Salientia/Caudata/HBT/Coniferous Forest/SSN/Spring/Summer/Fall/LV/Relative Abundance/Presence/PTC/Trapping/Drift Fence/Pitfall/Funnel-trap/Snap-trap/

Record #1450

Bury, R. B., and P. S. Corn. 1991. Sampling methods for amphibians in streams in the Pacific northwest. U.S. For. Serv. Gen. Tech. Rep. 275. 29 pp.

Index Terms: TX/Amphibia/HBT/Wetlands/Riparian/NASSN/NALV/NAPTC

Record #1460

Bury, R. B., and M. G. Raphael. 1983. Inventory methods for amphibians and reptiles. In Bell, J. F., and T. Atterbury, eds. Renewable resource inventories for monitoring changes and trends: Proceedings of an international conference. Corvallis, Oregon, August 15-19, 1983. Society of American Foresters 83-14.

Index Terms: TX/Reptilia/Amphibia/NAHBT/NALV/NASSN/NAPTC

Record #1470

Busche, G. 1992. Surveys on large areas of agricultural land with hedges and the calculation of breeding bird numbers in 1972 and 1987. Vogelwelt 113:56-71.

Index Terms: TX/Aves/HBT/Agriculture/Shrub/Scrub/LV/

Population/SSN/Breeding/Spring/Summer/NAPTC

Record #1480

Butler, W. I. Jr., R. A. Stehn, and W. D. Eldridge. 1992. Aerial surveys of geese nesting on the Yukon-Kuskokwim Delta, Alaska. N. Am. Arctic Goose Conf. Workshop. No. 2:38.

Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/Greater White-fronted Goose/Anser albifrons/Emperor Goose/Anser canagica/SSN/Breeding/Spring/Summer/PTC/Aerial Census/NALV/NAHBT

Record #1490

Butler, W. I. Jr., R. A. Stehn, G. R. Balogh, F. Gerhardt, and R. Platte. 1992. An aerial survey-GIS for developing waterfowl distribution and density maps. N. Am. Arctic Goose Conf. Workshop. No. 2:37.

Index Terms: TX/Aves/Waterfowl/LV/Distribution/Density/PTC/Aerial Census/NASSN/NAHBT
Record #1500

Bystrak, D., and C. S. Robbins. 1978. Bird population trends detected by the North American breeding bird survey. Polish Ecol. Studies 3:131-143.

Index Terms: TX/Aves/LV/Population/SSN/Breeding/Spring/Summer/PTC/Breeding Bird Survey/NAHBT/
Record #1510

Cadbury, C. J. 1981. Nightjar census methods. Bird Study 28:1-4.

Index Terms: TX/Aves/Passerine/NASSN/NALV/NAHBT/NAPTC
Record #1520

Cahalane, V. H. 1959. A biological survey of Katmi National Monument. Smithsonian Misc. Coll. 138:1-246.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #1530

Cahalane, V. H. 1948. The status of mammals in the U.S. national park system. J. Mammal. 29:247-259.

Index Terms: TX/Mammalia/NAHBT/NAPTC/NALV/NASSN/
Record #1540

Calhoun, J. B., and J. V. Casby. 1958. Calculation of home range and density of small mammals. Public Health Service. Public Health Monograph. 24 pp.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Density/Home Range/NAHBT/NAPTC/NASSN
Record #1550

Call, M. W. Nesting habitats and surveying techniques for common western raptors. U.S. Dept. Inter., Bur Land Manage. Serv. Cen., Denver, CO. Tech. Note 316. 155 pp.

Index Terms: TX/Aves/Raptor/LV/Nesting Success/Habitat Use/SSN/Breeding/Spring/Summer/NAHBT/NAPTC
Record #1560

Call, M. W. 1981. Terrestrial wildlife inventories: Some methods and concepts. 1-171 U.S. Dept. Inter., Bur Land Manage. Tech. Note.

Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC
Record #1570

Campbell, H. W., and S. P. Christman. 1982. Field techniques for herpetofaunal community analysis. In Scott, N. J., Jr., ed. Herpetological Communities. U.S. Dept. Inter., Fish and Wildl. Serv., Washington, D.C. Wildl. Res. Rep. 13. 239 pp.
Index Terms: TX/Reptilia/Amphibia/LV/Community/NAHBT/NASSN/NAPTC
Record #1580

Cannon, R. W. 1984. Status and trends of prairie chicken populations relative to habitat management and land-use: Status of previously unknown populations of prairie chickens in Missouri. Final Report. Missouri Department of Conservation. MO W-013-R-38. 16 pp.
Index Terms: TX/Aves/Upland Groundbird/Prairie Chicken/Tympanuchus/LV/Population/Habitat Use/NAHBT/NAPTC/NASSN/
Record #1590

Cannon, R. W., and F.L. Knopf. 1981. Lek numbers as a trend index to prairie grouse populations. J. Wildl. Manage. 45:776-778.
Index Terms: TX/Aves/Upland Groundbird/Lesser Prairie Chicken/Tympanuchus pallidicinctus/Greater Prairie Chicken/Tympanuchus cupido/SSN/Spring/HBT/Deciduous Forest/Scrub/Shrub/Grassland//LV/Population/PTC/Lek Index/
Record #1600

Carey, A. B., B. L. Biswell, and J. W. Witt. 1991. Methods for measuring populations of arboreal rodents. U.S. Dept. Inter., For Serv. Tech. Rep.
Index Terms: TX/Mammalia/Rodentia/HBT/Forest/LV/Population/NASSN/NAPTC
Record #1610

Carey, A. B., and J. W. Witt. 1991. Track counts as indices to abundances of arboreal rodents. J. Mammal. 72:192-194.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Northern Flying Squirrel/Glaucomys sabrinus/HBT/Coniferous Forest/LV/Abundance/SSN/Summer/Fall/PTC/Scent Station/Trapping/Live-trap/Tracking/
Record #1620

Carothers, S. W., and R. R. Johnson. 1975. Recent observations on the status and distribution of some birds of the Grand Canyon region. Plateau 47:140-153.
Index Terms: TX/Aves/LV/Presence/Distribution/NAHBT/NAPTC/NASSN/
Record #1630

- Carothers, S. W., M. E. Stitt, and R. R. Johnson. 1976. An ecological survey of the riparian zone of the Colorado River between Lees Ferry and Grand Wash Cliffs, Arizona. Grand Canyon N.P. NPS Tech. Rep. 10. 251 pp.
Index Terms: HBT/Riparian/LV/Community/NATX/NASSN/NAPTC
Record #1640
- Carpenter, C. C. 1955. Sounding turtles: A field location technique. Herpetologica 11:120.
Index Terms: TX/Reptilia/Testudines/Three-toed Box Turtle/Terrapene carolina/Western Box Turtle/Terrapene ornata/Kinosternon flavescens/Yellow Mud Turtle/Snapping Turtle/Chelydra serpentina/Pond Slider/Chrysemys scripta/HBT/Forest/SSN/Summer/Fall/Spring/Winter/LV/Presence/PTC/Sounding
Record #1650
- Carpenter, C. C. 1953. Trapping technique for aquatic salamanders. Herpetologica 8:183.
Index Terms: TX/Amphibia/Caudata/Tiger Salamander/Ambystoma tigrinum/HBT/Wetlands/SSN/Summer/LV/Presence/Distribution/PTC/Trapping/Funnel-trap/
Record #1660
- Carrier, W. D., and W. E. Melquist. 1976. The use of rotor-winged aircraft in conducting nesting surveys in Ospreys in Northern Idaho. Raptor Res. 10:77-83.
Index Terms: TX/Aves/Raptor/Osprey/Pandion haliaetus/LV/Nesting Success/SSN/Breeding/Spring/Summer/PTC/Aerial Census/Nest Count/NAHBT/
Record #1670
- Carter, H. R., T. Ingram, F. Gress, G. J. McChesney, and D. L. Jory. 1992. Censusing nesting California Brown Pelicans from aerial photographs. Pac. Seabird Group Bull. 19:47.
Index Terms: TX/Aves/Waterfowl/Brown Pelican/Pelecanus occidentalis/PTC/Aerial Census/Photography/NAHBT/NALV/NASSN/
Record #1680
- Case, R. M. 1978. Interstate highway road-killed animals, a data source for biologists. Wildl. Soc. Bull. 6:8-13.
Index Terms: TX/Mammalia/Didelphimorphia/Carnivora/Rodentia/LV/Population/Abundance/SSN/Summer/Winter/Fall/Spring/PTC/Road Kill/Road Census/NAHBT
Record #1690
- Catchpole, E. A., and B. J. T. Morgan. 1991. A note on Seber's model for ring recovery data. Biometrika 78:917-919.
Index Terms: PTC/Marking/Banding/NATX/NAHBT/NALV/NASSN/
Record #1700

- Caughley, G. 1977. Analysis of vertebrate populations. John Wiley and Sons, New York, N.Y. 234pp.
Index Terms: LV/Population/NATX/NAHBT/NAPTC/NASSN/
Record #1710
- Cayford, J. T., and F. Walker. 1991. Counts of male Black Grouse Tetrao tetrix in North Wales. Bird Study 38:80-86.
Index Terms: TX/Aves/Upland Groundbird/Black Grouse/Tetrao tetrix/HBT/Wetlands/SSN/Breeding/Spring/Summer/PTC/Lek Index/
NALV
Record #1720
- Chaney, A., and C. L. Smith. 1950. Methods for collecting Map Turtles. Copeia 1950:323-324.
Index Terms: TX/Reptilia/Testudines/Map Turtle/Graptemys geographica/SSN/Summer/HBT/Wetlands/Riparian/PTC/Boat Census/
NALV
Record #1730
- Chelkoswka, H. 1967. An attempt at comparing two methods of trapping small rodents (in pitfalls and live traps). Ekologia Polska Seria A 15:779-785.
Index Terms: TX/Mammalia/Rodentia/PTC/Trapping/Pitfall/Live-trap/NAHBT/NALV/NASSN/
Record #1740
- Chitty, D. 1937. A ringing technique for small mammals. J. Animal Ecol. 6:35-53.
Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Banding/
NAHBT/NALV/NASSN/
Record #1750
- Chitty, D., and M. Shorten. 1946. Techniques for the study of the Norway Rat (Rattus norvegicus). J. Mammal. 27:63-78.
Index Terms: TX/Mammalia/Rodentia/Muridae/Norway Rat/Rattus norvegicus/NAHBT/NALV/NASSN/NAPTC
Record #1760
- Clark, D. R. Jr. 1966. A funnel trap for small snakes. Trans. Kansas Acad. Sci. 69:91-95.
Index Terms: TX/Reptilia/Serpentes/PTC/Trapping/Funnel-trap/
NAHBT/NALV/NASSN/
Record #1770

Clark, R. G., P. J. Weatherhead, and R. D. Titman. 1983. On the relationship between Breeding Bird Survey counts and estimates of male density in the Red-winged Blackbird. Wilson Bull. 95: 453-459.

Index Terms: TX/Aves/Passerine/Red-winged Blackbird/Agelaius phoeniceus/LV/Density/SSN/Breeding/Summer/HBT/Agriculture/PTC/Breeding Bird Survey/Road Census/
Record #1780

Clark, T. W. 1973. Distribution and reproduction of shrews in Grand Teton National Park. Northwest Sci. 47:128-131.

Index Terms: TX/Mammalia/Insectivora/LV/Breeding Success/
Distribution/NAHBT/NAPTC/NASSN
Record #1790

Clark, T. W., and T. M. Campbell. 1983. A small carnivore survey technique. Great Basin Nat. 43:438-440.

Index Terms: TX/Mammalia/Rodentia/Muridae/Sciuridae/Carnivora/
LV/Presence/PTC/Scent Station/NAHBT/NASSN/
Record #1800

Cleland, C. E. 1968. Analysis of the fauna of the Indian Point Site on Isle Royale in Lake Superior. Mich. Archaeologist 14: 143-146.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #1810

Cochran, W. G. 1977. Sampling Techniques. John Wiley and Sons, New York.

Index Terms: NATX/NAHBT/NALV/NASSN/NAPTC
Record #1820

Cockburn, A., M. Fleming, and J. Wainer. 1979. The comparative effectiveness of drift fence pitfall trapping and conventional cage trapping of vertebrates in the Big Desert, North-Western Victoria. Victorian Nat. 96:92-95.

Index Terms: PTC/Comparison/Trapping/Drift-fence/Pitfall/Live-trap/NATX/NAHBT/NALV/NASSN/
Record #1830

Cockrum, E. L., S. M. Russell, and C. H. Love. 1976. Survey of the vertebrate fauna of Ft. Bowie NHS, Arizona. CPSU Univ. AZ. Tech. Rep. 2. 120 pp.

Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC
Record #1840

Cole, C. A., and R. L. Smith. 1983. Habitat suitability indices for monitoring wildlife populations. Trans. North Am. Wildl. and Nat. Resour. Conf. 48:367-375.

Index Terms: LV/Population/Habitat Use/NATX/NAHBT/NAPTC/NASSN/
Record #1850

Coleman, J. S. 1986. Home range, habitat use, and morphology of the Gettysburg vulture. M.S. thesis, VPI, Blacksburg, Va. 111 pp.

Index Terms: TX/Aves/Raptor/Turkey Vulture/Cathartes aura/Black Vulture/Coragyps stratus/LV/Home Range/Habitat Use/NAHBT/NAPTC/NASSN/
Record #1860

Coleman, J. S., and J. D. Frazer. 1985. Home range, habitat use, behavior, and morphology of the Gettysburg vultures. Dept. Fisheries and Wildlife Sciences, VPI Blacksburg, Va. Final Rep. 107 pp.

Index Terms: TX/Aves/Raptor/Black Vulture/Coragyps stratus/Turkey Vulture/Cathartes aura/LV/Habitat Use/Home Range/NAHBT/NAPTC/NASSN/
Record #1870

Collier, E. Sept. 1957. Revolutionary new trap. Outdoor Life : 38-41.

Index Terms: PTC/Trapping/NATX/NAHBT/NALV/NASSN/
Record #1880

Collier, E. Oct. 1957. Revolutionary new trap. Outdoor Life : 70-73.

Index Terms: PTC/Trapping/NATX/NAHBT/NALV/NASSN/
Record #1890

Collister, A. E. 1965. Banding in Rocky Mountain National Park. Western Bird Bander 38:56.

Index Terms: TX/Aves/PTC/Banding/Marking/NAHBT/NALV/NASSN/
Record #1900

Colquhoun, M. K. 1940. Visual and auditory conspicuousness in a woodland bird community: A quantitative analysis.

Proceedings, Zoological Soc. London 110:129-148.
Index Terms: TX/Aves/LV/Community/HBT/Forest/PTC/Communication/NASSN/
Record #1910

Conner, M. C., R. F. Labisky, and D. R. Progulske. 1983. Scent-station indices as measures of population abundance for Bobcats, Raccoons, Gray Foxes, and Opossums. Wildl. Soc. Bull. 11:146-152.

Index Terms: TX/Mammalia/Carnivora/Didelphimorphia/Bobcat/Felis rufus/Raccoon/Procyon lotor/Gray Fox/Urocyon cinereoargenteus/Virginia Opossum/Didelphis virginiana/SSN/Summer/Winter/Fall/Spring/HBT/Mixed Forest/Coniferous Forest/Deciduous Forest/Wetlands/LV/Abundance/Population/PTC/Scent Station/Transect/
Record #1920

Conner, R. N., J. G. Dickson, and J. H. Williamson. 1983. A comparison of breeding bird census techniques with mist netting results. *Wilson Bull.* 95:276-280.

Index Terms: TX/Aves/Passerine/Northern Cardinal/Cardinalis cardinalis/Indigo Bunting/Passerina cyanea/Carolina Wren/Thryothorus ludovicianus/White-eyed Vireo/Vireo griseus/Yellow-breasted Chat/Icteria virens/SSN/Breeding/Spring/Summer/LV/Population/Abundance/HBT/Mixed Forest/PTC/Strip Transect/Spot-mapping/Netting/Mist-net/
Record #1930

Conner, R. N., and J. G. Dickson. 1980. Strip transect sampling and analysis for avian habitat studies. *Wildl. Soc. Bull.* 8:4-10.

Index Terms: TX/Aves/LV/Abundance/Community/Habitat Use/SSN/Breeding/Summer/Spring/Fall/Winter/PTC/Strip Transect/NAHBT
Record #1940

Consolo, S. L. 1990. Distribution of Beaver in Yellowstone National Park 1988-1989. in Wolves for Yellowstone? A report to Congress. Yellowstone National Park. 2-219-2-235.

Index Terms: TX/Mammalia/Rodentia/Castoridae/Beaver/Castor canadensis/LV/Distribution/NAHBT/NAPTC/NASSN/
Record #1950

Constantine, D. G. 1958. An automatic bat-collecting device. *J. Wildl. Manage.* 22:17-22.

Index Terms: TX/Mammalia/Chiroptera/LV/Presence/Abundance/Density/HBT/Cave/PTC/Trapping/Bat-trap/Netting/NASSN
Record #1960

Cooley, M. E. 1948. Improved toe-tag for marking Fox Squirrels. *J. Wildl. Manage.* 12:213.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Fox Squirrel/Sciurus niger/PTC/Marking/NAHBT/NALV/NASSN/
Record #1970

Cooperrider, A. Y., R. J. Boyd, and H. R. Stuart, eds. 1986. Inventory and Monitoring of Wildlife Habitat. , Denver, CO. xviii. 858pp.

Index Terms: TX/Amphibia/Reptilia/Aves/Mammalia/SSN/Spring/Summer/Fall/Winter/Breeding/HBT/Grassland/Forest/Riparian/Wetlands/Scrub/Shrub/LV/Presence/Relative Abundance/Density/Habitat Use/Population/Community/PTC/Transect/Recording/Marking/Banding/Aerial Census/Road Census/Spot-mapping/Variable Circular-plot/Netting/Communication/Tracking/Scent Station/Trapping/Drift Fence/Point Count/Nightlighting/Photography/
Record #1980

Cormack, R. M. 1981. Log-linear models for capture-recapture experiments on animal populations. M.S. thesis, Univ. of Otago. Dunedin, New Zealand.
Index Terms: PTC/Trapping/Capture-recapture/NATX/NAHBT/NALV/NASSN/
Record #1990

Cornes, J. P. 1991. Sampling waterfowl in an east Texas bottomland hardwood forest: A comparison of methods. M.S. thesis, Stephen F. Austin State Univ. 134 pp.
Index Terms: TX/Aves/Waterfowl/HBT/Deciduous Forest/Wetland/NALV/NASSN/NAPTC
Record #2000

Cottrell, S. D., and H. H. Prince. 1990. Comparison of the Wood Duck survey techniques on the Holston River in east Tennessee. Pages 219-224 in 1988 North American Wood Duck symposium.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/HBT/Riparian/Wetlands/NALV/NASSN/NAPTC
Record #2010

Craig, T. H. 1978. A car survey of raptors in southeastern Idaho. Raptor Res. 12:40-45.
Index Terms: TX/Aves/Raptor/PTC/Road Census/NAHBT/NALV/NASSN/
Record #2020

Cudmore, W. W. 1983. The distribution and ecology of the Eastern Woodrat, Neotoma floridana, in Indiana. Ph.D. dissertation, Indiana State Univ. 148 pp.
Index Terms: TX/Mammalia/Rodentia/Muridae/Eastern Woodrat/Neotoma floridana/LV/Distribution/NAHBT/NAPTC/NASSN/
Record #2030

Curtis, P. D. 1981. Migratory bird investigation: Evaluation of daily counts of Band-tailed Pigeons as a census method. Colo. Div. of Wildlife. Colo. W-088-R-25. 114 pp.
Index Terms: TX/Aves/Upland Groundbird/Band-tailed Pigeon/Columba fasciata/PTC/Capture-recapture/Communication/Coo Counts/SSN/Spring/Fall/NAHBT/NALV/
Record #2040

Curtis, P. D., and C. E. Braun. 1980. Evaluation of daily counts of Band-tailed Pigeons as a census method. J. Colo.-Wyo. Acad. Sci. 12:36-37.
Index Terms: TX/Aves/Upland Groundbird/Band-tailed Pigeon/Columba fasciata/NASSN/NALV/NAHBT/NAPTC
Record #2050

Cushwa, C. T., and K. P. Burnham. 1974. An inexpensive live-trap for Snowshoe Hares. J. Wildl. Manage. 38:939-941.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/SSN/Fall/Winter/LV/Density/HBT/Coniferous Forest/PTC/Trapping/Live-trap/Capture-recapture/
Record #2060

Cybulin, S. M. 1977. Geographic variation of birds' population density in the forest landscapes. Zool. Zh. 56:588-595.
Index Terms: TX/Aves/LV/Density/HBT/Forest/NASSN/NAPTC
Record #2070

Cypher, E. A., R. H. Yahner, G. L. Storm, and B. L. Cypher. 1986. Flora and fauna survey in a proposed recreation area of Valley Forge National Historical Park. Proc. Pennsylvania Academy of Sci. 60:47-50.
Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC
Record #2080

Dalrymple, G. H. 1988. The herpetofauna of Long Pine Key, Everglades National Park, in relation to vegetation and hydrology. Pages 72-86 in Szaro, R. C., K.E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Amphibia/Caudata/Salientia/Reptilia/Testudines/Serpentes/Lacertilia/HBT/Coniferous Forest/Wetlands/Grassland/Deciduous Forest/LV/Abundance/PTC/Trapping/Funnel-trap/Drift Fence/Transect/Road Census/Log-turning/NASSN/
Record #2090

Daly, M., and P. Behrends. 1984. Effect of moving traps between trapping stations upon rodent retrapping data. Am. Midl. Nat. 112:205-207.
Index Terms: TX/Mammalia/Rodentia/Muridae/SSN/Winter/Spring/HBT/Desert/Scrub/Shrub/LV/Relative Abundance/PTC/Trapping/Live-trap/
Record #2100

Dargan, L. M., and W. H. Stickel. 1949. An experiment with snake trapping. Copeia 1949:264-268.
Index Terms: TX/Reptilia/Serpentes/HBT/Mixed Forest/SSN/Spring/Summer/Fall/LV/Presence/Abundance/PTC/Trapping/Funnel-trap/Drift Fence/
Record #2110

Davis, C. A., J. A. Medlin, and J. P. Griffing. 1975. Abundance of Black-tailed Jackrabbits, Desert Cottontail Rabbits, and Coyotes in southeastern New Mexico. New Mexico State Univ. Agric. Exp. Sta. Res. Rep. 293.

Index Terms: TX/Mammalia/Carnivora/Lagomorpha/Coyote/Canis latrans/Black-tailed Jackrabbit/Lepus californicus/Desert Cottontail/Sylvilagus audubonii/LV/Abundance/NAHBT/NAPTC/NASSN/Record #2120

Davis, D. E. 1956. Manual for analysis of rodent populations. Edward Brothers, Ann Arbor, MI. 82pp.

Index Terms: TX/Mammalia/Rodentia/LV/Population/NAHBT/NAPTC/NASSN/Record #2130

Davis, D. E., and R. L. Winstead. 1980. Estimating the numbers of wildlife populations. Pages 221-245 in Schemnitz, S. C., ed. Wildlife Management Techniques Manual. Wildlife Soc., Washington, D.C.

Index Terms: LV/Population/NATX/NAHBT/NASSN/NAPTC
Record #2140

Dawson, D. G. 1981. Counting birds for a relative measure (index) of density. Pages 12-16 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/LV/Density/SSN/Breeding/Spring/Summer/HBT/Forest/PTC/Point Count
Record #2150

Dawson, D. K. 1981. Sampling in rugged terrain. Pages 311-315 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/HBT/Cliff/Mountain/PTC/Variable circular-plot/Spot-mapping/Strip Transect/Point Count/NALV/NASSN/Record #2160

Dawson, D. G. 1981. The usefulness of absolute ("census") and relative ("sampling" or "index") measures of abundance. Pages 554-558 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/Blackbird/Turdus merula/Goldfinch/Carduelis carduelis/Myna/Acridotheres tristis/Skylark/Alauda arvensis/LV/Density/Relative Abundance/PTC/Point Count/Finnish Line Transect/Spot-mapping/NASSN/NAHBT/Record #2170

Dawson, J. W., and R. W. Mannan. 1989. A comparison of two methods of estimating breeding group size in Harris' Hawks. Auk 106:480-483.

Index Terms: TX/Aves/Raptor/Harris' Hawk/Parabuteo unicinctus/SSN/Breeding/Spring/Summer/LV/Population/NAHBT/NAPTC
Record #2180

Day, G. I., S. D. Schemnitz, and R. D. Taber. 1980. Capturing and marking wild animals. In Schemnitz, S. D., ed. Wildlife management techniques manual. Wildlife Soc., Washington, D.C. 686pp.

Index Terms: TX/Mammalia/PTC/Trapping/Netting/Marking/NAHBT/NALV/NASSN/
Record #2190

Dean, F. C., and D. L. Chsemore. 1974. Studies of birds and mammals in the Baird and Schatka Mountains, Alaska. Biol. Paper. Univ. of Alaska, Fairbanks. 80 pp.

Index Terms: TX/Aves/Mammalia/HBT/Mountain/NAPTC/NALV/NASSN/
Record #2200

Debout, G. 1987. What may we learn with car-census about tree-nesting raptors? Studies about common buzzard and kestrel. Cormorant 6:110-117.

Index Terms: TX/Aves/Raptor/SSN/Breeding/Spring/Summer/PTC/Road Census/NALV/NAHBT
Record #2210

DeGraaf, R. M., and M. Yamasaki. 1992. A nondestructive technique to monitor the relative abundance of terrestrial salamanders. Wildl. Soc. Bull. 20:260-264.

Index Terms: TX/Amphibia/Caudata/Red-backed Salamander/Plethodon cinereus/Northern Dusky Salamander/Desmognathus fuscus/LV/Relative Abundance/SSN/Summer/HBT/Deciduous Forest/PTC/Transect/Coverboard
Record #2220

DeJong, M. J., and J. T. Emlen. 1985. The shape of the auditory detection function and its implications for songbird censusing. J. Field Ornithol. 56:213-223.

Index Terms: TX/Aves/Passerine/PTC/Communication/NASSN/NALV/NAHBT
Record #2230

DeMaso, S. J., F. S. Guthery, G. S. Spears, and S. M. Rice. 1992. Morning covey calls as an index of Northern Bobwhite density. Wildl. Soc. Bull. 20:94-101.

Index Terms: TX/Aves/Upland Groundbird/Northern Bobwhite/Colinus virginianus/LV/Density/HBT/Grassland/SSN/Fall/PTC/Transect/Communication/
Record #2240

Denyes, H. A. 1956. Natural terrestrial communities of Brewster county, Texas, with special reference to the distribution of the mammals. Am. Midl. Nat. 55:289-320.

Index Terms: TX/Mammalia/LV/Community/Distribution/SSN/Spring/Summer/Fall/PTC/Transect/Trapping/NAHBT
Record #2250

DeSante, D. F. 1981. A field test of the variable circular-plot censusing technique in a California coastal scrub breeding bird community. Pages 177-185 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/LV/Community/Density/HBT/Scrub/Shrub/SSN/Breeding/Spring/Summer/PTC/Variable Circular-plot/Spot-mapping/
Record #2260

DeSante, D. F. 1981. A field test of the variable circular-plot censusing technique in a Sierran subalpine forest breeding bird community. Abstract of a paper presented at the Fourth joint meeting of Wilson and Cooper Ornithological Societies, June 4-9, University of Colorado, Boulder. 11 pp.

Index Terms: TX/Aves/LV/Community/HBT/Coniferous Forest/SSN/Breeding/Spring/Summer/PTC/Variable Circular-plot/
Record #2270

DeSante, D. F. 1987. A field test of the variable circular-plot censusing method in a Sierran subalpine forest habitat. Condor 88:129-142.

Index Terms: TX/Aves/HBT/Coniferous Forest/PTC/Variable Circular-plot/NASSN/NALV
Record #2280

Dessecher, D. R., and R. H. Yahner. 1984. Breeding bird censuses. Am. Birds 38:71-72.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/NAHBT/NALV/NAPTC
Record #2290

DeYoung, C. A., and J. C. Priebe. 1987. Comparison of inventory methods for Wild Turkeys in south Texas. Proc. Annu. Conf. Southeast. Assoc. Fish Wildl. Agencies 41:294-298.

Index Terms: TX/Aves/Upland Groundbird/Wild Turkey/Meleagris gallopavo/NASSN/NALV/NAHBT/NAPTC
Record #2300

Dice, L. R. 1938. Some census methods for mammals. J. Wildl. Manage. 2:119.

Index Terms: TX/Mammalia/NAHBT/NALV/NASSN/NAPTC
Record #2310

- Dickman, C. R. 1986. A method for censusing small mammals in urban habitats. J. Zool. 210:631-636.
Index Terms: TX/Mammalia/Rodentia/Insectivora/NALV/NASSN/NAHBT/NAPTC
Record #2320
- Dickson, J. G. 1978. Comparison of breeding bird census techniques. Am. Birds 32:10-13.
Index Terms: TX/Aves/Passerine/SSN/Breeding/Summer/Spring/HBT/Deciduous Forest/LV/Density/Population/PTC/Spot-mapping/Strip Transect
Record #2330
- Dickson, J. G., R. N. Conner, and J. H. Williamson. 1982. An evaluation of techniques for marking cardinals. J. Field Ornithol. 53:420-421.
Index Terms: TX/Aves/Passerine/Northern Cardinal/Cardinalis cardinalis/SSN/Spring/Summer/PTC/Marking/NAHBT/NALV/
Record #2340
- Diefenbach, D. R. 1992. The reintroduction of Bobcats to Cumberland Island, Georgia: Validation of the scent-station survey technique and analysis of population viability. Ph.D. dissertation, Univ. Georgia. 178 pp.
Index Terms: TX/Mammalia/Carnivora/Bobcat/Felis rufus/PTC/Scent Station/NALV/NAHBT/NASSN
Record #2350
- Diehl, B. 1974. Results of a breeding bird community census by the mapping method in a grassland ecosystem. Acta Ornithol. 14:326-376.
Index Terms: TX/Aves/LV/Community/SSN/Breeding/Summer/Spring/HBT/Grassland/PTC/Spot-mapping
Record #2360
- Diem, K. L., and K. H. Lu. 1960. Factors influencing waterfowl censuses in the parklands, Alberta, Canada. J. Wildl. Manage. 24:113-133.
Index Terms: TX/Aves/Waterfowl/HBT/Deciduous Forest/Wetlands/Agriculture/SSN/Summer/Breeding/PTC/Aerial Census/Road Census/NALV/
Record #2370
- Dimmick, R. W. 1962. Population study of Jackson Hole Canada geese. Rep. to the Wyoming Game and Fish Comm.
Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/LV/Population/NAHBT/NAPTC/NASSN/
Record #2380

Dodd, C. K. Jr. 1991. Drift fence-associated sampling bias of amphibians at a Florida sandhills temporary pond. J. Herpetol. 25:296-301.

Index Terms: TX/Amphibia/Salientia/Caudata/SSN/Summer/Spring/Fall/Winter/HBT/Wetlands/PTC/Trapping/Pitfall/Marking/Drift Fence/NALV/

Record #2390

Dodd, C. K. Jr., and B. G. Charest. 1988. The herpetofaunal community of temporary ponds in north Florida sandhills: Species composition, temporal use, and management implications. Pages 87-97 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.

Index Terms: TX/Amphibia/Caudata/Salientia/Reptilia/Serpentes/Lacertilia/Testudines/HBT/Wetland/LV/Community/PTC/Drift Fence/Trapping/Pitfall/Marking/NASSN/

Record #2400

Don, B. 1985. The use of drey counts to estimate Gray Squirrel populations. J. Zool. 206:282-286.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Gray Squirrel/Sciurus carolinensis/LV/Population/NASSN/NAHBT/NAPTC

Record #2410

Donazar, J. A., O. Ceballos, A. Travaini, and F. Hiraldo. 1993. Roadside raptor surveys in the Argentinean Patagonia. J. Raptor Res. 27:106-110.

Index Terms: TX/Aves/Raptor/PTC/Road Census/NASSN/NAHBT/NALV

Record #2420

Doody, J. S., and J. W. Tamplin. 1992. An efficient marking technique for Soft-shelled Turtles. Herpetol. Rev. 23:54-56.

Index Terms: TX/Reptilia/Testudines/Soft-shelled Turtle/Trionyx/HBT/Wetlands/PTC/Marking/NALV/NASSN/

Record #2430

Dorney, R. S., D. R. Thompson, J. B. Hale, and R. F. Wendt. 1958. An evaluation of Ruffed Grouse drumming counts. J. Wildl. Manage. 22:35-40.

Index Terms: TX/Aves/Upland Groundbird/Ruffed Grouse/Bonasa umbellus/HBT/Forest/SSN/Winter/Spring/LV/Population/PTC/Communication/Drumming/Flush count/Road census/

Record #2440

Douglas, C. L., and P. G. Sanchez. 1984. Wildlife census in the Southern Cottonwood Mountains, Death Valley. CPSU Univ. Nevada, Las Vegas. Contribution 006/30. 5 pp.

Index Terms: LV/Community/NAHBT/NATX/NAPTC/NASSN/

Record #2450

Down, D. D. 1990. Indexing population densities of the cardinal with tape-recorded calls. *Wilson Bull.* 86:83-91.

Index Terms: TX/Aves/Passerine/Northern Cardinal/Cardinalis cardinalis/LV/Density/PTC/Conspecific Recording/NAHBT/NASSN/
Record #2460

Dragavon, J. A. 1978. Distribution of small mammals in Mount Rainier National Park. M.S. thesis, Univ. Washington. 110 pp.

Index Terms: TX/Mammalia/LV/Distribution/NAHBT/NAPTC/NASSN/
Record #2470

Drennan, S. R. 1981. The Christmas Bird Count: An overlooked and underused sample. Pages 24-29 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. *Stud. Avian Biol.* 6.

Index Terms: TX/Aves/Owl/Raptor/Wader/Shorebird/Woodpecker/Waterfowl/Upland Groundbird/Passerine/SSN/Winter/LV/Presence/PTC/Christmas Bird Count/NAHBT/
Record #2480

Du Feu, C., and J. McKeeking. 1991. Does constant effort netting estimate juvenile abundance? *Ring. Migr.* 12:118-123.

Index Terms: TX/Aves/LV/Abundance/PTC/Netting/NAHBT/NASSN/
Record #2490

Dundee, H. A. 1950. An improved method for collecting living lizards and frogs. *Herpetologica* 6:78-79.

Index Terms: TX/Reptilia/Amphibia/Lacertilia/Salientia/LV/Presence/PTC/Trapping/Netting/NAHBT/NASSN
Record #2500

Dunk, J. R. 1991. A selective pole trap for raptors. *Wildl. Soc. Bull.* 19:208-210.

Index Terms: TX/Aves/Raptor/Black-shouldered Kite/Elanus caeruleus/HBT/Agriculture/SSN/Winter/PTC/Trapping/NALV
Record #2510

Dunks, J. H., R. E. Tomlinson, H. M. Deeves, D. D. Dolton, C. E. Braun, and T. P. Zaparka. Migration, harvest, and population dynamics of Mourning Doves banded in the Central Management Unit, 1967-77. U.S. Dept. Inter., Fish and Wild. Serv. Spec. Sci. Rep.--Wildl. 249. 128 pp.

Index Terms: TX/Aves/Upland Groundbird/Mourning Dove/Zenaida macroura/LV/Population/SSN/Spring/Fall/PTC/Banding/NAHBT/
Record #2520

Dwyer, M. 1990. Vertebrate pest control: Animal trapping basics. *Pest. Manage.* 9:10-13.

Index Terms: PTC/Trapping/NATX/NAHBT/NALV/NASSN/
Record #2530

Dzubin, A. 1969. Assessing breeding populations of ducks by ground counts. Pages 178-230 in Saskatoon Wetland Seminar. Can. Wildl. Serv. Rep. Series 6.
Index Terms: TX/Aves/Waterfowl/LV/Population/Breeding Success/SSN/Breeding/Spring/Summer/PTC/Ground Count/NAHBT/
Record #2540

Eagles, P. F. J., and T. N. Tobias. 1978. A replication of a breeding bird census. Am. Birds 32:14-17.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/NALV/NAHBT/NAPTC
Record #2550

Eakin, R. M. 1957. Use of copper wire in noosing lizards. Copeia 1957:148.
Index Terms: TX/Reptilia/Lacertilia/PTC/Netting/NAHBT/NALV/NASSN/
Record #2560

Eberhardt, L. L. 1969. Population estimates from recapture frequencies. J. Wildl. Manage. 33:28-39.
Index Terms: TX/Mammalia/Lagomorpha/Eastern Cottontail/Sylvilagus floridanus/Rodentia/Sciuridae/Fox Squirrel/Sciurus niger/Eastern Gray Squirrel/Sciurus carolinensis/Muridae/Amphibia/Salientia/LV/Density/Population/PTC/Trapping/Live-trap/Marking/Capture-recapture/NAHBT/NASSN/
Record #2570

Eberhardt, L. L. 1978. Transect methods for population studies. J. Wildl. Manage. 42:1-31.
Index Terms: LV/Population/PTC/Fixed-width Transect/Variable-width Transect/Strip Transect/Comparison/NATX/NAHBT/NASSN/
Record #2580

Edwards, D. K., G. L. Dorsey, and J. A. Crawford. 1981. A comparison of three avian census methods. Pages 170-176 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Passerine/LV/Density/SSN/Breeding/Summer/HBT/Wetlands/Deciduous Forest/Shrub/Scrub/PTC/Sample plot/Line Transect/Variable Circular-plot/Fixed-width Circular-plot/Point Count/
Record #2590

Edwards, W. R. 1975. Rabbit Trap. Illinois Nat. Hist. Survey, Urbana, IL. 1pp.
Index Terms: TX/Mammalia/Lagomorpha/PTC/Trapping/NAHBT/NALV/NASSN/
Record #2600

Eggeman, D. R., and F. A. Johnson. 1989. Variation in effort and methodology for the midwinter waterfowl inventory in the Atlantic flyway. Wildl. Soc. Bull. 17:227-233.
Index Terms: TX/Aves/Waterfowl/SSN/Winter/LV/Population/PTC/Road Census/Boat Census/Aerial Census/NAHBT
Record #2610

Ellenberg, H., H. Hudeczek, and H. Lade. 1989. How reproducible is the method of singing male registration in woodland bird communities? Vogelwelt 110:166-171.
Index Terms: TX/Aves/LV/Community/HBT/Forest/PTC/Communication/NASSN
Record #2620

Ellison, L. N., and R. A. Weeden. 1966. Alaska Wildlife Investigations. Small Game and Furbearer Investigations: Upland Game Bird Investigations. Alas. Dept. of Fish and Game. W-0130R-01.
Index Terms: TX/Aves/Upland Groundbird/NAHBT/NAPTC/NALV/NASSN/
Record #2630

Emlen, J. T. 1977. Estimating breeding season bird densities from transect counts. Auk 94:455-468.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/LV/Density/PTC/Transect/Spot-mapping/NAHBT
Record #2640

Emlen, J. T. 1984. An observer-specific, full-season, strip-map method for censusing songbird communities. Auk 101:730-740.
Index Terms: TX/Aves/Passerine/LV/Community/PTC/Spot-mapping/NASSN/NAHBT
Record #2650

Emlen, J. T. 1971. Population densities of birds derived from transect counts. Auk 88:323-342.
Index Terms: TX/Aves/Woodpecker/Passerine/Upland Groundbird/LV/Population/Density/HBT/Grassland/Coniferous Forest/Mixed Forest/Deciduous Forest/SSN/Winter/Summer/PTC/Transect/
Record #2660

Emlen, J. T., and M. J. DeJong. 1981. The application of song detection threshold distance to census operations. Pages 346-352 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Passerine/HBT/Deciduous Forest/PTC/Communication/NALV/NASSN/
Record #2670

Emlen, J. T., and M. J. DeJong. 1992. Counting birds: The problem of variable hearing abilities. J. Field Ornithol. 63: 26-31.

Index Terms: TX/Aves/PTC/Communication/NAHBT/NALV/NASSN/
Record #2680

Enemar, A. 1959. On the determination of the size and composition of a passerine bird population during the breeding season. Var Fagelvard, Supplement 2:1-114.

Index Terms: TX/Aves/Passerine/LV/Population/Community/SSN/
Breeding/Spring/Summer/NAHBT/NAPTC/
Record #2690

Enemar, A., S. Hojman, P. Klaesson, and L. Nilsson. 1976. The relationship between census results and the breeding populations of birds in subalpine birch forests. Ornis. Fenn. 53:1-8.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/HBT/Deciduous
Forest/Mixed Forest/NALV/NAPTC
Record #2700

Enemar, A., B. Sjostrand, and S. Svensson. 1978. The effect of observer variability on bird census results obtained by a territory mapping technique. Ornis Scand. 9:31-39.

Index Terms: TX/Aves/PTC/Spot-mapping/NASSN/NALV/NAHBT
Record #2710

Engstrom, R. T., and F. C. James. 1984. An evaluation of methods used in the breeding bird census. Am. Birds 38:19-23.

Index Terms: TX/Aves/Waterfowl/Raptor/Owl/Woodpecker/
Passerine/HBT/Coniferous Forest/LV/Density/Community/SSN/
Winter/NAPTC
Record #2720

Engstrom, R. T., and F. C. James. 1981. Plot size as a factor in winter bird-population studies. Condor 83:34-41.

Index Terms: TX/Aves/Owl/Raptor/Waterfowl/Woodpecker/
Passerine/LV/Density/Population/HBT/Coniferous Forest/SSN/
Winter/PTC/Grid/Transect/Winter Bird Population Study
Record #2730

Erickson, G. E. 1974. Habitat preferences of Wood Ducks (Aix sponsa) in Northern Idaho. Evaluation of trapping techniques for Wood Ducks in Northern Idaho. M.S. thesis, Univ. Idaho. 32 pp.

Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/Habitat
use/PTC/Trapping/NAHBT/NASSN/
Record #2740

- Errington, P. L. 1944. Additional studies on tagged young Muskrats. J. Wildl. Manage. 8:300-306.
Index Terms: TX/Mammalia/Rodentia/Muridae/Muskrat/Ondatra zibethicus/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #2750
- Errington, P. L., and C. S. Errington. 1937. Experiment tagging of young Muskrats for purposes of study. J. Wildl. Manage. 24: 231-260.
Index Terms: TX/Mammalia/Rodentia/Muridae/Muskrat/Ondatra zibethicus/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #2760
- Erskine, A. J. 1971. A preliminary catalogue of bird census plot studies in Canada. Can. Wildl. Serv. Progr. Notes 20:1-78.
Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #2770
- Erskine, A. J. 1972. A preliminary catalogue of bird census plot studies in Canada. Part 2, Can. Wildl. Serv. Progr. Notes 30:1-42.
Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #2780
- Erskine, A. J. 1976. A preliminary catalogue of bird census plot studies in Canada. Part 3, Can. Wildl. Serv. Progr. Notes 59:1-24.
Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #2790
- Erskine, A. J. 1974. Problems associated with bird populations not adequately sampled by the mapping method. Acta Ornithol. 14:340-346.
Index Terms: TX/Aves/PTC/Spot-mapping/NASSN/NALV/NAHBT
Record #2800
- Erwin, R. M. 1981. Censusing wading bird colonies: An update on "flight-line" count method. Colonial Waterbirds 4:91-95.
Index Terms: TX/Aves/Wader/PTC/Flight-line Count/NAHBT/NALV/NASSN/
Record #2810
- Erwin, R. M. 1982. Observer variability in estimating numbers: An experiment. J. Field Ornithol. 53:159-167.
Index Terms: TX/Aves/Waterfowl/Canvasback/Aythya valisineria/LV/Abundance/PTC/Photography/NAHBT/NASSN/
Record #2820

F.F. Slaney and Co. 1972. Song bird study, environmental investigations, proposed high Ross Reservoir in Canada. Report for Seattle City Light. 12 pp.

Index Terms: TX/Aves/Passerine/NAHBT/NAPTC/NALV/NASSN/
Record #2830

Faanes, C. A., and D. Bystrak. 1981. The role of observer bias in the North American Breeding Bird Survey. Pages 353-359 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Woodpecker/Passerine/SSN/Breeding/Spring/Summer/LV/Presence/PTC/Breeding Bird Survey/NAHBT/
Record #2840

Fagerstone, K. A., and D. E. Biggins. 1986. Comparison of capture-recapture and visual count indices of prairie dog densities in Black-footed Ferret habitat. Great Basin Naturalist Memoirs 8:94-98.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Prairie Dog/Cynomys/HBT/Grassland/PTC/Capture-recapture/NALV/NASSN/
Record #2850

Fagerstone, K. A., D. E. Biggins, and T. M. Campbell III. 1985. Marking and tagging of Black-footed Ferrets (Mustela nigripes). Pages 10.1-10.10 in Anderson, S. H., and D. B. Inkley, eds. Proc. Black-footed Ferret Workshop, Sept. 18-19, Univ. Wyoming, Laramie.

Index Terms: TX/Mammalia/Carnivora/Black-footed Ferret/Mustela nigripes/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #2860

Falls, J. B. 1981. Mapping territories with playback: An accurate census method for songbirds. Pages 86-91 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/Ovenbird/Seiurus motacilla/White-throated Sparrow/Zonotrichia albicollis/Savannah Sparrow/Passerculus sandwichensis/SSN/Breeding/Spring/Summer/LV/Territory/PTC/Conspecific Recording/Spot-mapping/NAHBT/
Record #2870

Farr, D. R., and P. T. Gregory. 1991. Sources of variation in estimating litter characteristics of the garter snake, Thamnophis elegans. J. Herpetol. 25:261-268.

Index Terms: TX/Reptilia/Serpentes/Garter Snake/Thamnophis elegans/LV/Breeding Success/Population/SSN/Spring/Summer/Breeding/NAHBT/NAPTC/
Record #2880

- Fasola, M., C. Prigioni, F. Barbieri, and A. Meriggi. 1985.
Census of Corvidae by winter counts of nests. Page 141 in
Taylor, K., R. J. Fuller, and P. C. Lack, eds. Bird Census and
Atlas Studies.
Index Terms: TX/Aves/Passerine/Crow/Corvus/SSN/Winter/PTC/Nest
Count/NALV/NAHBT
Record #2890
- Ferner, F. W. 1979. A review of marking techniques for reptiles
and amphibians. Society for the study of amphibians and
reptiles. Dept. of Zool., Miami Univ, Oxford, Ohio.
Herpetological Circular 9.
Index Terms: TX/Reptilia/Amphibia/PTC/Marking/NAHBT/NALV/
NASSN/
Record #2900
- Ferns, P. N., and G. P. Mudge. 1981. Accuracy of nest counts at
a mixed colony of Herring and Lesser Black-backed Gulls. Bird
Study 28:244-246.
Index Terms: TX/Aves/Shorebird/Herring Gull/Larus argentatus/
Lesser Black-backed Gull/Larus fuscus/LV/Nesting Success/SSN/
Breeding/Spring/Summer/PTC/Nest Count/NAHBT/
Record #2910
- Ferrand, Y., and F. Grossman. 1990. An efficient method of
catching woodcocks. Trans. Congr. Int. Union Game Biol. 19:
359.
Index Terms: TX/Aves/Upland Groundbird/American Woodcock/
Scolopax minor/PTC/Netting/Trapping/NAHBT/NALV/NASSN/
Record #2920
- Ferry, C., B. Frochot, and Y. Leruth. 1981. Territory and home
range of the Blackcap (Sylvia atricapilla) and some other
passerines, assessed and compared by mapping and capture-
recapture. Pages 119-120 in Ralph, C. J., and J. M. Scott,
eds. Estimating numbers of terrestrial birds. Stud. Avian
Biol. 6.
Index Terms: TX/Aves/Passerine/Blackcap/Sylvia atricapilla/LV/
Territory/Home Range/PTC/Spot-mapping/Capture-recapture/NAHBT/
NASSN/
Record #2930
- Feuer, R. C. 1980. Underwater traps for aquatic turtles. Herp.
Review 11:107-108.
Index Terms: TX/Reptilia/Testudines/HBT/Wetlands/LV/Presence/
PTC/Trapping/Netting/NASSN/
Record #2940

- Fitch, H. S. 1987. Collecting and life-history techniques. in Seigel, R. A., J. T. Collins, and S. S. Novak, eds. Snakes: Ecology and evolutionary biology. MacMillan Publishing Company, New York. 529pp.
Index Terms: TX/Reptilia/Serpentes/PTC/Netting/Trapping/NAHBT/NALV/NASSN/
Record #2950
- Fitch, H. S. 1992. Methods of sampling snake populations and their relative success. Herpetol. Rev. 23:17-19.
Index Terms: TX/Reptilia/Serpentes/LV/Population/Distribution/Abundance/HBT/Shrub/Scrub/Deciduous Forest/Grassland/SSN/Spring/Summer/Fall/PTC/Trapping/Live-trap/Drift Fence/Timed Search/Artificial Shelter
Record #2960
- Fitch, H. S. 1951. A simplified type of funnel trap for reptiles. Herpetologica 7:77-80.
Index Terms: TX/Reptilia/Lacertilia/Serpentes/Amphibia/Salientia/HBT/Forest/LV/Density/SSN/Summer/PTC/Trapping/Funnel-trap/
Record #2970
- Fitzwater, W. D. Jr. 1943. Color marking of mammals, with special reference to squirrels. J. Wildl. Manage. 7:190-192.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/PTC/Marking/NAHBT/NALV/NASSN/
Record #2980
- Flinders, J. T., and R. M. Hansen. 1973. Abundance and dispersion of leporids within a shortgrass ecosystem. J. Mammal. 54:287-291.
Index Terms: TX/Mammalia/Lagomorpha/Black-tailed Jackrabbit/Lepus californicus/White-tailed Jackrabbit/Lepus townsendii/Desert Cottontail/Sylvilagus audubonii/LV/Abundance/Density/Distribution/HBT/Grassland/SSN/Winter/PTC/Road Census/Transect/Nightlighting
Record #2990
- Flyger, V. F. 1959. A comparison of methods for estimating squirrel populations. J. Wildl. Manage. 23:220.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Gray Squirrel/Sciurus carolinensis/HBT/Deciduous Forest/LV/Population/Density/SSN/Spring/Summer/Fall/Winter/PTC/Marking/Capture-recapture/Point Count/Circular-plot/
Record #3000

Forsman, D., and T. Solonen. 1984. Censusing breeding raptors in southern finland: Methods and results. Ann. Zool. Fenn. 21:317-320.

Index Terms: TX/Aves/Raptor/SSN/Breeding/Spring/Summer/NAHBT/NALV/NAPTC

Record #3010

Forsman, E. D. 1983. Methods and materials for locating and studying Spotted Owls. U.S. Dept. Agric., For Serv. Gen. Tech. Rep. PNW-162. 8 pp.

Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/NAHBT/NALV/NASSN/NAPTC

Record #3020

Foster, F. 1965. An early reference of the technique of owl calling. Auk 82:651-653.

Index Terms: TX/Aves/Owl/LV/Presence/PTC/Conspecific Recording/Communication/NAHBT/NASSN/

Record #3030

Francis, W. J. 1973. Accuracy of census methods of territorial Red-winged Blackbirds. J. Wildl. Manage. 37:98-102.

Index Terms: TX/Aves/Passerine/Red-winged Blackbird/Agelaius phoeniceus/SSN/Spring/Breeding/LV/Population/HBT/Scrub/Shrub/PTC/Road Census/Spot-mapping/

Record #3040

Frankenberg, L. 1982. Censusing sparrowhawks: Comparison of results from atlas work and a special census. Var Fagelvarld 41:405-406.

Index Terms: TX/Aves/Raptor/Sparrowhawk/Falco/SSN/Breeding/Spring/Summer/PTC/Breeding Bird Atlas/NALV/NAHBT

Record #3050

Frankhauser, D. 1964. Plastic adhesive tape for color-marking birds. J. Wildl. Manage. 28:594.

Index Terms: TX/Aves/PTC/Marking/NAHBT/NALV/NASSN/

Record #3060

Franklin, M. A. 1947. An inexpensive snare for water snakes. Copeia 1947:143.

Index Terms: TX/Reptilia/Serpentes/Water Snake/Natrix/LV/Presence/HBT/Wetlands/PTC/Netting/Snaring/Trapping/NASSN

Record #3070

Franzreb, K. E. 1978. Breeding bird densities, species composition, and bird species diversity of the Algodones Dunes. West. Birds 9:9.

Index Terms: TX/Aves/LV/Community/Density/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/

Record #3080

Franzreb, K. E. 1981. A comparative analysis of territorial mapping and variable-strip transect censusing methods. Pages 164-169 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Raptor/Owl/Woodpecker/Passerine/HBT/Coniferous Forest/LV/Density/SSN/Summer/Breeding/PTC/Spot-mapping/Transect/Variable-width Transect/
Record #3090

Franzreb, K. E. 1976. Comparison of variable strip transect and spot-map methods for censusing avian populations in a mixed coniferous forest. Condor 78:260-262.
Index Terms: TX/Aves/Raptor/Owl/Woodpecker/Passerine/SSN/Summer/LV/Density/Population/HBT/Mixed Forest/Coniferous Forest/PTC/Variable-width Transect/Spot-mapping/
Record #3100

Franzreb, K. E. 1981. The determination of avian densities using the variable-strip and fixed-width transect surveying methods. Pages 139-145 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/LV/Density/Community/PTC/Variable-width Transect/Fixed-width Transect/NAHBT/NASSN/
Record #3110

Franzreb, K. E. Inventory techniques for sampling avian populations. U.S. Dept. Inter., Bur Land Manage. Tech. Note 307. 17 pp.
Index Terms: TX/Aves/LV/Population/NAHBT/NASSN/NAPTC
Record #3120

Fraser, J. D. 1978. Bald Eagle reproductive surveys: Accuracy, precision, and timing. M.S. thesis, Univ. Minnesota, Minneapolis. 82 pp.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Breeding Success/Nesting Success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC
Record #3130

Fraser, J. D., L. D. Frenzel, J. E. Mathisen, F. Martin, and M. E. Shough. 1983. Scheduling Bald Eagle reproduction surveys. Wildl. Soc. Bull. 11:13-16.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Presence/Nesting Success/Breeding Success/SSN/Breeding/Spring/Summer/Fall/HBT/Mixed Forest/PTC/Aerial Census
Record #3140

- Fraser, J. D., F. Martin, L. D. Frenzel, and J. E. Mathisen.
1984. Accounting for measurement errors in Bald Eagle reproduction surveys. J. Wildl. Manage. 48:595-598.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Breeding Success/Nesting Success/SSN/Breeding/Summer/Spring/HBT/Forest/PTC/Aerial Census
Record #3150
- Frederick, R. B., T. L. Edwards, D. J. Painter, and J. Whitaker.
1989. Bobcat Densities and Population Dynamics in Kentucky. Final Report. Kentucky Dept. of Fish and Wildlife. W-045-19. 109 pp.
Index Terms: TX/Mammalia/Carnivora/Bobcat/Felis rufus/LV/Density/Population/NAHBT/NASSN/NAPTC
Record #3160
- Friend, G. R. 1984. Relative efficiency of two pitfall-drift fence systems for sampling vertebrates. Australian Zoologist 21:423-433.
Index Terms: PTC/Trapping/Pitfall/Drift Fence/NATX/NAHBT/NALV/NASSN/
Record #3170
- Fritts, T. H. Evaluation of tortoise abundance based on tortoise sign detected in field surveys. Ecology and conservation of North American Tortoises (genus Gopherus). II. Prepared for: U.S. Fish and Wildlife Service, Denver Wildlife Research Center, University of New Mexico, Albuquerque, NM.
Index Terms: TX/Reptilia/Testudines/LV/Abundance/PTC/Sign Index/NAHBT/NASSN/
Record #3180
- Frochot, B., D. Reudet, and Y. Leruth. 1978. A comparison of three different methods of census applied to the same population of forest birds. Polish Ecol. Studies 3:71-76.
Index Terms: TX/Aves/Passerine/HBT/Forest/LV/Population/NASSN/NAPTC
Record #3190
- Frolov, D. E., and A. E. Subbotin. 1991. Estimation of the spatial structure of Rhombomys opimus (Rodentia, Muridae) colonies using large scale aerial photographs. Zool. Zh. 70: 121-125.
Index Terms: TX/Mammalia/Rodentia/Muridae/Rhombomys opimus/LV/Population/Density/Distribution/PTC/Aerial Census/Photography/NAHBT/NASSN/
Record #3200

- Fry, J. W. 1931. A 25 year study of the bird life in Sequoia National Park, 1906-31. *Sequoia Bull.* 5:9-12.
Index Terms: TX/Aves/NAHBT/NAPTC/NALV/NASSN/
Record #3210
- Fuller, M. R., and J. A. Mosher. 1981. Methods of detecting and counting raptors: A review. Pages 235-246 in Ralph, C. J., and J. M. Scott, eds. *Estimating numbers of terrestrial birds.* Stud. Avian Biol. 6.
Index Terms: TX/Aves/Raptor/Owl/LV/Presence/Abundance/Density/PTC/Road Census/Communication/Nest Count/Aerial Census/Boat Census/Christmas Bird Count/NAHBT/NASSN/
Record #3220
- Fuller, M. R., and J. A. Mosher. 1981. Raptor survey techniques. In Millsap, B. A., and K. W. Kline, eds. *Raptor Management Techniques Manual.* Vol. 1. Natl. Wildl. Fed., Washington, D.C. 19pp.
Index Terms: TX/Aves/Raptor/NAHBT/NALV/NASSN/NAPTC
Record #3230
- Fuller, R. J., and D. R. Langslow. 1984. Estimating numbers of birds by point counts: How long should counts last. *Bird Study* 31:195-202.
Index Terms: TX/Aves/Passerine/LV/Population/Relative Abundance/SSN/Spring/Summer/Breeding/HBT/Forest/Grassland/Scrub/Shrub/PTC/Point Count
Record #3240
- Fuller, T. D. 1969. An ecological survey of mammals of the Craters of the Moon National Monument. Idaho State Univ., Pocatello. 108 pp.
Index Terms: TX/Mammalia/LV/Community/NAHBT/NASSN/NAPTC
Record #3250
- Galindo-Leal, C. 1990. Live-trapping vs. snap-trapping of Deer Mice: A comparison of methods. *Acta Theriol.* 35:357-363.
Index Terms: TX/Mammalia/Rodentia/Muridae/Deer Mouse/Peromyscus maniculatus/HBT/Coniferous Forest/SSN/Spring/Summer/Fall/LV/Abundance/Population/PTC/Trapping/Live-trap/Snap-trap/
Record #3260
- Gartshore, R. G., R. J. Brooks, F. F. Gilbert, and J. D. Somers. 1982. Census techniques to estimate blackbirds in weedy and nonweedy field corn. *J. Wildl. Manage.* 46:429-437.
Index Terms: TX/Aves/Passerine/Red-winged Blackbird/Agelaius phoeniceus/SSN/Summer/Fall/LV/Density/Habitat Use/HBT/Agriculture/PTC/Flush Count/
Record #3270

Gates, C. E. 1969. Simulation study of estimates for the line transect sampling method. Biometrics 25:317-328.
Index Terms: PTC/Line Transect/NATX/NAHBT/NALV/NASSN/
Record #3280

Gates, J. E. 1983. The Distribution and Status of the Hellbender (*Cryptobranchus alleganiensis*) in Maryland: I. The distribution and Status of Cryptobranchus alleganiensis in Maryland. II. Movement Patterns of Translocated Cryptobranchus alleganiensis in a Maryland Stream. Final Report. Maryland Wildlife Administration. 27 pp.
Index Terms: TX/Amphibia/Caudata/Hellbender/Cryptobranchus alleganiensis/HBT/Wetlands/LV/Distribution/SSN/Spring/Summer/PTC/Electroshock
Record #3290

Geier, A. R. 1978. Habitat selection by small mammals of riparian communities: Evaluating the effects of habitat alteration. Iowa Coop. Wildlife Research Unit. Iowa Cooperative Wildlife Research. 49 pp.
Index Terms: TX/Mammalia/Rodentia/Muridae/White-footed Mouse/Sciuridae/Thirteen-lined Ground Squirrel/Eastern Chipmunk/Short-tail Shrew/Masked Shrew/HBT/Riparian/PTC/Trapping/NALV/NASSN/
Record #3300

Gentry, J. B., M. H. Smith, and J. G. Chelton. 1971. An evaluation of the octagon census method for estimating small mammal populations. Acta Theriol. 16:149-159.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/NASSN/NAHBT/NAPTC
Record #3310

Germano, D. J., and D. F. Williams. 1993. Field evaluation of using passive integrated transponder (PIT) tags to permanently mark lizards. Herpetol. Rev. 24:54-56.
Index Terms: TX/Reptilia/Lacertilia/PTC/Marking/Passive Integrated Transponder Tags/PIT Tags/NASSN/NALV/NAHBT
Record #3320

Gerrard, J. M., G. R. Bortolotti, E. H. Dzus, P. H. Gerrard, and D. W. A. Whitfield. 1990. Boat census of Bald Eagles during the breeding season. Wilson Bull. 102:720-726.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/SSN/Breeding/Spring/Summer/HBT/Wetlands/Riparian/Mixed Forest/LV/Population/PTC/Boat Census
Record #3330

Getz, L. L. 1961. Response of small mammals to live-traps and weather conditions. Am. Midl. Nat. 66:160-169.
Index Terms: TX/Mammalia/Rodentia/Muridae/White-footed Mouse/Peromyscus leucopus/Meadow Vole/Microtus pennsylvanicus/Insectivora/Short-tailed Shrew/Blarina brevicauda/HBT/Wetlands/Scrub/Shrub/Deciduous Forest/SSN/Summer/Fall/Spring/Winter/LV/Density/PTC/Trapping/Live-trap/
Record #3340

Gibbons, J. W., and R. D. Semlitsch. 1982. Terrestrial drift fences with pitfall traps: An effective technique for quantitative sampling of animal populations. Brimleyana 7:1-16.
Index Terms: TX/Mammalia/Rodentia/Insectivora/Amphibia/Salientia/Caudata/Reptilia/Testudines/Serpentes/Lacertilia/LV/Abundance/Community/Population/PTC/Trapping/Pitfall/Drift Fence/NAHBT/NASSN/
Record #3350

Gibbs, J. P., and S. M. Melvin. 1993. Call response surveys for monitoring breeding waterbirds. J. Wildl. Manage. 57:27-34.
Index Terms: TX/Aves/Shorebird/Wader/SSN/Breeding/Spring/Summer/HBT/Wetlands/PTC/Communication/NALV
Record #3360

Gibbs, J. P., and D. G. Wenny. 1993. Song output as a population estimator: Effect of male pairing status. J. Field Ornithol. 64:316-322.
Index Terms: TX/Aves/Passerine/Ovenbird/Seiurus aurocapillus/Kentucky Warbler/Oporornis formosus/LV/Population/SSN/Breeding/Spring/Summer/PTC/Communication/NAHBT
Record #3370

Gibbs, J. P., S. Woodward, M. L. Hunter, and A. E. Hutchinson. 1988. Comparison of techniques for censusing Great Blue Heron nests. J. Field Ornithol. 59:130-134.
Index Terms: TX/Aves/Wader/Great Blue Heron/Ardea herodias/SSN/Breeding/Spring/Summer/NALV/NAHBT/NAPTC
Record #3380

Giles, R. H., ed. Wildlife Management Techniques. 3rd ed. The Wildl. Soc., Washington, D.C. 623pp.
Index Terms: NATX/NAHBT/NAPTC/NALV/NASSN/
Record #3390

- Gill, J. W. 1983. Scent Station Transects as a Means of Indexing Gray Fox and Red Fox Population Fluctuations. Tennessee Wildlife Resources Agency. TWRA Technical Report No. 83-8. 82 pp. M.S. Thesis.
Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/Gray Fox/Urocyon cinereoargenteus/LV/Population/PTC/Scent Station/Transect/NAHBT/NASSN/
Record #3400
- Gilmer, D. S., L. M. Cowardin, R. L. Duval, L. M. Mechlin, C. W. Shaiffer, and V. B. Kuechle. 1981. Procedures for the use of aircraft in wildlife biotelemetry studies. U.S. Dept. Inter., Fish and Wildl. Serv., Washington, DC. Resour. Publ. 140. 14 pp.
Index Terms: PTC/Aerial Census/NATX/NAHBT/NALV/NASSN/
Record #3410
- Glahn, J. F. 1974. Study of breeding rails with recorded calls in north-central Colorado. Wilson Bull. 86:206-214.
Index Terms: TX/Aves/Wader/Virginia Rail/Rallus limicola/Sora/Porzana carolina/SSN/Breeding/Spring/LV/Density/HBT/Wetlands/PTC/Conspecific Recording/Spot-mapping/
Record #3420
- Gloutney, M. L., R. G. Clark, A. D. Afton, and G. J. Huff. 1993. Timing of nest searches for upland nesting waterfowl. J. Wildl. Manage. 57:597-601.
Index Terms: TX/Aves/Waterfowl/SSN/Breeding/Spring/Summer/PTC/Nest Count/NALV/NAHBT
Record #3430
- Goin, C. J. 1942. A method of collecting vertebrates associated with water hyacinths. Copeia 1942:183-184.
Index Terms: TX/Amphibia/Reptilia/Serpentes/Testudines/HBT/Wetlands/PTC/Trapping/Netting/NALV/NASSN/
Record #3440
- Goodyear, N. C. 1989. Studying fine-scale habitat use in small mammals. J. Wildl. Manage. 53:941-946.
Index Terms: TX/Mammalia/Rodentia/Muridae/LV/Habitat Use/PTC/Tracking/NAHBT/NASSN/
Record #3450

- Gore, J. A. 1988. Habitat structure and the distribution of small mammals in a northern hardwoods forest. Pages 319-327 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Mammalia/Rodentia/Muridae/Sciuridae/Insectivora/HBT/Deciduous Forest/SSN/Summer/Fall/Breeding/PTC/Trapping/Live-trap/Pitfall/NALV/
Record #3460
- Graber, R. R., and F. W. Graber. A comparative study of bird populations in Illinois, 1906-1909 and 1956-1958. Illinois Nat. Hist. Surv. Bull. 28:377-528.
Index Terms: TX/Aves/LV/Population/NAHBT/NASSN/NAPTC
Record #3470
- Gracz, M., and C. Wilson. 1986. A study to determine the status of Fisher (Martes pennanti) in the Skokomish Drainage, Olympic Peninsula, Washington. Draft. Unpubl. Rep. Olympic National Park. 4 pp.
Index Terms: TX/Mammalia/Carnivora/Fisher/Martes pennanti/LV/Population/NAHBT/NAPTC/NASSN/
Record #3480
- Granholm, S. L. 1983. Bias in density estimates due to movement of birds. Condor 85:243-248.
Index Terms: TX/Aves/LV/Density/NASSN/NAHBT/NAPTC
Record #3490
- Grant, W. E., and E. C. Birney. 1979. Small mammal community structure in North American grasslands. J. Mammal. 60:23-36.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Density/Community/SSN/Spring/Summer/Fall/HBT/Grassland/PTC/Trapping/Live-trap/Snap-trap
Record #3500
- Green, R. E. 1985. Estimating the abundance of breeding snipe. Bird Study 32:141-149.
Index Terms: TX/Aves/Upland Groundbird/Common Snipe/Gallinago gallinago/LV/Abundance/SSN/Breeding/Spring/Summer/NAHBT/NAPTC
Record #3510
- Greenhall, A. M., and J. L. Paradiso. 1968. Bats and Bat Banding, publ. 72. , Washington, D.C.
Index Terms: TX/Mammalia/Chiroptera/PTC/Banding/Marking/NAHBT/NALV/NASSN/
Record #3520

- Grenon, A. G. 1986. Habitat use by Wild Turkeys reintroduced in southeastern Michigan. M.S. thesis, Univ. Michigan. 54 pp.
Index Terms: TX/Aves/Upland Groundbird/Wild Turkey/Meleagris gallopavo/LV/Habitat Use/NAHBT/NAPTC/NASSN/
Record #3530
- Grier, J. W. 1977. Quadrat sampling of a nesting population of Bald Eagles. J. Wildl. Manage. 41:438-443.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Population/Nesting Success/Density/SSN/Breeding/Summer/HBT/Coniferous Forest/Riparian/PTC/Quadrats/Aerial Census/
Record #3540
- Grier, J. W., J. M. Gerrard, G. D. Hamilton, and P. A. Gray. 1981. Aerial visibility bias and survey techniques for nesting Bald Eagles in northwestern Ontario. J. Wildl. Manage. 45:83-92.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Presence/HBT/Coniferous Forest/Mixed Forest/SSN/Spring/Summer/Breeding/PTC/Aerial Census/Quadrats/Comparison
Record #3550
- Grier, J. W., and G. D. Hamilton. 1978. Aerial census of Bald Eagles in the West Patricia Planning Area. West Patricia Land Use Plan. Wildl. Tech. Rep. 7. Ontario Min. Nat. Resour., Ottawa. 25 pp.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/PTC/Aerial Census/NAHBT/NALV/NASSN/
Record #3560
- Grodzinski, W., Z. Pucek, and L. Ryszkowski. 1966. Estimation of rodent numbers by means of prebaiting and intensive removal. Acta Theriol. 11:297.
Index Terms: TX/Mammalia/Rodentia/LV/Abundance/PTC/Trapping/Removal/NAHBT/NASSN/
Record #3570
- Gross, J. E., L. C. Stoddart, and F. H. Wagner. 1974. Demographic analysis of a northern Utah jackrabbit population. Wildl. Monogr. 68pp.
Index Terms: TX/Mammalia/Lagomorpha/Jackrabbit/Lepus/LV/Population/NAHBT/NAPTC/NASSN/
Record #3580
- Grubb, T. G. 1991. Modifications of the portable rocket nest capture system to improve performance. U.S. For. Serv. Res. Note Rm. No. 502. 5 pp.
Index Terms: PTC/Netting/NATX/NAHBT/NALV/NASSN/
Record #3590

Grubb, T. G. 1976. A survey and analysis of Bald Eagle nesting. M.S. thesis, Univ. Washington. 80 pp.

Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Nesting Success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC

Record #3600

Gullion, G. W. 1966. The use of drumming behavior in Ruffed Grouse population studies. J. Wildl. Manage. 30:717-729.

Index Terms: TX/Aves/Upland Groundbird/Ruffed Grouse/Bonasa umbellus/LV/Population/Density/SSN/Spring/HBT/Forest/PTC/Communication/Drumming/Scat Index/

Record #3610

Gunning, G. E., and W. M. Lewis. 1957. An electrical shocker for the collection of amphibians and reptiles in the aquatic environment. Copeia 1957:52.

Index Terms: TX/Reptilia/Amphibia/Salientia/Caudata/Serpentes/Testudines/HBT/Wetlands/PTC/Netting/Electroshock/NALV/NASSN/

Record #3620

Gutzwiller, K. J. 1991. Estimating winter species richness with unlimited distance point counts. Auk 108:853-862.

Index Terms: TX/Aves/Owl/Raptor/Woodpecker/Passerine/LV/Community/SSN/Winter/HBT/Coniferous Forest/Deciduous Forest/Grassland/PTC/Unlimited-distance Point Count/Variable Circular-plot

Record #3630

Hackett, D. F., and B. Trevor-Deutsch. 1982. Radiotelemetric assessment of grid-trapping techniques in a study of the Eastern Chipmunk (Tamias striatus L.). Biotelemetry Patient Monitoring 9:213-226.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Eastern Chipmunk/Tamias striatus/PTC/Trapping/Grid/Quadrat/NAHBT/NALV/NASSN/

Record #3640

Hair, J. D. 1980. Measurements of ecological diversity. in Schemnitz, S. D., ed. Wildlife Management Techniques Manual. The Wildlife Society, Washington, D.C. 269-275pp.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/

Record #3650

Haldin, M., and J. Ulfvens. 1987. On the efficiency of censusing waterbirds by boat. Ornis Fenn. 64:74-75.

Index Terms: TX/Aves/Shorebird/Wader/Waterfowl/PTC/Boat Census/NASSN/NALV/NAHBT

Record #3660

Hall, R. J. 1967. A simplified live-trap for reptiles. Trans. Kansas Acad. Sci. 70:402-404.
Index Terms: TX/Reptilia/PTC/Trapping/Live-trap/NAHBT/NALV/NASSN/
Record #3670

Hallet, J. G., M. A. O'Connell, G. D. Sanders, and J. Seidensticker. 1991. Comparison of population estimators for medium-sized mammals. J. Wildl. Manage. 55:81-93.
Index Terms: TX/Mammalia/Carnivora/Raccoon/Procyon lotor//Didelphimorphia/Virginia Opossum/Didelphis virginiana/LV/Population/SSN/Spring/Summer/Fall/Winter/HBT/Deciduous Forest/Shrub/Scrub/Grassland/Agriculture/PTC/Trapping/Marking/Live-trap
Record #3680

Halverson, C. H. 1984. Long-term monitoring of small vertebrates: A review with suggestions. In Research natural areas: baseline monitoring and management. Proceedings of a symposium, Missoula, Mont., March 21, 1984. USDA Forest Service, Intermountain Forest and Range Experiment Station, Ogden, Utah. 84 pp.
Index Terms: TX/Mammalia/Insectivora/Rodentia/NAHBT/NALV/NASSN/NAPTC
Record #3690

Hamerstrom, F. 1963. The use of Great Horned Owls in catching Marsh Hawks. Proc. 13th Int. Ornithological Congr., Museum of Zoology, Louisiana State University, Baton Rouge. 866 pp.
Index Terms: TX/Aves/Raptor/Marsh Hawk/Northern Harrier/Circus cyaneus/PTC/Trapping/Netting/NAHBT/NALV/NASSN/
Record #3700

Hammond, E. L. 1990. Mark-recapture estimates of population parameters for selected species of small mammals. M.S. thesis, Oregon State Univ. 128 pp.
Index Terms: TX/Mammalia/Insectivora/Rodentia/LV/Population/PTC/Marking/Capture-recapture/NAHBT/NASSN/
Record #3710

Hansson, L. 1975. Comparison between small mammal sampling with small and large removal quadrats. Oikos 26:398.
Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Quadrats/Trapping/Removal/NAHBT/NALV/NASSN/
Record #3720

- Hansson, L. 1969. Home ranges, population structure and density estimates at removal catches with edge effect. *Acta Theriol.* 14:153.
Index Terms: LV/Home Range/Population/Density/PTC/Trapping/Removal/NATX/NAHBT/NASSN/
Record #3730
- Hansson, L. 1974. Influence area of trap stations as a function of small mammals exposed per trap. *Acta Theriol.* 19:19-25.
Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Trapping/NAHBT/NALV/NASSN/
Record #3740
- Haramis, G. M., J. R. Goldsberry, D. G. McAuley, and E. L. Derleth. 1985. An aerial photographic census of Chesapeake Bay and North Carolina Canvasbacks. *J. Wildl. Manage.* 49:449-454.
Index Terms: TX/Aves/Waterfowl/Canvasback/Aythya valisineria/HBT/Wetlands/SSN/Winter/LV/Population/PTC/Aerial Census/Photography
Record #3750
- Harden, R. H., R. J. Muir, and D. R. Milledge. 1986. An evaluation of the strip transect method for censusing bird communities in forests. *Aust. Wildl. Res.* 13:203-211.
Index Terms: TX/Aves/LV/Community/HBT/Forest/PTC/Strip Transect/NASSN/
Record #3760
- Hardy, F. C. 1985. Adaptability of northern techniques for Ruffed Grouse census in Kentucky. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 1-6:518-526.
Index Terms: TX/Aves/Upland Groundbird/Ruffed Grouse/Bonasa umbellus/NASSN/NALV/NAHBT/NAPTC
Record #3770
- Harrison, J. 1990. The value of atlassing: Distributions and relative abundance. *Birding South Afr.* 42:109-110, 115-117.
Index Terms: TX/Aves/LV/Relative Abundance/Distribution/PTC/Breeding Bird Atlas/NAHBT/NASSN/
Record #3780
- Hatcher, R. T., and J. H. Shaw. 1981. A comparison of three indices to furbearer populations. *Wildl. Soc. Bull.* 9:153-159.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/Bobcat/Felis rufus/Gray Fox/Urocyon cinereoargenteus/Red Fox/Vulpes vulpes/LV/Presence/SSN/Summer/HBT/Agriculture/PTC/Scent Station/Mail Survey
Record #3790

Haug, E. A., and A. B. Didiuk. 1993. Use of recorded calls to detect Burrowing Owls. J. Field Ornithol. 64:188-194.
Index Terms: TX/Aves/Owl/Burrowing Owl/Athene cunicularia/LV/Presence/PTC/Conspecific Recording/NASSN/NAHBT
Record #3800

Hawken, J. L. 1951. Water system acts as reptile and amphibian trap. Herpetologica 7:81-83.
Index Terms: TX/Reptilia/Serpentes/Lacertilia/Amphibia/Salientia/LV/Presence/PTC/Trapping/NAHBT/NASSN/
Record #3810

Haygood, J. L. 1963. A sampling technique for cottontail rabbit populations. M.S. thesis, Louisiana State Univ. 57 pp.
Index Terms: TX/Mammalia/Lagomorpha/Eastern Cottontail/Sylvilagus floridanus/LV/Population/NASSN/NAHBT/NAPTC
Record #3820

Hayne, D. W. 1949. Calculation of size of home range. J. Mammal. 30:1-18.
Index Terms: TX/Mammalia/LV/Home Range/NAHBT/NAPTC/NASSN/
Record #3830

Hayne, D. W. 1976. Experimental designs and statistical analyses in small mammal population studies. In Populations of Small Mammals Under Natural Conditions. The Pymatuning Symposia in Ecology, University of Pittsburgh, May 14-16, 1976.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/NAHBT/NAPTC/NASSN/
Record #3840

Hayne, D. W. 1949. Two methods of estimating populations from trapping records. J. Mammal. 30:399-411.
Index Terms: TX/Mammalia/Rodentia/Muridae/Meadow Vole/Microtus pennsylvanicus/SSN/Summer/LV/Population/Density/PTC/Comparison/Marking/Trapping/Live-trap/Capture-recapture/NAHBT
Record #3850

Hayward, G. D., C. B. Kepler, and J. M. Scott. 1991. Point counts from clustered populations: Lessons from an experiment with Hawaiian Crows. Condor 93:676-682.
Index Terms: TX/Aves/Passerine/Hawaiian Crow/Corvus hawaiiensis/LV/Presence/HBT/Forest/SSN/Summer/PTC/Point Count/Transect
Record #3860

- Healy, W. M., and C. J. E. Welsh. 1992. Evaluating line transects to monitor Gray Squirrel populations. Wildl. Soc. Bull. 20:83-90.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Eastern Gray Squirrel/Sciurus carolinensis/LV/Abundance/Density/Population/SSN/Fall/HBT/Deciduous Forest/PTC/Line Transect/
Record #3870
- Heatwole, D. G., A. Maldonado, and J. Ojasti. 1964. A trapping method for capturing lizards. Herpetologica 20:212-213.
Index Terms: TX/Reptilia/Lacertilia/PTC/Trapping/Live-trap/Snap-trap/NAHBT/NALV/NASSN/
Record #3880
- Heatwole, H. 1961. Inhibition of digital regeneration in salamanders and its use in marking individuals for field studies. Ecology 42:593.
Index Terms: TX/Amphibia/Caudata/PTC/Marking/NAHBT/NALV/NASSN/
Record #3890
- Heckel, D. G., and J. Roughgarden. 1979. A technique for estimating the size of lizard populations. Ecology 60:966-975.
Index Terms: TX/Reptilia/Lacertilia/Anole/Anolis gingivinus/Anolis wattsi/LV/Population/Abundance/PTC/Marking/Capture-recapture/NAHBT/NASSN/
Record #3900
- Hein, D., and A. O. Haugen. 1966. Autumn roosting flight counts as an index to Wood Duck abundance. J. Wildl. Manage. 30:657-668.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/HBT/Wetlands/LV/Abundance/SSN/Fall/PTC/Roost Count/
Record #3910
- Hein, E. W. 1992. Evaluations of Coyote attractants and a density estimate on the Rocky Mountain Arsenal. M.S. thesis, Colorado State Univ. 52 pp.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/LV/Density/PTC/NAHBT/NASSN/
Record #3920
- Helle, P., and J. Lindstrom. 1991. Censusing tetranoids by the Finnish wildlife triangle method: Principles and some applications. Ornis Fenn. 68:148-157.
Index Terms: TX/Aves/Upland Groundbird/Capercaillie/Tetrao urogallus/Black Grouse/Tetrao tetrix/Hazel Grouse/Bonasa bonasia/Willow Ptarmigan/Lagopus lagopus/SSN/Breeding/Spring/Summer/Winter/HBT/Forest/LV/Density/PTC/Communication/Transect
Record #3930

- Henne, J. L., and E. P. Hill. 1990. Techniques for monitoring Wood Duck nest boxes. Pages 303-308 in 1988 North American Wood Duck symposium.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/Nesting success/NAHBT/NASSN/NAPTC
Record #3940
- Henry, C. J., D. R. Anderson, and R. S. Pospahala. 1972. Aerial surveys of waterfowl production in North America, 1955-1971. U.S. Dept. Inter., F. a. Wildl. Serv. Special Sci. Rep. - Wildl. 160. 48 pp.
Index Terms: TX/Aves/Waterfowl/PTC/Aerial Census/NAHBT/NALV/NASSN/
Record #3950
- Herrington, R. E. 1988. Talus use by amphibians and reptiles in the Pacific Northwest. Pages 217-221 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Amphibia/Salientia/Caudata/Reptilia/Lacertilia/Serpentes/LV/Relative Abundance/PTC/Log-turning/Timed Search/NAHBT/NASSN/
Record #3960
- Hestbeck, J. B., and R. A. Malecki. 1989. Mark-resight estimate of Canada Goose midwinter number. J. Wildl. Manage. 53:749-752.
Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/LV/Population/SSN/Fall/Winter/PTC/Road Census/Capture-recapture/Banding/NAHBT
Record #3970
- Hestbeck, J. B., D. H. Rusch, and R. A. Malecki. 1990. Estimating population parameters for geese from band-recovery and mark-recapture data. Trans. N. Amer. Wildl. Nat. Resource Conference. 55:350-373.
Index Terms: TX/Aves/Waterfowl/LV/Population/PTC/Banding/Marking/Capture-recapture/NAHBT/NASSN/
Record #3980
- Hester, A. E. 1963. A plastic wing tag for individual identification of passerine birds. Bird-Banding 34:213-217.
Index Terms: TX/Aves/Passerine/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #3990

- Heusmann, H. W. 1990. Evaluation of air/ground count comparisons for wintering American Black Ducks. Wildl. Soc. Bull. 18:377-381.
Index Terms: TX/Aves/Waterfowl/American Black Duck/Anus rubripes/Mallard/Anas platyrhynchos/SSN/Winter/HBT/Wetlands/LV/Density/Population/PTC/Aerial Census/Road Census/
Record #4000
- Hewitt, O. H. 1967. A road-count index to breeding populations of Red-winged Blackbirds. J. Wildl. Manage. 31:39-47.
Index Terms: TX/Aves/Passerine/Red-winged Blackbird/Agelaius phoeniceus/LV/Density/Population/SSN/Summer/Breeding/HBT/Agriculture/Wetlands/PTC/Road Census/Marking/
Record #4010
- Hewitt, O. H., and P. J. Austin-Smith. 1966. A simple wing tag for field-marking birds. J. Wildl. Manage. 30:625-627.
Index Terms: TX/Aves/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #4020
- Heydweiller, M. A. 1934. Tail plumes as a means of marking individual birds. Bird-Banding 5:45-47.
Index Terms: TX/Aves/PTC/Marking/NAHBT/NALV/NASSN/
Record #4030
- Hickman, G. L. 1972. Aerial determination of Golden Eagle nesting status. J. Wildl. Manage. 36:1289-1292.
Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/LV/Nesting Success/Density/HBT/Cliff/SSN/Breeding/Spring/Summer/PTC/Aerial Census/Nest Count/
Record #4040
- Higgins, K. F., L. M. Kirsch, and I. J. Ball Jr. 1969. A cable-chain device for locating duck nests. J. Wildl. Manage. 33:1009-1011.
Index Terms: TX/Aves/Waterfowl/Shorebird/LV/Nesting Success/Presence/HBT/Agriculture/Grassland/Shrub/Scrub/SSN/Breeding/Spring/Summer/PTC/Nest Count
Record #4050
- Hilborne, R., J. A. Redfield, and C. J. Krebs. 1976. On the reliability of enumeration for mark and recapture census of voles. Can. J. Zool. 54:1019-1024.
Index Terms: TX/Mammalia/Rodentia/Muridae/Microtus californicus/California Vole/Microtus pennsylvanicus/Meadow Vole/Microtus ochrogaster/Prairie Vole/Microtus townsendii/Townsend Vole/Microtus oregoni/Oregon Vole/SSN/Spring/Summer/Fall/Winter/HBT/Grassland/LV/Population/Density/PTC/Trapping/Live-trap/Marking/Capture-recapture/
Record #4060

Hilden, O. 1981. Sources of error involved in the Finnish line-transect method. Pages 152-159 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/SSN/Summer/Breeding/HBT/Forest/Wetlands/LV/Population/Density/PTC/Finnish Line Transect
Record #4070

Hilden, O., and A. Jarvinen. 1989. Efficiency of the line-transect method in mountain birch forest. Ann. Zool. Fenn. 26: 185-190.

Index Terms: TX/Aves/HBT/Deciduous Forest/Mixed Forest/PTC/Line Transect/NASSN/NALV/
Record #4080

Hill, E. P., and P. W. Sumner. 1980. Scent-Stations as Indices of Abundance in some Furbearers of Alabama: Cooperative Wildlife Projects. Ala. Div. of Game and Fish. W-044-R-05. 32 pp.

Index Terms: TX/Mammalia/Carnivora/Gray Fox/Urocyon cinereoargenteus/Red Fox/Vulpes vulpes/Bobcat/Felis rufus/LV/Abundance/PTC/Scent Station/Communication/NAHBT/NASSN/
Record #4090

Hodges, J. I., J. G. King, and F. C. Robards. 1979. Resurvey of the Bald Eagle breeding populations in southeast Alaska. J. Wildl. Manage. 43:219-221.

Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Population/SSN/Spring/Breeding/HBT/Wetlands/Riparian/Forest/PTC/Aerial Census/
Record #4100

Hoffman, C. O., and J. L. Gottschang. 1977. Numbers, distribution, and movements of a Raccoon population in a suburban residential community. J. Mammal. 58:623-636.

Index Terms: TX/Mammalia/Carnivora/Raccoon/Procyon lotor/LV/Density/Distribution/HBT/Deciduous Forest/Grassland/Residential/SSN/Spring/Summer/Fall/PTC/Trapping/Live-trap
Record #4110

Howard, W. E., and E. M. Brock. 1961. A drift-fence pit trap that preserves captured rodents. J. Mammal. 42:386-391.

Index Terms: TX/Mammalia/Rodentia/Microtus/Vole/Peromyscus/Mouse/Reithrodontomys/Thomomys/Harvest Mouse/Pocket Gopher/SSN/Summer/Spring/Fall/Winter/LV/Abundance/PTC/Trapping/Pitfall/Live-trap/Drift Fence/NAHBT
Record #4120

- Howell, J. A., and W. Shor. 1985. Raptor banding at Point Diablo, supplies, trapping success data. Park Science 5:22-23.
Index Terms: TX/Aves/Raptor/PTC/Trapping/Banding/NAHBT/NALV/NASSN/
Record #4130
- Hubbard, J. P., J. W. Shipman, and S. O. Williams. 1986. An analysis of vehicular counts of roadside raptors in New Mexico, 1974-1985. Southwest Raptor Management Symposium and Workshop. 6 pp.
Index Terms: TX/Aves/Raptor/Turkey Vulture/Cathartes aura/American Kestrel/Falco sparverius/Red-tailed Hawk/Buteo jamaicensis/Owl/Passerine/Shrike/Roadrunner/PTC/Road Census/NAHBT/NALV/NASSN/
Record #4140
- Huckabee, J. W. n.d. Waterfowl population study in Jackson Hole, Wyoming. M.S. thesis, Univ. Wyoming, Laramie. 54.
Index Terms: TX/Aves/Waterfowl/LV/Population/NAHBT/NAPTC/NASSN/
Record #4150
- Huey, C. M. 1942. A vertebrate faunal survey of the Organ Pipe Cactus National Monument, Arizona. Trans. San Diego Soc. Nat. Hist. 9:353-376.
Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC
Record #4160
- Hugo, A. 1990. Successful recaptures of small mammals using a new marking method. Z. Saeugetierkd 55:421-424.
Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Marking/Capture-recapture/NAHBT/NALV/NASSN/
Record #4170
- Hussell, D. J. T. 1981. The use of migration counts for monitoring bird population levels. Pages 92-102 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/SSN/Spring/HBT/Scrub/Shrub/LV/Population/NAPTC/
Record #4180
- Hutto, R. L., and S. L. Mosconi. 1981. Lateral detectability profiles for line transect bird censuses: Some problems and an alternative. Pages 382-387 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/Passerine/HBT/Riparian/SSN/Breeding/Summer/LV/Density/PTC/Line Transect/
Record #4190

Hutto, R. L., S. M. Pletschet, and P. Hendricks. 1986. A fixed-radius point count method for nonbreeding and breeding season use. Auk 103:593-602.

Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/Passerine/LV/Density/Abundance/SSN/Spring/Summer/Fall/Winter/Breeding/HBT/Mixed Forest/Deciduous Forest/PTC/Point Count/Fixed-radius Point Count
Record #4200

International Bird Census Committee. 1977. Censusing breeding birds by the IPA method. Pol. Ecol. Stud. 3:15-17.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/PTC/Point Count/IPA/NALV/NAHBT
Record #4210

International Bird Census Committee. 1970. An international standard for a mapping method in bird census work recommended by the International Bird Census Committee. Aud. Field Notes 24:722-726.

Index Terms: TX/Aves/Owl/Woodpecker/Passerine/LV/Territory/Density/SSN/Summer/Fall/Winter/Spring/Breeding/HBT/Deciduous Forest/Mixed Forest/Coniferous Forest/Grassland/Shrub/Scrub/Riparian/PTC/Spot-mapping
Record #4220

International Bird Census Committee. 1969. Recommendations for an international standard for a mapping method in bird census work. Bird Study 16:249-255.

Index Terms: TX/Aves/Passerine/Raptor/Woodpecker/Owl/SSN/Breeding/Summer/LV/Abundance/Population/Density/PTC/Spot-mapping/NAHBT/
Record #4230

Iverson, J. B. 1979. Another inexpensive turtle trap. Herpetol. Review 10:55.

Index Terms: TX/Reptilia/Testudines/HBT/Wetlands/SSN/Fall/Spring/Summer/LV/Presence/Abundance/PTC/Trapping/Funnel-trap/
Record #4240

Jackson, L. 1990. Flying with falcons: A helicopter search for endangered birds in Labrador. Can. Geogr. 110:28-34.

Index Terms: TX/Aves/Raptor/Falcon/Falco/LV/Presence/PTC/Aerial Census/NAHBT/NASSN/
Record #4250

Janson, R. 1947. South Dakota Small Game and Furbearer Study: Prairie Grouse Distribution and Population Studies. S.D. Dept. of Game, Fish and Parks. W-017-R-02. 20 pp.

Index Terms: TX/Aves/Upland Groundbird/Greater Prairie Chicken/Tympanuchus cupido/Lesser Prairie Chicken/Tympanuchus pallidicinctus/LV/Population/Distribution/PTC/Communication/Drumming/NAHBT/NASSN/
Record #4260

Janson, R. G. 1946. A survey of the native rabbits of Utah with reference to their classification, distribution, life histories and ecology. M.S. thesis, Utah State Agric. College. 103 pp.

Index Terms: TX/Mammalia/Lagomorpha/LV/Distribution/Habitat Use/NAHBT/NASSN/NAPTC
Record #4270

Janvrin, J. A., E. P. Wiggers, and T. V. Dailey. 1991. Evaluation of drive counts for estimating Northern Bobwhite densities. Wildl. Soc. Bull. 19:475-481.

Index Terms: TX/Aves/Upland Groundbird/Northern Bobwhite/Colinus virginianus/LV/Density/SSN/Fall/Winter/HBT/Deciduous Forest/Grassland/Agriculture/Shrub/Scrub/PTC/Transects/Flushing/
Record #4280

Jarvinen, O. 1978. Species-specific census efficiency in line transects. Ornith. Scand. 9:164-167.

Index Terms: TX/Aves/PTC/Line Transect/NASSN/NAHBT/NALV/
Record #4290

Jarvinen, O., and R. A. Vaisanen. 1975. Estimating relative densities of breeding birds by the line transect method. Oikos 26:316-322.

Index Terms: TX/Aves/Owl/Raptor/Passerine/LV/Density/SSN/Spring/Summer/Breeding/PTC/Line Transect/NAHBT/
Record #4300

Jarvinen, O., and R. A. Vaisanen. 1976. Finnish line transect censuses. Ornith. Fenn. 53:115-118.

Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/Shorebird/Wader/Owl/Passerine/SSN/Spring/Summer/Breeding/LV/Density/HBT/Coniferous Forest/Mixed Forest/Deciduous Forest/Riparian/Grassland/Shrub/Scrub/Wetlands/PTC/Finnish Line Transect/
Record #4310

Jarvinen, O., and R. A. Vaisanen. 1981. Methodology for censusing land bird faunas in large regions. Pages 146-151 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/SSN/Summer/Breeding/LV/Community/Density/HBT/Coniferous Forest/PTC/Line Transect
Record #4320

Jenkins, J., E. Provost, T. Fendley, J. Monroe, I. Brisbin Jr., and M. Lenarz. 1979. Techniques and problems associated with a consecutive twenty-five year furbearer trapline census. Natl. Wildl. Fed. Sci. Tech. Ser. 6:1-7.

Index Terms: TX/Mammalia/Carnivora/Lagomorpha/PTC/Trapping/NASSN/NALV/NAHBT
Record #4330

Jenni, D. A., and J. E. Hartzler. 1978. Attendance at a Sage Grouse lek: Implications for spring censuses. J. Wildl. Manage. 42:46-52.

Index Terms: TX/Aves/Upland Groundbird/Sage Grouse/Centrocercus urophasianus/HBT/Grassland/SSN/Spring/Breeding/LV/Population/PTC/Lek Index/
Record #4340

Jennrich, R. I., and F. B. Turner. 1969. Measurement of noncircular home range. J. Theoretical Biol. 22:227-237.

Index Terms: LV/Home Range/NATX/NAHBT/NAPTC/NASSN/
Record #4350

Jensen, T. S. 1975. Trappability of various functional groups of the forest rodents Clethrionomys glareolus and Apodemus flavicollis, and its application in density estimations. Oikos 26:196-204.

Index Terms: TX/Mammalia/Rodentia/Muridae/Clethrionomys glareolus/Apodemus flavicollis/SSN/Summer/Fall/LV/Density/HBT/Mixed Forest/PTC/Trapping/Snap-trap/Live-trap/
Record #4360

Johnson, D. W. 1976. Population of small mammals on isolated buttes in Canyonlands National Park. M.S. thesis, Univ. Wyo. 84 pp.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/NAHBT/NAPTC/NASSN/
Record #4370

Johnson, R. R., B. T. Brown, L. T. Haight, and J. M. Simpson. 1981. Playback recordings as a special avian censusing technique. Pages 68-75 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6. Index Terms: TX/Aves/Owl/Passerine/Wader/Upland Groundbird/Raptor/SSN/Breeding/Spring/Summer/LV/Density/PTC/Conspecific Recording/Transect/NAHBT/ Record #4380

Johnson, R. R., and J. J. Dinsmore. 1986. The use of tape-recorded calls to count Virginia Rails and Soras. Wilson Bull. 98:303-306. Index Terms: TX/Aves/Wader/Virginia Rail/Rallus limicola/Sora/Porzana carolina/LV/Density/HBT/Wetlands/SSN/Spring/Summer/Breeding/PTC/Interspecific Recording/Conspecific Recording/Communication Record #4390

Johnson, W. J. 1965. A zoogeographical analysis of the herptofauna in northern Michigan and adjacent Isle Royale. M.S. thesis, Michigan State Univ., Lansing. 90 pp. Index Terms: TX/Reptilia/Amphibia/LV/Community/NAHBT/NAPTC/NASSN/ Record #4400

Jolly, G. M. 1963. Estimates of population parameters from multiple recapture data with both death and dilution-deterministic model. Biometrika 50:113-128. Index Terms: LV/Population/PTC/Capture-recapture/NATX/NAHBT/NASSN/ Record #4410

Jolly, G. M. 1981. Mark-recapture--what next? Pages 137-138 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6. Index Terms: TX/Aves/PTC/Marking/Capture-recapture/NAHBT/NALV/NASSN/ Record #4420

Jones, K. B. 1988. Comparison of herpetofaunas of a natural and altered riparian ecosystem. Pages 222-227 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona. Index Terms: TX/Amphibia/Salientia/Caudata/Reptilia/Serpentes/Lacertilia/Testudines/LV/Relative Abundance/HBT/Riparian/PTC/Trapping/Pitfall/Timed Search/Log-turning/NASSN/ Record #4430

- Jones, K. B. 1988. Distribution and habitat associations of herpetofauna in Arizona: Comparisons by habitat type. Pages 109-128 in Szaro, R. C., and K. E./D.R. Patton Severson, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Amphibia/Caudata/Salientia/Reptilia/Testudines/Lacertilia/Serpentes/HBT/Riparian/Scrub/Shrub/Coniferous Forest/Deciduous Forest/Grassland/LV/Abundance/Distribution/PTC/Drift Fence/Trapping/Pitfall/Road Census/Timed Search/NASSN/
Record #4440
- Jorgensen, C. D., and H. C. Smith. 1974. Mini-grids and small mammal estimates. In Proceedings of the Utah Academy of Sciences, Arts and Letters. 51:Part I.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/PTC/Grid/Quadrat/NAHBT/NASSN/
Record #4450
- Jurek, R. M. 1973. Accelerated Research Program on Shore and Upland Migratory Game Birds. Final Report. California Dept. of Fish and Game. CA W-054-R-01. 292 pp.
Index Terms: TX/Aves/Upland Groundbird/Shorebird/SSN/Spring/Fall/PTC/Trapping/Banding/Nightlighting/NAHBT/NALV/
Record #4460
- Kaalaas, J. A., and I. Byrkjedal. 1984. Line transects of waders in an alpine area: A methodological study. Ann. Zool. Fenn. 21:399-402.
Index Terms: TX/Aves/Wader/PTC/Line Transect/NASSN/NALV/NAHBT
Record #4470
- Kadlec, J. A., and W. H. Drury. 1968. Aerial estimation of the size of gull breeding colonies. J. Wildl. Manage. 32:287-293.
Index Terms: TX/Aves/Shorebird/Gull/Larus/SSN/Breeding/Spring/Summer/HBT/Wetlands/LV/Population/PTC/Ground Count/Nest Count/Photography/Aerial Census/
Record #4480
- Kafkas, E. N. 1987. Census and exploitation of a discrete Beaver population in Michigan. M.S. thesis, Central Michigan Univ. 89 pp.
Index Terms: TX/Mammalia/Rodentia/Castoridae/Beaver/Castor canadensis/LV/Population/PTC/Trapping/NAHBT/NASSN/
Record #4490

Kantak, G. E. 1978. A small mammal trapping effort on the Apostle Islands and vicinity. Field Rep. Dept. Zoology. Univ. Wisconsin, Madison. 10 pp.

Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Trapping/NAHBT/NALV/NASSN/

Record #4500

Kantrud, H. A. 1982. Maps of Distribution and Abundance of Selected Species of Birds on Uncultivated Native Upland Grasslands and Shrubsteppe in the Northern Great Plains. U.S. Fish and Wildlife Service. 38 pp.

Index Terms: TX/Aves/HBT/Grassland/Shrub/Scrub/LV/Distribution/Abundance/NAPTC/NASSN/

Record #4510

Karr, J. R. 1981. Surveying birds with mist nets. Pages 62-67 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/LV/Relative Abundance/HBT/Forest/SSN/Fall/PTC/Netting/Mist-net/

Record #4520

Kaufman, D. W., G. C. Smith, R. M. Jones, J. B. Gentry, and M. H. Smith. 1971. Use of assessment lines to estimate density of small mammals. Acta Theriol. 16:127.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Density/PTC/Grid/Assessment Line/NAHBT/NASSN/

Record #4530

Kavanagh, R., and H. F. Recher. 1983. Effects of observer variability on the census of birds. Corella 7:93-100.

Index Terms: TX/Aves/NASSN/NAHBT/NALV/NAPTC

Record #4540

Keister, G. P. Jr. 1981. An assessment of Bald Eagle communal roosting in northwestern Washington. Wash. Dept. Game, O. 39 pp.

Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/NAHBT/NAPTC/NALV/NASSN/

Record #4550

Keith, L. B. 1965. A live snare and tagging snare for rabbits. J. Wildl. Manage. 29:877-880.

Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/Eastern Cottontail/Sylvilagus floridanus/SSN/Summer/Winter/PTC/Marking/Banding/Netting/Snaring/NAHBT/NALV/

Record #4560

- Keith, L. B., E. C. Meslow, and O. J. Rongstad. 1968.
Techniques for Snowshoe Hare population studies. J. Wildl. Manage. 32:501-512.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/SSN/Summer/Spring/Winter/LV/Population/PTC/Netting/Marking/Trapping/Live-trap/NAHBT/
Record #4570
- Keller, M., J. Engel, J. Zawadzki, and J. Leszkowicz. 1987.
Methods of number estimation of breeding Mallard population in urban conditions. Notatki Ornitol. 28:63-79.
Index Terms: TX/Aves/Waterfowl/Mallard/Anus platyrhynchos/LV/Population/NAPTC/NASSN/NAHBT
Record #4580
- Kemp, A. C., and M. I. Kemp. 1989. The use of sonograms to estimate density and turnover of Wood Owls in riparian forest. Ostrich (Suppl.) 14:105-110.
Index Terms: TX/Aves/Owl/Wood Owl/Ciccaba virgata/HBT/Riparian/Forest/LV/Density/PTC/Communication/NASSN/
Record #4590
- Kendeigh, S. C. 1944. Measurement of bird populations. Ecol. Monogr. 14:67-106.
Index Terms: TX/Aves/LV/Population/NAHBT/NAPTC/NASSN/
Record #4600
- Kennedy, M. L., G. D. Baumgardner, M. E. Cope, F. R. Tabatabai, and O. S. Fuller. 1986. Raccoon (Procyon lotor) density as estimated by the census-assessment line technique. J. Mammal. 67:166-168.
Index Terms: TX/Mammalia/Carnivora/Raccoon/Procyon lotor/LV/Density/PTC/Assessment Line/NASSN/NAHBT
Record #4610
- Kennedy, P. L., and D. W. Stahlecker. 1993. Responsiveness of nesting Northern Goshawks to taped broadcasts of three conspecific calls. J. Raptor Res. 27:74-75.
Index Terms: TX/Aves/Raptor/Northern Goshawk/Accipiter gentilis/SSN/Breeding/Spring/Summer/HBT/Coniferous Forest/PTC/Conspecific Recording/Nest Count/Transect/Communication/NALV/
Record #4620
- Kennedy, P. L., and D. W. Stahlecker. 1993. Responsiveness of nesting Northern Goshawks to taped broadcasts of three conspecific calls. J. Wildl. Manage. 57:249-257.
Index Terms: TX/Aves/Raptor/Northern Goshawk/Accipiter gentilis/SSN/Breeding/Spring/Summer/PTC/Conspecific Recording/NALV/NAHBT
Record #4630

- Kennett, R. 1992. A new trap design for catching freshwater turtles. Wildl. Res. 19:443-445.
Index Terms: TX/Reptilia/Testudines/HBT/Wetlands/PTC/Trapping/NASSN/NALV
Record #4640
- Keppie, D. M. 1991. The termination of spring display by male Spruce Grouse, and commencement of egg laying by females. Can. J. Zool. 69:3000-3004.
Index Terms: TX/Aves/Upland Groundbird/Spruce Grouse/Dendragapus canadensis/LV/Nesting success/SSN/Breeding/Spring/NAHBT/NAPTC/
Record #4650
- Kessler, W. B. 1979. Inventory and analysis techniques for non-game wildlife. In Society for Range Management 32nd Annual Meeting, February 12-15, 1979, Casper, Wyoming. 32:4.
Index Terms: NATX/NASSN/NAHBT/NALV/NAPTC
Record #4660
- Keyes, B. E., and C. E. Grue. 1982. Capturing birds with mist nets: A review. N. Am. Bird Bander 7:2-14.
Index Terms: TX/Aves/PTC/Netting/Mist-net/NAHBT/NALV/NASSN/
Record #4670
- Kierulff, M. C., J. R. Stallings, and E. L. Sabato. 1991. A method to capture Bamboo Rat (Kannabateomys amblyonyx) in bamboo forests. Mammalia 55:633-635.
Index Terms: TX/Mammalia/Rodentia/Bamboo Rat/Kannabateomys amblyonyx/HBT/Forest/PTC/Trapping/Netting/NALV/NASSN/
Record #4680
- Kilgore, B. M. 1968. Breeding bird populations in managed and unmanaged stands of Sequoia gigantea. Univ. California, Berkeley. 196 pp.
Index Terms: TX/Aves/LV/Population/HBT/Coniferous Forest/SSN/Breeding/Spring/Summer/NAPTC/
Record #4690
- Kilpi, M. 1987. Annual variation in the efficiency of adult Herring Gull (Larus argentatus) counts. Ornis Fenn. 64:76-77.
Index Terms: TX/Aves/Shorebird/Herring Gull/Larus argentatus/NALV/NASSN/NAHBT/NAPTC
Record #4700
- Kimball, J. W. 1949. The crowing count pheasant census. J. Wildl. Manage. 13:101-120.
Index Terms: TX/Aves/Upland Groundbird/Ring-necked Pheasant/Phasianus colchicus/PTC/Communication/NAHBT/NALV/NASSN/
Record #4710

- Kimmel, J. T., and R. H. Yahner. 1990. Response of Northern Goshawks to taped conspecific and Great Horned Owl calls. J. Raptor Res. 24:107-112.
Index Terms: TX/Aves/Raptor/Northern Goshawk/Accipiter gentilis/PTC/Conspecific Recording/Interspecific Recording/Communication/NALV/NAHBT/NASSN
Record #4720
- King, J. G. 1973. The use of small airplanes to gather swan data in Alaska. Wildfowl, 24 Slimbridge, Glos., England.
Index Terms: TX/Aves/Waterfowl/Swan/Cygnus/PTC/Aerial Census/NAHBT/NALV/NASSN/
Record #4730
- King, J. G., F. C. Robards, and C. J. Lensink. 1972. Census of the Bald Eagle breeding population in southeastern Alaska. J. Wildl. Manage. 36:1292-1295.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Population/Density/SSN/Spring/Breeding/HBT/Deciduous Forest/Coniferous Forest/Riparian/PTC/Aerial Census/
Record #4740
- King, R. 1979. Results of serial surveys of migratory birds on NPR-A in 1977 and 1978. Pages 187-226 in Lent, P. C., ed. Studies of Selected Wildlife and Fish and their Use of Habitats on and Adjacent to the National Petroleum Reserve--Alaska--1977-1978. U.S. Dept. Inter., Fish and Wildl. Serv., Anchorage, Alaska. Field Study Rep. 3.
Index Terms: TX/Aves/SSN/Spring/Fall/NAHBT/NALV/NAPTC
Record #4750
- Kirby, J. 1992. The system of waterfowl counting in the United Kingdom. Wader Study Group Bull. No. 65:15.
Index Terms: TX/Aves/Waterfowl/NASSN/NAHBT/NALV/NAPTC
Record #4760
- Kirby, R. E. 1980. Waterfowl production estimates on forested wetlands from pair and brood counts. Wildl. Soc. Bull. 8:273-278.
Index Terms: TX/Aves/Waterfowl/LV/Breeding Success/Nesting Success/HBT/Forest/Wetlands/SSN/Breeding/Fall/Spring/Summer/PTC/Nest Count/Ground Count/
Record #4770
- Klein, W. 1985. Bird census results from cartographic line transects as a basis for evaluation of sections of a stream. Pages 273-276 in Taylor, K., R. J. Fuller, and P. C. Lack, eds. Bird Census and Atlas Studies.
Index Terms: TX/Aves/HBT/Riparian/Wetlands/PTC/Line Transect/NASSN/NALV
Record #4780

Knight, R. L., R. C. Friesz, G. T. Allen, and P. J. Randolph.
1981. A Summary of the Mid-Winter Bald Eagle Survey in
Washington, 1981. Washington Department of Game. 76 pp.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus
leucocephalus/LV/Population/SSN/Winter/NAHBT/NAPTC
Record #4790

Knott, A. P., and J. Venter. 1990. A field test on the accuracy
and repeatability of a line transect method. Lammergeyer 41:
13-22.
Index Terms: PTC/Line Transect/NATX/NAHBT/NALV/NASSN/
Record #4800

Knott, A. P., and J. Venter. 1987. An observation on the
relative accuracy of two transect census techniques.
Lammergeyer 38:28-31.
Index Terms: PTC/Transect/NASSN/NALV/NAHBT/NATX
Record #4810

Koch, E. D., and C. R. Peterson. 1989. A preliminary survey of
the distribution of amphibians and reptiles in Yellowstone
National Park. In Clark, T. W., A. H. Harvey, R. D. Dorn, D.
L. Genter, and C. Groves, eds. Rare, Sensitive and Threatened
Species of the Greater Yellowstone Ecosystem.
Index Terms: TX/Reptilia/Amphibia/LV/Community/Distribution/
NAHBT/NASSN/NAPTC
Record #4820

Kooiker, G. 1981. Recommendations regarding the methods of
performing a populations census of herons (Ardea cinerea)
during the breeding season. Vogelwelt 102:136-140.
Index Terms: TX/Aves/Wader/Grey Heron/Ardea cinerea/LV/
Population/SSN/Breeding/Spring/Summer/NAHBT/NAPTC
Record #4830

Kosicky, E. L., G. O. Henderson, P. G. Homeyer, and E. B.
Speaker. 1952. The adequacy of the fall roadside pheasant
census in Iowa. Trans. North Am. Wildl. Nat. Resour. Conf.
17:293-305.
Index Terms: TX/Aves/Upland Groundbird/Ring-necked Pheasant/
Phasianus colchicus/SSN/Fall/PTC/Road Census/NAHBT/NALV/
Record #4840

Koskimies, P., and H. Poeyssae. 1989. Waterfowl censusing in
environmental monitoring: A comparison between point and round
counts. Ann. Zool. Fenn. 26:201-206.
Index Terms: TX/Aves/Waterfowl/PTC/Point Count/NASSN/NAHBT/
NALV
Record #4850

Koster, S. H. 1984. An evaluation of line transect census methods in west African wooded savanna. Ph.D. dissertation, Michigan State Univ. 207 pp.
Index Terms: TX/Aves/HBT/Grassland/Forest/PTC/Line Transect/NASSN/NALV
Record #4860

Krebs, C. J., B. S. Gilbert, S. Boutin, and R. Boonstra. 1987. Estimation of Snowshoe Hare population density from turd transects. Can. J. Zool. 65:565-567.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/LV/Density/Population/PTC/Scat Index/Transect/NASSN/NAHBT
Record #4870

Kricher, J. C. 1972. Bird species diversity: The effect of species richness and equitability on the diversity index. Ecology 53:278-282.
Index Terms: TX/Aves/LV/Community/NASSN/NAHBT/NAPTC
Record #4880

Kufeld, R. C. 1964. Statewide Game Management Survey: Tree Squirrel Management Information. Ariz. Game and Fish Dept. Ariz. W-053-R-14. 11 pp.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/NAHBT/NALV/NASSN/NAPTC
Record #4890

Kunz, T. H., ed. 1988. Ecological and Behavioral Methods for the Study of Bats. Smithsonian Institution Press, Washington, D.C. 533pp.
Index Terms: TX/Mammalia/Chiroptera/NASSN/NALV/NAHBT/NAPTC
Record #4900

Kunz, T. H., and E. L. P. Anthony. 1977. On the efficiency of the Tuttle bat trap. J. Mammal. 58:309-315.
Index Terms: TX/Mammalia/Chiroptera/Myotis lucifugus/Little Brown Bat/SSN/Spring/Summer/LV/Population/Presence/PTC/Trapping/Bat-trap/NAHBT
Record #4910

Kunz, T. H., and C. E. Brock. 1975. A comparison of mist nets and ultrasonic detectors for monitoring flight activity of bats. J. Mammal. 56:907-911.
Index Terms: TX/Mammalia/Chiroptera/Myotis lucifugus/Little Brown Bat/Myotis keenii/Keen Myotis/Lasiurus borealis/Red Bat/HBT/Mixed Forest/Riparian/SSN/Summer/LV/Population/PTC/Netting/Communication/
Record #4920

- Kushlan, J. A. 1979. Effects of helicopter censusing on wading bird colonies. J. Wildl. Manage. 43:756-760.
Index Terms: TX/Aves/Wader/Great Egret/Casmerodius albus/Snowy Egret/Egretta thula/Tricolored Heron/Egretta tricolor/HBT/Wetlands/Riparian/SSN/Spring/Summer/Breeding/PTC/Aerial Census/NALV/
Record #4930
- Kushlan, J. A. 1978. White pelican numbers in Everglades National Park. Florida Field Nat. 6:46-47.
Index Terms: TX/Aves/Waterfowl/American White Pelican/Pelecanus erythrorhynchos/HBT/Wetlands/NALV/NASSN/NAPTC
Record #4940
- Labisky, R. F. 1959. Nightlighting: A technique for capturing birds and mammals. Illinois Nat. History Survey Div. Biol. Notes. 11 pp.
Index Terms: TX/Aves/Mammalia/PTC/Nightlighting/NAHBT/NALV/NASSN/
Record #4950
- Labisky, R. F. 1968. Nightlighting: Its use in capturing pheasants, prairie chickens, bobwhites, and cottontails. Illinois Nat. History Survey Div. Biol Notes 62. 12 pp.
Index Terms: TX/Aves/Upland Groundbird/Ring-necked Pheasant/Phasianus colchicus/Northern Bobwhite/Colinus virginianus/Greater Prairie Chicken/Tympanuchus cupido/Mammalia/Lagomorpha/Cottontail/Sylvilagus/PTC/Nightlighting/NAHBT/NALV/NASSN/
Record #4960
- Labisky, R. F., and D. R. Progulske. 1982. Scent-Station Indices as Indicators of Population Abundance for Bobcats, Raccoons, Gray Foxes and Opossums. Part 2. Univ. of Florida Coop. Fish & Wildlife Research Unit. 34 pp.
Index Terms: TX/Mammalia/Didelphimorphia/Virginia Opossum/Didelphis virginiana/Carnivora/Bobcat/Felis rufus/Raccoon/Procyon lotor/Gray Fox/Urocyon cinereoargenteus/LV/Abundance/PTC/Scent Station/NAHBT/NASSN/
Record #4970
- Lack, D. 1937. A review of bird census work and bird population problems. Ibis 79:369-395.
Index Terms: TX/Aves/LV/Population/NAHBT/NASSN/NAPTC
Record #4980
- Lacki, M. J., and T. A. Bookout. 1983. A survey of bats in Wayne National Forest, Ohio. Ohio J. Science 83:45-50.
Index Terms: TX/Mammalia/Chiroptera/NAHBT/NALV/NASSN/NAPTC
Record #4990

Lacki, M. J., W. T. Peneston, and F. D. Vogt. 1990. A comparison of the efficiency of two types of live traps for capturing Muskrats, Ondatra zibethicus. Can. Field Nat. 104: 594-596.

Index Terms: TX/Mammalia/Rodentia/Muridae/Muskrat/Ondatra zibethicus/SSN/Summer/HBT/Riparian/Wetlands/LV/Population/PTC/Trapping/Live-trap/
Record #5000

Lagler, K. F. 1943. Methods of collecting freshwater turtles. Copeia 1943:21-25.

Index Terms: TX/Reptilia/Testudines/PTC/Trapping/Netting/HBT/Wetland/NALV/NASSN/
Record #5010

Landmann, A., A. Grull, P. Sackl, and A. Ranner. 1990.

Importance and application of census techniques in field ornithology: Objectives, chances, problems, and state of use in Austria. Egretta 33:11-50.

Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #5020

Landres, P. B., and J. A. MacMahon. 1980. Guilds and community organization: Analysis of an oak woodland avifauna in Sonora, Mexico. Auk 97:351-365.

Index Terms: TX/Aves/Woodpecker/Passerine/HBT/Deciduous Forest/LV/Density/Habitat Use/Community/SSN/Breeding/Spring/PTC/Spot-mapping/
Record #5030

Lannon, J. R. Jr. 1962. A different method of catching the desert lizards, Callisaurus and Uma. Copeia 1962:437-438.

Index Terms: TX/Reptilia/Lacertilia/Callisaurus/Uma/HBT/Desert/PTC/Netting/Trapping/NALV/NASSN/
Record #5040

Laughrin, L. L. 1973. California Island fox survey. State of California, The Resource Agency, Department of Fish and Game, Sacramento, Calif. Wildlife Management Branch Administrative Report No. 73-3. 17 pp.

Index Terms: TX/Mammalia/Carnivora/Fox/NAHBT/NALV/NASSN/NAPTC
Record #5050

Laval, R. K. 1973. Occurrence, ecological distribution, and relative abundance of bats in McKittrick Canyon, Culbertson County, Texas. Southwest. Nat. 17:357-364.

Index Terms: TX/Mammalia/Chiroptera/LV/Distribution/Presence/Relative Abundance/NAPTC/NAHBT/NASSN/
Record #5060

Lawson, P. W., and G. A. Flaxa. Peregrine Falcon breeding status in Texas national parks. Chihuahuan Desert Res. Inst. Contrib. 82. 9 pp.

Index Terms: TX/Aves/Raptor/Peregrine Falcon/Falco peregrinus/LV/Breeding Success/Nesting Success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
Record #5070

Laymon, S. A. 1985. The use of playback response to census Spotted Owls (Strix occidentalis): A test of validity. Raptor Research Foundation Symposium on the Management of Birds of Prey. International Meeting. Session 11.

Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/PTC/Conspecific Recording/NAHBT/NASSN/NALV
Record #5080

Lazo, A., C. de le Court, and Soriguer. 1992. Evaluation of hare abundance allowed by their use of attraction points. Z. Saugetierkd. 57:373-379.

Index Terms: TX/Mammalia/Lagomorpha/Lepus granatensis/LV/Abundance/NASSN/NAHBT/NAPTC
Record #5090

Ledant, J. P., P. Devillers, and M. van der Elst. 1989. Creation and enhancement of a walloon system for surveillance of the avifauna. Aves Spec. Issue 26:187-189.

Index Terms: TX/Aves/NAHBT/NAPTC/NALV/NASSN/
Record #5100

Legler, J. M. 1960. A simple and inexpensive device for trapping aquatic turtles. Utah Acad. Sci. Proc. 37:63-66.

Index Terms: TX/Reptilia/Testudines/HBT/Wetland/PTC/Trapping/NALV/NASSN/
Record #5110

Leighton, F. A., J. M. Gerrard, P. H. Gerrard, D. W. A. Whitfield, and W. J. Maher. 1979. An aerial census of Bald Eagles in Saskatchewan. J. Wildl. Manage. 43:61-69.

Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/SSN/Breeding/Spring/Summer/HBT/Coniferous Forest/Riparian/LV/Population/Distribution/PTC/Aerial Census
Record #5120

Lemke, W. C., and D. R. Thompson. 1960. Evaluation of a fox population index. J. Wildl. Manage. 24:406.

Index Terms: TX/Mammalia/Carnivora/Fox/LV/Population/NAHBT/NASSN/NAPTC
Record #5130

- Leslie, P. H. 1952. The estimation of population parameters from data obtained by means of the capture-recapture method: II. The estimation of total numbers. *Biometrika* 38:368-388.
Index Terms: LV/Population/Abundance/PTC/Capture-recapture/NAHBT/NATX/NASSN/
Record #5140
- Leslie, P. H., and D. H. S. Davis. 1939. An attempt to determine the absolute number of rats on a given area. *J. Anim. Ecol.* 8:94-113.
Index Terms: TX/Mammalia/Rodentia/Rat/LV/Population/Density/NAHBT/NAPTC/NASSN/
Record #5150
- Levy, S. H., J. J. Levy, and R. A. Bishop. 1966. Use of tape recorded female quail calls during the breeding season. *J. Wildl. Manage.* 30:426-428.
Index Terms: TX/Aves/Upland Groundbird/Montezuma Quail/Cyrtonyx montezumae/Scaled Quail/Callipepla squamata/Gambel's Quail/Callipepla gambelli/SSN/Breeding/Spring/Summer/PTC/Communication/Conspecific Recording/NAHBT/NALV/
Record #5160
- Lewis, J. C. 1979. Factors affecting the spring inventory of Sandhill Cranes. *Proc. 1987 Crane Workshop.* Pages 33-39
Index Terms: TX/Aves/Wader/Sandhill Crane/Grus canadensis/SSN/Spring/NALV/NAHBT/NAPTC
Record #5170
- Lewis, J. C. 1970. Wildlife census methods: A resume. *J. Wildl. Dis.* 6:356-364.
Index Terms: NATX/NAHBT/NALV/NASSN/NAPTC
Record #5180
- Liles, G., and L. Jenkins. 1984. A field survey for otters (Lutra lutra) in Yugoslavia. *J. Zool.* 203:282-284.
Index Terms: TX/Mammalia/Carnivora/Lutra lutra/Otter/NASSN/NAHBT/NALV/NAPTC
Record #5190
- Lillywhite, H. B. 1982. Tracking as an aid in ecological studies of snakes. Pages 181-191 in Scott, N. J., ed. *Herpetological Communities.* U.S. Dept. Inter., Fish and Wildl. Serv. Wildl. Res. Rep. 13.
Index Terms: TX/Reptilia/Serpentes/PTC/Tracking/NAHBT/NALV/NASSN/
Record #5200

Lincoln, F. C. Calculating waterfowl abundance on the basis of banding returns. U.S. Dept. Agric. Cir. 118:1-4.
Index Terms: TX/Aves/Waterfowl/LV/Abundance/PTC/Banding/
Marking/NAHBT/NASSN/
Record #5210

Lincombe, G., N. Kinler, and V. Wright. 1983. An Analysis of Scent Station Response in Louisiana. Southeastern Association of Fish and Wildlife Agencies. Proc. Ann. Conf. S.E. Assoc. Fish and Wildl. Agencies. 21 pp.
Index Terms: TX/Mammalia/Carnivora/Bobcat/Felis rufus/Coyote/Canis latrans/Fox/Striped Skunk/Mephitis mephitis/Raccoon/Procyon lotor/Didelphimorphia/Virginia Opossum/Didelphis virginiana/PTC/Scent Station/NAHBT/NALV/NASSN/
Record #5220

Lindsey, G. D., and W. J. Arendt. 1991. Radio tracking Puerto Rican parrots: Assessing triangulation accuracy in an insular rain forest. Carrib. J. Sci. 27:46-53.
Index Terms: TX/Aves/HBT/Deciduous Forest/LV/Home Range/NAPTC/NASSN/
Record #5230

Linhart, S. B., and G. J. Dasch. 1992. Improved performance of padded jaw traps for capturing Coyotes. Wildl. Soc. Bull. 20: 63-66.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/PTC/Trapping/NAHBT/NALV/NASSN/
Record #5240

Linhart, S. B., and F. F. Knowlton. 1975. Determining the relative abundance of Coyotes by scent station lines. Wildl. Soc. Bull. 3:119-124.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/LV/Relative Abundance/Population/SSN/Fall/PTC/Scent Station/Tracking/NAHBT/
Record #5250

Linhart, S. B., and W. B. Robinson. 1972. Some relative carnivore densities in areas under sustained Coyote control. J. Mammal. 53:880-884.
Index Terms: TX/Mammalia/Carnivora/LV/Density/NAHBT/NAPTC/NASSN/
Record #5260

Lint, F. R. 1990. Assessment of mark-recapture models and indices to estimate population size of Wild Turkeys on Tallahala Wildlife Management Area. M.S. thesis, Mississippi State Univ.

Index Terms: TX/Aves/Upland Groundbird/Wild Turkey/Meleagris gallopavo/LV/Population/PTC/Marking/Capture-recapture/NAHBT/NASSN/

Record #5270

Linz, G. M., C. E. Knittle, J. L. Cummings, J. E. Davis Jr., D. L. Otis, and D. L. Bergman. 1991. Using aerial marking for assessing population dynamics of late summer roosting Red-winged Blackbirds. *Prarie Nat.* 23:117-126.

Index Terms: TX/Aves/Passerine/Red-winged Blackbird/Agelaius phoeniceus/LV/Population/SSN/Summer/PTC/Marking/Aerial Census/NAHBT/

Record #5280

Lishak, R. S. 1976. A burrow entrance snare for capturing ground squirrels. *J. Wildl. Manage.* 40:364-365.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Thirteen-lined Ground Squirrel/Spermophilus tridecemlineatus/HBT/Grassland/PTC/Trapping/Netting/Snaring/NALV/NASSN/

Record #5290

Lishak, R. S. 1977. Censusing Thirteen-lined Ground Squirrels with adult and young alarm calls. *J. Wildl. Manage.* 41:755-759.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Thirteen-lined Ground Squirrel/Spermophilus tridecemlineatus/SSN/Spring/Summer/Fall/LV/Population/Breeding Success/HBT/Grassland/PTC/Conspecific Recording/Communication

Record #5300

Little, J., and J. Gurnell. 1989. Shrew captures and rodent field studies. *J. Zool., Lond.* 218:329-331.

Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/PTC/Trapping/Live-trap/NASSN/NAHBT/NALV

Record #5310

Litvaitis, J. A., J. A. Sherburne, and J. A. Bissonette. 1985. A comparison of methods used to examine Snowshoe Hare habitat use. *J. Wildl. Manage.* 49:693-695.

Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/HBT/Mixed Forest/SSN/Fall/Winter/Spring/LV/Habitat Use/PTC/Scat Index/Trapping/Live-trap/Tracking/

Record #5320

- Lockerd, M. J., D. James, and J. E. Dunn. 1980. Estimating small mammal population at the Buffalo National River in Arkansas. Pages 243-257 in Linn, R. M., ed. Proc. 2nd Conf. on Science in the National Parks 12.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/NAHBT/NAPTC/NASSN/
Record #5330
- Loncke, D. J., and M. E. Obbard. 1977. Tag success, dimensions, clutch size and nesting site fidelity for the Snapping Turtle (Chelydra serpentina) in Algonquin Park, Ontario, Canada. J. Herpetol. 11:243-244.
Index Terms: TX/Reptilia/Testudines/Snapping Turtle/Chelydra serpentina/LV/Nesting Success/Breeding Success/Population/HBT/Riparian/SSN/Summer/PTC/Marking/Banding/
Record #5340
- Long, R. C. 1970. Habitat of North Central Louisiana Rats. M.S. thesis, Louisiana Tech. Univ. 24 pp.
Index Terms: TX/Mammalia/Rodentia/Rat/LV/Habitat Use/NAHBT/NAPTC/NASSN/
Record #5350
- Ludwig, J., and D. E. Davis. 1975. An improved Woodchuck trap. J. Wildl. Manage. 39:439-442.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Woodchuck/Marmota monax/SSN/Spring/Fall/PTC/Marking/Trapping/NAHBT/NALV/
Record #5360
- Lynch, P. J., and D. G. Smith. 1984. Census of Eastern Screech-owls (Otus asio) in urban open-space areas using tape-recorded song. Am. Birds 38:388-391.
Index Terms: TX/Aves/Owl/Eastern Screech-Owl/Otus asio/PTC/Conspecific Recording/NAHBT/NASSN/NALV
Record #5370
- MacDonald, D. W., F. G. Ball, and N. G. Hough. 1980. The evaluation of home range size and configuration using radio-tracking data. Pages 405-424 in Amlaner, C. J., Jr., and D. W. MacDonald, eds. A Handbook of Biotelemetry and Radio-Tracking. Pergamon Press, Oxford.
Index Terms: LV/Home Range/NATX/NAHBT/NAPTC/NASSN/
Record #5380
- Maddock, A. H. 1992. Comparison of two methods for trapping rodents and shrews. J. Zool. 38:333-340.
Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/PTC/Trapping/NASSN/NAHBT/NALV/
Record #5390

- Magnani, Y., and P. Landry. 1981. An analysis of the display behaviour of the Black Grouse (Lyrurus tetrix. L.) and possible applications as a census method Off. Natl. Chasse Bull. Mens. Numero Sci. Tech. pp. 213-226 .
Index Terms: TX/Aves/Upland Groundbird/Black Grouse/Lyrurus tetrix/NASSN/NAHBT/NALV/NAPTC
Record #5400
- Magsalay, P., R. Rigor, A. Mapalo, H. Gonzales, and M. FePortigo. 1989. Waterbird monitoring on Olango Islands, Phillipines. Stilt No. 17:54-56.
Index Terms: TX/Aves/Wader/Shorebird/LV/Community/NAHBT/NAPTC/NASSN/
Record #5410
- Majweski, Przemyslaw, and J. Engel. 1987. Method of estimation of wild geese numbers in non-breeding season. Notatki Ornitol. 28:81-85.
Index Terms: TX/Aves/Waterfowl/Goose/SSN/Winter/NAHBT/NAPTC/NALV/
Record #5420
- Manci, K. M., and D. H. Rusch. 1988. Indices to distribution and abundance of some inconspicuous waterbirds at Horicon Marsh. J. Field Ornithol. 59:67-75.
Index Terms: TX/Aves/Wader/Passerine/SSN/Breeding/Spring/Summer/LV/Distribution/Abundance/HBT/Wetlands/PTC/Conspecific Recording/Communication/
Record #5430
- Mannan, R. W., and E. C. Meslow. 1981. Census techniques for nongame birds. Pages 181-196 in Miller, F. L., and A. Gunn, eds. Symposium on census and inventory methods for population and habitats.
Index Terms: TX/Aves/NALV/NASSN/NAHBT/NAPTC
Record #5440
- Mannes, P., and R. Alpers. 1975. Errors of census methods concerning birds breeding in nest boxes. Ornithol. 116:308-314.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/PTC/Nest Count/NALV/NAHBT
Record #5450
- Manuwal, D. A., and M. Huff. 1984. Distribution and abundance of bird populations of different-aged Douglas-fir forests in the southern Washington Cascades. Forest Resources, Univ Washington. Progr. Rep. Coll. 39 pp.
Index Terms: TX/Aves/LV/Distribution/Abundance/Population/HBT/Coniferous Forest/NAPTC/NASSN/
Record #5460

- Marion, W. R., T. E. O'Meara, and D. S. Maehr. 1981. Use of playback recordings in sampling elusive or secretive birds. Pages 81-85 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Wader/Upland Groundbird/HBT/Wetland/SSN/Breeding/Spring/Summer/Fall/Winter/LV/Density/PTC/Conspecific Recording/Communication/Variable Circular-plot
Record #5470
- Marion, W. R., and J. D. Shamis. 1977. An annotated bibliography of bird marking techniques. Bird-Banding 48:42-61.
Index Terms: TX/Aves/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #5480
- Marquiss, M. 1989. Grey herons (Ardea cinerea) breeding in Scotland: Numbers, distribution, and census techniques. Bird Study 36:181-191.
Index Terms: TX/Aves/Wader/Gray Heron/Ardea cinerea/SSN/Breeding/Summer/Spring/LV/Distribution/Abundance/NAHBT/NAPTC
Record #5490
- Martell, M., J. Nibe, and P. T. Redig. 1993. Survey technique for Burrowing Owls in Badlands National Park, South Dakota. J. Raptor Res. 27:61.
Index Terms: TX/Aves/Owl/Burrowing Owl/Athene cunicularia/NALV/NASSN/NAHBT/NAPTC
Record #5500
- Martinka, R. R., and J. E. Swenson. 1981. A review of census techniques for North American upland game birds. Pages 158-180 in Miller, F. L., and A. Gunn, eds. Symposium on census and inventory methods for population and habitats.
Index Terms: TX/Aves/Upland Groundbird/NASSN/NAHBT/NALV/NAPTC
Record #5510
- Martof, B. S. 1963. An effective technique for capturing stream-dwelling organisms. Copeia 1963:439-440.
Index Terms: TX/Reptilia/Amphibia/HBT/Wetlands/PTC/Trapping/Netting/NALV/NASSN/
Record #5520
- Massa, R., and A. Fedrigo. 1989. A new approach for compiling a winter bird atlas by means of point-counts. Ann. Zool. Fenn. 26:207-212.
Index Terms: TX/Aves/SSN/Winter/PTC/Point Count/NALV/NAHBT
Record #5530

Mastrota, F. N., R. H. Yahner, and G. L. Storm. 1990. Autumnal microhabitat use by small mammals in a mixed-oak forest irrigated with wastewater in central Pennsylvania. J. PA Acad. Sci. 64:73-77.

Index Terms: TX/Mammalia/Rodentia/Muridae/White-footed Mouse/Peromyscus leucopus/Southern Red-backed Vole/Clethrionomys gapperi/Insectivora/Masked Shrew/Sorex cinereus/Northern Short-tailed Shrew/Blarina brevicauda/LV/Habitat Use/SSN/Fall/HBT/Deciduous Forest/PTC/Trapping/Live-trap/Pitfall/
Record #5540

Mastrota, F. N., R. H. Yahner, and G. L. Storm. 1989. Small mammal communities in a mixed-oak forest irrigated with wastewater. Am. Midl. Nat. 122:388-393.

Index Terms: TX/Mammalia/Insectivora/Rodentia/Muridae/White-footed Mouse/Peromyscus leucopus/Southern Red-backed Vole/Clethrionomys gapperi/Masked Shrew/Sorex cinereus/Northern Short-tailed Shrew/Blarina brevicauda/Sorex/Tamias/Glaucomys/Zapus/Napaeozapus/Microtus/Vole/Chipmunk/Flying Squirrel/HBT/Deciduous Forest/SSN/Fall/LV/Abundance/Community/PTC/Trapping/Live-trap/Pitfall/
Record #5550

Mayfield, H. F. 1981. Problems in estimating population size through counts of singing males. Pages 220-224 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Upland Groundbird/Passerine/HBT/Forest/SSN/Breeding/Summer/PTC/Communication/Fixed-width Transect/NALV
Record #5560

Mayfield, H. F. 1975. Suggestings for calculating nest success. Wilson Bull. 87:456-466.

Index Terms: TX/Aves/Passerine/SSN/Breeding/Spring/Summer/LV/Nesting Success/NAHBT/NAPTC/
Record #5570

Mayot, P., S. Marchandea, and B. Scherrer. 1988. Comparison of three census methods for cock pheasants (Phasianus colchicus). Gibier Faune Sauvage 5:345-355.

Index Terms: TX/Aves/Upland Groundbird/Cock Pheasant/Phasianus colchicus/NASSN/NALV/NAHBT/NAPTC
Record #5580

McAuliffe, J. R. 1978. Biological survey and management of sport-hunted Bullfrog populations in Nebraska. Nebraska Game and Parks Commission, Lincoln, Nebraska. 78 pp.

Index Terms: TX/Amphibia/Salientia/Bullfrog/Rana catesbeiana/LV/Population/NAHBT/NASSN/NAPTC
Record #5590

- McCaffery, K. R. 1976. Statewide Wildlife Research: Pellet Survey Review. Wis. Dept. of Natural Resources. Wis. W-141-R-11. 19 pp.
Index Terms: TX/Mammalia/PTC/Pellet Index/NAHBT/NALV/NASSN/
Record #5600
- McCaffery, K. R. 1978. Statewide Wildlife Research: Snowshoe Hare Index. Wis. Dept. of Natural Resources. Wis. W-141-R-13. 4 pp.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/NAHBT/NALV/NASSN/NAPTC
Record #5610
- McComb, W. C., K. McGarigal, and R. G. Anthony. 1991. Differential vulnerability of small mammals and amphibians to two trap types and two trap baits in Pacific Northwest forests. Northwest Sci. 65:109-115.
Index Terms: TX/Mammalia/Rodentia/Insectivora/Amphibia/HBT/Coniferous Forest/PTC/Trapping/NALV/NASSN/
Record #5620
- McEwan, L. C., J. A. Kushlan, and O. L. Bass. 1978. Colonial bird monitoring in south Florida national parks. Everglades National Park. Tech. Rep. T-513. 27 pp.
Index Terms: TX/Aves/Wader/Shorebird/NAHBT/NALV/NASSN/NAPTC
Record #5630
- McGregor, P. K., and P. Byle. 1992. Individually distinctive bittern booms: Potential as a census tool. Bioacoustics 4:93-109.
Index Terms: TX/Aves/Wader/Bittern/Botaurus stellaris/PTC/Communication/NASSN/NALV/NAHBT
Record #5640
- McKay, D. O., and B. J. Verts. 1978. Estimates of some attributes of a population of Nuttall's Cottontails. J. Wildl. Manage. 42:159-168.
Index Terms: TX/Mammalia/Lagomorpha/Nuttall's Cottontail/Sylvilagus nuttallii/LV/Density/Relative Abundance/Population/HBT/Scrub/Shrub/SSN/Spring/Summer/Fall/Winter/PTC/Transect/Trapping/Live-trap
Record #5650
- McKee, B. H. 1942. Results for a bird banding station at Grand Canyon. Plateau 15:10-13.
Index Terms: TX/Aves/PTC/Banding/NAHBT/NALV/NASSN/
Record #5660

McKenzie, P. M. 1985. Indices of Mottled Duck abundance and habitat use in agricultural areas of southwestern Louisiana. M.S. thesis, Louisiana State Univ. 111 pp.
Index Terms: TX/Aves/Waterfowl/Mottled Duck/Anas fulvigula/LV/Abundance/Habitat Use/HBT/Agriculture/NASSN/NAPTC
Record #5670

McKinstry, D. M., M. A. Lethaby, and H. N. Cunningham. 1991. Amphibians and reptiles of Presque Isle State Park, Erie County, Pennsylvania. J. PA Acad. Sci. 65:17-23.
Index Terms: TX/Amphibia/Salientia/Caudata/Reptilia/Lacertilia/Testudines/Serpentes/SSN/Spring/Summer/Fall/HBT/Wetlands/Deciduous Forest/Coniferous Forest/Scrub/Shrub/LV/Relative Abundance/Distribution/PTC/Trapping/Funnel-trap/Pitfall/Drift Fence/Road Census/Road Kill
Record #5680

McNicholl, M. K. 1981. Caution needed in use of playbacks to census bird populations. Am. Birds 35:235-236.
Index Terms: TX/Aves/Upland Groundbird/Blue Grouse/Dendragapus obscurus/SSN/Spring/Breeding/LV/Population/PTC/Conspecific Recording/Communication/NAHBT/
Record #5690

Medica, P. A., C. L. Lyons, and F. B. Turner. 1986. Tapping: A technique for capturing tortoises. Herpetol. Rev. 7:15-16.
Index Terms: TX/Reptilia/Testudines/PTC/Sounding/NAHBT/NALV/NASSN/
Record #5700

Melchior, H. R., ed. 1976. Biological survey of the proposed Kobuk Valley National Monument. Biology and Resources Management Program, Univ AK CPSU, Univ. of Alaska, Fairbanks. Final Report CX-9000-3-0136. 215 pp.
Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC
Record #5710

Melchior, H. R., ed. 1979. Biological survey of the Bering Land Bridge National Monument. Biology and Resource Management Program, Alaska CPSU, Univ. of Alaska, Fairbanks. Revised Final Report CX-9000-3-0316.
Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/
Record #5720

Melquist, W. E., and M. G. Hornocker. Methods and techniques for studying and censusing River Otter populations. Univ. Idaho For. Wildl. and Range Exp. Sta. Tech. Rep. 8. 17 pp.
Index Terms: TX/Mammalia/Carnivora/River Otter/Lutra canadensis/LV/Population/NAHBT/NASSN/NAPTC
Record #5730

Mengak, M. T., and D. C. Guynn Jr. 1987. Pitfalls and snap-traps for sampling small mammals and herptofauna. *Am. Midl. Nat.* 118:284-288.

Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/Reptilia/Testudines/Lacertilia/Serpentes/Amphibia/Salientia/Caudata/HBT/Coniferous Forest/LV/Relative Abundance/SSN/Winter/Summer/Fall/PTC/Trapping/Pitfall/Snap-trap/Drift Fence/Record #5740

Menkens, G. E. Jr., and S. H. Anderson. Sampling problems in estimating small mammal population size. Pages 262-266 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. *Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the symposium, July 19-21, 1988, Flagstaff, Arizona.*

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/NAHBT/NASSN/NAPTC
Record #5750

Meyers, J. M., and K. L. Pardieck. 1993. Evaluation of three elevated mist-net systems for sampling birds. *J. Field Ornithol.* 64:270-277.

Index Terms: TX/Aves/PTC/Netting/Mist-net/NAHBT/NASSN/NALV
Record #5760

Mickelson, P. G. 1975. Breeding biology of Cackling Geese and associated species on the Yukon-Kuskokwim Delta, Alaska. *Wildl. Monogr.* 45:1.

Index Terms: TX/Aves/Waterfowl/Cackling Geese/Branta hutchinsii/SSN/Breeding/Spring/Summer/HBT/Wetlands/LV/Breeding Success/PTC/Aerial Census/Ground Count
Record #5770

Mikol, S. A. 1980. Field guidelines for using transects to sample nongame bird populations. U.S. Dept. Inter., Fish and Wildl. Serv., Fort Collins, CO. FWS/OBS-80/58. 26 pp.

Index Terms: TX/Aves/LV/Population/PTC/Transect/NAHBT/NASSN/
Record #5780

Mills, R. H. 1964. Squirrel habitat and population evaluation on Thistlethwaite Game Management Area in south central Louisiana. M.S. thesis, Louisiana State Univ. 49 pp.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Gray Squirrel/Sciurus carolinensis/LV/Habitat Use/Population/NASSN/NAHBT/NAPTC
Record #5790

- Minser, W. G., and J. C. Cole. 1991. The feasibility of nightlighting for monitoring brood production of Wood Ducks on rivers. Proc. Annu. Conf. Southeast. Assoc. Fish Wildl. Agencies 45:167-174.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/
Breeding Success/Nesting Success/HBT/Riparian/PTC/
Nightlighting/NASSN
Record #5800
- Morozov, N. S. 1989. Comparison of bird census results by transect and mapping methods done in grey alder forest of Valdai. Zool. Zh. 68:114-124.
Index Terms: TX/Aves/HBT/Deciduous Forest/PTC/Transect/Spot-mapping/NALV/NASSN
Record #5810
- Morrison, M. L., R. W. Mannan, and G. L. Dorsey. 1981. Effects of number of circular plots on estimates of avian density and species richness. Pages 405-408 in Ralph, C. J., and J. M. Scott, eds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/LV/Density/Community/PTC/Variable Circular-plot/NASSN/NAHBT
Record #5820
- Morrison, M. L., and B. G. Marcot. 1984. Expanded use of the variable circular-plot census method. Wilson Bull. 96:313-315.
Index Terms: TX/Aves/LV/Density/PTC/Variable Circular-plot/NASSN/NAHBT
Record #5830
- Morton, S. R., K. G. Brennan, and M. D. Armstrong. 1993. Distribution and abundance of Brolgas and Black-necked Storks in the Alligaor Rivers region, Northern Territory. Emu 93:88-92.
Index Terms: TX/Aves/Wader/Brolga/Grus rubicunda/Black-necked Stork/Ephippiorhynchus asiaticus/LV/Distribution/Abundance/PTC/Aerial Census/NASSN/NAHBT
Record #5840
- Mosby, H. L., ed. 1963. Wildlife Investigational Techniques. 2nd ed. The Wildl. Soc., Washington, D.C. 419pp.
Index Terms: NATX/NAHBT/NAPTC/NALV/NASSN/
Record #5850
- Moser, T. J., and D. A. Graber. 1990. Stream brood surveys as indicators of Wood Duck production. Pages 205-208 in 1988 North American Wood Duck symposium.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/
Breeding Success/HBT/Wetlands/NASSN/NAPTC
Record #5860

- Moulton, J. M. 1954. Notes on the natural history, collection, and maintenance of the salamander, Ambystoma maculatum. Copeia 1954:64-65.
Index Terms: TX/Amphibia/Caudata/Ambystoma maculatum/Tiger Salamander/PTC/Netting/Trapping/NAHBT/NALV/NASSN/
Record #5870
- Moyles, D. L. J., and L. A. Lester. 1987. Gray Partridge in Alberta: Present status and experiences with census techniques. Pages 91-106 in Kimmel, R. O., J. W. Schultz, and G. J. Mitchell, eds. Proceedings of Perdix IV: Gray partridge workshop.
Index Terms: TX/Aves/Upland Groundbird/Gray Partridge/Perdix perdix/NALV/NASSN/NAHBT/NAPTC
Record #5880
- Muller, Y. 1987. Censuses using point count abundance indices (P.C.A.I.), conversion to population densities and a test of the method. Alauda 55:211-226.
Index Terms: TX/Aves/LV/Density/Population/PTC/Point Count/IPA/NASSN/NAHBT
Record #5890
- Munn, C. A. 1991. Tropical canopy netting and shooting lines over tall trees. J. Field Ornithol. 62:454-463.
Index Terms: TX/Aves/HBT/Forest/PTC/Netting/NALV/NASSN/
Record #5900
- Myrberget, S. 1976. Some census methods for Willow Grouse. Sterna 15:219-231.
Index Terms: TX/Aves/Upland Groundbird/Willow Grouse/Willow Ptarmigan/Lagopus lagopus/NALV/NAHBT/NASSN/NAPTC
Record #5910
- National Park Service. 1984. Bald Eagle/Osprey inventory. Isle Royale National Park, Michigan. Resource Management Report No. 4. 9 pp.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/Osprey/Pandion haliaetus/NAHBT/NAPTC/NALV/NASSN/
Record #5920
- Neill, W. T. 1956. Another device for collecting lizards. Copeia 1956:124-125.
Index Terms: TX/Reptilia/Lacertilia/PTC/Netting/Trapping/NAHBT/NALV/NASSN/
Record #5930

Nelson, D. 1952. Mourning Dove Studies: Mourning Dove Study in Georgia. GA. State Game and Fish Commission. GA. W-017-R-05. 132 pp.

Index Terms: TX/Aves/Upland Groundbird/Mourning Dove/Zenaida macroura/NAHBT/NAPTC/NALV/NASSN/
Record #5940

Nesbitt, W. H., and L. G. Webb. 1966. Statewide Wildlife Research: Status of the Ruffed Grouse, Bonasa unbellus munticola Todd, in South Carolina. S.C. Div. of Game and Boating. S.C. W-038-R-02. 65 pp.

Index Terms: TX/Aves/Upland Groundbird/Ruffed Grouse/Bonasa unbellus/PTC/Communication/Drumming/NAHBT/NALV/NASSN/
Record #5950

Newman, D. E. 1959. Factors influencing the winter roadside counts of cottontails. J. Wildl. Manage. 23:290-294.

Index Terms: TX/Mammalia/Lagomorpha/Cottontail/Sylvilagus/SSN/
Winter/PTC/Road Census/NAHBT/NALV/
Record #5960

Nichols, J. D. 1992. Capture-recapture models: Using marked animals to study population dynamics. Bioscience 42:94-102.

Index Terms: LV/Population/PTC/Marking/Capture-recapture/NATX/
NAHBT/NASSN/
Record #5970

Nichols, J. D., B. R. Noon, S. L. Stokes, and J. E. Hines. 1981. Remarks on the use of mark-recapture methodology in estimating avian population size. Pages 121-136 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Waterfowl/Upland Groundbird/Passerine/
SSN/Spring/Summer/Fall/LV/Population/PTC/Marking/Capture-
recapture/NAHBT/
Record #5980

Nichols, J. D., R. E. Tomlinson, and G. Waggenerman. 1986. Estimating nest detection probabilities for White-winged Dove nest transects in Tamaulipas, Mexico. Auk 103:825-828.

Index Terms: TX/Aves/Upland Groundbird/White-winged Dove/
Zenaida asiatica/PTC/Nest Count/Transect/NASSN/NALV/NAHBT
Record #5990

Nilsson, S. G. 1982. Seasonal changes in census efficiency of birds at marshes and fen mires in southern Sweden. Holarct. Ecol. 5:55-60.

Index Terms: TX/Aves/HBT/Wetlands/NASSN/NALV/NAPTC
Record #6000

- Nixon, C. M., W. R. Edwards, and L. L. Eberhardt. 1967. Estimating squirrel abundance from live trapping data. J. Wildl. Manage. 31:96-101.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Fox Squirrel/Sciurus niger/Eastern Gray Squirrel/Sciurus carolinensis/SSN/Summer/Fall/HBT/Deciduous Forest/LV/Abundance/PTC/Trapping/Live-trap/Marking/Capture-recapture/
Record #6010
- North, C. A. 1969. Marking methods for House Sparrows. Ring 60:238.
Index Terms: TX/Aves/Passerine/House Sparrow/Passer domesticus/PTC/Marking/Banding/NAHBT/NALV/NASSN/
Record #6020
- Novoa, C. 1992. Spring vocalization by Pyrenean Gray Partridges (Perdix perdix hispaniensis) to tape-recorded calls. Gibier Faune Sauvage 9:53-69.
Index Terms: TX/Aves/Upland Groundbird/Gray Partridge/Perdix perdix/SSN/Spring/Breeding/PTC/Communication/Conspecific Recording/NAHBT/NALV
Record #6030
- Nowicki, T. 1974. A census of screech owls using tape-recorded calls. Jack-Pine Warbler 52:98-101.
Index Terms: TX/Aves/Owl/Eastern Screech Owl/Otus asio/PTC/Conspecific Recording/Communication/NAHBT/NALV/NASSN/
Record #6040
- O'Connor, R. J. 1990. The common birds census in the United Kingdom. U.S. Fish Wildl. Serv. Biol. Rep. 90:47-53.
Index Terms: TX/Aves/NASSN/NALV/NAHBT/NAPTC
Record #6050
- O'Connor, R. J., and R. K. Hicks. 1980. The influence of weather conditions on the detection of birds during common birds census fieldwork. Bird Study 27:137-151.
Index Terms: TX/Aves/NASSN/NALV/NAHBT/NAPTC
Record #6060
- O'Farrell, M. J., D. W. Kaufman, and D. W. Lundohl. 1977. Use of live-trapping with the assessment line method. J. Mammal. 58:575-582.
Index Terms: TX/Mammalia/Rodentia/Muridae/Old-field Mouse/Peromyscus polionotus/Hispid Cotton Rat/Sigmodon hispidus/SSN/Summer/HBT/Desert/Scrub/Shrub/LV/Density/PTC/Assessment Line/Trapping/Live-trap/
Record #6070

O'Meara, T. E. 1981. A field test of two density estimators for transect data. Pages 193-196 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/LV/Density/HBT/Coniferous Forest/SSN/Breeding/Spring/Summer/PTC/Spot-mapping/Finnish Line Transect/Variable-width Transect/
Record #6080

Oelke, H. 1981. Limitations of estimating bird populations because of vegetation structure and composition. Pages 316-321 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Waterfowl/Upland Groundbird/Wader/Passerine/HBT/Riparian/Wetlands/Agriculture/LV/Population/PTC/Spot-mapping/NASSN/
Record #6090

Oelke, H. 1981. Limitations of the mapping method. Pages 114-118 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/HBT/Deciduous Forest/PTC/Netting/Mist-net/Spot-mapping/NALV/NASSN/
Record #6100

Oelklaus, W. F., III. 1976. Chukar Partridge dispersion along the middle and lower Snake and Columbia Rivers. Idaho Coop. Wildl. Res. Unit. M.S. Thesis, Univ of Idaho. 65 pp. M.S. Thesis, University of Idaho.

Index Terms: TX/Aves/Upland Groundbird/Chukar Partridge/Alectoris chukar/LV/Distribution/NAHBT/NAPTC/NASSN/
Record #6110

Okoniewski, J. C., and R. E. Chambers. 1984. Coyote vocal response to an electronic siren and human howling. J. Wildl. Manage. 48:217-221.

Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/HBT/Mixed Forest/SSN/Summer/Fall/PTC/Trapping/Conspecific Recording/Communication/NALV
Record #6120

Opdam, P., and R. Reijnen. 1980. Census of breeding birds by the mapping method: A methodological census study. Proc. Int. Ornithol. Congr. 17:1386.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/PTC/Spot-mapping/NAHBT/NALV
Record #6130

Ornelas, J. F., M. del Coro Arizmendi, L. Marquez-Valdelamar, M. de Lourdes Navarijo, and H. A. Berlanga. 1993. Variability profiles for line transect bird censuses in a tropical dry forest in Mexico. Condor 95:422-441.

Index Terms: TX/Aves/HBT/Forest/PTC/Line Transect/NASSN/NALV
Record #6140

Oschadleus, H. D. 1991. Nest-trapping masked weavers. Safring News 20:27-31.

Index Terms: TX/Aves/Passerine/Masked Weavers/PTC/Trapping/NAHBT/NALV/NASSN/
Record #6150

Osmundson, C. L., and S. W. Buskirk. 1993. Size of food caches as a predictor of Beaver colony size. Wildl. Soc. Bull. 21:64-69.

Index Terms: TX/Mammalia/Rodentia/Castoridae/Beaver/Castor canadensis/LV/Population/PTC/Cache Index/NASSN/NAHBT
Record #6160

Overton, W. S. 1971. Estimating the number of animals in wildlife populations. Pages 402-455 in Giles, R. H. Jr., ed. Wildlife Management Techniques. Third edition: Revised. The Wildlife Society, Washington, D.C.

Index Terms: LV/Population/NATX/NAHBT/NAPTC/NASSN/
Record #6170

Pack, J. C., H. R. Sanderson, and R. W. Donohoe. 1971. Comparison of Gray Squirrel census techniques. Trans. Northeast. Sect. Wildl. Soc. Northeast. Fish Wildl. Conf. 28: 145-158.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Gray Squirrel/Sciurus carolinensis/NASSN/NAHBT/NALV/NAPTC
Record #6180

Paige, K. N., L. A. Mink, and V. R. McDaniel. 1985. A broadband ultrasonic field detector for monitoring bat cries. J. Wildl. Manage. 49:11-13.

Index Terms: TX/Mammalia/Chiroptera/LV/Presence/HBT/Riparian/SSN/Spring/Summer/Fall/PTC/Communication/
Record #6190

Pakkala, T., J. Tiainen, H. Linden, J. Piironen, M. Vickholm, and E. Virolainen. 1983. A comparison of different methods in censusing the Hazel Grouse. Ann. Zool. Fenn. 20:25-29.

Index Terms: TX/Aves/Upland Groundbird/Hazel Grouse/Bonasa bonasia/NASSN/NAHBT/NALV/NAPTC
Record #6200

Palmgren, P. 1987. On the constancy of annually repeated bird censuses. *Ornis Fenn.* 64:85-89.

Index Terms: TX/Aves/NASSN/NAHBT/NALV/NAPTC

Record #6210

Pankakoski, E. 1979. The cone trap--a useful tool for index trapping of small mammals. *Annales Zool. Fennici* 16:144-150.

Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Trapping/Cone-trap/Funnel-trap/NAHBT/NALV/NASSN/

Record #6220

Pardieck, K., and R. B. Waide. 1992. Mesh size as a factor in avian community studies using mist nets. *J. Field Ornithol.* 63:250-255.

Index Terms: TX/Aves/LV/Community/PTC/Netting/Mist-net/NAHBT/NASSN/

Record #6230

Parker, J. W. 1972. A mirror and pole device for examining high nests. *Bird-Banding* 43:216-218.

Index Terms: TX/Aves/LV/Nesting Success/PTC/Nest Count/NAHBT/NASSN/

Record #6240

Parker, W. S. 1976. Population estimates, age structure, and denning habitats of whipsnakes, Masticophis t. taeniatus, in a northern Utah Atriplex-Sarcobatus community. *Herpetologica* 32: 53-57.

Index Terms: TX/Reptilia/Serpentes/Whipsnake/Masticophis taeniatus/LV/Density/Population/Habitat Use/HBT/Grassland/SSN/Fall/Spring/PTC/Marking

Record #6250

Parr, E. D., and M. D. Scott. 1978. Analysis of roosting counts as an index to Wood Duck population size. *Wilson Bull.* 90:423-437.

Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/Abundance/Population/SSN/Fall/Summer/HBT/Deciduous Forest/Wetlands/PTC/Roost Count/

Record #6260

Paul, J. T., Jr., and R. R. Roth. 1983. Accuracy of a version of the spot-mapping census method. *J. Field Ornithol.* 54:42-49.

Index Terms: TX/Aves/PTC/Spot-mapping/NASSN/NAHBT/NALV

Record #6270

Pelton, M. R. 1990. Nonintrusive monitoring of game mammal populations on an international biosphere reserve. Trans. Conr. Union Game Biol. 19:340.
Index Terms: TX/Mammalia/LV/Population/NAHBT/NAPTC/NASSN/
Record #6280

Pepin, D., and M. Birkan. 1981. Comparative total- and strip-census estimates of hares and partridges. Acta Oecol. Oecol. Appl. 2:151-160.
Index Terms: TX/Aves/Upland Groundbird/Mammalia/Lagomorpha/PTC/Strip Transect/NALV/NASSN/NAHBT
Record #6290

Pepin, D., and M. Birkan. 1981. Comparative total- and strip-census estimates of hares and partridges. Pages 27-42 in Off. Natl. Chasse Bull. Mens. Numero Sci. Tech. Nov.
Index Terms: TX/Aves/Upland Groundbird/Mammalia/Lagomorpha/PTC/Strip Transect/NASSN/NAHBT/NALV
Record #6300

Pepler, D., and R. Martin. 1993. Raptor road counts: Are they reliable? Promerops No. 208:5.
Index Terms: TX/Aves/Raptor/PTC/Road Census/NASSN/NALV/NAHBT
Record #6310

Perry, H. R. Jr., G. B. Pardue, F. S. Barkalow, and R. J. Monroe. 1977. Factors affecting trap responses of the Gray Squirrel. J. Wildl. Manage. 41:135-143.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Eastern Gray Squirrel/Sciurus carolinensis/HBT/Wetlands/Deciduous Forest/Mixed Forest/SSN/Summer/Winter/PTC/Trapping/Live-trap/NALV
Record #6320

Peterhofs, E., and J. Friednieks. 1989. Problems of applying the line-transect method without repeated counts when the breeding season is long. Ann. Zool. Fenn. 26:181-184.
Index Terms: TX/Aves/SSN/Breeding/Summer/Spring/PTC/Line Transect/NALV/NAHBT
Record #6330

Peterjohn, W. T., J. Patterson, G. Barrett, and M. Farrell. 1981. Comparative accuracy of population estimators for enclosed small mammal populations. Acta Theriol. 26.
Index Terms: TX/Mammalia/Rodentia/Muridae/Mus musculus/House Mouse/Microtus pennsylvanicus/Meadow Vole/LV/Population/HBT/Grassland/NAPTC/NASSN
Record #6340

Peterson, C. L., R. F. Wilkinson, D. Moll, and T. Holder. 1992. Estimating the number of female Ambystoma annulatum (Caudata: Ambystomatidae) based on oviposition. Southwest. Nat. 37:425-426.

Index Terms: TX/Amphibia/Caudata/NASSN/NALV/NAHBT/NAPTC
Record #6350

Peterson, M. K. 1980. A comparison of small mammal populations sampled by pitfall and live-traps in Durango, Mexico. Southwestern Naturalist 25:139-142.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/PTC/Trapping/Live-trap/Pitfall/NAHBT/NASSN/
Record #6360

Petokas, P. J., and M. M. Alexander. 1979. A new trap for basking turtles. Herp. Review 10:90.

Index Terms: TX/Reptilia/Testudines/Painted Turtle/Chrysemys picta/HBT/Wetlands/SSN/Spring/Summer/Fall/PTC/Trapping/NALV/
Record #6370

Petraborg, W. H., E. G. Wellein, and V. E. Gunvalson. 1953. Roadside drumming counts: A spring census method for Ruffed Grouse. J. Wildl. Manage. 17:292-295.

Index Terms: TX/Aves/Upland Groundbird/Ruffed Grouse/Bonasa umbellus/SSN/Breeding/Spring/LV/Population/Relative Abundance/HBT/Coniferous Forest/Mixed Forest/Deciduous Forest/PTC/Road Census/Communication
Record #6380

Petryszyn, Y., and E. L. Cockrum. 1978. A survey of the mammals of the Coronado National Memorial. Pages 95-104 Univ. AZ. CPSU Tech. Rep. 5.

Index Terms: TX/Mammalia/LV/Community/NAHBT/NAPTC/NASSN/
Record #6390

Petticrew, B. G., and R. M. F.S. Sadlier. 1970. The use of index trap lines to estimate population numbers of deermice (Peromyscus maniculatus) in a forest environment in British Columbia. Can. J. Zool. 48:385.

Index Terms: TX/Mammalia/Rodentia/Deer Mouse/Peromyscus maniculatus/HBT/Coniferous Forest/Shrub/Scrub/LV/Population/Density/PTC/Trapping/Live-trap/Grid/Assessment Line/NASSN/
Record #6400

Pinkoski, B. C. 1978. Habituation of adult Eastern Bluebirds to a nest-box trap. Bird-Banding 49:125.

Index Terms: TX/Aves/Passerine/Eastern Bluebird/Sialia sialis/SSN/Breeding/Spring/Summer/PTC/Trapping/Nest Count/NAHBT/NALV/
Record #6410

- Plantrich, R. F. 1990. Monitoring of Golden Eagle nests at Santa Monica Mountains National Recreation Area. Pages 49-56 in C. van Riper, et al., eds. Examples of resource inventory and monitoring in National Parks of California. NPS Trans and Proc 8.
Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/LV/Nesting Success/Breeding Success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC
Record #6420
- Platt, J. B. 1973. Habitat and time utilization of a pair of nesting Sharp-shinned Hawks (Accipiter striatus velox)--a telemetry study. M.S. thesis, Brigham Young Univ., Provo, Utah. 42 pp.
Index Terms: TX/Aves/Raptor/Sharp-shinned Hawk/Accipiter striatus/LV/Habitat Use/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
Record #6430
- Plummer, M. V. 1979. Collecting and Marking. In Harless, M., and H. Morlock, eds. Turtles: Research and Perspectives. Wiley and Sons, New York. 718pp.
Index Terms: TX/Reptilia/Testudines/PTC/Marking/Netting/Trapping/NAHBT/NALV/NASSN/
Record #6440
- Plumpton, D. L., and R. S. Lutz. 1992. Multiple-capture techniques for Burrowing Owls. Wildl. Soc. Bull. 20:426-428.
Index Terms: TX/Aves/Owl/Burrowing Owl/Athene cunicularia/SSN/Summer/Breeding/PTC/Trapping/Live-trap/Banding/NALV/NAHBT
Record #6450
- Pomeroy, D. E., and B. Tengecho. 1986. A method of analysing bird distributions. Afr. J Ecol. 24:243-253.
Index Terms: TX/Aves/LV/Distribution/NASSN/NAHBT/NAPTC
Record #6460
- Porter, D. K. 1973. Accuracy in censusing breeding passerines on the short-grass prairie. M.S. thesis, Colorado State Univ., Fort Collins. 107 pp.
Index Terms: TX/Aves/Passerine/HBT/Grassland/SSN/Breeding/NALV/NAPTC
Record #6470
- Portnoy, J. W. 1980. Censusing methods for gulf coast waterbirds. Trans. Linnean Soc. New York 9:127-134.
Index Terms: TX/Aves/Wader/Shorebird/NAHBT/NALV/NASSN/NAPTC
Record #6480

- Postovit, H. R. 1979. Population estimates of breeding raptors in North Dakota Badlands. M.S. thesis, North Dakota State Univ., Fargo. 55 pp.
Index Terms: TX/Aves/Raptor/LV/Population/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
Record #6490
- Postupalsky, S. 1974. Raptor reproductive success: Some problems with methods, criteria, and terminology. in Hamerstrom, F. N., Jr., B. E. Harrell, and R. R. Olendorff, eds. Management of Raptors. Raptor Res. Found., Vermillion, S.D.
Index Terms: TX/Aves/Raptor/LV/Breeding Success/NAHBT/NASSN/NAPTC
Record #6500
- Pough, F. H. 1970. A quick method for permanently marking snakes and turtles. Herpetologica 26:428-430.
Index Terms: TX/Reptilia/Serpentes/Testudines/PTC/Marking/NAHBT/NALV/NASSN/
Record #6510
- Pouliquen, O., M. Leshman, and T. D. Redhead. 1990. Effects of radio collars on wild mice, Mus domesticus. Can. J. Zool. 68: 1607-1609.
Index Terms: TX/Mammalia/Rodentia/Mouse/Mus domesticus/NAHBT/NAPTC/NALV/NASSN/
Record #6520
- Przybysz, J. 1991. Comments on the methodology of cormorant counts. Notatki Ornitol. 32:115-118.
Index Terms: TX/Aves/Waterfowl/NAHBT/NASSN/NALV/NAPTC
Record #6530
- Pucek, Z. 1969. Trap response and estimation of numbers of shrews in removal catches. Acta Theriol. 14:403-426.
Index Terms: TX/Mammalia/Insectivora/Shrew/LV/Abundance/PTC/Trapping/Removal/NAHBT/NASSN/
Record #6540
- Puigcerver, M., and J. D. Rodriguez-Teijeiro. 1984. Relationships between some activity variables and census in the Black-headed Gull (Larus ridibundus) in regard to certain meteorological parameters. Misc. Zool. 8:225-235.
Index Terms: TX/Aves/Shorebird/Black-headed Gull/Larus ridibundus/NASSN/NALV/NAHBT/NAPTC
Record #6550

Pyke, G. H. 1983. Analysis of an instantaneous census method for heathland birds. Aust. Wildl. Res. 10:521-526.

Index Terms: TX/Aves/Upland Groundbird/HBT/Grassland/Wetlands/NASSN/NALV/NAPTC
Record #6560

Quy, R. J., D. P. Cowan, and T. Swinney. 1993. Tracking as an activity index to measure gross changes in Norway Rat populations. Wildl. Soc. Bull. 21:122-127.

Index Terms: TX/Mammalia/Rodentia/Muridae/Norway Rat/Rattus norvegicus/LV/Population/SSN/Winter/HBT/Agriculture/PTC/Tracking/
Record #6570

Rajala, P. 1983. Population trends in the mountain hare in northern Finland as related to the 1979-81 roadside census. Finn. Game Res. 41:5-12.

Index Terms: TX/Mammalia/Lagomorpha/LV/Population/PTC/Road Census/NASSN/NAHBT
Record #6580

Ralph, C. J., and J. M. Scott, eds. 1981. Estimating Numbers of Terrestrial Birds. Allen Press, Lawrence, Kansas.

Index Terms: TX/Aves/LV/Abundance/Density/Population/Community/Nesting Success/Breeding Success/PTC/Transect/Point Count/Variable Circular-plot/Spot-mapping/Breeding Bird Atlas/Breeding Bird Survey/Christmas Bird Count/Recording/Communication/NAHBT/NASSN/
Record #6590

Ramotnik, C. A., and N. J. Scott Jr. 1988. Habitat requirements of New Mexico's endangered salamanders. Pages 54-63 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.

Index Terms: TX/Amphibia/Caudata/SSN/Breeding/HBT/Mixed Forest/LV/Density/PTC/Transect/Log-turning/
Record #6600

Ramsey, F. L., and J. M. Scott. 1979. Estimating population densities from variable circular-plot surveys. Pages 155-181 in Cormack, R. M., G. P. Patel, and D. S. Rolson, eds. Sampling Biological Populations. Int. Co-op Publ. House, Fairfield, MD.

Index Terms: LV/Density/PTC/Variable Circular-plot/NATX/NAHBT/NASSN/
Record #6610

Raphael, M. G. 1987. Estimating relative abundance of forest birds: Simple versus adjusted counts. Wilson Bull. 99:125-131.

Index Terms: TX/Aves/HBT/Mixed Forest/LV/Density/Relative Abundance/SSN/Breeding/Spring/Summer/PTC/Variable Circular-plot
Record #6620

Raphael, M. G., and R. H. Barrett. 1984. Diversity and abundance of wildlife in late successional Douglas-fir forests. in New Forests for a Changing World. Proceedings 1983 Convention of the Society of American Foresters. Page 650 pp.

Index Terms: LV/Community/Abundance/HBT/Coniferous Forest/
NATX/NAPTC/NASSN/
Record #6630

Raphael, M. G., and R. H. Barrett. 1981. Methodologies for a comprehensive wildlife survey and habitat analysis in an old-growth Douglas-fir forests. Cal-Neva Wildlife 1981:106-121.

Index Terms: LV/Community/Habitat Use/HBT/Coniferous Forest/
NAPTC/NASSN/NATX/
Record #6640

Raphael, M. G., and K. V. Rosenberg. 1983. An integrated approach to wildlife inventories in forested habitats. In Bell, J. F., and T. Attenbury, eds. Renewable resource inventories and monitoring changes and trends: Proceedings of an international conference, Corvallis, Oregon, August 15-19, 1983. Society of American Foresters 83-14.

Index Terms: HBT/Forest/LV/Community/NATX/NAPTC/NASSN/
Record #6650

Raphael, M. G., C. A. Taylor, and R. H. Barrett. 1986. Sooted aluminum track stations record flying squirrel occurrence. Pacific Southwest Forest and Range Experiment Station. Res. Note PSW-384.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Southern Flying Squirrel/Glaucomys volans/LV/Presence/PTC/Tracking/Sooted Aluminum Track Station/NAHBT/NASSN/
Record #6660

Rappole, J. H., W. J. McShea, and J. Vega-Rivera. 1993. Evaluation of two survey methods in upland avian breeding communities. J. Field Ornithol. 64:55-70.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
NALV
Record #6670

Rappole, J. H., and A. R. Tipton. 1991. New harness design for attachment of radio transmitters to small passerines. J. Field Ornithol. 62:335-337.

Index Terms: TX/Aves/Passerine/NAHBT/NAPTC/NALV/NASSN/
Record #6680

Raveling, D. G. 1966. Factors affecting age ratios of samples of Canada Geese caught with cannon nets. J. Wildl. Manage. 30: 682-691.

Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/
PTC/Netting/NAHBT/NALV/NASSN/
Record #6690

Raynor, G. S. 1983. A method for evaluating quality of coverage in breeding bird atlas projects. Am. Birds 37:9-13.

Index Terms: TX/Aves/SSN/Breeding/Summer/Spring/PTC/Breeding
Bird Atlas/NAHBT/NALV
Record #6700

Recher, H. F. 1988. Counting terrestrial birds: Use and application of census procedures in Australia. Aust. Zool. Rev. No. 1:25-45.

Index Terms: TX/Aves/NAHBT/NASSN/NALV/NAPTC
Record #6710

Recht, M. A. 1981. A burrowing-occluding trap for tortoises. J. Wildl. Manage. 45:557-559.

Index Terms: TX/Reptilia/Testudines/Bolson Tortoise/Gopherus flavomarginatus/PTC/Trapping/NAHBT/NALV/NASSN/
Record #6720

Redmond, R. L., T. K. Bicak, and D. A. Jenni. 1981. An evaluation of breeding season census techniques for Long-billed Curlews (Numenius americanus). Pages 197-201 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Shorebird/Long-billed Curlew/Numenius americanus/SSN/Breeding/Spring/Summer/LV/Density/HBT/Grassland/
PTC/Spot-mapping/Variable-width Transect/Finnish Line Transect/
Record #6730

Reed, M. J. 1987. Microhabitat use of small mammals revealed by radiotelemetry and live-trapping. M.S. thesis, Univ. Washington. 64 pp.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Habitat Use/
PTC/Trapping/Live-trap/NAHBT/NASSN/
Record #6740

Reed, T. M., and D. R. Langslow. 1987. Diurnal variability and census estimates for waders. Acta Oecol. Oecol. Gen. 8:311.
Index Terms: TX/Aves/Wader/NASSN/NALV/NAHBT/NAPTC
Record #6750

Rees, E. C., M. Owen, H. Gitay, and S. Warren. 1990. The fate of plastic leg rings used on geese and swans. Wildfowl 41:43-52.
Index Terms: TX/Aves/Waterfowl/PTC/Banding/NAHBT/NALV/NASSN/
Record #6760

Regnell, S. 1981. How to census breeding populations of the Horned Grebe, (Podiceps auritus). Var Fagelvarld 40:23-32.
Index Terms: TX/Aves/Waterfowl/Horned Grebe/Podiceps auritus/
SSN/Breeding/Spring/Summer/LV/Population/NAHBT/NAPTC
Record #6770

Reinecke, K. J., M. W. Brown, and J. R. Nassar. 1992. Evaluation of aerial transects for counting wintering Mallards. J. Wildl. Manage. 56:515-525.
Index Terms: TX/Aves/Waterfowl/Mallard/Anas platyrhynchos/SSN/
Winter/LV/Population/Habitat Use/HBT/Wetlands/Agriculture/PTC/
Aerial Census/Transect/
Record #6780

Renzulli, C. B., J. F. Flowers, and R. H. Tamarin. 1980. The effects of trapping design on demographic estimates in the Meadow Vole. Am. Midl. Nat. 104:397-401.
Index Terms: TX/Mammalia/Rodentia/Muridae/Meadow Vole/Microtus pennsylvanicus/LV/Density/Population/PTC/Trapping/NAHBT/NASSN/
Record #6790

Reudet, D. 1987. Census of Red-legged Partridge in provence using the mapping method. Acta Oecol. Oecol. Gen. 8:314-315.
Index Terms: TX/Aves/Upland Groundbird/Red-legged Partridge/Alectoris rufa/PTC/Spot-mapping/NASSN/NAHBT/NALV
Record #6800

Reynolds, R. T. 1987. Census of Flammulated Owls. U.S. For. Serv. Gen. Tech. Rep. RM-142:308-309.
Index Terms: TX/Aves/Owl/Flammulated Owl/Otus flammeolus/
NAHBT/NASSN/NALV/NAPTC
Record #6810

Reynolds, R. T., and B. D. Linkhart. 1984. Methods and materials for capturing and monitoring Flammulated Owls. Great Basin Nat. 44:49-51.
Index Terms: TX/Aves/Owl/Flammulated Owl/Otus flammeolus/PTC/
Trapping/Netting/NAHBT/NALV/NASSN/
Record #6820

Reynolds, R. T., J. M. Scott, and R. A. Nussbaum. 1980. A variable circular-plot method for estimating bird numbers. Condor 82:309-313.

Index Terms: TX/Aves/LV/Density/HBT/Coniferous Forest/Mixed Forest/Riparian/Shrub/Scrub/SSN/Spring/Summer/Fall/Winter/PTC/Variable Circular-plot/
Record #6830

Ricci, J. C. 1989. A spring census method for Red-legged Partridges (Alectoris rufa L.) by the kilometric index of abundance (IKAPVR) in the French Mediterranean. Gibier Faune Sauvage 6:145-158.

Index Terms: TX/Aves/Upland Groundbird/Red-legged Partridge/Alectoris rufa/SSN/Spring/LV/Abundance/NAHBT/NAPTC
Record #6840

Rice, C. G., and P. Kalk. 1991. Evaluation of liquid nitrogen and dry ice-alcohol refrigerants for freeze marking three mammal species. Zoo Biol. 10:262-272.

Index Terms: TX/Mammalia/PTC/Marking/NAHBT/NALV/NASSN/
Record #6850

Richards, D. G. 1981. Environmental acoustics and censuses of singing birds. Pages 297-300 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/HBT/Forest/SSN/Breeding/Spring/Summer/PTC/Communication/NALV/
Record #6860

Rinkevich, S. E. 1991. Mexican Spotted Owls in Zion NP: Inventory and monitoring methods. Park Science 11:18-19.

Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/NASSN/NALV/NAHBT/NAPTC
Record #6870

Ritchie, R. 1979. A survey of cliff-nesting raptors and their habitats. Pages 313-336 in Lent, P. C., ed. Studies of Selected Wildlife and Fish Populations and their Use in Habitats on and Adjacent to National Petroleum Reserve--Alaska--1977-1978. U.S. Dept. Inter., Fish and Wildl. Serv., Anchorage, Alaska.

Index Terms: TX/Aves/Raptor/HBT/Cliff/LV/Habitat Use/PTC/Nest Count/NASSN/
Record #6880

Robb, J. R., and T. A. Bookhout. 1990. Comparison of Wood Duck brood survey techniques. Pages 209-211 in 1988 North American Wood Duck symposium.

Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/
Breeding Success/SSN/Breeding/Spring/Summer/PTC/Nest Count/
NAHBT/

Record #6890

Robbins, C. S. 1981. Bird activity levels related to weather. Pages 301-310 in Ralph, C. J., and J. M. Scott, eds.

Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Raptor/Upland Groundbird/Woodpecker/
Passerine/SSN/Breeding/Spring/Summer/Winter/PTC/Breeding Bird
Survey/Point Count/Banding/Spot-mapping/Transect/Winter Bird
Population Study/Christmas Bird Count/NAHBT/NALV/

Record #6900

Robbins, C. S. 1978. Census techniques for forest birds. Pages 142-163 in DeGraaf, R. M., Tech. Coord. Proceedings of

Workshop: Management of southern forests for nongame birds.

U.S. Dept. Agric., For Serv, Washington, D.C. Gen. Tech. Rep.
SE-14.

Index Terms: TX/Aves/HBT/Forest/NALV/NASSN/NAPTC

Record #6910

Robbins, C. S. 1981. Effect of time of day on bird activity. Pages 275-286 in Ralph, C. J., and J. M. Scott, eds.

Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Waterfowl/Wader/Raptor/Shorebird/Upland
Groundbird/Owl/Woodpecker/Passerine/LV/Population/SSN/Breeding/
Spring/Summer/Winter/PTC/Winter Bird Population Study/Breeding
Bird Survey/Point Count/Netting/Mist-net/NAHBT

Record #6920

Robbins, C. S. 1970. An international standard for a mapping method in bird census work. Am. Birds 24:722.

Index Terms: TX/Aves/PTC/Spot-mapping/NAHBT/NALV/NASSN/

Record #6930

Robbins, C. S. 1981. Reappraisal of the winter bird-population study technique. Pages 52-57 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/Woodpecker/HBT/Deciduous
Forest/SSN/Winter/LV/Population/Density/PTC/Spot-mapping/Plots/
Winter Bird Population Study

Record #6940

- Robbins, C. S. 1970. Winter bird survey technique tested in Maryland. Maryland Birdlife 26:11-20.
Index Terms: TX/Aves/SSN/Winter/PTC/Winter Bird Population Study/NAHBT/NALV/
Record #6950
- Robbins, C. S., S. Droege, and J. R. Saur. 1989. Monitoring bird populations with breeding bird survey and atlas data. Ann. Zool. Fenn. 26:297-304.
Index Terms: TX/Aves/SSN/Breeding/Summer/Spring/LV/Population/PTC/Breeding Bird Survey/Breeding Bird Atlas/NAHBT
Record #6960
- Rodda, G. 1993. Where's Waldo (and the snakes)? Herpetol. Rev. 24:44-45.
Index Terms: TX/Reptilia/Serpentes/NALV/NASSN/NAHBT/NAPTC
Record #6970
- Rodda, G. B., and T. H. Fritts. 1992. Sampling techniques for an arboreal snake, Boiga irregularis. Micronesica 25:23-40.
Index Terms: TX/Reptilia/Serpentes/Boiga irregularis/HBT/Forest/NALV/NASSN/NAPTC
Record #6980
- Roeder, K., B. Dennis, and E. O. Garton. 1987. Estimating density from variable circular-plot censuses. J. Wildl. Manage. 51:224-230.
Index Terms: TX/Aves/Passerine/HBT/Coniferous Forest/SSN/Breeding/Summer/Spring/LV/Density/PTC/Variable Circular-plot/Line Transect
Record #6990
- Rogers, C. M. 1978. A spatial and temporal analysis of the EMLEN method of transect census. Passenger Pigeon 40:442-451.
Index Terms: TX/Aves/PTC/Transect/NASSN/NALV/NAHBT
Record #7000
- Rogers, G. E. 1964. Sage Grouse Investigations in Colorado. Colo. Div. of Wildl. Colorado W-037-R. 132 pp.
Index Terms: TX/Aves/Upland Groundbird/Sage Grouse/Centrocercus urophasianus/NAHBT/NALV/NAPTC/NASSN/
Record #7010
- Rogers, T. L. 1939. A lizard live-trap. Copeia 1939:51.
Index Terms: TX/Reptilia/Lacertilia/PTC/Trapping/Live-trap/NAHBT/NALV/NASSN/
Record #7020

- Rohner, C., and F. I. Doyle. 1992. Methods of locating Great Horned Owl nests in the boreal forest. J. Raptor Res. 26:33-35.
Index Terms: TX/Aves/Owl/Great Horned Owl/Bubo virginiana/SSN/Breeding/Spring/HBT/Coniferous Forest/PTC/Communication/Conspecific Recording/NALV
Record #7030
- Rollfinke, B. F., and R. H. Yahner. 1990. Effects of time of day and season on winter bird counts. Condor 92:215-219.
Index Terms: TX/Aves/Woodpecker/Passerine/SSN/Winter/LV/Relative Abundance/HBT/Deciduous Forest/PTC/Fixed-width Transect
Record #7040
- Rosenfeld, R. N., J. Bielefeldt, R. K. Anderson, and W. A. Smith. 1985. Taped calls as an aid in locating Cooper's Hawk nests. Wildl. Soc. Bull. 13:62-63.
Index Terms: TX/Aves/Raptor/Cooper's Hawk/Accipiter cooperii/SSN/Breeding/Spring/Summer/HBT/Forest/LV/Presence/PTC/Conspecific Recording/Communication/
Record #7050
- Rotenberry, J. T., and J. A. Wiens. 1976. A method for estimating species dispersion from transect data. Am. Midl. Nat. 95:64-78.
Index Terms: TX/Aves/Passerine/HBT/Grassland/SSN/Breeding/Spring/Summer/LV/Distribution/PTC/Road Census/Breeding Bird Survey/Transect/
Record #7060
- Roughton, R. D., and M. W. Sweeny. 1982. Refinements in scent-station methodology for assessing trends in carnivore populations. J. Wildl. Manage. 46:217-229.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/LV/Population/PTC/Scent Station/NAHBT/NASSN/
Record #7070
- Rumble, M. A., and L. D. Flake. 1982. A comparison of two waterfowl brood survey techniques. J. Wildl. Manage. 46:1048-1053.
Index Terms: TX/Aves/Waterfowl/SSN/Breeding/Summer/HBT/Wetlands/LV/Breeding Success/Nesting Success/PTC/Flush Count
Record #7080
- Runde, D. E., P. D. Southall, J. A. Hovis, R. Sullivan, and R. B. Renken. 1990. Recent records and survey methods for the Black Rail in Florida. Fla. Field Nat. 18:33-35.
Index Terms: TX/Aves/Wader/Black Rail/Laterallus jamaicensis/NALV/NASSN/NAHBT/NAPTC
Record #7090

Ryszkowski, L., R. Andrzejewski, and K. Petruszewicz. 1966.
Comparison of estimates of numbers obtained by the method of
release of marked individuals and complete removal of rodents.
Acta Theriol. 11:329.

Index Terms: TX/Mammalia/Rodentia/LV/Population/PTC/Trapping/
Removal/Marking/NAHBT/NASSN/
Record #7100

Sadler, K. C. 1970. Wildlife Management Planning and Research:
Mourning Dove Coo-Call Count Evaluation. MO. Conservation
Commission. W-013-R-24. 36 pp.

Index Terms: TX/Aves/Upland Groundbird/Mourning Dove/Zenaida
macroura/PTC/Communication/NAHBT/NALV/NASSN/
Record #7110

Salathe, T., and K. Razumovsky. 1987. A comparison of three
crow census methods. Acta Oecol. Oecol. Gen. 8:315-316.

Index Terms: TX/Aves/Passerine/Crow/Corvus/NASSN/NAHBT/NALV/
NAPTC
Record #7120

Samuel, D. E. 1970. Banding, paint-marking and subsequent
movements of Barn and Cliff Swallows. Bird-Banding 41:97-103.

Index Terms: TX/Aves/Passerine/Barn Swallow/Hirundo rustica/
Cliff Swallow/Hirundo pyrrhonota/PTC/Banding/Marking/NAHBT/
NALV/NASSN/
Record #7130

Sanderson, G. C. 1961. Estimating opossum population by marking
young. J. Wildl. Manage. 25:20-27.

Index Terms: TX/Mammalia/Didelphimorphia/Virginia Opossum/
Didelphis virginiana/LV/Density/Population/HBT/Deciduous
Forest/Riparian/SSN/Spring/Summer/Fall/PTC/Marking/Trapping/
Live-trap/Capture-recapture
Record #7140

Sargeant, A. B., W. K. Pfeifer, and S. H. Allen. 1975. A spring
aerial census of Red Foxes in North Dakota. J. Wildl. Manage.
39:30-39.

Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/LV/
Density/SSN/Spring/Summer/HBT/Grassland/Wetlands/Agriculture/
PTC/Aerial Census/Fixed-width Transect/Den Index/
Record #7150

Sattler, G., and J. Bart. 1984. Reliability of counts of
migrating raptors: An experimental analysis. J. Field
Ornithol. 55:415-423.

Index Terms: TX/Aves/Raptor/SSN/Spring/Fall/NAHBT/NALV/NAPTC
Record #7160

Sauder, D. W., T. L. Linder, R. B. Dahlgren, and W. L. Tucker. 1971. An evaluation of the roadside technique for censusing breeding waterfowl. J. Wildl. Manage. 35:538-543.
Index Terms: TX/Aves/Waterfowl/SSN/Spring/Summer/Breeding/LV/Relative Abundance/HBT/Agriculture/Wetlands/PTC/Road Census
Record #7170

Sauer, J. R., and S. Dorege, eds. 1990. Survey Designs and Statistical Methods for the Estimation of Avian Population Trends. U.S. Fish and Wildlife Service. Biological Report 90(10). 182 pp.
Index Terms: TX/Aves/LV/Population/NAHBT/NAPTC/NASSN/
Record #7180

Saughey, D. A., G. A. Heidt, and D. R. Heath. 1988. Utilization of abandoned mine drifts and fracture caves by bats and salamanders: Unique subterranean habitat in the Ouachita Mountains. Pages 64-71 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the Symposium, July 19-21, 1988, Flagstaff, Arizona.
Index Terms: TX/Mammalia/Chiroptera/Amphibia/Caudata/HBT/Cave/SSN/Spring/Summer/Fall/Breeding/PTC/Netting/Mist-net/NALV
Record #7190

Scharf, W. C. 1968. Improved techniques for trapping harriers. Inland Bird Banding News 40:163.
Index Terms: TX/Aves/Raptor/Northern Harrier/Circus cyaneus/PTC/Trapping/Netting/NAHBT/NALV/NASSN/
Record #7200

Schmidt, W. D. 1984. Materials and methods of subnivean sampling. Pages 25-32 in Merritt, J. E., ed. Winter Ecology of Small Mammals. Carnegie Mus. Nat. Hist. Spec. Publ. 10.
Index Terms: TX/Mammalia/Rodentia/Insectivora/SSN/Winter/NAHBT/NAPTC/NALV/
Record #7210

Schneider, J. P. 1993. Predicting numbers of Mississippi Valley population Canada goose nests from spring aerial surveys. M.S. thesis, Texas A&M Univ. 33 pp.
Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/SSN/Spring/LV/Population/PTC/Aerial Census/Nest Count/NAHBT
Record #7220

Schnell, G. D. 1981. Furbearer Management in Oklahoma: Furbearer Population Data Analysis. Oklahoma Dept. of Wildlife Conservation. OKLA. W-134-R-01. 52 pp.
Index Terms: TX/Mammalia/Carnivora/Lagomorpha/LV/Population/NAHBT/NAPTC/NASSN/
Record #7230

Schooley, R. L., B. Van Horne, and K. P. Burnham. 1993. Passive integrated transponders for marking free-ranging Townsend's Ground Squirrels. J. Mammal. 74:480-484.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Townsend's Ground Squirrel/Citellus townsendi/PTC/Passive Integrated Transponder Tag/PIT Tag/Marking/NASSN/NALV/NAHBT

Record #7240

Schwartz, C. C. 1974. Analysis of survey data collected on bobwhite in Iowa. J. Wildl. Manage. 38:674.

Index Terms: TX/Aves/Upland Groundbird/Northern Bobwhite/Colinus virginianus/SSN/Summer/LV/Abundance/HBT/Agriculture/PTC/Road Census/Communication/

Record #7250

Scott, A. F., and J. L. Dobie. 1980. An improved design for a thread-trailing device used to study terrestrial movements of turtles. Herp. Review 11:106-107.

Index Terms: TX/Reptilia/Testudines/LV/Distribution/PTC/Tracking/NAHBT/NASSN/

Record #7260

Scott, D. T., C. D. Jorgensen, and H. D. Smith. 1978.

Comparison of live and removal to estimate small mammal densities. Acta Theriol. 23:173-193.

Index Terms: TX/Mammalia/Insectivora/Rodentia/LV/Density/PTC/Trapping/Live-trap/Removal/NAHBT/NASSN/

Record #7270

Scott, J. M., F. L. Ramsey, and C. B. Kepler. 1981. Distance estimation as a variable in estimating bird numbers from vocalizations. Pages 334-340 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/Passerine/Upland Groundbird/LV/Population/Density/HBT/Forest/PTC/Communication/NASSN/

Record #7280

Scott, J. M., and F. L. Ramsey. 1981. Effects of abundant species on the ability of observers to make accurate counts of birds. Auk 98:610-612.

Index Terms: TX/Aves/Passerine/HBT/Deciduous Forest/LV/Density/SSN/Spring/PTC/Variable Circular-plot

Record #7290

Scott, J. M., and F. L. Ramsey. 1981. Length of count period as a possible source of bias in estimating bird densities. Pages 409-413 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.

Index Terms: TX/Aves/HBT/Forest/LV/Density/PTC/Point Count/Variable Circular-plot/NASSN/

Record #7300

Scott, N. J. Jr., and L. H. Fitzgerald. 1985. Status survey of the Nerodia harteria, Brazos and Choncho--Colorado Rivers, Texas. U.S. Fish and Wildlife Service, National Ecology Center, Museum of Southwestern Biology, Univ. of New Mexico, Albuquerque, NM. Status Survey Report. 44 pp.

Index Terms: TX/Reptilia/Serpentes/Nerodia harteri/Harter's Water Snake/HBT/Wetland/NAPTC/NALV/NASSN/

Record #7310

Scott, T. G., and L. F. Selko. 1939. A census of Red Foxes and Striped Skunks in Clay and Boone counties, Iowa. J. Wildl. Manage. 3:92-98.

Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/Striped Skunk/Mephitis mephitis/SSN/Summer/HBT/Agriculture/Forest/Scrub/Shrub/LV/Density/Population/PTC/Sign Index/Den Index

Record #7320

Seber, G. A. F. 1973. The Estimation of Animal Abundance. Hafner Press, New York, N.Y. 506pp.

Index Terms: LV/Abundance/NATX/NAHBT/NAPTC/NASSN/

Record #7330

Seber, G. A. F. 1982. Estimation of Animal Abundance and Related Parameters. 2nd ed. Hafner Press, New York, N.Y. 645pp.

Index Terms: LV/Abundance/NATX/NAHBT/NAPTC/NASSN/

Record #7340

Sen, A. R. 1982. A review of some important techniques in sampling wildlife. Can. Wildl. Serv. Occ. Paper 49. 17 pp.

Index Terms: LV/Community/NATX/NAHBT/NAPTC/NASSN/

Record #7350

Senesac, G. P. 1987. The usefulness of song frequencies as a census technique for four species of passerine birds. M.S. thesis, SUNY Coll. Environ. Sci. For. 96 pp.

Index Terms: TX/Aves/Passerine/PTC/Communication/NASSN/NAHBT/NALV

Record #7360

- Seng, P. T. 1991. Evaluation of techniques for determining tree squirrel abundance and habitat suitability in central Missouri. M.S. thesis, Univ. Missouri, Columbia. 128 pp.
Index Terms: TX/Mammalia/Rodentia/Sciuridae/Gray Squirrel/Sciurus carolinensis/Fox Squirrel/Sciurus niger/LV/Abundance/Habitat Use/PTC/Trapping/Marking/NAHBT/NASSN/
Record #7370
- Sharp, D. U., K. H. Foster, and B. B. Moorhead. 1987. Inventory and monitoring of Spotted and Barred Owls, Olympic Park. National Park Service. 1987 Progress Rep. 28 pp.
Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/Barred Owl/Strix varia/NAHBT/NAPTC/NALV/NASSN/
Record #7380
- Sharrock, J. T. R. 1975. Dot distribution mapping of breeding birds in Europe. Ardeola 21:797-810.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/LV/Distribution/PTC/Spot-mapping/NAHBT/
Record #7390
- Sherman, D. E. 1990. Line-transect sampling and indices to estimate wintering Wood Ducks and Mallards in Mississippi Green-Tree Reservoirs. M.S. thesis, Mississippi State Univ. 136 pp.
Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/Mallard/Anas platyrhynchos/SSN/Winter/HBT/Wetlands/PTC/Line Transect/
NALV/
Record #7400
- Shields, W. M. 1979. Avian census techniques: An analytical review. Pages 23-51 in Dickson, J. G., R. N. Conner, R. R. Fleet, J. C. Kroll, and J. A. Jackson. The Role of Insectivorous Birds in Forest Ecosystems. Academic Press, New York, NY.
Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #7410
- Shields, W. M. 1977. The effect of time of day on avian census results. Auk 94:380-383.
Index Terms: TX/Aves/Woodpecker/Passerine/HBT/Forest/SSN/Breeding/Spring/Summer/Winter/LV/Density/PTC/Variable-width Transect
Record #7420

- Siminski, D. P. 1976. A study of Great Horned Owl (Bubo virginianus) population density with recorded calls in northwestern Ohio. M.S. thesis, Bowling Green Univ., Bowling Green, Ohio. 35 pp.
Index Terms: TX/Aves/Owl/Great Horned Owl/Bubo virginianus/LV/Density/PTC/Conspecific Recording/Communication/NAHBT/NASSN/
Record #7430
- Simmons, J. A., M. B. Fenton, W. R. Ferguson, M. Jutting, and J. Palin. 1979. Apparatus for research on animal ultrasonic signals. Life Sci. Misc. Publ. Royal Ontario Mus. 31pp.
Index Terms: PTC/Communication/NATX/NAHBT/NALV/NASSN/
Record #7440
- Simmons, R. 1990. Variations in raptor road counts due to observer speed--Reply to D.G. Allan. Gabar 5:3-4.
Index Terms: TX/Aves/Raptor/PTC/Road Census/NAHBT/NALV/NASSN/
Record #7450
- Sinnary, A. S. M., and J. J. Hebrard. 1991. A new approach for detecting visibility bias for the fixed-width transect method. Afr. J. Ecol. 29:222-228.
Index Terms: PTC/Fixed-width Transect/NATX/NAHBT/NALV/NASSN/
Record #7460
- Sisco, C. 1987. A survey of Spotted Owls in Western Olympic National Park. Wash. Dept. of Wildlife. 24 pp.
Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/NAHBT/NAPTC/NALV/NASSN/
Record #7470
- Skalski, J. R., D. S. Robson, and M. Simmons. 1983. Comparative census procedures using single mark-recapture methods. Ecology 64:752-760.
Index Terms: PTC/Marking/Capture-recapture/NASSN/NATX/NAHBT/NALV
Record #7480
- Skalski, J. R., and D. S. Robson. 1982. A mark and removal field procedure for estimating population abundance. J. Wildl. Manage. 46:741-751.
Index Terms: TX/Mammalia/Rodentia/Muridae/Great Basin Pocket Mouse/Perognathus parvus/HBT/Scrub/Shrub/SSN/Summer/LV/Abundance/PTC/Marking/Trapping/Live-trap/Removal/
Record #7490

- Skirvin, A. A. 1981. Effect of time of day and time of season on the number of observations and density estimates of breeding birds. Pages 271-274 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6. Index Terms: TX/Aves/Upland Groundbird/Woodpecker/Passerine/SSN/Breeding/Spring/Summer/LV/Density/HBT/Coniferous Forest/PTC/Variable Circular-plot/Record #7500
- Slade, N. A., M. A. Eifler, N. M. Gruenhagen, and A. L. Davelos. 1993. Differential effectiveness of standard and long Sherman livetraps in capturing small mammals. J. Mammal. 74:156-161. Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/HBT/Scrub/Shrub/LV/Density/SSN/Summer/Fall/Winter/PTC/Trapping/Live-trap/Marking Record #7510
- Slagsvold, T. 1973. Critical remarks on bird census work performed by means of the mapping method. Norw. J. Zool. 21: 29-31. Index Terms: TX/Aves/PTC/Spot-mapping/NASSN/NALV/NAHBT Record #7520
- Sliwa, A., and T. W. Sherry. 1992. Surveying wintering warbler populations in Jamaica: Point counts with and without broadcast vocalizations. Condor 94:924-936. Index Terms: TX/Aves/Passerine/American Redstart/Setophaga ruticilla/Black-throated Blue Warbler/Dendroica caerulescens/HBT/Agriculture/Deciduous Forest/Shrub/Scrub/SSN/Winter/LV/Distribution/Abundance/Habitat Use/PTC/Point Count/Vocalization/Communication/Conspecific Recording/Record #7530
- Smith, A. E. 1992. Comparison of two Wisconsin waterfowl census techniques. Passenger Pigeon 54:197-202. Index Terms: TX/Aves/Waterfowl/NAPTC/NALV/NASSN/NAHBT Record #7540
- Smith, C. R., ed. 1990. Handbook for atlassing American breeding birds. Vt. Inst. Nat. Sci. 70pp. Index Terms: TX/Aves/SSN/Breeding/Summer/Spring/PTC/Breeding Bird Atlas/NAHBT/NALV/Record #7550
- Smith, D. G. 1987. Owl census techniques. U.S. For. Serv. Gen. Tech. Rep. RM-142:304-307. Index Terms: TX/Aves/Owl/NASSN/NAHBT/NALV/NAPTC Record #7560

- Smith, H. D., C. D. Jorgensen, and H. D. Tolley. 1972.
 Estimation of small mammals using recapture methods:
 Partitioning of estimator variables. Acta Theriol. 17:57-66.
 Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Capture-
 recapture/NAHBT/NASSN/NALV/
 Record #7570
- Smith, L. M., I. L. Brisbin Jr., and G. C. White. 1984. An
 evaluation of total trapline captures as estimates of furbearer
 abundance. J. Wildl. Manage. 48:1452-1455.
 Index Terms: TX/Mammalia/Carnivora/Gray Fox/Urocyon
cinereoargenteus/Bobcat/Felis rufus/Striped Skunk/Mephitis
mephitis/Raccoon/Procyon lotor/Didelphimorphia/Virginia
Opossum/Didelphis virginiana/SSN/Fall/HBT/Deciduous Forest/
 Mixed Forest/Wetlands/LV/Population/Abundance/PTC/Trapping/
 Live-trap
 Record #7580
- Smith, M. H., R. Blessing, J. G. Chelton, J. B. Gentry, G.
 Golley, and J. T. McGinnus. 1971. Determining density for
 small mammal populations using a grid and assessment lines.
 Acta Theriol. 16:105-125.
 Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/
 Density/PTC/Grid/Assessment Line/NAHBT/NASSN/
 Record #7590
- Smith, P. G. R. 1984. Observer and annual variation in winter
 bird population studies. Wilson Bull. 96:561-574.
 Index Terms: TX/Aves/Passerine/Woodpecker/Downy Woodpecker/
Picoides pubescens/Blue Jay/Cyanocitta cristata/Black-capped
 Chickadee/Parus atricapillus/White-breasted Nuthatch/Sitta
carolinensis/Northern Cardinal/Cardinalis cardinalis/Dark-eyed
 Junco/Junco hyemalis/SSN/Winter/LV/Density/HBT/Forest/PTC/
 Winter Bird Population Study
 Record #7600
- Smith, R. H., and R. P. Allen. 1948. An aerial waterfowl
 reconnaissance of the far north. U.S. Dept. Inter., Fish and
 Wildl. Serv. Spec. Rep. 60:5-12.
 Index Terms: TX/Aves/Waterfowl/PTC/Aerial Census/NAHBT/NASSN/
 NALV/
 Record #7610

- Smith, R., H. Gardner, J. B. Gentry, D. W. Kaufman, and M. J. O'Farrell. 1975. Density estimation of small animal populations. Pages 25-53 in Golley, F. G., K. Petrusewicz, and L. Ruszkowski, eds. Small Mammals: Their Production and Population Dynamics. Int. Biol. Prog. 5. Cambridge Univ. Press, London.
Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Density/Population/NAHBT/NASSN/NAPTC/
Record #7620
- Snead, I. E. 1950. A family type live trap, handling cape and associated techniques for Muskrats. J. Wildl. Manage. 14:67.
Index Terms: TX/Mammalia/Rodentia/Muridae/Muskrat/Ondatra zibethicus/PTC/Trapping/Live-trap/NAHBT/NALV/NASSN/
Record #7630
- Snyder, W. D. 1973. Game Bird Survey: Investigation of population status of bobwhite quail in Eastern Colorado. Colo. Game, Fish and Parks Dept. W-037-R-26. 45 pp.
Index Terms: TX/Aves/Upland Groundbird/Northern Bobwhite/Colinus virginianus/LV/Population/NAHBT/NAPTC/NASSN/
Record #7640
- Sogge, M. K., C. Van Riper III, and C. Drost. 1989. Design considerations for monitoring land birds in Channel Islands National Park. Trans. West. Sect. Wildl. Soc. 25:65-71.
Index Terms: TX/Aves/NAHBT/NAPTC/NALV/NASSN/
Record #7650
- Southern, W. E. 1972. Use of the cannon net in Ring-billed Gull colonies. Inland Bird-Banding News 44:83.
Index Terms: TX/Aves/Shorebird/Ring-billed Gull/Larus delawarensis/SSN/Breeding/Summer/Spring/PTC/Netting/NAHBT/NALV/
Record #7660
- Southern, W. F., and L. K. Southern. 1981. Colony census results as indicators of pre-hatching perturbations. Colonial Waterbirds 4:143-149.
Index Terms: TX/Aves/Wader/Shorebird/LV/Breeding Success/SSN/
Breeding/Summer/Spring/NAPTC/NAHBT/
Record #7670
- Sperry, T. M. 1970. A comparison of mid-winter bird census methods in southeastern Kansas. Kans. Ornithol. Soc. Bull. 21: 17-22.
Index Terms: TX/Aves/SSN/Winter/NALV/NAHBT/NAPTC
Record #7680

- Springer, M. A. 1978. Foot surveys versus owl calling surveys: A comparative study of two Great Horned Owl censusing techniques. Inland Bird-Banding News 50:82-83.
Index Terms: TX/Aves/Owl/Great Horned Owl/Bubo virginiana/PTC/Conspecific Recording/Communication/NAHBT/NALV/NASSN/
Record #7690
- Stahl, P. 1990. Evaluation of nightcounts to monitor a Red Fox (Vulpes vulpes) population. Gibier Faune Sauvage 7:293-309.
Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/LV/Population/PTC/Nightlighting/NAHBT/NASSN/
Record #7700
- Stahl, P., and P. Migot. 1990. Variability and sensitivity of an index of Red Fox (Vulpes vulpes) abundance obtained by nightcounts. Gibier Faune Sauvage 7:311-323.
Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/PTC/Nightlighting/NAHBT/NALV/NASSN/
Record #7710
- Stancill, W. F., and D. M. Leslie Jr. 1990. Evaluation of waterfowl survey techniques on an Oklahoma reservoir. Wildl. Soc. Bull. 18:370-377.
Index Terms: TX/Aves/Waterfowl/LV/Abundance/Habitat Use/SSN/Spring/Summer/Fall/Winter/HBT/Wetlands/PTC/Aerial Census/Boat Census/Transect/
Record #7720
- Standley, R. N., and T. E. Dawson. 1982. A winter field survey of River Otter and Wolverine in the Northern Yosemite region, California. Environmental Field Program, U.C. Santa Cruz. Spec. Paper 4. 31 pp.
Index Terms: TX/Mammalia/Carnivora/River Otter/Lutra canadensis/Wolverine/Gulo luscus/SSN/Winter/NAHBT/NAPTC/NALV/
Record #7730
- Stanley, T. R. Jr., and J. Bart. 1991. Effects of roadside habitat and fox density on a snow track survey for foxes in Ohio. Ohio J. Sci. 91:186-190.
Index Terms: TX/Mammalia/Carnivora/Red Fox/Vulpes vulpes/Gray Fox/Urocyon cinereoargenteus/SSN/Winter/HBT/Agriculture/Forest/Scrub/Shrub/LV/Density/PTC/Road Census/Tracking
Record #7740

Staub, N. 1986. A status survey of the Sacramento Mountain Salamander, Aneides hardii, with an assessment of the impact of logging on salamander abundance. Final report submitted to the U.S. Fish and Wildlife Service, Region 2, Endangered Species Program. , Albuquerque, New Mexico. 42 pp.

Index Terms: TX/Amphibia/Caudata/Sacramento Mountain Salamander/Aneides hardii/LV/Abundance/NAHBT/NAPTC/NASSN/
Record #7750

Stebbing, R. E. 1978. Marking bats. Stonehouse, R., ed. Animal Marking. Univ. Park Press, Baltimore, Maryland.

Index Terms: TX/Mammalia/Chiroptera/PTC/Marking/NAHBT/NALV/NASSN/
Record #7760

Steenhof, K. 1986. Assessing raptor reproductive success and productivity. In Milsap, B. A., and K. W. Kline, eds. Raptor Management Techniques Manual. Vol. 1. Natl. Wildl. Fed., Washington, D.C.

Index Terms: TX/Aves/Raptor/LV/Breeding Success/SSN/Breeding/Spring/Summer/NAHBT/NAPTC/
Record #7770

Steenhof, K., and M. N. Kochert. 1982. An evaluation of methods used to estimate raptor nesting success. J. Wildl. Manage. 46: 885-893.

Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/Prairie Falcon/Falco mexicanus/Red-tailed Hawk/Buteo jamaicensis/LV/Nesting Success/Breeding Success/HBT/Riparian/SSN/Breeding/PTC/Boat Census/Nest Count
Record #7780

Steiof, K. 1986. Bird census and migration of small birds. Vogelwelt 107:41-52.

Index Terms: TX/Aves/Passerine/SSN/Spring/Fall/NAHBT/NALV/NAPTC
Record #7790

Stenseth, N. C., and L. Hansson. 1979. Correcting for the edge effect in density estimation: Explorations around a new method. Oikos 32:337.

Index Terms: TX/Mammalia/Rodentia/Muridae/Insectivora/Sorex/LV/Density/HBT/Coniferous Forest/Shrub/Scrub/SSN/Fall/PTC/Trapping/Snap-trap/
Record #7800

Stephenson, R. O., and P. Karcmarczyk. 1989. Wildlife Research and Management: Development of Techniques for Evaluating Lynx Population Status in Alaska. Alaska Dept. Fish and Game. Final Report AK-W-023-1. 100 pp.

Index Terms: TX/Mammalia/Carnivora/Lynx/Lynx canadensis/LV/
Population/Density/PTC/Tracking/Transect/NAHBT/NASSN/

Record #7810

Stickel, L. F. 1948. The trap line as a measure of small mammal populations. J. Wildl. Manage. 12:153-161.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Population/
PTC/Trapping/NAHBT/NASSN/

Record #7820

Stickel, W. H. 1944. A simple and effective lizard snare.

Copeia 1944:251-252.

Index Terms: TX/Reptilia/Lacertilia/PTC/Netting/Snaring/NAHBT/
NALV/NASSN/

Record #7830

Stirling, I. G., and J. F. Bendell. 1966. Census of Blue Grouse with recorded calls of a female. J. Wildl. Manage. 30:184-187.

Index Terms: TX/Aves/Upland Groundbird/Blue Grouse/Dendragapus
obscurus/LV/Population/SSN/Summer/Breeding/PTC/Road Census/
Conspecific Recording/Communication/NAHBT/

Record #7840

Storm, R. M., and R. A. Pimental. 1954. A method of studying amphibian breeding populations. Herpetologica 10:161-166.

Index Terms: TX/Amphibia/LV/Population/SSN/Breeding/Spring/
NAHBT/NAPTC/

Record #7850

Stouffer, P. C., and D. F. Caccamise. 1991. Capturing American Crows using Alpha-chloralose. J. Field Ornithol. 62:450-453.

Index Terms: TX/Aves/Passerine/American Crow/Corvus
brachyrhynchos/PTC/Netting/Trapping/NAHBT/NALV/NASSN/

Record #7860

Streike, W. K., and J. G. Dickson. 1980. Strip transect sampling and analysis for avian habitat studies. J. Wildl.

Manage. 44:559-567.

Index Terms: TX/Aves/LV/Habitat Use/PTC/Strip Transect/NAHBT/
NASSN/

Record #7870

Strong, L. L., D. S. Gilmer, and J. A. Brass. 1991. Inventory of wintering geese with a multispectral scanner. J. Wildl. Manage. 55:250-259.

Index Terms: TX/Aves/Waterfowl/Snow Goose/Chen caerulescens/SSN/Winter/LV/Population/PTC/Photography/Aerial Census/NAHBT Record #7880

Sugden, L. G., and G. Butler. 1980. Estimating densities of breeding Canvasbacks and Redheads. J. Wildl. Manage. 44:814-821.

Index Terms: TX/Aves/Waterfowl/Canvasback/Aythya valisineria/Redhead/Aythya americana/LV/Density/SSN/Breeding/Spring/Summer/HBT/Agriculture/Wetlands/PTC/Ground Count/Nest Count/Record #7890

Sullivan, B. K. 1981. Distribution and relative abundance of snakes along a transect in California. J. Herpetol. 15:247-248.

Index Terms: TX/Reptilia/Serpentes/LV/Community/Habitat Use/Distribution/Relative Abundance/SSN/Spring/Summer/HBT/Grassland/Deciduous Forest/Scrub/Shrub/PTC/Transect/Road Census Record #7900

Sullivan, D. S., and T. P. Sullivan. 1980. Deer Mouse trappability in relation to bait preference. Can. J. Zool. 58: 2282.

Index Terms: TX/Mammalia/Rodentia/Muridae/Deer Mouse/Peromyscus maniculatus/PTC/Trapping/NAHBT/NALV/NASSN/Record #7910

Sulzbach, D. S., and F. Cooke. 1978. Elements of nonrandomness in mass-captured samples of Snow Geese. J. Wildl. Manage. 42: 437-441.

Index Terms: TX/Aves/Waterfowl/Snow Goose/Chen caerulescens/SSN/Summer/Breeding/LV/Population/PTC/Netting/Trapping/Banding/NAHBT/Record #7920

Summerlin, C. T., and J. L. Wolfe. 1973. Social influences on trap response of the Cotton Rat (Sigmodon hispidus). Ecology 54:1156-1159.

Index Terms: TX/Mammalia/Rodentia/Muridae/Cotton Rat/Sigmodon hispidus/PTC/Trapping/NAHBT/NASSN/NALV/Record #7930

Suttkus, R. D., G. H. Clemmer, C. Jones, and C. R. Shoop. 1976. Survey of fishes, mammals, and herpetofauna of the Colorado River in Grand Canyon. Colorado River Research Project. Tech. Rep. 5. 48 pp.

Index Terms: TX/Amphibia/Reptilia/Mammalia/NAHBT/NAPTC/NALV/NASSN/
Record #7940

Sutton, M. 1954. Bird survey of the Verde Valley. Plateau 27: 1-9.

Index Terms: TX/Aves/LV/Community/NAHBT/NAPTC/NASSN/
Record #7950

Svensson, S. E. 1979. Census efficiency and number of visits to a study plot when estimating bird densities by the territory mapping method. J. Appl. Ecol. 16:61-68.

Index Terms: TX/Aves/LV/Density/PTC/Spot-mapping/NASSN/NAHBT
Record #7960

Svensson, S. E. 1981. Do transect counts monitor abundance trends in the same way as territory mapping in study plots? Pages 209-214 in Ralph, C. J., and J. M. Scott, eds.

Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Upland Groundbird/Woodpecker/Passerine/SSN/Breeding/Summer/HBT/Forest/LV/Territory/Abundance/PTC/Spot-mapping/Line Transect/Point Count
Record #7970

Svensson, S. 1974. Interpersonal variation in species map evaluation in bird census work with the mapping method. Acta Ornithol. (Warsaw) 14:322-338.

Index Terms: TX/Aves/PTC/Spot-mapping/NASSN/NALV/NAHBT
Record #7980

Svihla, A. 1959. A simple method of collecting Ascaphus truei tadpoles. Copeia 1959:72.

Index Terms: TX/Amphibia/Salientia/Ascaphus truei/Tailed Frog/HBT/Wetlands/PTC/Trapping/Netting/Tadpole Netting/NALV/NASSN/
Record #7990

Swank, W. G. 1952. Trapping and marking of adult nesting doves. J. Wildl. Manage. 16:87-90.

Index Terms: TX/Aves/Upland Groundbird/Dove/SSN/Breeding/Spring/Summer/PTC/Trapping/Marking/NAHBT/NALV/
Record #8000

Swengel, A. B., and S. R. Swengel. 1986. An auditory census of Northern Saw-whet Owls (Aegolius acadicus) in Sauk County, Wisconsin. Passenger Pigeon 48:119-121.

Index Terms: TX/Aves/Owl/Northern Saw-whet Owl/Aegolius acadicus/PTC/Communication/NASSN/NALV/NAHBT

Record #8010

Swenson, J. E. 1991. Evaluation of a density index for territorial male Hazel Grouse Bonasa bonasia in spring and autumn. Ornis. Fenn. 68:57-65.

Index Terms: TX/Aves/Upland Groundbird/Hazel Grouse/Bonasa bonasia/LV/Density/Territory/SSN/Spring/Fall/NAHBT/NAPTC

Record #8020

Swift, D. M., and R. K. Steinhorst. 1976. A technique for estimating small mammal population densities using a grid and assessment lines. Acta Theriol. 21:471.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Density/PTC/Grid/Assessment Line/NAHBT/NASSN/

Record #8030

Szaro, R. C., S. C. Belfit, F. K. Aitkin, and R. D. Babb. 1988. The use of timed fixed-area plots and a mark-recapture technique in assessing riparian garter snake populations. In Svaro, R. C., K. E. Severson, and D. R. Patton, eds.

Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the symposium, July 19-21, 1988, Flagstaff, Arizona.

Index Terms: TX/Reptilia/Serpentes/Garter Snake/LV/Population/HBT/Riparian/PTC/Marking/Capture-recapture/Fixed-area Plot/Timed Search/NASSN/

Record #8040

Szaro, R. C., and M. D. Jakel. 1982. Comparison of variable circular-plot and spot-map methods in desert riparian and scrub habitats. Wilson Bull. 94:546-550.

Index Terms: TX/Aves/Upland Groundbird/Woodpecker/Passerine/LV/Density/SSN/Breeding/Spring/Summer/HBT/Riparian/Desert/Scrub/Shrub/PTC/Spot-mapping/Variable Circular-plot

Record #8050

Szaro, R. C., and M. D. Jakel. Selection and monitoring of avian indicator species: An example from a ponderosa pine forest in the Southwest. U.S. Dept. Agric., Forest Service. Gen. Tech. Rep. RM-89. 8 pp.

Index Terms: TX/Aves/HBT/Coniferous Forest/NAPTC/NALV/NASSN/

Record #8060

Szaro, R. C., K. E. Severson, and D. R. Patton, eds. 1988. Management of Amphibians, Reptiles, and Small Mammals in North America. Proceedings of the Symposium, July 19-21, 1988. U.S. Dept. Agric., Forest Service. Gen. Tech. Rep. RM-166. 458 pp. Index Terms: TX/Amphibia/Reptilia/Mammalia/Rodentia/Insectivora/NAHBT/NAPTC/NALV/NASSN/Record #8070

Szaro, R. C., L. H. Simons, and S. C. Belfit. 1988. Comparative effectiveness of pitfalls and live-traps in measuring small mammal community structure. Pages 282-288 in Szaro, R. C., K. E. Severson, and D. R. Patton, eds. Management of Amphibians, Reptiles, and Small Mammals in North America: Proceedings of the symposium, July 19-21, 1988, Flagstaff, Arizona. Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Community/Abundance/PTC/Trapping/Pitfall/Live-trap/Drift Fence/NAHBT/NASSN/Record #8080

Tabberer, D. K. 1971. The Wood Duck roost count as an index to Wood Duck abundance in Louisiana. M.S. thesis, Louisiana State Univ. 77 pp. Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/Abundance/PTC/Roost Count/NASSN/NAHBTRecord #8090

Tabberer, D. K., J. D. Newsom, P. E. Schilling, and H. A. Bateman. 1971. The Wood Duck roost count as an index to Wood Duck abundance in Louisiana. Proc. Southeastern Assoc. Game Fish Commissioner 25:254. Index Terms: TX/Aves/Waterfowl/Wood Duck/Aix sponsa/LV/Abundance/PTC/Roost Count/NAHBT/NASSN/Record #8100

Taber, R. D. 1971. Biotic survey of Ross Lake basin. Inst. For. Prod., College of Forest Resources, Univ. Washington, Seattle. Index Terms: LV/Community/NATX/NAHBT/NASSN/NAPTC/Record #8110

Taber, R. D., and T. I. McCowan. 1971. Capturing and marking wild animals. In Giles, R. H., Jr., ed. Wildlife Management Techniques. 3rd ed. Wildlife Society, Washington, D.C. Index Terms: PTC/Trapping/Netting/Marking/NATX/NAHBT/NALV/NASSN/Record #8120

Takos, M. J. 1943. Trapping and banding Muskrats. J. Wildl. Manage. 7:400-407.

Index Terms: TX/Mammalia/Rodentia/Muridae/Muskrat/Ondatra zibethicus/PTC/Trapping/Marking/Banding/NAHBT/NALV/NASSN/
Record #8130

Tanaka, R. Investigation into the edge effect by use of capture-recapture method in a vole population. Res. Pop. Ecol. 12:111-125.

Index Terms: TX/Mammalia/Rodentia/Muridae/Vole/Microtus/LV/Population/PTC/Capture-recapture/NASSN/NAHBT/
Record #8140

Tappe, P. A. 1991. Capture-recapture methods for estimating southern Fox Squirrel abundance. Ph.D. dissertation, Clemson Univ. 101 pp.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Southern Fox Squirrel/Sciurus niger/LV/Abundance/PTC/Capture-recapture/NASSN/NAHBT/
Record #8150

Tappe, P. A. 1987. A woodcock census technique for east Texas. M.S. thesis, Stephen F. Austin Univ. 80 pp.

Index Terms: TX/Aves/Upland Groundbird/American Woodcock/Scolopax minor/NASSN/NALV/NAHBT/NAPTC
Record #8160

Taulman, J. F., R. E. Thill, T. B. Wigley, and M. A. Melchior. 1992. A comparison of bottles and snap traps for short-term small mammal sampling. Am. Midl. Nat. 127:208-210.

Index Terms: TX/Mammalia/Rodentia/Insectivora/SSN/Winter/LV/Distribution/Abundance/HBT/Riparian/Coniferous Forest/PTC/Trapping/Snap-trap/Bottle-trap/
Record #8170

Tautin, J. 1980. Assessment of some important factors affecting the singing-ground survey. Proc. Woodcock Symp. 7:6-11.

Index Terms: TX/Aves/Upland Groundbird/American Woodcock/Scolopax minor/PTC/Communication/NASSN/NAHBT/NALV
Record #8180

Taylor, C. A. 1979. The density, distribution, and activity patterns of Woodchucks in Cades Cove, Great Smoky Mountains National Park. M.S. thesis, Univ. Tennessee, Knoxville.

Index Terms: TX/Mammalia/Rodentia/Sciuridae/Woodchuck/Marmota monax/LV/Density/Distribution/NASSN/NAHBT/NAPTC
Record #8190

Taylor, C. A., and M. G. Raphael. 1988. Identification of mammal tracks from sooted track stations in the Pacific Northwest. California Fish and Game 74:4-11.

Index Terms: TX/Mammalia/PTC/Tracking/Scent Station/NASSN/NAHBT/NALV

Record #8200

Taylor, W. P. 1930. Methods of determining rodent pressure on the range. Ecology 11:523-542.

Index Terms: TX/Mammalia/Rodentia/HBT/Grassland/NASSN/NALV/NAPTC/

Record #8210

Thomas, B. H. 1988. A comparison of four avian census techniques during the nonbreeding season. M.S. thesis, SUNY Coll. Environ. Sci. For. 66 pp.

Index Terms: TX/Aves/SSN/Fall/Winter/NALV/NAHBT/NAPTC

Record #8220

Thomas, D. W., and R. K. LaVal. 1988. Survey and census methods. Pages 77-89 in Kunz, T. H., ed. Ecological and behavioral methods for the study of bats.

Index Terms: TX/Mammalia/Chiroptera/PTC/Marking/Capture-recapture/NASSN/NAHBT/NALV

Record #8230

Thompson, L. S. 1982. A 1979 census of Great Blue Heron colonies in Montana. Proc. Montana Acad. Sci. 41:23-27.

Index Terms: TX/Aves/Wader/Great Blue Heron/Ardea herodias/SSN/Breeding/Spring/Summer/NALV/NAHBT/NAPTC

Record #8240

Tideman, C. R., and D. P. Woodside. 1978. A collapsible bat-trap and comparison of results obtained with the trap and with mist nets. Australian Wildl. Res. 5:355-362.

Index Terms: TX/Mammalia/Chiroptera/PTC/Trapping/Bat-trap/Netting/Mist-net/NAHBT/NASSN/NALV

Record #8250

Tiedmann, R. 1990. Analysis of variance as a statistical method for analyzing bird count results. Wader Study Group Bull. No. 59. 9 pp. Abstract only.

Index Terms: TX/Aves/NASSN/NALV/NAHBT/NAPTC

Record #8260

- Tilghman, N. G., and D. H. Rusch. 1981. Comparison of line-transect methods for estimating breeding bird densities in deciduous woodlots. Pages 202-208 in Ralph, C. J., and J. M. Scott, eds. Estimating numbers of terrestrial birds. Stud. Avian Biol. 6.
Index Terms: TX/Aves/Passerine/LV/Density/HBT/Deciduous Forest/SSN/Breeding/Spring/Summer/PTC/Line Transect
Record #8270
- Tobey, F. J. 1985. Virginia's amphibians and reptiles, a distributional survey. Privately published, Virginia Herpetological Society. 114 pp.
Index Terms: TX/Amphibia/Reptilia/LV/Distribution/NASSN/NAPTC/NAHBT
Record #8280
- Tomialojc, L. 1981. On the census accuracy in the line transect. Pages 13-17 in Purroy, F. J., ed. Bird census and Mediterranean landscape.
Index Terms: TX/Aves/PTC/Line Transect/NASSN/NAHBT/NALV
Record #8290
- Tomialojc, L., and J. Lontkowski. 1989. A technique for censusing territorial Song Thrushes (Thrushes turdus). Ann. Zool. Fenn. 26:235-243.
Index Terms: TX/Aves/Passerine/Song Thrush/Thrushes turdus/NASSN/NALV/NAHBT/NAPTC
Record #8300
- Tomialojc, L., and J. Verner. 1990. Do point counting and spot mapping produce equivalent estimates of bird densities? Auk 107:447-450.
Index Terms: TX/Aves/LV/Density/PTC/Spot-mapping/Point Count/NASSN/NAHBT
Record #8310
- Tomialojc, L., W. Walankiewicz, and T. Wesolowski. 1978. Methods and preliminary results of the collective bird census work in the primeval forest of the Bialowieza National Park. Polish Ecol. Studies 3:215-224.
Index Terms: TX/Aves/HBT/Forest/NALV/NASSN/NAPTC
Record #8320
- Tramer, E. J. 1974. An analysis of the species density of U.S. landbirds during the winter using the 1971 Christmas Bird Count. Am. Birds 28:563-567.
Index Terms: TX/Aves/LV/Density/SSN/Winter/PTC/Christmas Bird Count/NAHBT
Record #8330

Trost, R. E., K. E. Camble, and D. J. Nieman. 1990. Goose surveys in North America: Current procedures and suggested improvements. Trans. N. Amer. Wildl. Nat. Resource Conference. 55:338-349.

Index Terms: TX/Aves/Waterfowl/NASSN/NALV/NAHBT/NAPTC
Record #8340

Trout, R. G. 1978. Statewide Wildlife Research: Small Mammal Abundance and Distribution in the Missouri River Breaks, Montana. Mont. Dept. of Fish and Game. Mont. W-120-R-09. 75 pp.

Index Terms: TX/Mammalia/Rodentia/Muridae/Deer Mouse/Peromyscus maniculatus/Kangaroo Rat/Dipodomys/Sciuridae/Chipmunk/Tamias/LV/Abundance/Distribution/PTC/Night-lighting/NASSN/NAHBT
Record #8350

Tuttle, M. D. 1974. An improved trap for bats. J. Mammal. 55: 475-477.

Index Terms: TX/Mammalia/Chiroptera/PTC/Trapping/Bat-trap/NASSN/NALV/NAHBT
Record #8360

Udevitz, M. S., and K.H. Pollock. 1992. Change-in-ratio methods for estimating population size. Pages 90-101 in McCullough, D. R., and R.H. Barrett, eds. Wildlife 2001: Populations. Elsevier Science Publishers, London.

Index Terms: LV/Population/NATX/NAHBT/NASSN/NAPTC
Record #8370

Udvardy, M. D. F. 1957. An evaluation of quantitative studies in birds. Cold Spring Harbor Symp. Quantitative Biol. 22:301-311.

Index Terms: TX/Aves/NAHBT/NALV/NASSN/NAPTC
Record #8380

Urban, D. 1970. Raccoon populations, movement patterns, and predation on a managed waterfowl marsh. J. Wildl. Manage. 34: 372-382.

Index Terms: TX/Mammalia/Carnivora/Raccoon/Procyon lotor/LV/Density/Population/SSN/Spring/Summer/Fall/Winter/HBT/Wetlands/PTC/Trapping/Live-trap/Marking/Capture-recapture/
Record #8390

Van Zyll DeJong, C. G. 1975. The distribution and abundance of the Wolverine (Gulo gulo) in Canada. Can. Field-Nat. 89:431-437.

Index Terms: TX/Mammalia/Carnivora/Wolverine/Gulo luscus/LV/Abundance/Distribution/NAHBT/NASSN/NAPTC
Record #8400

Vansteenwegen, C. 1991. A single-session capture-recapture experiment to census breeding birds. Ringing Migr. 12:38-42.
Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/PTC/Capture-recapture/Netting/NALV/NAHBT
Record #8410

Verner, J. 1985. Assessment of counting techniques. Pages 247-302 in Johnston, R. F., ed. Current Ornithology. 2nd ed. Plenum Press, New York.
Index Terms: TX/Aves/NALV/NAHBT/NASSN/NAPTC
Record #8420

Verner, J. 1988. Optimizing the duration of point counts for monitoring trends in bird populations. Pacific Southwest For. Range Exp. Sta., Berkeley, California. Res. Note PSW-395.
Index Terms: TX/Aves/LV/Population/PTC/Point Count/NAHBT/NASSN
Record #8430

Verner, J., and K. A. Milne. 1990. Analyst and observer variability in density estimates from spot-mapping. Condor 92: 313-325.
Index Terms: TX/Aves/LV/Density/PTC/Spot-mapping/NASSN/NAHBT
Record #8440

Verner, J., and K. A. Milne. 1989. Coping with sources of variability when monitoring population trends. Ann. Zool. Fennici 26:191-199.
Index Terms: LV/Population/NATX/NASSN/NAHBT/NAPTC
Record #8450

Verner, J., and L. V. Ritter. 1985. A comparison of transects and point counts in oak-pine woodlands of California. Condor 87:47-68.
Index Terms: TX/Aves/Raptor/Upland Groundbird/Owl/Woodpecker/Passerine/HBT/Mixed Forest/SSN/Spring/Winter/LV/Relative Abundance/Community/Density/PTC/Fixed-width Transect/Variable-width Transect/Point Count/
Record #8460

Verner, J., and L. V. Ritter. 1988. A comparison of transects and spot mapping in oak-pine woodlands of California. Condor 90:401-419.
Index Terms: TX/Aves/HBT/Mixed Forest/PTC/Transect/Spot-mapping/NASSN/NALV
Record #8470

Verner, J., and L. V. Ritter. 1986. Hourly variation in morning point counts of birds. Auk 103:117-124.

Index Terms: TX/Aves/HBT/Grassland/Mixed Forest/LV/Abundance/SSN/Spring/Summer/Winter/PTC/Fixed-width Point Count/Variable-width Point Count/Variable Circular-plot/
Record #8480

Village, A. 1984. Problems in estimating kestrel breeding density. Bird Study 31:121-125.

Index Terms: TX/Aves/Raptor/Kestrel/Falco/LV/Density/SSN/Breeding/Spring/Summer/NAPTC/NAHBT
Record #8490

Village, A., and D. Myhill. 1990. Estimating small mammal abundances for predator studies: Snap-trapping versus sign indices. J. Zool. (Lond.) 222:681-689.

Index Terms: TX/Mammalia/Rodentia/Insectivora/LV/Abundance/PTC/Trapping/Snap-trap/Sign Index/NASSN/NAHBT
Record #8500

Vogt, R. C. 1980. New methods for trapping aquatic turtles. Copeia 1980:368.

Index Terms: TX/Reptilia/Testudines/HBT/Wetlands/PTC/Trapping/NALV/NASSN
Record #8510

Vogt, R. C., and R. L. Hine. 1982. Evaluation of techniques for assessment of amphibian and reptile populations in Wisconsin.

In Scott, N. J., Jr., ed. Herpetological Communities. U.S. Dept. Inter., Fish and Wildlife Service. Wildl. Res. Rep. 13.
Index Terms: TX/Reptilia/Amphibia/LV/Population/NAHBT/NASSN/NAPTC
Record #8520

Vogt, W. 1941. A practical lizard trap. Copeia 1941:115.

Index Terms: TX/Reptilia/Lacertilia/PTC/Trapping/NALV/NASSN/NAHBT
Record #8530

von Hartman, L. 1984. Bird censuses on wooded islands: A method. Ann. Zool. Fenn. 21:383-391.

Index Terms: TX/Aves/HBT/Forest/NASSN/NALV/NAPTC
Record #8540

Vyas, R. 1990. Notes on capture of the Spiny-tailed Lizard (Uromastyx hardwickii) in Gujarat. Hamadryad 15:28.

Index Terms: TX/Reptilia/Lacertilia/Spiny-tailed Lizard/Uromastyx hardwickii/PTC/Trapping/Netting/NALV/NAHBT/NASSN
Record #8550

Waichman, A. V. 1992. An alphanumeric code for toe clipping amphibians and reptiles. Herpetol. Rev. 23:19-21.
Index Terms: TX/Amphibia/Reptilia/PTC/Marking/NALV/NAHBT/NASSN
Record #8560

Wakkinen, W. L., K. P. Reese, J. W. Connelly, and R. A. Fischer. 1992. An improved spotlighting technique for capturing Sage Grouse. Wildl. Soc. Bull. 20:425-426.
Index Terms: TX/Aves/Upland Groundbird/Sage Grouse/Centrocercus urophasianus/SSN/Spring/HBT/Scrub/Shrub/PTC/Netting/Nightlighting/NALV
Record #8570

Wallmo, O. C. 1960. Big Bend ecological survey. Job Compl. Rep., Fed. Aid Proj. Texas Game and Fish Comm., Austin. W-57-R-8. 44 pp.
Index Terms: LV/Community/NATX/NAPTC/NASSN/NAHBT
Record #8580

Walters, B. B. 1989. Differential capture of Deer Mice with pitfalls and live traps. Acta Theriol. 34:643-647.
Index Terms: TX/Mammalia/Rodentia/Muridae/Deer Mouse/Peromyscus maniculatus/SSN/Spring/HBT/Coniferous Forest/LV/Population/PTC/Trapping/Live-trap/Pitfall/
Record #8590

Warburton, B. 1992. Victor foot-hold traps for catching Australian Brushtail Opossums in New Zealand: Capture efficiency and injuries. Wildl. Soc. Bull. 20:67-73.
Index Terms: TX/Mammalia/Marsupialia/Australian Brushtail Opossum/PTC/Trapping/NALV/NASSN/NAHBT
Record #8600

Warden, T. 1980. Notes on the determination of bat populations using photographic measurements. Nat. Speol. Soc. Bulletin 42: 70-71.
Index Terms: TX/Mammalia/Chiroptera/LV/Population/NAPTC/NASSN/NAHBT
Record #8610

Washington Department of Wildlife. 1987. A survey of Spotted Owls in western Olympic National Park. Washington Dept. Wildl., Olympia, Washington. 23 pp.
Index Terms: TX/Aves/Owl/Spotted Owl/Strix occidentalis/NAHBT/NASSN/NALV/NAPTC
Record #8620

- Watson, J. W. 1993. Responses of nesting Bald Eagles to helicopter surveys. Wildl. Soc. Bull. 21:171-178.
Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/LV/Nesting Success/SSN/Breeding/Spring/Summer/HBT/Coniferous Forest/Riparian/PTC/Aerial Census/
Record #8630
- Wauer, R. H. 1966. Bird banding at Zion National Park. Western Bird Bander 41:24-25.
Index Terms: TX/Aves/PTC/Banding/NASSN/NAHBT/NALV
Record #8640
- Wauer, R. H. 1962. A survey of the birds of Death Valley. Condor 62:220-223.
Index Terms: TX/Aves/LV/Community/NAHBT/NASSN/NAPTC
Record #8650
- Webb, W. L. 1942. Notes on a method for censusing Snowshoe Hare populations. J. Wildl. Manage. 6:159-168.
Index Terms: TX/Mammalia/Lagomorpha/Snowshoe Hare/Lepus americanus/LV/Population/NASSN/NAHBT/NAPTC
Record #8660
- Webster, J. D. 1966. An analysis of winter bird-population studies. Wilson Bull. 78:456-461.
Index Terms: TX/Aves/LV/Density/Population/SSN/Winter/HBT/Mixed Forest/Coniferous Forest/Deciduous Forest/Grassland/PTC/Winter Bird Population Study
Record #8670
- Weiner, J. G., and M. H. Smith. 1972. Relative efficiencies of four small mammal traps. J. Mammal. 53:868-873.
Index Terms: TX/Mammalia/Rodentia/Insectivora/PTC/Trapping/NALV/NASSN/NAHBT
Record #8680
- Weis, N. T., M. D. Samuel, D. H. Rusch, and F. D. Caswell. 1991. Effects of resighting errors on capture-resight estimates for neck-banded Canada Geese. J. Field Ornithol. 62:464-473.
Index Terms: TX/Aves/Waterfowl/Canada Goose/Branta canadensis/HBT/Wetlands/SSN/Spring/Summer/Fall/Winter/PTC/Banding/Capture-recapture/NALV
Record #8690
- Welsh, D. A. 1983. Use of the mapping method to study the effects of boreal forest cutting on bird populations. Pages 57-63 in Bird census and Mediterranean landscape.
Index Terms: TX/Aves/HBT/Coniferous Forest/LV/Population/PTC/Spot-mapping/NASSN/
Record #8700

Welsh, H. H. Jr. 1987. Monitoring herpetofauna in woodland habitats of northwestern California and southwestern Oregon: A comprehensive strategy. In Proceedings of the symposium on multiple-use management of California's hardwood resources, San Luis Obispo, CA, November 12-14, 1986. U.S. Dept. Agric., Forest Service, Pacific Southwest Forest and Range Experiment Station, Berkeley, CA. Gen. Tech. Rep. PSW-100. 462 pp.
Index Terms: TX/Reptilia/Amphibia/HBT/Forest/NALV/NAPTC/NASSN
Record #8710

Wenger, C. R., and A. T. Cringan. 1978. Siren-elicited Coyote vocalizations: An evaluation of a census technique. Wildl. Soc. Bull. 6:73-76.
Index Terms: TX/Mammalia/Carnivora/Coyote/Canis latrans/HBT/Grassland/SSN/Summer/PTC//Communication/Road Census/NALV
Record #8720

Werner, J. K. 1991. A radiotelemetry implant technique for use with Bufo americanus. Herpetol. Rev. 22:94-95.
Index Terms: TX/Amphibia/Salientia/Bufo americanus/American Toad/NALV/NAPTC/NAHBT/NASSN
Record #8730

West, S. D. 1985. Differential capture between old and new models of the Museum Special snap trap. J. Mammal. 66:798-800.
Index Terms: TX/Mammalia/PTC/Trapping/Snap-trap/NALV/NASSN/NAHBT
Record #8740

Westphal, A. 1992. Results of the 1991-1992 Michigan bird feeder survey. Jack-Pine Warbler 69:23-24.
Index Terms: TX/Aves/Passerine/Woodpecker/PTC/Feeder Survey/NALV/NAHBT/NASSN
Record #8750

Whitaker, A. H. 1967. Baiting pitfall traps for small lizards. Herpetologica 23:309-310.
Index Terms: TX/Reptilia/Lacertilia/PTC/Trapping/Pitfall/NASSN/NALV/NAHBT
Record #8760

White, C. M., and S. K. Sherrod. 1973. Advantages and disadvantages of the use of rotor-winged aircraft in raptor surveys. Raptor Res. 7:97-104.
Index Terms: TX/Aves/Raptor/PTC/Aerial Census/NASSN/NALV/NAHBT
Record #8770

White, G. C., D. R. Anderson, K. P. Burnham, and D. L. Otis. 1982. Capture-recapture and removal methods for sampling closed populations. Los Alamos National Laboratory, Los Alamos, NM. 235 pp.
Index Terms: LV/Population/PTC/Capture-recapture/NASSN/NATX/NAHBT
Record #8780

Wiegman, D. L., M. Hakkila, K. Whitmore, and R. A. Cole. 1980. Survey of the Sacramento Mountain Salamander (Aneides hardii) habitat on the Cloudcroft and Mayhill Districts in the Lincoln National Forest. U.S. Dept. Agric., Forest Service. Contract OM-40-7512-O-632.
Index Terms: TX/Amphibia/Caudata/Aneides hardii/Sacramento Mountain Salamander/LV/Habitat Use/HBT/Forest/NAPTC/NASSN
Record #8790

Williams, D. F., and S. E. Braun. 1983. Comparison of pitfall and conventional traps for sampling small mammal populations. J. Wildl. Manage. 47:841-845.
Index Terms: TX/Mammalia/Rodentia/Insectivora/Peromyscus/Tamias/Microtus/Sorex/LV/Relative Abundance/Population/SSN/Summer/HBT/Coniferous Forest/PTC/Trapping/Pitfall/Live-trap/Snap-trap/Drift Fence
Record #8800

Williamson, F. S. L., M. C. Thompson, and J. Q. Hines. 1966. Avifaunal investigations. Pages 437-480 in Wilimovsky, N. J., ed. Environment of the Cape Thompson Region, Alaska.
Index Terms: TX/Aves/NAPTC/NASSN/NALV/NAHBT
Record #8810

Williamson, K. 1972. The relevance of the mapping census technique to the conservation of migratory bird populations. U.S. Bur. Sport Fish. Wildl. Res. Rep. 2:27-40.
Index Terms: TX/Aves/LV/Population/PTC/Spot-mapping/NASSN/NAHBT
Record #8820

Williams, L. E. Jr. 1959. Analysis of Wild Turkey field-sign: An approach to census. M.S. thesis, Auburn Univ. 74 pp.
Index Terms: TX/Aves/Upland Groundbird/Wild Turkey/Meleagris gallopavo/PTC/Sign Index/NASSN/NALV/NAHBT
Record #8830

Williams, R. D., J. E. Gates, and C. H. Hocutt. 1981. An evaluation of known and potential sampling techniques for Hellbender, Cryptobranchus alleganiensis. J. Herpetol. 15:23-27.

Index Terms: TX/Amphibia/Caudata/Hellbender/Cryptobranchus alleganiensis/SSN/Spring/Summer/LV/Abundance/HBT/Riparian/Wetlands/PTC/Rock-turning/Electroshock/Netting/Timed Search/Marking/Nightlighting/
Record #8840

Wolffinden, N. D., and J. R. Murphy. 1977. A roadside raptor census in the eastern Great Basin--1973-1974. Raptor Res. 11:62.

Index Terms: TX/Aves/Raptor/PTC/Road Census/NASSN/NALV/NAHBT
Record #8850

Wood, J. E. 1959. Relative estimates of fox population levels. Wildl. Soc. Bull. 23:53-63.

Index Terms: TX/Mammalia/Carnivora/Fox/LV/Population/NAPTC/NASSN/NAHBT
Record #8860

Woodbury, A. M. 1956. Uses of marking animals in ecological studies: Marking amphibians and reptiles. Ecology 37:670-674.

Index Terms: TX/Reptilia/Amphibia/PTC/Marking/NASSN/NALV/NAHBT
Record #8870

Woolhead, J. 1987. A method for estimating the number of breeding pairs of Great Crested Grebes (Podiceps cristatus) on lakes. Bird Study 34:82-86.

Index Terms: TX/Aves/Waterfowl/Great Crested Grebe/Podiceps cristatus/HBT/Wetlands/SSN/Breeding/Spring/Summer/NALV/NAPTC
Record #8880

Wrakestraw, G. F. 1972. 1972 Wyoming Bald and Golden Eagle survey. Wyoming Game and Fish Comm., Cheyenne. Job Comp. Rep. W-50-4-21. 7 pp.

Index Terms: TX/Aves/Raptor/Golden Eagle/Aquila chrysaetos/Bald Eagle/Haliaeetus leucocephalus/NAPTC/NALV/NAHBT/NASSN
Record #8890

Wrakestraw, G. F. 1973. The 1973 Wyoming Bald and Golden Eagle survey. Am. Birds 27:716-718.

Index Terms: TX/Aves/Raptor/Bald Eagle/Haliaeetus leucocephalus/Golden Eagle/Aquila chrysaetos/NAPTC/NASSN/NALV/NAHBT
Record #8900

Wright, A. L. 1984. Winter habitat use and abundance of Black and Turkey Vultures at Gettysburg. M.S. thesis, Penn. State Univ. 42 pp.

Index Terms: TX/Aves/Raptor/Black Vulture/Coragyps atratus/Turkey Vulture/Cathartes aura/LV/Abundance/Habitat Use/SSN/Winter/NAPTC/NAHBT

Record #8910

Wright, A. L., R. H. Yahner, and G. L. Storm. 1986. Roost-tree characteristics and abundance of wintering vultures at a communal roost in south central Pennsylvania. Raptor Res. 20: 102-107.

Index Terms: TX/Aves/Raptor/Black Vulture/Coragyps atratus/Turkey Vulture/Cathartes aura/LV/Habitat Use/Abundance/SSN/Winter/NAPTC/NAHBT

Record #8920

Wright, E. G. 1939. Marking birds by imping feathers. J. Wildl. Manage. 3:238-239.

Index Terms: TX/Aves/PTC/Marking/NASSN/NALV/NAHBT

Record #8930

Wright, G. M., J. Dixon, and B. Thompson. 1933. A preliminary survey of faunal relations in National Parks. N.P.S. Fauna Series 1. Wash. D.C.

Index Terms: LV/Community/NATX/NAPTC/NAHBT/NASSN

Record #8940

Yahner, R. H. 1984. Effects of habitat patchiness created by a Ruffed Grouse management plan on breeding bird communities. Am. Midland Nat. 111:409-413.

Index Terms: TX/Aves/Woodpecker/Passerine/LV/Community/Density/HBT/Deciduous Forest/SSN/Breeding/Spring/Summer/PTC/Fixed-width Transect

Record #8950

Yahner, R. H., and H. R. Smith. 1990. Avian community structure and habitat relationships in central Pennsylvania forests. J. Penn. Acad. Sci. 64:3-7.

Index Terms: TX/Aves/Passerine/LV/Abundance/HBT/Deciduous Forest/SSN/Summer/Breeding/PTC/Fixed-width Transect

Record #8960

Yahner, R. H., and H. R. Smith. 1991. Small mammal abundance and habitat relationships on deciduous forested sites with different susceptibility to Gypsy Moth defoliation. *Environmental Manage.* 15:113-120.

Index Terms: TX/Mammalia/Rodentia/Insectivora/Masked Shrew/Sorex cinereus/Northern Short-tailed Shrew/Blarina brevicauda/Rodentia/Muridae/White-footed Mouse/Peromyscus leucopus/Southern Red-backed Vole/Clethrionomys gapperi/HBT/Deciduous Forest/LV/Relative Abundance/Distribution/SSN/Summer/PTC/Trapping/Pitfall/Live-trap
Record #8970

Yalden, D. W., and P. E. Yalden. 1991. Efficiency of censusing Golden Plovers. *Wader Study Group Bull.* 62:32-36.

Index Terms: TX/Aves/Shorebird/Greater Golden Plover/Pluvialis apricaria/Lesser Golden Plover/Pluvialis dominica/NASSN/NAHBT/NALV/NAPTC
Record #8980

Yo, S., R. E. Marsh, and T. P. Salmon. 1988. Correlation of two census methods (food consumption and gnawing evidence) for assessing Norway Rat populations. *Am. Soc. Test. Materials ASTM Spec. Tech. Publ.* 974:81-88.

Index Terms: TX/Mammalia/Rodentia/Muridae/Norway Rat/Rattus norvegicus/LV/Population/PTC/Sign Index/NASSN/NAHBT
Record #8990

Yosef, R., and F. E. Lohrer. 1992. A composite treadle/bal-chatri trap for Loggerhead Shrikes. *Wildl. Soc. Bull.* 20:116-118.

Index Terms: TX/Aves/Passerine/Loggerhead Shrike/Lanius ludovicianus/LV/Presence/SSN/Summer/Winter/HBT/Wetlands/Agriculture/Deciduous Forest/PTC/Trapping/Bal-chatri/Banding
Record #9000

Yui, M. 1974. The census method of the woodland bird population during the breeding season. *Bull. Gov. For. Exp. Stn.* 264:13-84.

Index Terms: TX/Aves/SSN/Breeding/Spring/Summer/HBT/Forest/LV/Community/NAPTC
Record #9010

Yui, M. 1978. Studies on the line transect census method of the woodland bird populations. I. An analysis of diurnal change of the census effectivity. *Misc. Rep. Yamashina Inst. Ornithol.* 10:70-81.

Index Terms: TX/Aves/HBT/Forest/LV/Community/PTC/Line Transect/NASSN/
Record #9020

Yunger, J. A., R. Brewer, and R. Snook. 1992. A method for decreasing trap mortality of Sorex. Can. Field-Nat. 106:249-251.

Index Terms: TX/Mammalia/Insectivora/Sorex cinereus/Masked Shrew/HBT/Wetlands/SSN/Spring/Summer/Fall/PTC/Trapping/Pitfall/NALV

Record #9030

Zackheim, H. S. 1982. Statewide Wildlife Research: Ecology and Population Status of the River Otter in Southwestern Montana. Mont. Dept. of Fish, Wildlife and Parks. Mont. W-120-R-13. 103 pp.

Index Terms: TX/Mammalia/Carnivora/River Otter/Lutra canadensis/LV/Population/NASSN/NAHBT/NAPTC

Record #9040

Zemba, R., J. M. Fancher, C. S. Nordby, and R. J. Bransfield. 1985. Intermarsh movements by light-footed Clapper Rails indicated in part through regular censusing. Calif. Fish. Game 71:164-171.

Index Terms: TX/Aves/Wader/Clapper Rail/Rallus longirostris/HBT/Wetlands/NASSN/NALV/NAPTC

Record #9050

Zippin, C. 1956. An evaluation of the removal method of estimating animal populations. Biometrics 12:163-189.

Index Terms: LV/Population/PTC/Trapping/Removal/NATX/NASSN/NAHBT

Record #9060

Zippin, C. 1958. The removal method of population estimation. J. Wildl. Manage. 22:82-90.

Index Terms: LV/Population/PTC/Trapping/Removal/NASSN/NATX/NAHBT

Record #9070

Zwickel, F. C., and J. F. Bendell. 1967. A snare for capturing Blue Grouse. J. Wildl. Manage. 31:202-204.

Index Terms: TX/Aves/Upland Groundbird/Blue Grouse/Dendragapus obscurus/SSN/Summer/Breeding/PTC/Netting/Snaring/Banding/NALV/NAHBT

Record #9080

Literature Cited

Ambrose, J. P., and S. P. Bratton. 1990. Trends in landscape heterogeneity along the border of Great Smoky Mountains National Park. *Conserv. Biol.* 4:135-143.

Anderson, J. R., E. E. Hardy, J. T. Roach, and R. E. Witmer. 1976. A land use and land cover classification system for use with remote sensor data. Geological Survey Professional Paper 964. 27 pp.

Cooperrider, A. Y., R. J. Boyd, and H. R. Stuart, eds. 1986. Inventory and monitoring of wildlife habitat. U.S. Dept. Inter., Bur. Land Manage. Service Center. Denver, CO. xviii + 858 pp.

Davis, D. E., ed. 1982. The 1982 CRC handbook of census methods for terrestrial vertebrates. CRC Press, Inc. Boca Raton, FL.

Drost, C. A., and T. J. Stohlgren. 1993. Natural resource inventory and monitoring bibliography. U.S. Dept. Inter., NPS Tech. Rep. 93-04. 211 pp.

Pro-Cite Version 1.4. 1988. Personal Bibliographic Software, Inc. Ann Arbor, MI.

Yahner, R. H., G. L. Storm, G. S. Keller, and R. W. Rohrbaugh. 1994. Inventorying and monitoring protocols of vertebrates in national park areas of the eastern United States: the faunal report. U.S. Dept. Inter. Nat. Park Serv. Tech. Rep. NPS/MAR/NRTR-94/058. 81 pp.

Appendix 1

Categories and Key Terms for the *Pro-Cite* Index

Appendix 1. Categories and key terms for the *Pro-Cite* index

I. Taxon (TX)

A. Amphibia

1. Caudata (Salamanders)
2. Salientia (Toads, Frogs)

B. Reptilia

1. Testudines (Turtles and Tortoises)
2. Lacertilia (Lizards)
3. Serpentes (Snakes)

C. Aves

1. Waterfowl (Gaviiformes, Podicipediformes, Pelecaniformes, and Anseriformes)
2. Shorebird (Charadriiformes)
3. Wader (Ciconiiformes and Gruiformes)
4. Upland Groundbird (Galliformes and Columbiformes)
5. Raptor (Hawks, Falcons, Vultures)
6. Owl (Strigiformes)
7. Woodpecker (Piciformes)
8. Passerine (Passeriformes, Caprimulgiformes, Cuculiformes, Apodiformes, Coraciiformes)

D. Mammalia

1. Didelphimorphia (Virginia Opossum)
2. Insectivora (Shrews, Moles)
3. Chiroptera (Bats)
4. Carnivora (Raccoon, Weasels, Skunks, Canids, Felids)
5. Rodentia
 - a. Sciuridae (Squirrels, Chipmunks, Prairie Dogs, Ground Squirrels)
 - b. Castoridae (Beaver)
 - c. Muridae (Mice, Rats, Lemmings, Voles)
 - d. Erethizontidae (Porcupine)
6. Lagomorpha (Rabbits, Hares)

II. Habitat (HBT)

A. Cliff

B. Riparian

C. Scrub/Shrub

D. Forest (Woodland)

1. Coniferous
2. Deciduous
3. Mixed

E. Grassland (Prairie)

F. Agriculture (Pasture, Fields)

G. Wetlands (Ponds, Lakes, Marshes, Bogs, Swamps)

H. Desert

I. Cave

Appendix 1. (continued)

III. Season (SSN)

- A. Breeding
- B. Winter
- C. Spring
- D. Summer
- E. Fall

IV. Level of Information (LV)

- A. Presence
- B. Abundance
- C. Density
- D. Distribution
- E. Population (Trends)
- F. Nesting/Breeding Success
- G. Territory
- H. Home Range
- I. Community (Diversity and Structure)
- J. Habitat Use

V. Protocol (PTC)

- A. Transect
 - 1. Fixed-width
 - 2. Variable-width
 - 3. Line
 - 4. Strip
- B. Variable Circular-plot
- C. Point Count (Fixed-area Circular-plot)
- D. Spot-mapping
- E. Communication Index
- F. Recording
 - 1. Conspecific
 - 2. Interspecific
- G. Scat Index
- H. Pellet Index
- I. Den/Dam/Lodge Index
- J. Tracking
- K. Scent Station
- L. Nest Count
- M. Roost Count
- N. Flush Count
- O. Nightlighting
- P. Sounding
- Q. Road Kill
- R. Road Census
- S. Boat Census
- T. Aerial Census
- U. Quadrat
- V. Photography

Appendix 1. (continued)

- W. Netting
 - 1. Mist-net
 - 2. Tadpole Netting
- X. Snaring
- Y. Trapping
 - 1. Pitfall
 - 2. Snap-trap
 - 3. Live-trap
 - 4. Bat-trap
 - 5. Funnel-trap
- Z. Drift Fence
- AA. Removal
- BB. Marking
- CC. Banding/Tagging
- DD. Capture-recapture
- EE. Assessment Line (Grid)
- FF. Rock-/Log-turning
- GG. Coverboard
- HH. Artificial Shelter
- II. Timed Search
- JJ. Feeder Survey
- KK. Christmas Bird Count
- LL. Breeding Bird Survey
- MM. Breeding Bird Atlas
- NN. Winter Bird Population Study

Appendix 2

Numbers of Citations for the *Pro-Cite* Index Field

Appendix 2. Numbers of citations for the *Pro-Cite* index field

I.	Taxon (TX)	833 citations
A.	Amphibia	53
1.	Caudata	25
2.	Salientia	20
B.	Reptilia	79
1.	Testudines	26
2.	Lacertilia	26
3.	Serpentes	31
C.	Aves	503
1.	Waterfowl	75
2.	Shorebird	23
3.	Wader	32
4.	Upland Groundbird	86
5.	Raptor	82
6.	Owl	40
7.	Woodpecker	32
8.	Passerine	100
D.	Mammalia	244
1.	Didelphimorphia	7
2.	Insectivora	55
3.	Chiroptera	18
4.	Carnivora	49
5.	Rodentia	129
a.	Sciuridae	28
b.	Castoridae	5
c.	Muridae	47
d.	Erethizontidae	0
6.	Lagomorpha	28
II.	Habitat (HBT)	297 citations
A.	Cliff	4
B.	Riparian	44
C.	Scrub/Shrub	42
D.	Forest	167
1.	Coniferous	58
2.	Deciduous	60
3.	Mixed	32
E.	Grassland	45
F.	Agriculture	25
G.	Wetlands	80
H.	Desert	9
I.	Cave	2
III.	Season (SSN)	333 citations
A.	Breeding	172
B.	Winter	88
C.	Spring	220
D.	Summer	237
E.	Fall	84

Appendix 2. (continued)

IV. Level of Information (LV) 514 citations

- A. Presence 40
- B. Abundance 106
- C. Density 141
- D. Distribution 45
- E. Population 203
- F. Nesting/Breeding Success 37
- G. Territory 6
- H. Home Range 11
- I. Community 81
- J. Habitat Use 35

V. Protocol (PTC) 606 citations

- A. Transect 92
 - 1. Fixed-width 11
 - 2. Variable-width 10
 - 3. Line 28
 - 4. Strip 12
- B. Variable Circular-plot 22
- C. Point Count
 - (Fixed-area Circular-plot) 27
- D. Spot-mapping 47
- E. Communication Index 61
- F. Recording 30
 - 1. Conspecific 28
 - 2. Interspecific 2
- G. Scat/Sign Index 11
- H. Pellet Index 2
- I. Den/Dam/Lodge Index 2
- J. Tracking 17
- K. Scent Station 15
- L. Nest Count 23
- M. Roost Count 5
- N. Flush Count 3
- O. Nightlighting 12
- P. Sounding 2
- Q. Road Kill 2
- R. Road Census 40
- S. Boat Census 8
- T. Aerial Census 50
- U. Quadrat 3
- V. Photography 10
- W. Netting 56
 - 1. Mist-net 11
 - 2. Tadpole Netting 1
- X. Snaring 5
- Y. Trapping 169
 - 1. Pitfall 30
 - 2. Snap-trap 11
 - 3. Live-trap 59

Appendix 2. (continued)

4. Bat-trap	4
5. Funnel-trap/Aquatic Trap	9
Z. Drift Fence	18
AA. Removal	10
BB. Marking	76
CC. Banding/Tagging	36
DD. Capture-recapture	38
EE. Assessment Line (Grid)	6
FF. Rock-turning/Log-turning	7
GG. Coverboard	1
HH. Artificial Shelter	1
II. Timed Search	7
JJ. Feeder Survey	1
KK. Christmas Bird Count	7
LL. Breeding Bird Survey	13
MM. Breeding Bird Atlas	8
NN. Winter Bird Population Study	8

Appendix 3
Amphibian and Reptile Protocols

Appendix 3. Protocols for inventorying and monitoring amphibians and reptiles

Transect (used in association with Trapping, Rock-turning/Log- turning, Tracking, or Timed Search):

Citations:	Dalrymple 1988 (#2090); Ramotnik and Scott 1988 (#6600); Sullivan 1987 (#7900).
Information:	Density
Cost:	Medium Cost
Labor:	Medium Labor
Expertise:	Species identification

Communication Index:

Citations:	unknown
Taxa:	Amphibia (Salientia)
Habitat:	Riparian, Forest, Wetlands
Seasons:	Spring
Information:	Presence
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Species identification with vocalizations

Appendix 3. (continued)

Tracking:

Citations:	Lillywhite 1982 (#5200); Scott and Dobie 1980 (#7260).
Taxa:	Reptilia (terrestrial Testudines and Serpentes)
Habitats:	unknown
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance
Cost:	unknown
Labor:	unknown
Materials:	none
Expertise:	Species identification from tracks

Nightlighting:

Citations:	Williams et al. 1981 (#8840).
Taxa:	Amphibia (Caudata [Hellbender])
Habitats:	Wetlands, Riparian
Seasons:	Spring, Summer
Information:	Presence
Cost:	Low
Labor:	Low
Materials:	Spotlight
Expertise:	Hellbender identification

Appendix 3. (continued)

Sounding:

Citations:	Carpenter 1955 (#1650); Medica et al. 1986 (#5700).
Taxa:	Reptilia (Testudines)
Habitats:	Forest
Seasons:	All Seasons
Information:	Presence
Cost:	Low
Labor:	Low
Materials:	Aluminum rod
Expertise:	Species identification by sound

Road Census:

Citations:	Dalrymple 1988 (#2090); Jones 1988 (#4440); McKinstry et al. 1991 (#5680); Sullivan 1981 (#7900).
Taxa:	Amphibia (Salientia), Reptilia (Serpentes)
Habitats:	Riparian, Forest, Wetlands adjacent to roads
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance
Cost:	Low Cost
Labor:	Low Labor
Materials:	Car
Expertise:	Species identification

Appendix 3. (continued)

Tadpole Netting:

Citations:	Svihla 1959 (#7990).
Taxa:	Amphibia (Salientia with aquatic larvae)
Habitats:	Wetlands
Seasons:	Spring, Summer
Information:	Presence, Relative Abundance
Cost:	Low Cost
Labor:	Low-medium Labor
Materials:	Net
Expertise:	Larvae identification

Snaring:

Citations:	Franklin 1947 (#3070); Stickel 1944 (#7830).
Taxa:	Reptilia (Lacertilia and aquatic Serpentes)
Habitats:	Wetlands
Seasons:	Spring, Summer, Fall
Information:	Relative Abundance
Cost:	unknown
Labor:	unknown
Materials:	unknown
Expertise:	Species identification and handling

Appendix 3. (continued)

Trapping:

1) Pitfall Trap with Drift Fence:

Citations: Bury and Corn 1987 (#1450); Dodd 1991 (#2390); Gibbons and Semlitsch 1982 (#3350); Mengak and Guynn 1987 (#5740); Whitaker 1967 (#3040).

Taxa: Amphibia (Caudata and Salientia), Reptilia (Testudines, Lacertilia, and Serpentes)

Habitats: Riparian, Scrub/Shrub, Forest, Wetlands

Seasons: Spring, Summer, Fall

Information: Presence, Relative Abundance, Density, Population, Community

Cost: High cost

Labor: High labor

Materials: Pitfall vessels, fencing, stakes, flagging

Expertise: Species identification and handling

2) Snap-trap:

Citations: Bury and Corn 1987 (#1450); Heatwole et al. 1964 (#3880); Mengak and Guynn 1987 (#5740).

Taxa: Reptilia (Lacertilia and Serpentes)

Habitats: Riparian, Scrub/Shrub, Forest, Grassland

Seasons: Spring, Summer, Fall

Information: Relative Abundance, Density, Community

Cost: Medium Cost

Labor: Low-Medium Labor

Materials: Traps

Expertise: Reptile identification

Appendix 3. (continued)

Trapping cont.:

3) Live-trap/Funnel-trap:

Citations: Clark 1966 (#1770); Fitch 1951 (#2970); Fitch 1992 (#2960); Hall 1967 (#3670); Heatwole et al. 1964 (#3880); Rogers 1939 (#7020).

Taxa: Amphibia (Caudata and Salientia), Reptilia (Testudines, Lacertilia, and Serpentes)

Habitats: Riparian, Shrub/Scrub, Forest, Grassland, Wetlands

Seasons: Spring, Summer, Fall

Information: Presence, Relative Abundance, Density, Distribution, Community

Cost: Medium Cost

Labor: Medium Labor

Materials: Live traps

Expertise: Species identification and handling

4) Aquatic Trap/Turtle Trap:

Citations: Carpenter 1953 (#1660); Feuer 1980 (#2940); Williams et al. 1981 (#8840).

Taxa: Reptilia (Testudines)

Habitats: Wetlands, Riparian

Season: Spring, Summer, Fall

Information: Relative Abundance, Community

Cost: unknown

Labor: Moderate

Materials: Traps

Expertise: Species identification

Appendix 3. (continued)

Marking (in association with trapping or netting):

Citations:	Brown and Parker 1976 (#1280); Doody and Tamplin 1992 (#2430); Heatwole 1961 (#3890); Loncke and Obbard 1977 (#5340).
Taxa:	Amphibia (Caudata), Reptilia (Testudines, Lacertilia, and Serpentes)
Information:	Relative Abundance, Density, Individual Identification
Cost:	Medium Cost
Labor:	Medium-high Labor
Materials:	Toe-clip, paint, PIT
Expertise:	Handling individuals

Capture-recapture (used in association with Marking):

Citations:	Heckel and Roughgarden 1979 (#3900); Szaro et al. 1988 (#8040).
Taxa:	Reptilia (Testudines, Lacertilia, and Serpentes)
Habitats:	Riparian, Scrub/Shrub, Forest, Grassland
Seasons:	Spring, Summer, Fall
Information:	Relative Abundance, Density, Population
Cost:	Medium-high Cost
Labor:	High Labor
Materials:	No new materials
Expertise:	Handling individuals

Appendix 3. (continued)

Rock-turning/Log-turning:

Citations:	Aubrey et al. 1988 (#400); Dalrymple 1988 (#2090); Herrington 1988 (#3960); Ramotnik and Scott 1988 (#6680).
Taxa:	Amphibia (terrestrial Caudata)
Habitats:	Riparian, Forest, Wetlands
Seasons:	Spring, Summer
Information:	Relative Abundance, Community
Cost:	Low Cost
Labor:	Medium Labor
Materials:	Potato Rake
Expertise:	Salamander identification

Coverboard:

Citations:	DeGraaf and Yamasaki 1992 (#2220).
Taxa:	Amphibia (terrestrial Caudata)
Habitats:	Forest
Seasons:	Summer
Information:	Presence, Relative Abundance, Community
Cost:	Low
Labor:	Moderate
Materials:	1 m pine boards
Expertise:	Species identification

Appendix 3. (continued)

Artificial Shelter:

Citations:	Fitch 1992 (#2960).
Taxa:	Reptilia (Serpentes)
Habitats:	Forest, Grassland, Scrub/Shrub
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance, Community
Cost:	Low
Labor:	Moderate
Materials:	Corrugated metal sheets
Expertise:	Snake identification

Timed Search:

Citations:	Aubrey et al. 1988 (#400); Buhlmann et al. 1988 (#1320); Fitch 1992 (#2960); Jones 1988 (#4440); Szaro et al. 1988 (#8040).
Taxa:	Amphibia (Caudata and Salientia), Reptilia (Testudines, Lacertilia, and Serpentes)
Habitats:	Riparian, Scrub/Shrub, Forest, Wetlands
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance, Community
Cost:	Low Cost
Labor:	Medium Labor
Materials:	Potato Rake
Expertise:	Species identification

Appendix 4
Bird Protocols

Appendix 4. Protocols for inventorying and monitoring birds

Transect:

Citations: Conner and Dickson 1980 (#1940); Emlen 1971 (#2660); Franzreb 1981 (#3110); Hutto and Mosconi 1981 (#4190).

Taxa: Waterfowl, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine

Habitats: Riparian, Scrub/Shrub, Forest, Grassland, Wetland

Seasons: All Seasons

Information: Relative Abundance, Density, Population, Community, Habitat Use

Cost: Medium Cost

Labor: Medium Labor

Materials: none

Expertise: Sight and song identification and distance estimation

Variable Circular-plot:

Citations: Anderson and Ohmart 1981 (#190); Avery and Van Riper 1989 (#440); DeSante 1981 (#2260); Edwards et al. 1981 (#2590); Reynolds et al. 1980 (#6830).

Taxa: Wader, Upland Groundbird, Woodpecker, Passerine

Habitats: Riparian, Scrub/Shrub, Forest, Wetlands

Seasons: All Seasons

Information: Relative Abundance, Density, Community

Cost: Low-medium Cost

Labor: Medium Labor

Materials: unknown

Expertise: Sight and song identification, and distance estimation

Appendix 4. (continued)

Point Count (IPA):

Citations: Fuller and Langslow 1984 (#3240); Gutzwiller 1991 (#3630); Hutto et al. 1986 (#4200); International Bird Census Committee 1977 (#7030); Verner and Ritter 1986 (#8480).

Taxa: Waterfowl, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine

Habitats: Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands

Seasons: All Seasons

Information: Presence, Relative Abundance, Density, Population, Community

Cost: Low-medium Cost

Labor: Low-medium Labor

Materials: none

Expertise: Sight and song identification, and distance estimation

Spot-mapping:

Citations: Emlen 1984 (#2650); International Bird Census Committee 1970 (#4220); Landres and MacMahon 1980 (#5030); Oelke 1981 (#6090); Robbins 1970 (#6930).

Taxa: Waterfowl, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine

Habitats: Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands

Seasons: Spring, Summer

Information: Relative Abundance, Density, Population, Territory, Community

Cost: High Cost

Labor: High Labor

Materials: Map of area

Expertise: Sight and song identification

Appendix 4. (continued)

Communication Index:

Citations:	Bart et al. 1984 (#650); Bell 1964 (#750); DeMaso et al. 1992 (#2240); Mayfield 1981 (#5560).
Taxa:	Shorebird, Wader, Upland Groundbird, Owl, Woodpecker, Passerine
Habitats:	Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands
Seasons:	All Seasons
Information:	Presence, Relative Abundance, Density, Distribution, Population
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Song and sound identification

Conspecific Recording:

Citations:	Balding and Dibble 1984 (#560); Down 1990 (#2460); Glahn 1974 (#3420); Levy et al. 1966 (#5160); Rosenfeld et al. 1985 (#7050).
Taxa:	Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine
Habitats:	Riparian, Scrub/Shrub, Forest, Grassland, Wetlands, Agriculture
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance, Distribution, Density, Population
Cost:	Low-medium Cost
Labor:	Low-medium Labor
Materials:	Transect (for density), Recorder and Amplifier
Expertise:	Sight and song identification

Appendix 4. (continued)

Interspecific Recording:

Citations:	Johnson and Dinsmore 1986 (#4390); Kimmel and Yahner 1990 (#4720).
Taxa:	Wader, Raptor
Habitats:	Riparian, Shrub/Scrub, Forest, Grassland, Agriculture, Wetlands
Seasons:	Spring, Summer
Information:	Presence, Relative Abundance, Density
Cost:	Low-medium Cost
Labor:	Low-medium Labor
Materials:	Transect (for density), Recorder and Amplifier
Expertise:	Sight and song identification

Scat/Sign Index:

Citations:	Bull 1981 (#1350); Gullion 1960 (#3610); Williams 1959 (#8830).
Taxa:	Upland Groundbird, Woodpecker
Habitats:	Forest
Seasons:	Spring
Information:	Presence, Relative Abundance
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Scat and Sign identification

Appendix 4. (continued)

Pellet Index:

Citations:	Bull 1981 (#1350).
Taxa:	Raptor, Owl
Habitats:	Riparian, Forest
Seasons:	All Seasons
Information:	Presence, Relative Abundance
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Pellet identification

Tracking:

Citations:	Bull 1981 (#1350).
Taxa:	Upland Groundbird
Habitats:	unknown
Seasons:	Winter
Information:	Presence
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Track identification

Appendix 4. (continued)

Nest Count:

Citations: Fasola et al 1985 (#2890); Ferns and Mudge 1981 (#2910); Gloutney et al. 1993 (#3430); Steenhof and Kochert 1982 (#7780).

Taxa: Waterfowl, Shorebird, Upland Groundbird, Raptor, Woodpecker, Passerine

Habitats: Forest, Grassland, Agriculture, Wetlands

Seasons: Spring, Summer, Winter

Information: Density, Nesting Success, Habitat Use

Cost: Medium Cost for colonial nesting Shorebirds, High Cost (time) otherwise

Labor: High Labor

Materials: none

Expertise: Locating and identifying nests, and species identification

Roost Count:

Citations: Bull 1981 (#1350); Hein and Haugen 1966 (#3910); Parr and Scott 1978 (#6260); Tabberer 1971 (#8090).

Taxa: Waterfowl (Wood Duck), Upland Groundbird (Turkey), Owl, Passerine (Crows, European Starling, Blackbirds, Grackles, Brown-headed Cowbird)

Habitats: Forest, Agriculture, Wetlands

Seasons: Fall

Information: Relative Abundance, Population

Cost: Low-medium Cost

Labor: Low Labor

Materials: none

Expertise: unknown

Appendix 4. (continued)

Flush Count:

Citations:	Dorney et al. 1958 (#2440); Gartshore et al. 1982 (#3270); Rumble and Flake 1982 (#7080).
Taxa:	Waterfowl, Upland Groundbird, Passerine (Red-winged Blackbird)
Habitats:	Forest, Agriculture, Wetlands
Seasons:	All Seasons
Information:	Presence, Population, Nesting Success, Habitat Use
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Sight identification

Nightlighting:

Citations:	Bishop and Barrat 1969 (#830); Labisky 1968 (#4960); Minser and Cole 1991 (#5800); Wakkinen et al. 1992 (#8570).
Taxa:	Waterfowl, Shorebird, Wader, Upland Groundbird
Habitat:	Riparian, Shrub/Scrub, Forest, Grassland, Wetlands
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance, Population, Nesting Success
Cost:	Low Cost
Labor:	Low Labor
Materials:	Spotlight
Expertise:	Sight identification

Appendix 4. (continued)

Road Census:

Citations: Diem and Lu 1960 (#2370); Hewitt 1967 (#4010); Petraborg et al. 1953 (#6380); Saunder et al. 1971 (#7170).

Taxa: Waterfowl, Upland Groundbird, Raptor, Owl, Passerine (Red-winged Blackbird, Shrikes)

Habitat: Riparian, Shrub/Scrub, Forest, Grassland, Agriculture, and Wetlands adjacent to roads

Seasons: All Seasons

Information: Presence, Relative Abundance, Density, Population

Cost: Low Cost

Labor: Low Labor

Materials: Car, map, secondary roads, preferably

Expertise: Sight and song identification

Boat Census:

Citations: Eggeman and Johnson 1989 (#2610); Fuller and Mosher 1981 (#3220); Gerrard et al. 1990 (#3330); Steenhof and Kochert 1982 (#7780).

Taxa: Waterfowl, Shorebird, Wader, Raptor

Habitats: Riparian, Wetland

Seasons: Winter, Spring, Summer

Information: Presence, Relative Abundance, Population, Nesting Success

Cost: Medium-high Cost

Labor: Medium Labor

Materials: Boat

Expertise: Sight identification

Appendix 4. (continued)

Aerial Census (can be used with Photography):

Citations: Brown and Nassar 1991 (#1270); Eggeman and Johnson 1989 (#2610); Haramis et al. 1985 (#3750); Kushlan 1979 (#1220); Stancill and Leslie 1990 (#7720).

Taxa: Waterfowl, Shorebird, Raptor

Habitats: Riparian, Forest, Agriculture, Wetlands

Seasons: All Seasons

Information: Presence, Relative Abundance, Distribution, Density, Population, Nesting Success, Habitat Use

Cost: Extremely High Cost

Labor: Extremely High Labor

Materials: Plane, experienced pilot

Expertise: Sight identification, nest identification, number estimation

Netting (Mist-net):

Citations: Best 1990 (#780); Conner et al. 1983 (#1930); Karr 1981 (#4520); Keyes and Grue 1982 (#4670); Myers and Pardieck 1993 (#5760).

Taxa: Waterfowl, Shorebird, Upland Groundbird, Raptor, Woodpecker, Passerine

Habitats: Riparian, Shrub/Scrub, Forest, Grassland, Wetlands

Seasons: Spring, Summer, Fall

Information: Relative Abundance, Population, Community

Cost; Medium-High Cost

Labor: High Labor

Materials: Mist nets, poles, stakes

Expertise: Sight identification, bird handling and measurement

Appendix 4. (continued)

Trapping (Nestbox-trap, Bal-chatrri Trap):

Citations:	Anderson and Hamerstrom 1967 (#260); Dunk 1991 (#2510); Plumpton and Lutz 1992 (#6450); Yosef and Lohrer 1992 (#9000).
Taxa:	Waterfowl, Upland Groundbird, Raptor, Owl, Passerine (Shrikes and box-nesters)
Habitats:	Forest, Grassland, Agriculture, Wetlands
Seasons:	Spring, Summer, Winter
Information:	Presence, Density, Population
Cost:	High Cost
Labor:	High Labor
Materials:	unknown
Expertise:	Sight identification and bird handling

Banding (in association with Netting or Trapping):

Citations:	Hestbeck and Malecki 1989 (#3970); Plumpton and Lutz 1992 (#6450); Sulzbach and Locke 1978 (#7920); Weis et al. 1991 (#8690).
Taxa:	Waterfowl, Shorebird, Upland Groundbird, Raptor, Owl, Passerine
Habitats:	Riparian, Shrub/Scrub, Forest, Grassland, Agriculture, Wetlands
Seasons:	All Seasons
Information:	Density and Individual Identification
Cost:	High Cost
Labor:	High Labor
Materials:	Leg bands, pliers, measurement tools
Expertise:	Sight identification, bird handling and measurement

Appendix 4. (continued)

Capture-recapture (used in conjunction with Banding):

Citations:	Ferry et al. 1981 (#2930); Hestbeck and Malecki 1989 (#3970); Jolly 1981 (#4420); Nichols et al. 1981 (#5980).
Information:	Density, Territory, Home Range
Cost:	High Cost
Labor:	High Labor
Expertise:	Bird handling and measurement

Feeder Survey:

Citations:	Westphal 1992 (#8750).
Taxa:	Woodpecker, Passerine (seed- and suet-eating)
Habitats:	Forest, Agriculture
Seasons:	All Seasons
Information:	Presence, Relative Abundance, Population, Community
Cost:	Low Cost
Labor:	Low Labor
Materials:	Birdfeeder, seed, suet
Expertise:	Sight and song identification

Appendix 4. (continued)

Christmas Bird Count:

Citations: Bock and Lepthien 1975 (#960); Burt and Burt 1982 (#1430); Drennan 1981 (#2480).

Taxa: Waterfowl, Shorebird, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine

Habitats: Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands

Seasons: Winter

Information: Presence, Relative Abundance, Community

Cost: Low Cost

Labor: Low Labor

Materials: Data can be obtained for each bird count from Issue #4 of each volume of the American Birds magazine.

Expertise: none

Breeding Bird Survey:

Citations: Bart and Klosiewski 1989 (#630); Bock and Bystrak and Robbins 1978 (#1510); Faanes and Bystrak 1981 (#2840).

Taxa: Waterfowl, Shorebird, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine

Habitats: Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands

Seasons: Summer

Information: Presence, Relative Abundance, Community

Cost: Low Cost

Labor: Low Labor

Materials: Data can be obtained from Bruce Peterjohn at the USFWS, Office of Migratory Bird Management in Laurel, Maryland

Expertise: none

Appendix 4. (continued)

Breeding Bird Atlas:

Citations:	Raynor 1983 (#6700); Robbins et al. 1989 (#6960); Smith 1990 (#7550).
Taxa:	Waterfowl, Shorebird, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine
Habitats:	Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands
Seasons:	Summer
Information:	Presence, Relative Abundance, Community
Cost:	Low Cost
Labor:	Low Labor
Materials:	Data may be obtained from Dan Brauning at the Penn. Game Commission in Harrisburg, PA
Expertise:	none

Winter Bird Population Study:

Citations:	Brewer 1972 (#1160); Engstrom and James 1981 (#2730); Robbins 1981 (#6940); Robbins 1970 (#6950); Smith 1984 (#7600).
Taxa:	Waterfowl, Shorebird, Wader, Upland Groundbird, Raptor, Owl, Woodpecker, Passerine
Habitats:	Forest, Grassland
Seasons:	Winter
Information:	Density, Population, Community
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	none

Appendix 5
Mammal Protocols

Appendix 5. Protocols for inventorying and monitoring mammals

Transect:

Citations: Healy and Welsh 1992 (#3870); Krebs et al. 1987 (#4870).

Taxa: Carnivora, Rodentia (Sciuridae), Lagomorpha

Habitats: Forest, Grassland

Seasons: All Seasons

Information: Relative Abundance, Density, Population

Cost: Medium Cost

Labor: Medium Labor

Materials: unknown

Expertise: unknown

Communication Index (possibly with Conspecific Recording):

Citations: Bouffard and Hein 1978 (#1060); Kunz and Brock 1975 (#4920); Lishak 1977 (#5300); Okoniewski et al. 1984 (#6120); Paige et al 1985 (#6190).

Taxa: Chiroptera, Carnivora, Rodentia (Sciuridae)

Habitats: Riparian, Forest, Grassland

Seasons: Spring, Summer, Fall

Information: Presence, Relative Abundance, Population, Breeding Success

Cost: Low Cost

Labor: Low Labor

Materials: Recorder and amplifier, Ultrasonic detector for Chiroptera

Expertise: Species identification from vocalizations

Appendix 5. (continued)

Scat/Sign Index:

Citations:	Adams 1959 (#40); Andelt and Andelt 1984 (#180); Krebs et al. 1987 (#4870); Litvaitis et al. 1985 (#5320); Scott and Selko 1939 (#7320).
Taxa:	Carnivora, Rodentia, Lagomorpha
Habitat:	Forest, Grassland
Seasons:	All Seasons
Information:	Relative Abundance, Density, Population, Habitat Use
Cost:	Low Cost
Labor:	Low-medium labor
Materials:	unknown
Expertise:	Scat and Sign identification

Den/Lodge/Dam Index (may be used with Aerial Census):

Citations:	Sargeant 1975 (#7150); Scott and Selko 1939 (#7320); Village and Myhill 1990 (#8500).
Taxa:	Carnivora, Rodentia (Castoridae, Muridae [Muskrat])
Habitats:	Grassland, Agriculture, Wetlands
Seasons:	All seasons
Information:	Presence, Relative Abundance, Density
Cost:	Low Cost
Labor:	Low Labor
Materials:	none
Expertise:	Den, Lodge, and Dam location and identification

Appendix 5. (continued)

Tracking (including Sooted Aluminum Track Station):

Citations:	Barrett 1983 (#610); Boonstra et al. 1992 (#1020); Carey and Witt 1991 (#1620); Stanley and Bart 1991 (#7740).
Taxa:	Didelphimorphia, Carnivora, Rodentia (Sciuridae, Muridae), Lagomorpha
Habitats:	Shrub/Scrub, Forest, Grassland, Agriculture
Seasons:	All Seasons
Information:	Presence, Relative Abundance, Density, Distribution, Community, Habitat Use
Cost:	Low Cost (Medium for Sooted Aluminum Track Stations)
Labor:	Low Labor (Medium for Sooted Aluminum Track Stations)
Materials:	unknown
Expertise:	Track identification

Scent Station:

Citations:	Clark and Campbell 1983 (#1800); Conner et al. 1983 (#1920); Linhart and Knowlton 1975 (#5250); Roughton and Sweeney 1982 (#7070).
Taxa:	Didelphimorphia, Carnivora, Lagomorpha
Habitats:	Forest, Agriculture, Wetlands
Seasons:	All Seasons
Information:	Presence, Relative Abundance, Population
Cost:	Medium Cost
Labor:	Medium-high Labor
Materials:	unknown
Expertise:	Track and hair identification

Appendix 5. (continued)

Nightlighting:

Citations:	Flinders and Hansen 1973 (#2990); Labisky 1959 (#4950); Labisky 1968 (#4960); Stahl and Migot 1990 (#7710).
Taxa:	Didelphimorphia, Carnivora, Rodentia (Muridae [Muskrat]), Lagomorpha
Habitats:	Grassland, Wetlands
Seasons:	All Seasons
Information:	Relative Abundance, Density, Distribution
Cost:	Low Cost
Labor:	Low-medium Labor
Materials:	Spotlight
Expertise:	Species identification

Road Kill:

Citations:	Case 1978 (#1690).
Taxa:	Didelphimorphia, Carnivora, Sciuridae
Habitats:	All habitats adjacent to roads
Seasons:	All seasons
Information:	Presence, Relative Abundance, Population
Cost:	Low Cost
Labor:	Low Labor
Materials:	Car, map
Expertise:	Species identification

Appendix 5. (continued)

Road Census:

Citations:	Flinders and Hansen 1973 (#2990); Newman 1959 (#5960); Rajala 1983 (#6580); Stanley and Bart 1991 (#7740).
Taxa:	Carnivora, Lagomorpha
Habitats:	Scrub/Shrub, Forest, Grassland, Agriculture (habitats adjacent to roads)
Seasons:	Winter
Information:	Presence, Relative Abundance, Density, Distribution
Cost:	Low Cost
Labor:	Low Labor
Materials:	Car, map, secondary roads
Expertise:	Species identification

Aerial Census (can be used with Photography):

Citations:	Becker 1991 (#710); Boschart et al. 1989 (#1210); Sargeant et al. 1975 (#7150).
Taxa:	Carnivora, Rodentia (Castoridae)
Habitats:	Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands
Seasons:	Winter, Spring, Summer
Information:	Relative Abundance, Density
Cost:	Extremely High Cost
Labor:	Extremely High Labor
Materials:	Plane/Helicopter
Expertise:	Spotting/identifying animals

Appendix 5. (continued)

Netting:

Citations:	Constantine 1958 (#1960); Kunz and Brock 1975 (#4920); Saugey et al. 1988 (#7190); Tideman and Woodside 1978 (#8250).
Taxa:	Chiroptera
Habitats:	Riparian, Forest (caves)
Seasons:	Spring, Summer, Fall
Information:	Presence, Relative Abundance, Distribution
Cost:	Medium-high Cost
Labor:	Medium-high Labor
Materials:	Netting, Poles, Measurement tools
Expertise:	Species identification, handling and measurement of bats

Snaring:

Citations:	Kieth 1965 (#4560); Lishak 1976 (#5290).
Taxa:	Sciuridae, Lagomorpha
Habitats:	Shrub/Scrub, Grassland
Seasons:	Winter, Summer
Information:	Density, Individual identification when used with Marking/Banding
Cost:	unknown
Labor:	unknown
Materials:	unknown
Expertise:	Species identification and handling

Appendix 5. (continued)

Trapping:

1) Pitfall Trap (can be used with Drift Fence):

Citations: Boonstra and Krebs 1978 (#1030); Gibbons and Semlitsch 1982 (#3350); Howard and Brock 1961 (#4120); Walters 1989 (#8590).

Taxa: Insectivora, Rodentia (Muridae)

Habitats: Scrub/Shrub, Forest, Grassland, Agriculture

Seasons: All Seasons

Information: Presence, Relative Abundance, Density, Distribution, Community

Cost: Medium Cost

Labor: Medium-high Labor

Materials: 1 gallon cans, posthole digger, metal or plastic Drift Fence, stakes

Expertise: Species identification and handling

2) Snap-trap:

Citations: Galindo-Leal 1990 (#3260); Mengak and Guynn 1987 (#5740); Stenseth and Hannson 1979 (#7800); Taulman et al. 1992 (#8170).

Taxa: Insectivora, Rodentia (Muridae)

Habitats: Scrub/Shrub, Forest, Grassland, Agriculture

Seasons: All Seasons

Information: Relative Abundance, Density, Distribution, Population

Cost: Low-medium Cost

Labor: Low-medium Labor

Materials: Snap-traps

Expertise: Species identification

Appendix 5. (continued)

Trapping cont.:

3) Live-trap:

Citations: Cushwa and Burnham 1974 (#2060); Nixon et al. 1967 (#6010); Lacki et al. 1990 (#5000); Slade et al. 1993 (#7510).

Taxa: Didelphimorphia, Insectivora, Carnivora (raccoons, weasels), Rodentia (Sciuridae, Muridae), Lagomorpha

Habitats: Riparian, Scrub/Shrub, Forest, Grassland, Agriculture, Wetlands

Seasons: All Seasons

Information: Relative Abundance, Density, Distribution, Population

Cost: Low-medium Cost

Labor: Medium Labor

Materials: Sherman Live Traps (Insectivora, Muridae) or Tomahawk Live Traps (Sciuridae, Carnivora)

Expertise: Species identification and handling

4) Bat-trap:

Citations: Constantine 1958 (#1960); Kunz and Anthony 1977 (#4910); Tideman and Woodside 1978 (#8250); Tuttle 1974 (#8360).

Taxa: Chiroptera

Habitats: Cave

Seasons: Spring, Summer

Information: Presence, Relative Abundance, Density, Population

Cost: unknown

Labor: unknown

Materials: Bat-traps

Expertise: Species identification and handling

Appendix 5. (continued)

Marking/Banding (in association with Trapping or Netting):

Citations:	Balasingh et al. 1992 (#550); Hallet et al. 1991 (#3680); Sanderson 1961 (#7140); Schooley et al. 1993 (7240).
Taxa:	Didelphimorphia, Insectivora, Chiroptera, Carnivora, Rodentia (Sciuridae, Muridae)
Habitats:	Scrub/Shrub, Forest, Grassland, Agriculture
Seasons:	All Seasons
Information:	Density, Population, Individual Identification
Cost:	Medium-high Cost
Labor:	Medium-high Labor
Materials:	Bands/ear tags, pliers, measuring equipment
Expertise:	Handling individuals

Capture-recapture or Removal (in association with Trapping, Netting, and Marking/Banding):

Citations:	Hayne 1949 (#3850); Hilborne et al. 1976 (#4060).
Taxa:	Chiroptera, Rodentia (Muridae)
Habitats:	Riparian, Forest, Grassland, Agriculture, Wetlands
Seasons:	All Seasons
Information:	Density, Population
Cost:	Medium-high Cost
Labor:	Medium-high Labor
Materials:	No additional materials
Expertise:	Handling individuals

Appendix 5. (continued)

Assessment Line (with Grid):

Citations:	Kaufman et al. 1971 (#4530); Kennedy et al. 1986 (#4610); O'Farrell et al. 1977 (#6070); Smith et al. 1971 (#7590).
Taxa:	Insectivora, Carnivora (Raccoon), Rodentia (Muridae except Muskrat)
Habitat:	Scrub/Shrub, Forest
Seasons:	Summer
Information:	Relative Abundance, Density, Population
Cost:	unknown
Labor:	unknown
Materials:	unknown
Expertise:	unknown